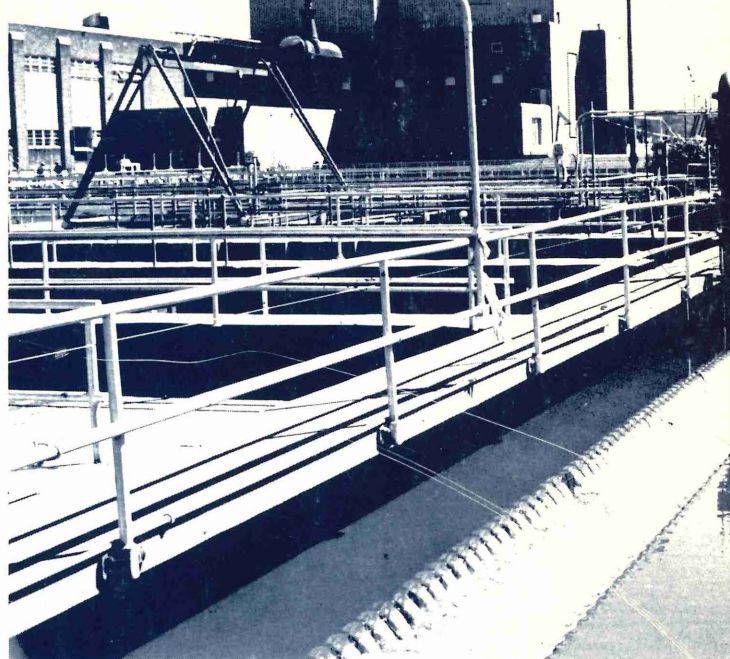
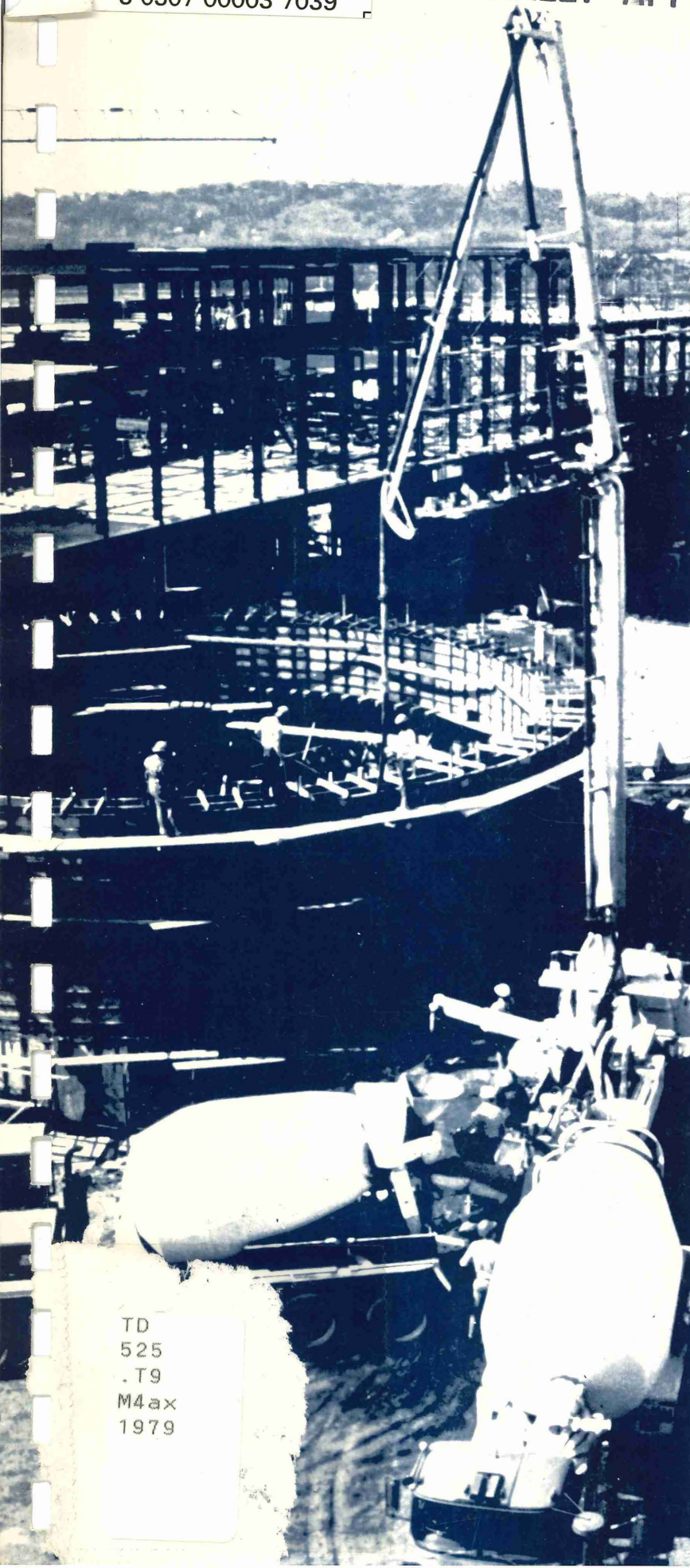


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1979 Budget

Objectives and Programs



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RESOLUTION NO. 78-61

RESOLUTION APPROVING SUBJECT TO CONDITIONS THE 1979 CAPITAL
IMPROVEMENT BUDGETS OF THE METROPOLITAN WASTE CONTROL
COMMISSION AND THE METROPOLITAN TRANSIT COMMISSION

WHEREAS, the Metropolitan Waste Control Commission and the Metropolitan Transit Commission have submitted their proposed 1979 Capital Budgets to the Metropolitan Council for review by the Council in accordance with the Minnesota Statutes, Sec. 473.163; and

WHEREAS, said Section authorizes and requires that the Metropolitan Council approve or disapprove Capital Improvement Budgets of the Metropolitan Waste Control Commission and Metropolitan Transit Commission in whole or in part; and

WHEREAS, the Metropolitan Council has reviewed the proposed 1979 Capital Improvement Budgets of the Metropolitan Waste Control Commission and the Metropolitan Transit Commission in relation to areawide fiscal capacity, functional system objectives, the Metropolitan Development Framework, and other applicable Metropolitan plans, policies, and programs; and

WHEREAS, the Physical Development Committee of the Metropolitan Council, in discharge of the above statutory responsibility, has analyzed the budgets of these Commissions and recommends that the Metropolitan Council act to approve, subject to compliance with certain conditions and recommendations, the Metropolitan Waste Control Commission's and Metropolitan Transit Commission's proposed 1979 Capital Budgets and to direct the resubmission of the same prior to December 15, 1978.

NOW, THEREFORE, BE IT RESOLVED:

1. THAT the Metropolitan Council approves, subject to the exclusions and compliance with the conditions and recommendations contained in Referral Report No. 78-104 of the Physical Development Committee to the Metropolitan Council, the Capital Budgets of the Metropolitan Waste Control Commission and Metropolitan Transit Commission, as set forth in an attachment to the Referral Report.
2. THAT the Metropolitan Council directs the Metropolitan Waste Control Commission and Metropolitan Transit Commission to resubmit their proposed 1979 Capital Budgets to the Council for further review prior to December 15, 1978, containing provisions which address and comply with the above-referenced conditions and recommendations.

3. THAT the Metropolitan Council directs the Chairman of the Council to transmit this Resolution together with the referenced report to the Metropolitan Waste Control Commission and the Metropolitan Transit Commission, and to advise the Commissions of the Council's procedure which must be followed in connection with the resubmission of the Capital Improvement Budgets prior to December 15, 1978. Further, the Council directs the Chairman to take all other action necessary to discharge the Council's statutory duty and responsibility with regard to its review of the Commissions' Capital Improvement Budgets.

Adopted this 28th day of September, 1978.

METROPOLITAN COUNCIL

By

John Boland
John Boland, Chairman

By

Joane Vail
Joane Vail, Secretary

METROPOLITAN WASTE CONTROL COMMISSION
350 Metro Square Building, Saint Paul, Minnesota 55101
222-8423

RESOLUTION NO. 78-293

RESOLUTION APPROVING AND ADOPTING
1979 PROGRAM BUDGET

WHEREAS, the 1979 Program Budget was presented to the Commission at its regular meeting of June 20, 1978, and

WHEREAS, public hearings were held on the proposed budget on July, August, and September, and

WHEREAS, the Metropolitan Council has reviewed and approved, with amendments, the capital improvement portion of the budget,


NOW, THEREFORE, BE IT RESOLVED:

1. That the Metropolitan Waste Control Commission approve and adopt the 1979 Program Budget as amended by the Metropolitan Council, and
2. That the amount of \$43,019,339 be allocated to the various units of government for current use costs, and
3. That the amount of \$2,869,000 be allocated to industrial users for Industrial Strength Charges, and
4. That the amount of \$3,859,485 be allocated to various units of government for reserve capacity charges, and
5. That the SAC unit charge applicable during the 1979 budget year is \$425.00, and
6. That the Commission concur with the Metropolitan Council on the capital improvement portion of the budget requiring additional funding of \$10,258,176 on previously authorized projects.
7. That the Commission concur with the Metropolitan Council on the reappropriation of \$72,533,889 for projects previously authorized as detailed on Schedule 13, and
8. That the Commission concur with the comments and recommendations approved by the Metropolitan Council relating to the capital improvement portion of the budget.

Adopted this 17th day of October, 1978

METROPOLITAN WASTE CONTROL COMMISSION

By 
Barbara L. Lukermann, Chairwoman

By 
Richard J. Dougherty, Chief Administrator

Chief Administrator's Message

June 13, 1978

The Honorable Barbara L. Lukermann, Chairwoman
Members of the Commission
Metropolitan Waste Control Commission
350 Metro Square Building
Saint Paul, Minnesota 55101

Dear Mrs. Lukermann and Commissioners:

Enclosed for your review and consideration in accordance with the Metropolitan Council Act, Minnesota Statutes, Chapter 473B.063 (as amended by the Metropolitan Reorganization Act, Chapter 422, 1974 Session Laws), is the proposed 1979 Budget for the Metropolitan Waste Control Commission covering the period January 1 through December 31, 1979.

The procedure followed in preparation of the Budget began with the submission request by the Program Managers to their Department Director. After the Department Director had reviewed the program budget, it was forwarded to the Comptroller's Department for review and checking of arithmetic. The programs were then reviewed with the Program Managers/Department Directors and the Budget Committee consisting of the Deputy Chief Administrator, Deputy Director of Construction and the Comptroller. After all the programs had been reviewed, revised and justified, summary totals were developed for the Budget Committee. The Budget Committee reviewed the summary totals and presented them to the Chief Administrator. The Budget Document submitted to you represents the results of this process and procedure.

Expenditures for the administration, operation and maintenance of the Metropolitan Disposal System during 1979 totals \$50,192,824. This amount represents a \$3,853,845, or 8.3 percent increase in proposed expenditures over the current year's Budget. The total proposed expenditures of \$50,192,824 are detailed and described in 59 Program Budgets as indicated on Schedules 3 through 3-28. Each Program Budget indicates a description of the program, performance criteria and total resources required. You will find that Program Budgets and performance measurements, which emphasize results, not dollars spent, will tell you a great deal more about our activities and whether they meet community needs and requirements than the traditional line-item budgeting. In addition, this budgeting concept outlines a considerable amount of information in an understandable manner.

Richard J. Dougherty
Chief Administrator

Anthony C. Gnerre
Deputy Chief Administrator

Departmental Directors
Bernard J. Harrington
Engineering

Raynold O. Folland
Construction

George W. Lusher, Jr.
Operations

Walter K. Johnson, Ph. D.
Quality Control

Richard L. Berg
Comptroller

Kenneth E. Robins
Business Services

The Honorable Barbara L. Lukermann, Chairwoman
Members of the Commission
June 13, 1978
Page Two

Some of the major categories requiring increases/decreases over the current year's Budget are as follows:

Salaries and Wages - Proposed salaries and wages for 1979 total \$11,858,410, an increase of \$2,077,993 over the prior year. This increase is attributed to 59 new positions and pay increases as provided for in labor agreements for longevity, merit and cost of living considerations.

Insurance - Proposed insurance costs for 1979 total \$1,049,865, an increase of \$457,665, or 77.3 percent over the prior year. This increase is primarily attributed to building and property insurance which increased 34.0 percent and Worker's Compensation insurance which increased 109.7 percent.

Utilities - Utility costs which include electricity, fuel oil, natural gas and water are estimated to cost \$8,108,208, an increase of \$875,994, or 12.1 percent over the current year's Budget. This increase is attributed to the continual rate increases for all utility costs and the added facilities at the Metro Plant.

Contracted Services - Proposed contracted services costs for 1979 total \$2,848,371, an increase of \$558,102 or 24.4% over the prior year, due primarily to ash lagoon clean-out at Metro.

Debt Service - Debt Service costs for 1978 total \$13,073,568 a decrease of \$1,046,782 over the prior year. A Summary of Debt Service is indicated on Schedule 4 complete with details for debt assumed from local governments and bond issues of the Metropolitan Council for sewer capital improvements.

Personnel Summary - The personnel requirement for 1979 requires 61 new positions resulting in a total complement of 709 employees. Of these new positions, 59 are required for the administration, operation, and maintenance of the Metropolitan Disposal System as follows: Ten (10) for Quality Control (water quality, air quality, and laboratory services); One (1) for the Comptroller's Department (Payroll); Operations - Thirteen (13) new employees are required with the fixed shifts (the reduction in overtime will more than offset these salaries), twenty-Nine (29) new employees are required for the expanded facilities at Metro, and seven (7) employees for the new Lakeville-Farmington Plant; Two (2) of the positions relate to Construction, both of which are in the Engineering Department--the Staff Engineer II for electrical and instrumentation needs and the Clerk-Typist II for the 201 Projects.

The Honorable Barbara L. Lukermann, Chairwoman
Members of the Commission
June 13, 1978
Page Three

Sewer Service Charges - Allocation of current use charges to local governments being served by the Metropolitan Disposal System is estimated to cost \$47.25 per 100,000 gallons (per family) based on flow volume of 91,049 million gallons. Schedule 6 indicates the annual estimated flow, treatment works and service area costs for each community being served by the system. Each local government is required to remit the total annual charges in 12 monthly installments due on or before the 10th day of each month.

Reserve Capacity Charges (SAC) - The SAC charge for 1979 will be \$425.00 per SAC unit. SAC debt service is estimated at \$3,859,479. The SAC reserve fund balance is \$4,473,268 at the end of 1977.

Industrial Strength Charges - This system anticipates revenues from approximately 144 firms located in 32 units of government with estimated revenues of \$2,869,000.

In summary, the 8.3 percent increase in the total Budget is derived from the following:

Increase in the 1979 Budget due to normal Budget increases including wage increases, price increases on materials and supplies, contracted services, etc.	5.00%
Increase in 1979 Budget related to new facilities at the Metropolitan Wastewater Treatment Plant	3.7%
Increase in 1979 Budget due to increased costs of land disposal of sludge	.2%
Increase in 1979 Budget due to new Lakeville-Farmington Plant costs	.5%
Increase in 1979 Budget due to abnormal increase in insurance premiums	1.0%
Increase in 1979 Budget due to increase in the reserve for major repairs	.2%
Decrease in 1979 Budget due to reduction in Debt Service Budget	(2.3%)
Net Budget Increase	<u>8.3%</u>

The Honorable Barbara L. Lukermann, Chairwoman
Members of the Commission
June 13, 1978
Page Four

This Budget document is prepared in two sections. The first section relates to operating the system which has been discussed above. The second section deals with the Capital Improvements Program which requires review and approval by the Metropolitan Council. Previously approved projects require additional appropriations in the amount of \$10,258,176 and are detailed and described in Schedules 13-4 through 13-5.

Revenue requirements to finance the proposed projects and those previously approved and authorized total \$207,327,171. These revenues include Certified Federal Grants of \$95,751,351, Certified State Grants of \$21,562,781, anticipated future Federal and State Grants of \$63,218,422, and investment earnings of \$4,005,000. A complete financial review, analysis and update of the Capital Improvements Program indicates a fund balance on April 30, 1978 in the amount of \$27,865,110; estimated total revenues in the amount of \$185,547,554; expenditures for previously funded programs totaling \$207,327,171, resulting in a fund balance at completion of the current program in the amount of \$6,085,493.

This financial analysis indicates that the program fund balance of \$6,085,493 is available to fund future projects entirely with local funds and/or for providing funds for the local share when federal and state funding is available. A summary statement of the fund balance, revenues and expenditures is indicated on Schedule 7. It is anticipated that the sale of bonds will not be required within the next year.

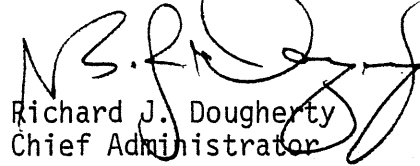
Included in this Budget document is an update status report summary of all current Capital Improvement Projects previously approved and authorized and indicated on Schedule 13. Status reports of Certified Federal and State grants, anticipated Federal and State grants and anticipated investment earnings are indicated on Schedules 9, 10, 11 and 12.

The Honorable Barbara L. Lukermann, Chairwoman
Members of the Commission
June 13, 1978
Page Five

In submitting this 1979 Program Budget to the Commission, I wish to point out that many members of the staff have contributed significantly to the preparation of this Budget. Their expertise, experience and judgment have been exceedingly valuable to me. The task, at this point, is for the Commission to carefully review the objectives and programs contained in this Budget with the Department Directors and the Administrative staff; thereafter in subsequent public meetings to hear and consider input from the Council, local government officials and other interested parties.

The staff, as usual, will provide to you our complete cooperation and assistance in the review process.

Very truly yours,



Richard J. Dougherty
Chief Administrator

RJD:RLB:jm

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GOALS AND OBJECTIVES

General Goal

It is the goal of the Metropolitan Waste Control Commission of the Twin Cities Area to continue refinement of the overall management and operation of the Metropolitan Disposal System and accelerate pollution abatement programs; thereby fulfilling all statutory responsibilities in an environmentally sensitive and economically sound manner that will continue to enhance water quality and benefit both area and downstream citizens.

Objectives

Administration: To ensure overall administrative management of Commission affairs including legal and legislative matters; policy formulation and implementation; all programs related to Federal, State and local agencies; competitive and equal opportunities for employees; a positive affirmative action program; employee career development programs; ongoing information and communication programs with all levels of government and citizens; a safety program complying fully with the Occupational Safety and Health Act (OSHA); and special projects.

Engineering: To provide a variety of engineering and technical services for the Commission encompassing facility design, consulting engineer liaison, comprehensive sewer plan review, cost allocation and technical data production, planning coordination and capital project implementation.

Quality Control: To supply a total quality control program for the Commission through sampling and laboratory services, water quality monitoring systems, process evaluation programs, industrial waste surveillance, research and development projects and requested technical services.

Construction: To manage all proposed and authorized capital improvement projects and existing facility inspection programs for the Commission through project review, inspection services, testing, surveys, change orders, cost and payment estimates, and report preparation.

Operations: To maintain the operational efficiency of all Commission water pollution control facilities within the effluent and water quality standards prescribed by the National Pollutant Discharge Elimination System permit program through continued upgrading of wastewater treatment plant processes, improved facility maintenance, inspection of interceptor sewers and instrumentation, and expanded plant services and research and development programs.

Business Services: To supervise for the Commission the necessary services for personnel administration, labor agreement negotiation, labor contract administration, life and medical insurance assistance, property and casualty insurance processing, all purchasing functions and overall office management.

Comptroller: To perform the full range of required financial services for the Commission on a timely basis including collections, disbursements, payroll, investments, budgeting, general accounting, final reporting, cost effectiveness studies and other related financial matters.

General Fund – Revenues & Expenditures

	<u>Proposed 1979</u>	<u>Budget 1978</u>	<u>Actual 1977</u>
ESTIMATED REVENUES:			
Sewer Service Charges - Communities	\$43,019,339	\$39,295,745	\$33,353,989
Industrial Strength Charges	2,869,000	2,416,400	1,924,708
Service Availability Charges	3,859,485	4,196,410	8,053,106
Investment Earnings	300,000	275,000	335,438
Federal Grants	120,000	130,424	251,437
Other	<u>25,000</u>	<u>25,000</u>	<u>143,654</u>
Total	<u>\$50,192,824</u>	<u>\$46,338,979</u>	<u>\$44,062,332</u>

ESTIMATED EXPENDITURES:

Programs	\$33,147,339	\$28,149,768	\$21,795,946
Debt Service	13,073,568	14,120,350	13,155,129
Acquisition Costs	3,971,917	4,068,861	3,717,661
Transfer to SAC Reserve	- 0 -	- 0 -	3,458,075
Due to Local Governments	<u>- 0 -</u>	<u>- 0 -</u>	<u>1,935,521</u>
Total	<u>\$50,192,824</u>	<u>\$46,338,979</u>	<u>\$44,062,332</u>

PROGRAMS

ADMINISTRATION & MANAGEMENT (001)

Description: To ensure accomplishment of all agency goals and objectives through efficient and effective administrative management of over-all Commission affairs.

1. Review financial affairs of the Commission;
2. Provide leadership and direction to Dept. Directors and Program Managers;
3. Insure that construction work is on schedule;
4. Review NPDES reports for compliance with effluent limitations;
5. Provide leadership in attaining affirmative action goals;
6. Carryout and administrate Commission policy;
7. Insure that plans and specifications and the Capital Program are presented on a timely basis.

Performance Criteria:

1. To administrate, in cooperation with the Comptroller, the financial affairs of the Commission in a manner that the expenditures do not exceed the income;
2. To administrate, in cooperation with the Comptroller, the Program Budget in such a manner that the manpower, cost estimates, and goals set forth in the management programs are met;
3. To administrate, in cooperation with the Construction Department, so as to maintain change order amounts to less than 3% of the construction value. Maintain the construction work on schedule for 1978.

ADMINISTRATION & MANAGEMENT (continued)

4. To administrate, in cooperation with the Operations Department, a 92% compliance with NPDES effluent limitations at the Metro Plant and 94% compliance at all other plants and maintain a severity rate of less than 40% at all plants during 1978;
5. To achieve the affirmative action goals in maintaining a program of recruitment, selection, upward mobility and training that will measure improvement in the overall employment of minorities, females and the handicapped;
6. To achieve a 95% frequency of acceptance on the recommendations made to the Commission;
7. To administrate, in cooperation with the Engineering Department, the completion of plans and specifications and the presentation of the Capital Program on schedule.

Resources Required: \$ 522,184

Work Hours Required: 3,580

COMMISSION ADMINISTRATION (002)

Description: To provide Commissioners with prompt administrative support and with efficient implementation of policy directives from official actions of the Commission.

1. Review and/or prepare memorandums, resolutions and other pertinent data for presentation to Committee and/or Commission meetings;
2. Prepare and present various operational reports on all major functions of the Commission;
3. Promptly report and communicate all major items that have or could have any adverse effect on the Commission;

COMMISSION ADMINISTRATION (continued)

4. Carry out all Commission directives and requests.

Performance Criteria:

1. Preparation of Commission business items and mail prior to Wednesday of the week preceding Commission Committee, regular and/or special meetings;
2. Present monthly operational reports such as financial and other pertinent items;
3. Respond to Commission directives and/or requests within five (5) days.

Resources Required: \$ 87,670

Work Hours Required: 3,950

AFFIRMATIVE ACTION/EEO (003)

Description: Maintain a program of recruitment, selection, upward mobility and training that will measure improvement in the overall employment of minorities, females and handicapped.

1. Carry out the complete requirements of the Commission's Affirmative Action Program;
2. Comply with all requirements of the State of Minnesota Department of Human Rights, and the Equal Employment Opportunity Commission;
3. Assist and direct the Commission's Affirmative Action Committee to act and perform in an effective and timely manner;
4. Provide Human Relations Training;
5. Employ and train minorities for professional and managerial job categories;

AFFIRMATIVE ACTION/EEO (continued)

6. Employ handicapped and train, if needed;
7. Achieve Certificate of Compliance from Minnesota Department of Human Rights.

Performance Criteria:

1. Increase the number of minorities and females employed during the budget year by approximately 3%;
2. Comply with all requirements of the State of Minnesota Department of Human Rights and requirements of EEO;
3. Publish monthly Affirmative Action Report;
4. Continue employee Human Relations Training Program;
5. Increase minority and female employees in professional and managerial categories;
6. Recruit and employ handicapped, where applicable;
7. Achieve Certificate of Compliance from Minnesota Department of Human Rights.

Resources Required: \$ 82,508

Work Hours Required: 4,750

PUBLIC INFORMATION (004)

Description: To conduct a total information and communication program for all internal and external Commission audiences.

1. Provide information and educational programs regarding pollution control objectives, activities and responsibilities to government organizations, the news media, individual citizens, and educational institutions

PUBLIC INFORMATION (continued)

2. Increase the level of government official and citizen involvement in the decision-making process pursuant to Commission objectives and in compliance with the dictates of EPA Regulations, public participation in water pollution control, and all other applicable federal and state regulations;
3. Insure total communications support to all levels and areas of staff and employee activity.

Performance Criteria:

1. Produce and distribute 7,000 copies of 1978 Annual Report by Feb. 1, 1979;
2. Produce and distribute 12 issues of Outfall Newsletter and Employee Newsletter and Employee News;
3. Produce special reports, brochures, presentations, projects as assigned;
4. Perform the following aspects of Information Program to fulfill Commission and Section Program Objectives: audio visual programs; speech, statement and report writing and editing; on-going public, news media, governmental, employee and visitor programs; and all other special projects and programs - all within set deadlines.

Resources Required: \$ 111,098

Work Hours Required: 5,950

SAFETY (005)

Description: To provide an effective comprehensive safety program for all Commission employees and other personnel at all Commission facilities and projects.

1. Recognize and recommend the reduction of hazards to the health of employees;
2. Provide safety training;
3. Ensure investigation of all occupational injuries and illnesses;
4. Maintain a state of safety consciousness in all employees;
5. Comply with all state and federal regulations and guidelines.

Performance Criteria:

1. Inspect each treatment plant for safe and healthful working conditions and good housekeeping at least once each month. Issue notice of non-compliance to supervisors for violation of the Commission's Safety Program and policies;
2. Maintain accurate and adequate injury records; report injury statistics quarterly;
3. Respond to each request for air contaminant or noise analysis, or other safety service;
4. Provide safety training in the use of safety equipment, in the handling of hazardous materials, in operating procedures, in injury prevention, and in first-aid;
5. Write and distribute to employees each month a safety newsletter;
6. Hire one additional Safety Engineer/Technician.

SAFETY (continued)

Resources Required: \$ 55,061

Work Hours Required: 2,750

CAREER DEVELOPMENT (006)

Description: To provide educational and training opportunities for employees to aid in performing current job assignments more efficiently and to prepare for promotional and advancement opportunities within the organization.

1. Enroll and successfully complete courses of study for approximately 100 employees within the organization in the 10 major program categories listed below.

Performance Criteria:

1. Fundamentals of wastewater treatment;
2. Operation of wastewater treatment plants;
3. State certification;
4. Other Operations programs;
5. Quality Control;
6. Clerical-secretarial programs;
7. Management Center-College of St. Thomas;
8. University of Minnesota;
9. Other educational and vocational programs;
10. Degree program.

CAREER DEVELOPMENT (continued)

Resources Required: \$ 32,368

Work Hours Required: 170

GRANTS ADMINISTRATION (007)

Description: Administration of the Commission's Construction Grants Program in accordance with the Federal Water Pollution Control Act Amendments of 1972 and other pertinent laws, rules and regulations.

Performance Criteria:

1. Prepare applications for the award of federal and state construction grants for 1978;
2. Maintain liaison between the Commission and EPA/MPCA throughout the duration of each grant;
3. Monitor construction contracts to ensure contractor compliance with EEO and Fair Labor Standards of the federal government;
4. Assist other Departments in the preparation of grant applications and the coordination of grant information;
5. Monitor other state and federal programs for possible financial assistance to the Commission.

Resources Required: \$ 63,785

Work Hours Required: 5,900

ENGINEERING ADMINISTRATION (008)

Description:

1. To administrate the department's responsibilities in an effective and efficient manner, including the use of program account funds, preparation and presentation of Commission Business Items, review and recommend action on interceptor acquisition requests, responses to requests and correspondence, continuously update design standards and criteria, provide effective supervision and make annual personnel evaluations, attend staff meetings to establish Commission policies and objectives and prepare the annual department program budget;
2. To prepare and recommend approval of special agreements including the coordination of site investigations, design review and consideration for Commission facilities;
3. To provide engineering support to other departments including the preparation and implementation of in-house plans and specifications for minor projects.

Performance Criteria:

1. Were expenditures kept within the budgeted amounts in Accounts 5040 through 6200? Were business items, outside responses and interceptor acquisition requests effectively and timely provided, recommended and/or presented each time? Were design standards and criteria, supervision, personnel evaluations, and attendance at staff meetings effectively accomplished and/or implemented each time? Was the annual budget prepared and submitted by April 1, 1979?
2. Were all special agreements effectively and timely provided and implemented each time?

ENGINEERING ADMINISTRATION (continued)

3. Was engineering support including the preparation of in-house plans and specifications effectively provided?
4. Were program objectives accomplished within the budgeted manhours and costs?

Resources Required: \$ 184,930

Work Hours Required: 9,320

COMMUNITY SERVICES (009)

Description:

1. To request, review, coordinate and recommend approval of local comprehensive sewer plans (interim plans, amended plans and the sewer element of the comprehensive plan), local sanitary sewer improvement projects and to meet with local government units and the Metropolitan Council to discuss planning coordination for sanitary sewers;
2. To review and comment on the Waste Management Policy Plan and amendments, community comprehensive plans, environmental impact statements, A-95 grant applications, watershed plans as requested;
3. To review and recommend approval of sewer connection permit applications, rental agreements and interceptor use policies;
4. To obtain, determine, evaluate, and assign actual sewage flow for communities based on metered and unmetered flow information and to project estimated community flows, interceptor and treatment capacities to be used in the Cost Allocation Program;
5. To study, determine and assign Service Availability Charge (SAC) units for all new non-industrial users of the Metropolitan Disposal System.

COMMUNITY SERVICES (continued)

Performance Criteria:

1. Prepare for and obtain Commission approval for 20-25 community comprehensive sewer plans (interim plans, plan amendments and sewer elements of the comprehensive plan). Review and coordinate with Metropolitan Council and communities on approximately 50 comprehensive sewer plans. Provide comments to the community and the Minnesota Pollution Control Agency on approximately 200 community sewer improvement projects;
2. Provide comments on 60 environmental impact statements and A-95 reviews to the Metropolitan Council;
3. Review and obtain approval of approximately 40 interceptor connection permit applications and sewer rental agreements;
4. Determine, review and assign the actual sewage flow volumes (140 metered and 70 unmetered) for 100 communities and report these total flows on both a quarterly and annual basis. Provide the assigned treatment works and interceptor capacities and the estimated sewage flow volumes for 100 communities in the 1979 Cost Allocation Program; Provide routine sewage flow and special flow analysis data to communities in a timely manner to 30 communities. Prepare, distribute, collect and analyze "Survey of Sewer Use Data Forms" for 100 communities to obtain information on present and proposed sewer use and sewer connections plus similar data on water.
5. Determine and assign the SAC units in a timely manner and furnish the results to the communities in either oral (600-700) or written (100-150) communications. Expand the present chart on SAC unit

COMMUNITY SERVICES (continued)

5. (cont.) determinations to include additional commercial, public and institutional uses.

Resources Required: \$ 101,351

Work Hours Required: 8,720

PROJECT PLANNING (010)

Description: To prepare the Development Program for Years 1980-84 in accord with the requirements of the Metropolitan Reorganization Act and with information from the Facility Planning Studies by December 31, 1979 within manhours and costs.

Performance Criteria: Was the Development Program for Years 1981-1985 prepared by December 31, 1979 and within the budgeted amounts.

Resources Required: \$ 70,864

Work Hours Required: 4,260

QUALITY CONTROL ADMINISTRATION (011)

Description: To plan, direct and control the activities of the Quality Control Department.

1. Supervise the 7 programs within the Quality Control Department through budget preparations and monthly reviews of budgets and expenditures, monthly planning sessions for future activities, semi-monthly departmental program managers' meetings, and by providing general administrative and clerical support for the programs;
2. Coordinate departmental activities with those of other departments through weekly meetings with the Chief Administrator, semi-monthly department directors' meetings, weekly meetings with the Directors of Engineering and Operations, and other communications as the needs arise;

QUALITY CONTROL ADMINISTRATION
(continued)

3. Prepare reports and meeting agenda items for the Commission, and attend meetings of the Commission;
4. Review the status of each employee on the employee's anniversary date, review the personnel requirements in each program semi-annually, and respond to other personnel needs in the department;
5. Visit each treatment facility twice annually and visit each regional laboratory monthly to assess the general operations;
6. Participate in special studies for the Commission in response to interim program needs, citations and stipulations from regulatory agencies, and legal actions taken against the Commission;
7. Supervise the activities of the Commission with regard to sludge utilization, particularly on land;
8. Participate in professional activities in the interests of the Commission through contacts with the other agencies and organizations.

Performance Criteria:

1. Degree of attainment of program objective, number of staff meetings held, and adequacy of clerical support;
2. Number and value of meetings held with directors;
3. Number of Commission agenda items prepared and problems encountered with each;
4. Number of timely reviews made and decisions made from such reviews;

QUALITY CONTROL ADMINISTRATION
(continued)

5. Number of visits made;
6. Number of interim studies made;
7. Evaluate progress and extent of new sludge utilization practices and proposals;
8. Review the extent and value of outside professional activities.

Resources Required: \$ 99,188

Work Hours Required: 4,772

INDUSTRIAL WASTES (012)

Description: To administer the industrial waste regulations of the Commission and evaluate the impact of industrial wastes on treatment plant operations.

1. Plan and coordinate the industrial waste program;
2. Maintain a current inventory of industrial waste contributors and prepare quarterly summary reports on contributors and monitoring;
3. Process all industrial SAC applications received;
4. Administer the strength charge and industrial cost recovery systems;
5. Inspect and monitor 150 industrial operations;
6. Conduct 30 treatment plant investigations;
7. Administer the Commission pre-treatment system;
8. Attend 5 conferences on industrial waste treatment technology;
9. Prepare an annual industrial wastes report by March 1

INDUSTRIAL WASTES (continued)

Performance Criteria:

1. Comparison of objectives met and resources used;
2. Number of industries delinquent in reporting and those properly inventories;
3. Number of SAC applications processed in 10 days and total number received;
4. Number of bills prepared within 30 days of end of accounting period;
5. Number of industrial operations inspected and monitored;
6. Number of treatment plant investigations conducted;
7. Number of problems resolved and total number of problems assigned;
8. Assessment of value of conferences to the Commission;
9. Date of completion.

Resources Required: \$228,927

Work Hours Required: 19,085

RESEARCH & DEVELOPMENT (013)

Description: To provide support for and conduct in-house research, external research, plant operations research, and pilot plant studies.

1. Sponsor research projects of U of M which address the long-term needs of the MWCC in terms of treatment performance and analytical procedures;
2. Review Research and Development work by other agencies;
3. Continue funding of joint U.S.D.A.-M.W.C.C. study of sludge disposal on agricultural land;

RESEARCH & DEVELOPMENT (continued)

4. Evaluate methods to characterize, condition, stabilize, and dewater treatment plant sludges;
5. Evaluate alternative methods of disinfection and their effects on receiving waters;
6. Evaluate methods of ammonia removal (pilot plant);
7. Evaluate methods of optimizing treatment efficiency with the A.S. process and control bulking;
8. Investigate alternative methods of maintaining dissolved oxygen water quality standards in the Mississippi River;
9. Characterize chemical and bacteriological quality of leachate for sludge and ash deposit on land and investigate methods of control;
10. Evaluate methods available for removal of heavy metals which affect ultimate disposal of treatment residues;
11. Prepare semiannual reports on Research and Development by February 16 and August 17.

Performance Criteria:

1. Quality of final reports in terms of MWCC needs;
2. Topics reviewed in the technical literature and in meetings with other professionals;
3. Value to MWCC for planning and operation of land disposal facilities;
4. Number and quality of evaluation completed;
5. Number and quality of evaluation completed;

RESEARCH & DEVELOPMENT (continued)

6. Number and quality of studies completed;
7. Number and quality of studies completed;
8. Number and quality of studies completed;
9. Quality of study and final report;
10. Number and quality of evaluation completed;
11. Dates reports completed.

Resources Required: \$ 260,667

Work Hours Required: 10,920

WATER QUALITY MONITORING (014)

Description: To monitor the quality of Metropolitan Area rivers through the MWCC Comprehensive Water Quality Monitoring System which includes the MWCC Routine River Grab Sampling Network, the MWCC Routine Lake Sampling Network, the MWCC-USGS Cooperative Grab Sampling Network, and the MWCC-USGS Cooperative Automatic Monitor Surveillance Network.

1. Direct the operation of the MWCC Comprehensive Water Quality System;
2. Collect data on toxic substances (metals, PCB's);
3. Collect data on biological parameters-algae, periphyton;
4. Prepare an annual report of Area water quality by March 1, 1979;
5. Attend one conference on water resource management and attend one conference on limnology;
6. Write three papers of scientific studies conducted by Quality Control and submit to journals for publication;

WATER QUALITY MONITORING (continued)

7. Conduct the sampling of Area rivers through the Automatic Monitor Surveillance Network.

Performance Criteria:

1. Number of samples obtained versus the number scheduled;
2. Number of samples obtained versus the number scheduled;
3. Number of samples obtained versus the number scheduled;
4. Compare completion date with scheduled completion date;
5. Written assessment of conferences;
6. Number of papers written and submitted to journals;
7. Number of samples obtained versus the number scheduled, and the reliability of the data versus 90%.

Resources Required: \$ 134,931

Work Hours Required: 6,545

LABORATORY SERVICES (015)

Description: To conduct routine sampling of wastewater treatment plants and area waters and to provide complete laboratory services for the Commission by conducting and reporting analyses performed on samples originating from treatment plants, rivers, industries, special studies and research and development programs.

1. Collect samples from all treatment plants operated by the Commission as required for NPDES permits and operational control;
2. Collect samples from 25 locations on Area rivers at weekly intervals and from selected Area lakes;

LABORATORY SERVICES (continued)

3. Conduct 149,000 laboratory analyses and prepare appropriate reports as follows:
 - a) 48,000 analyses for NPDES monitoring of treatment plants
 - b) 15,000 analyses for Area rivers and lakes
 - c) 40,000 analyses for treatment plant control
 - d) 10,000 analyses for support of special studies projects
 - e) 22,000 analyses for industrial wastes
 - f) 14,000 analyses for internal laboratory quality control
4. Prepare monthly NPDES summary report by the 7th day of the month;
5. Prepare an annual report on laboratory activity by March 1;
6. Prepare an annual report on treatment plant performance by April 15;
7. Maintain professional stature through attendance at conferences on analytical chemistry and biological analyses and review of technical publications;
8. Maintain a laboratory equipment and supplies inventory system;
9. Maintain laboratory instrumentation and continuous monitoring equipment used for operational plant control.

LABORATORY SERVICES (continued)

Performance Criteria:

1. Number of samples requiring resampling compared to number of samples scheduled;
2. Number of samples taken compared to number of samples scheduled;
3. Compare number of analyses conducted to number planned in program;
4. Number completed by the 7th day of the month to the total reports required;
5. Compare time of completion to scheduled date;
6. Compare time of completion to scheduled date;
7. Assess value of conferences and publication to program activities;
8. Assess value of inventory system;
9. Percentage of time laboratory instrumentation and monitoring equipment not functioning.

Resources Required: \$ 807,909

Work Hours Required: 74,822

AIR QUALITY MONITORING (016)

Description: To monitor ambient air quality and gaseous emissions resulting from sludge incineration for particulate, gaseous, odorous, and hazardous materials at all Commission facilities and assist in evaluation of potential air pollution abatement equipment.

1. Determine compliance of gaseous stack emissions from the Metropolitan and Seneca Plants with existing air quality standards and prepare quarterly reports;

AIR QUALITY MONITORING (continued)

2. Conduct 5 ambient air quality surveys at Commission facilities and prepare reports;
3. Conduct continuous H₂S monitoring at the Metropolitan, Seneca, and Blue Lake Treatment Plants and prepare monthly reports;
4. Conduct documentation studies on all odor complaints received by the Commission;
5. Prepare an annual air quality report by April 15;
6. Attend conferences on air quality monitoring;
7. Conduct weekly opacity monitoring on stacks at the Metro and Seneca Plants and prepare report.

Performance Criteria:

1. Number of compliance reports completed as compared to the number scheduled;
2. Number of air quality surveys completed as compared to number scheduled;
3. Number of reports completed as compared to the number scheduled;
4. Number of studies completed as compared to the number of odor complaints received;
5. Compare time of completion to scheduled date;
6. Assess value of conference to program activities;
7. Number of tests completed to number scheduled.

Resources Required: \$ 73,605

Work Hours Required: 5,112

PROCESS AUTOMATION (017)

Description: To demonstrate the cost effectiveness of automatic and semi-automatic control schemes available for a number of wastewater treatment processes.

1. Prepare application for grant renewal and submit to EPA by 3-31-79;
2. Prepare and submit quarterly progress reports to EPA project officer;
3. Prepare final report on vacuum filter automation and submit to EPA project officer by 3-30-79;
4. Prepare loop evaluation report for incinerator control project and submit to EPA project officer by 1-31-79;
5. Prepare control system evaluation report for the incinerator control project and submit to EPA project officer by 5-15-79;
6. Prepare final report on incinerator control project and submit to EPA project officer by 10-31-79;
7. Maintain all monitoring and control hardware and software;
8. Implement 1979-1980 work plan for integrated solids handling at Seneca;
9. Implement 1979-1980 work plan for evaluation of control strategies of anaerobic digestion.

Performance Criteria:

1. Date grant application submitted to EPA;
2. Preparation of quarterly reports;
3. Date final report submitted;
4. Date loop evaluation report submitted;
5. Date control system report submitted;
6. Date final report submitted;
7. Hardware and software down time;

PROCESS AUTOMATION (continued)

8. Target date in work plan;
9. Target date in work plan.

Resources Required: \$ 183,198

Work Hours Required: 7,339

CONSTRUCTION ADMINISTRATION (018)

Description: To provide overall administration by the Construction Department of an estimated 25 capital improvement contracts.

1. Maintain and utilize current project files, plans, and specifications; review and evaluate testing and schedule management services; review and evaluate Construction Dept. personnel performance and needs; review all program budgets prepared by the Construction Department; maintain an ongoing training program for all Construction Department personnel; and maintain a current Construction Department Policy Manual and Organizational Structure;
2. Review and evaluate an estimated 60 change orders and prepare current change order tabulations and process them through the Commission for an estimated 25 capital improvement projects;
3. Review and process contract payments through the Commission for an estimated 25 capital improvement projects;

Performance Criteria:

1. Complete construction in accordance with the contract plans and specifications at a cost for all Construction Administration not to exceed 2½%;

CONSTRUCTION ADMINISTRATION (continued)

2. Process Change Orders and Resolutions through the MWCC Engineering Dept. and MWCC Administration Dept. with 90% of these provided to the Chief Administrator 3 days prior to mailing to the Commission;
3. Process monthly construction payments and other disbursements through the MWCC Engineering Dept., Comptroller's Dept. and Administration Dept. with 90% of these provided to the Chief Administrator 3 days prior to mailing to the Commission.

Resources Required: \$ 46,145

Work Hours Required: 2,500

BUSINESS ADMINISTRATION (019)

Description:

1. Provide overall central office management to include security, mail distribution, telephone communications, central file system and office space allocations and furnishings;
2. Attend management staff meetings and unscheduled meetings with the Chief Administrator to discuss various Business Services Dept. matters;
3. Conduct monthly dept. meetings with staff to review Commission activities and allow staff members to discuss problem areas; Evaluate and consult individually with staff on specific areas of concern;
4. Provide paper copying reproduction services on a daily basis for Central Office functions;
5. Maintain an effective Central File and paid invoice file system;

BUSINESS SERVICES ADMINISTRATION
(continued)

6. Oversee and supervise purchasing activities;
7. Prepare and present business items at committee meetings as they relate to labor, personnel and purchasing matters;
8. Develop the 1980 Business Services Department Operating Budget.

Performance Criteria:

1. 100% of office machines serviced on a timely basis and 100% of mail received in the mail-room posted the day it was received;
2. Attend all staff meetings and place at least 6 items on the agenda throughout the year;
3. Conduct 12 department staff meetings;
4. 90% of copy requests to be filled the day requested;
5. Overall policy on the Central File system developed by 7-1-79;
6. Hold formal meetings with the Purchasing Agent at least 6 times during the year to discuss and upgrade purchasing techniques;
7. Prepare business items in accordance with the preset time frame;
8. Meet budget calendar.

Resources Required: \$ 167,337

Work Hours Required: 5,790

PERSONNEL SERVICES (020)

Description:

1. To recruit, interview and hire employees within a 4 week period in accordance with rules and regulations set forth by the Equal Employment Opportunity Commission, the Minnesota Dept. of Human Rights and the MWCC Affirmative Action Program;
2. To continually update personnel files and to review each to insure promotional and other job opportunities become known to qualified employees;
3. To conduct exit interviews of all terminating employees;
4. To maintain job applicant files by classification and send acknowledgement letter for all applications;
5. To update seniority, address and other personnel lists on a continuing basis to assure current information is available;
6. To establish validated examinations as necessary;
7. To distribute to supervisors necessary evaluation and probationary forms and ensure proper and timely completion;
8. To continue the Employee Assistance Program and insure that employees are aware of its existence and purpose;
9. Through attendance at 2 seminars and by reading professional journals and publications, update personnel policy guidelines based on new concepts, ideas and legal restrictions.

PERSONNEL SERVICES (continued)

Performance Criteria:

1. 80% of employees hired in four weeks or less from date position was authorized to be filled;
2. 50 personnel files reviewed monthly;
3. 90% of all terminating employees given exit interviews;
4. All applications acknowledged within 3 days;
5. Seniority list changes made within 2 days from date hired or promotion took place;
6. Three validated tests to be established;
7. Number of probationary forms completed timely to number of employees completing probationary status;
8. All new employees to be given a copy of the Program policy and purpose and at least one general mailing to all employees to review the Program purpose and availability.

Resources Required: \$ 86,235

Work Hours Required: 4,150

LABOR RELATIONS & EMPLOYEE BENEFITS (021)

Description:

1. To negotiate 7 labor agreements within 45 days of their expiration date without any mediation or arbitration proceedings;
2. To produce contractual documents and explain proper contract administration to supervisory staff;

LABOR RELATIONS & EMPLOYEE BENEFITS (continued)

3. By attendance at the National Public Employers Labor Relations meeting and by reading publications and journals develop trends regarding labor negotiations settlements and develop new methods and techniques of contract negotiation;
4. To hold labor/management meetings with union representatives to resolve any general differences not related to the negotiating process.

Performance Criteria:

1. Labor agreements with A.F.S.C. & M.C., Local 8, I.U.O.E., Local 35; I.A.M., Lodge 77; I.B.E.W., Local 110; U.A.P., Local 455; Painters and Allied Trades, Local 61; and Bricklayers, Local 1 completed within 90 days from beginning of negotiations;
2. Seven meetings held within 30 days after approval of agreements with all supervisors to explain contract changes;
3. Document at least one new method or technique used in labor negotiations;
4. Were at least 3 meetings held with union representatives to discuss general labor/management problems.

Resources Required: \$ 27,612

Work Hours Required: 790

PROPERTY, CASUALTY & EMPLOYEE BENEFITS INSURANCE (022)

Description:

1. To process all property & casualty damage claims so that affected party is expeditiously serviced and continually review all outstanding claims to ensure that action is being taken on them.

PROPERTY, CASUALTY & EMPLOYEE
BENEFITS INSURANCE (continued)

2. To administer the overall Worker's Compensation program to ensure that claims are processed timely and that the insurance carrier is servicing the claim properly;
3. To maintain ongoing update to assure that all risks are properly covered and that all premiums reflect the insurance in force;
4. Provide complete explanation of entire fringe benefit program to new employees and complete necessary forms and at termination advise employees of conversion provisions available on the various insurance policies;
5. To answer questions on policy content and assist with claim problems.

Performance Criteria:

1. Number of property damage claims receiving initial acknowledgement within 3 days to total number of claims;
2. Number of worker's compensation claims processed in 2 days to total number of claims;
3. Number of new insurable risks not reported to insurance company within 1 day;
4. Every employee signed up for fringe benefits within 1 day of beginning their job and close insurance files on an employee who terminates prior to retirement within a 7 day period;
5. Number of medical claim questions answered directly to number of inquiries that must be made to insurance company or consultant.

Resources Required: \$ 1,071,140

Work Hours Required: 2,390

PURCHASING (023)

Description:

1. To provide a centralized purchasing system with a proper set of checks and balances on orders;
2. To administer a purchasing program that assures the best prices available are being received for the quantities ordered;
3. To maintain a bid calendar for all items to be carried through the bidding process and administer bidding procedures;
4. To insure proper purchasing records are being kept throughout the year;
5. To coordinate with Comptroller all purchases against budget allocations;
6. To follow-up on incorrect or damaged deliveries of merchandise;
7. To manage a central motor pool so that utilization of all Central Office based vehicles can be coordinated and maximized;
8. To seek out and help minority vendors participate in the purchasing program.

Performance Criteria:

1. 90% of all purchase orders processed completely within 3 days from date requisition is received;
2. Develop a quarterly report that shows that best prices are being received from vendors;
3. Complete processing of contracts on bid items within 5 days from date of Commission approval;
4. New record-keeping procedure established by 7-1-79;

PURCHASING (continued)

5. Number of purchase orders rejected because of lack of budget allocation to total purchase orders;
6. Number of material returns to number of purchase orders;
7. Develop a card file system on motor pool vehicles to indicate monthly usage and maintenance data;
8. Utilize a minimum of 2 new minority vendors.

Resources Required: \$ 88,332

Work Hours Required: 8,930

COMPTROLLER ADMINISTRATION (024)

Description:

1. To improve present computer systems & applications in order to provide needed management information through visitation at both local government and industrial computer installations and by attendance at the national Municipal Finance Officers Assn. Conference and at appropriate seminars where information and displays of the latest management information systems are available;
2. Prepare cost effectiveness studies within 30 days of request;
3. File all Commission items and documents within 3 days of receipt;
4. Invest Federal and State grant funds on the same day received;
5. Prepare a budget calendar and perform all budget related functions within that calendar;
6. Manage & evaluate personnel annually & conduct 12 staff meetings;

COMPTROLLER ADMINISTRATION (continued)

7. Devote time to creative thinking as to how Commission activities and procedures can be improved.

Performance Criteria:

1. Improve computer systems in order to provide needed management information by 12-31-79;
2. Cost effectiveness studies prepared within 30 days of request;
3. Commission items filed within 3 days of receipt;
4. Investments made on the same day of receipt of Federal & State grant monies;
5. Budget prepared in accordance with the budget calendar;
6. Number of annual personnel evaluations made to number of personnel and number of staff meetings held;
7. 120 hours spent in creative thinking as to how to improve activities & procedures of the Commission.

Resources Required: \$ 86,362

Work Hours Required: 5,370

ACCOUNTING & COLLECTIONS (025)

Description:

1. Maintain a Commission-wide fixed asset system satisfactory to the State Auditor;
2. Forward data to the computer center in a timely manner so that reports are forwarded to the Dept. Directors 7 days before the Commission meeting;
3. Did State Auditor give the opinion that the reports presented fairly the financial position of MWCC;

ACCOUNTING & COLLECTIONS (continued)

4. Number of SAC audits not made by the end of year;
5. Number of SAC monies not received by the end of the month;
6. Number of SSC monies not received by the end of the month;
7. Number of months government grants not reconciled by the 5th day of the month;
8. Number of ISC monies not received within 30 days of billing;
9. Objectives met, manhours complied with and budget adhered to.

Resources Required: \$ 110,590

Work Hours Required: 6,540

DISBURSEMENTS (026)

Description:

1. Remit vendor's invoices & utility bills within 30 days;
2. Remit all discount invoices within a 10 day period;
3. Verify and prepare all disbursements to be approved by the Commission and forward these items to the Chief Administrator by noon on the 1st Wednesday of each month.

Performance Criteria:

1. Number of past due reminders received to total taken;
2. Number of discounts missed to total taken;
3. Number of times disbursement list for Commission not forwarded to Chief Administrator by noon on the 1st Wednesday of each month;

DISBURSEMENTS (continued)

4. Objectives met, manhours complied with and budget adhered to.

Resources Required: \$ 58,867

Work Hours Required: 7,880

PAYROLL (027)

Description:

1. Furnish data to compute payroll checks 3 days before payroll day;
2. Remit deductions taken on payroll checks to proper entities within 10 days after payroll day;
3. Balance all payroll general ledger accounts by the end of the month;
4. Generate quarterly sick leave and vacation reports within 30 days after end of quarter.

Performance Criteria:

1. Number of times payroll data not forwarded 3 days before payroll date;
2. Number of remittances for deductions not forwarded within 10 days after payroll;
3. Number of accounts not balanced by 20th of the month;
4. Number of times sick leave and vacation reports not forwarded within 30 days;
5. Objectives met, manhours complied with and budget adhered to.

Resources Required: \$ 70,148

Work Hours Required: 7,210

DEBT SERVICE & ACQUISITION COSTS (028)

Description: To provide funds for the following:

1. Local government debt service;
2. Metropolitan Council debt-service;
3. Local government equity in treatment works and/or interceptors acquired by the Commission.

Performance Criteria:

1. Grant all credits for local government debt service assumed by Commission by 12-31-79;
2. Meet October 1, 1979 Metropolitan debt service payment required;
3. Grant all credits for acquisition costs assumed by Commission by 12-31-79.

Resources Required: \$ 17,045,485

Work Hours Required: -0-

OPERATIONS ADMINISTRATION (029)

Description: To manage and oversee operation of all Commission Wastewater Treatment Plants and conveyance and apparatus support systems in a timely and effective manner.

1. To attain 94% compliance with NPDES effluent limitations at the Metropolitan Wastewater Treatment Plant during 1979;
2. To attain an average of 96% compliance with NPDES effluent limitations at wastewater treatment plants other than the Metro Plant during 1979;
3. To attain effluent quality performances at the Metro Plant equal to 93% frequency and 33% severity and at other treatment plants an average equal to 88% frequency and 39% severity;

OPERATIONS ADMINISTRATION (continued)

4. Monitor financial status to assure compliance with 1979 Operating Budget.

Performance Criteria:

1. The NPDES Permit Compliance at the MWWTP in 1979 compared to 94%;
2. The average NPDES Permit compliance at plants other than the Metro Plant in 1979 compared to 96%;
3. The actual frequency and severity rates of effluent quality for the Metro Plant and for the other treatment plants;
4. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 316,264

Work Hours Required: 19,300

QUALITY ASSURANCE (030)

Description: To ensure the most effective, economical, practical and environmentally sound operation of all Commission wastewater treatment plants.

1. To maintain treatment plant NPDES Permit effluent limitation violations to the same number occurring in 1978 under equivalent standards;
2. To reduce treatment plant O & M costs by a rate of \$50,000 per year over those occurring in 1978 for similar conditions;
3. To see that 90% of all treatment plant capital improvements affecting performance provided in 1978 capital budgets or capital outlay budgets are completed or on schedule.

QUALITY ASSURANCE (continued)

Performance Criteria:

1. Number of Plant NPDES Permit effluent violations in 1979 compared with 1978;
2. The documented reduction rate in O & M costs of treatment plants in \$/year compared with 1978;
3. The percentage of projects completed or underway compared to the total number possible.

Resources Required: \$ 204,560

Work Hours Required: 18,740

LAND DISPOSAL FACILITY (031)

Description:

1. To dispose of all excess filter cake from the Metro Plant in compliance with all applicable standards;
2. To manage the environmentally sound disposal of all screenings, grit, and ash;
3. To manage operations within the Operating Budget.

Performance Criteria:

1. The percentage of excess filter cake disposed of properly from the Metro Plant;
2. The percentage of grit, screenings, and ash disposed of properly and effectively;
3. Actual expenditures compared to Operating Budget.

Resources Required: \$ 702,424

Work Hours Required: 15,738

MANAGEMENT INFORMATION SYSTEM (032)

Description:

1. To transfer the NPDES reporting system to the SIRS computer by June 1, 1979;
2. To transfer the total plant Operation C Information System to the SIRS computer by 12/31/79;
3. Manage within the limits of the 1979 Operations Budget.

Performance Criteria:

1. NPDES system operational on SIRS on time;
2. MIS Programs operational on SIRS on time;
3. Quarterly report of percent compliance with 1979 Operations Budget.

Resources Required: \$ 77,550

Work Hours Required: 3,600

MAJOR EMERGENCY REPAIRS (033)

Description:

1. Respond to and provide major emergency repairs of an unforeseeable nature in excess of \$5,000 for operational facilities and interceptor systems at a total cost of \$400,000;
2. Manage within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Complete major emergency repairs in an expeditious manner;
2. Quarterly reports of percent compliance with 1979 Operating Budget.

Resources Required: \$ 400,000

Work Hours Required: 625

INTERCEPTOR SYSTEM ADMINISTRATION (034)

Description:

1. To direct and report in a timely manner, the financial and performance status of 1979 Interceptor Programs;
2. To develop and review plans for new facilities and programs;
3. To manage within the limits of 1979 Operating Budget.

Performance Criteria:

1. Forward status reports by the 15th of each month;
2. Review Engineering Department plans on schedule; detect program deficiencies and include them in the 1980 budget;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 138,443

Work Hours Required: 8,300

INTERCEPTOR SYSTEM MAINTENANCE (035)

Description:

1. To review costs and monitor performance of Interceptor Maint.;
2. To inspect and repair as needed 87 miles of gravity sewer;
3. Manage within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Review maintenance and rental agreements for cost and performance;
2. Complete inspections and prepare reports on time;
3. Quarterly report of percent compliance with 1979 Operating Budget.

INTERCEPTOR SYSTEM MAINTENANCE (continued)

Resources Required: \$ 535,479

Work Hours Required: 5,080

LIFT STATIONS (036)

Description:

1. To continuously keep in good operating order 58 lift stations by means of a first and second echelon maintenance program;
2. To continuously keep in good working order the alarm system for 58 lift stations and 13 treatment plants;
3. To continue a preventive maintenance program for 14 treatment plants;
4. Manage within the limits of the 1979 Operating Budget.

Performance Criteria:

1. All stations in good operating condition and adhere to preventive maintenance schedules;
2. Keep alarm system continuously operational;
3. Keep preventive maintenance on schedule;
4. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 1,243,097

Work Hours Required: 41,660

METER STATIONS (037)

Description:

1. To keep 139 flow meters in good working order through a preventive maintenance and quarterly calibration schedule;
2. To prepare and forward to the Engineering Department monthly metered flow reports by the 20th of the following month;
3. To keep in good working order all meter system computer components by means of a complete preventive maintenance program;
4. Manage within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Keep maintenance and calibration schedules up-to-date;
2. Prepare and submit flow reports on time;
3. Keep computer maintenance schedule up-to-date;
4. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$398,610

Work Hours Required: 21,890

REGULATOR SYSTEM (038)

Description:

1. To keep in good working order 17 instrumented and 120 non-instrumented combined sewer regulator installations through a complete inspection and preventive maintenance program;

REGULATOR SYSTEM (continued)

2. To prepare and submit to Engineering Dept. monthly overflow summaries;
3. Manage within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Keep maintenance schedule current;
2. Submit reports on time;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 255,532

Work Hours Required: 12,260

OPERATIONS, METRO PLANT (039)

Description:

1. Attain 92% compliance with NPDES permit effluent limitations during 1979;
2. Attain effluent quality performance of 75% frequency and 40% severity;
3. Comply with MPCA stack gas quality limitations 98% of the time within the limits of available scrubbing equipment;
4. Submit monthly operations reports by 20th of the following month;
5. Train personnel in management, operation, and safety;
6. Manage operations within limits of 1979 budget;
7. Maintain satisfactory labor relations.

OPERATIONS, METRO PLANT (continued)

Performance Criteria:

1. Actual percentage compliance during 1979, cumulative monthly;
2. Actual frequency and severity of daily violations of monthly average limits;
3. Hours of inadequate control of stack gas quality due to operational or maintenance deficiencies;
4. Dates of submittal of monthly report;
5. Number of individuals and percentage of sub-group of work force getting training in stated areas. Number of staff meetings;
6. Comparison of actual expenditures to pro-rate budgeted amounts;
7. A maximum of 12 grievances to Step 2 procedure, and 4 beyond.

Resources Required: \$ 13,926,767

Work Hours Required: 366,910

MAINTENANCE, METRO PLANT (040)

Description:

1. Provide services to assure that major units of the plant are repaired as needed so that NPDES compliance is never endangered by unavailability for service;
2. Perform preventive maintenance tasks on schedule with no more than 20% slippage on the normal schedule of maintenance.

MAINTENANCE, METRO PLANT (continued)

3. Establish a system of work orders accounting for 95% of productive time of assigned employees;
4. Respond to emergency work orders without delay;
5. Manage maintenance within the limits of the 1979 Budget;
6. Maintain satisfactory labor relations.

Performance Criteria:

1. Hours each month in which a major unit, needed for processing to meet standards, was unavailable due to Maintenance Department work;
2. Actual count of tasks slipped beyond the 20% limit;
3. Actual time accounted for versus payroll time;
4. Number of emergency work orders each month that were initiated more than 24 hours after notice was given to a Maintenance supervisor;
5. Comparison of actual expenditures to pro-rate budgeted amounts;
6. A maximum of 24 grievances to Step 2 procedure, and 6 beyond.

Resources Required: \$ 2,847,800

Work Hours Required: 105,280

SENECA PLANT (041)

Description:

1. To achieve a minimum annual average compliance with NPDES permit effluent limitations of 99%;
2. To attain effluent quality performance equal to 93% frequency and 33% severity;
3. To manage operations within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$2,287,772

Work Hours Required: 91,056

BLUE LAKE PLANT (042)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 99%;
2. To attain effluent quality performance equal to 95% frequency and 25% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

BLUE LAKE PLANT (continued)

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 1,279,675

Work Hours Required: 57,911

CHASKA PLANT (043)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 90%;
2. To attain effluent quality performance equal to 75% frequency and 60% severity until expansion is complete and performance equal to 93% frequency and 33% severity after expanded facility is in full operation;
3. Manage operations within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. Actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 210,839

Work Hours Required: 7,430

ANOKA PLANT (044)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 96%;
2. To attain effluent quality performance equal to 93% frequency and 33% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$185,058

Work Hours Required: 6,840

BAYPORT PLANT (045)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 98%;
2. To attain effluent quality equal to 93% frequency and 33% severity;
3. Manage operations within the limits of the 1979 Operating budget.

BAYPORT PLANT (continued)

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent of compliance with 1979 Operating Budget.

Resources Required: \$ 150,798

Work Hours Required: 4,860

COTTAGE GROVE PLANT (046)

Description:

1. To achieve a minimum annual compliance with NPDES Permit effluent limitations of 94%;
2. To attain effluent quality performance equal to 93% frequency and 33% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 225,202

Work Hours Required: 9,440

HASTINGS PLANT (047)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 95%;
2. To attain effluent quality performance equal to 90% frequency and 33% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 232,138

Work Hours Required: 9,360

STILLWATER PLANT (048)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 99%;
2. To attain effluent quality performance equal to 95% frequency and 33% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

STILLWATER PLANT (continued)

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 298,325

Work Hours Required: 11,660

LONG LAKE PLANT (049)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 85%;
2. To attain effluent quality performance equal to 75% frequency and 33% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly Report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 46,970

Work Hours Required: 2,578

MAPLE PLAIN PLANT (050)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 93%;
2. To attain effluent quality performance equal to 85% frequency and 45% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly Report of percent compliance with the 1979 Operating Budget.

Resources Required: \$ 60,168

Work Hours Required: 3,210

MEDINA PLANT (051)

Description:

1. To operate so that there is no treated wastewater discharge to surfact waters and to attain annual average effluent quality prior to seepage disposal of less than 25 mg/1 BOD and 30 mg/1 TSS;
2. To attain effluent quality performance equal to 85% frequency and 33% severity based on 25 mg/1 BOD and 30 mg/1 TSS;
3. Manage operations within the limits of the 1979 Operating Budget.

MEDINA PLANT (continued)

Performance Criteria:

1. Annual average percentage of effluent quality prior to seepage disposal of less than 25 mg/1 BOD and 30 mg/1 TSS;
2. Actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 15,939

Work Hours Required: 464

ORONO PLANT (052)

Description:

1. To achieve a minimum compliance with NPDES Permit effluent limitations of 96%;
2. To attain effluent quality performance equal to 92% frequency and 45% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent of compliance with 1979 Operating Budget.

Resources Required: \$ 54,684

Work Hours Required: 2,938

ROSEMOUNT PLANT (053)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 98%;
2. To attain effluent quality performance equal to 95% frequency and 20% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 581,616

Work Hours Required: 27,020

SAVAGE PLANT (054)

Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 94%;
2. To attain effluent quality performance equal to 85% frequency and 33% severity until expansion is complete and performance equal to 93% frequency and 33% severity after expanded facility is in full operation;
3. Manage operations within limits of the 1979 Operating Budget.

SAVAGE PLANT (continued)

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 82,045

Work Hours Required: 4,656

SOUTH SAINT PAUL PLANT (055)

Description:

1. To provide efficient pretreatment of wastewater prior to its conveyance on a continuous basis to the metropolitan Wastewater Treatment Plant;
2. To manage operations within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Occurrence of emergency discharge;
2. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 685,371

Work Hours Required: 26,800

EMPIRE PLANT (056)

Description:

1. To achieve a minimum average compliance with NPDES Permit effluent limitations of 98%;
2. To attain effluent quality performance equal to 93% frequency and 66% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

EMPIRE PLANT

(continued)

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 486,476Work Hours Required: 22,554APPLE VALLEY PLANT (057)Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 92%;
2. To attain effluent quality performance equal to 85% frequency and 66% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 168,390Work Hours Required: 6,520FARMINGTON PLANT (058)Description:

1. To achieve a minimum annual average compliance with NPDES Permit effluent limitations of 90%;
2. To attain effluent quality performance equal to 80% frequency and 60% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 85,143Work Hours Required: 3,952LAKEVILLE PLANT (059)Description:

1. To achieve a minimum annual compliance with NPDES Permit effluent limitations of 90%;
2. To attain effluent quality performance equal to 75% frequency and 33% severity;
3. Manage operations within the limits of the 1979 Operating Budget.

LAKEVILLE PLANT (continued)

Performance Criteria:

1. Annual average percentage compliance with NPDES Permit effluent limitations;
2. The actual frequency and severity rates of effluent quality during the calendar year;
3. Quarterly report of percent compliance with 1979 Operating Budget.

Resources Required: \$ 51,192

Work Hours Required: 2,522

Summary of Debt Service

	<u>Proposed 1979</u>	<u>Budget 1978</u>	<u>Actual 1977</u>
Treatment Works	\$ 9,340,485	\$10,174,848	\$ 9,116,140
Interceptor System			
Service Areas:			
1. Minneapolis - Saint Paul	1,386,726	1,488,797	1,587,073
2. North Suburban	599,348	635,279	768,709
3. Anoka	108,132	52,674	19,440
4. Southwest	869,480	929,781	1,073,491
5. Bloomington-Eagan-Burnsville	361,246	565,055	314,494
6. Southeast	<u>408,151</u>	<u>273,916</u>	<u>275,782</u>
	<u>\$13,073,568</u>	<u>\$14,120,350</u>	<u>\$13,155,129</u>

METROPOLITAN COUNCIL SEWER BOND FUND DEBT SERVICE

Estimated Fund Balance - October 1, 1978	\$ 15,249,819
Less - Debt Service Payments November 1, 1978 through October 1, 1979	12,459,746
Add - Interest to be earned November 1, 1978 through October 1, 1979	<u>534,500</u>
Balance	3,324,573
Required Balance - October 1, 1979	<u>14,578,134</u>
Program Budget Requirement	\$ <u><u>11,253,561</u></u>

Apportioned to:

<u>Cost Pool</u>	<u>Capital Improvements</u>	<u>% Of Debt Service</u>	<u>Amount</u>
Treatment Works	\$311,205,881	76.50%	\$ 8,608,974
SA 1	33,075,465	8.13	914,915
SA 2	10,612,382	2.61	293,718
SA 3	3,732,839	.92	103,533
SA 4	27,357,859	6.72	756,239
SA 5	6,939,035	1.71	192,436
SA 6	<u>13,889,842</u>	<u>3.41</u>	<u>383,746</u>
	<u>\$406,813,303</u>	<u>100.00%</u>	<u>\$11,253,561</u>

Local Government Debt Service

Service Area 1 - Minneapolis - St. Paul

	<u>Treatment Works</u>	<u>Interceptors</u>	<u>Total</u>
Birchwood	\$	\$ 753.00	
Dellwood		5,727.60	
Forest Lake Township	2,695.00		
Landfall		1,056.00	
Little Canada		91,303.45	
Mahtomedi		9,020.90	
Oakdale		63,368.00	
Plymouth		8,656.00	
Roseville		84,071.00	
St. Paul		94,274.01	
Shoreview*		64,932.89	
Vadnais Heights		3,130.18	
White Bear Lake		9,997.00	
White Bear Township		7,809.00	
Woodbury		27,712.00	
	<u>\$ 2,695.00</u>	<u>\$ 471,811.03</u>	<u>\$ 474,506.03</u>

Service Area 2 - North Suburban

Shoreview*		39,797.58	
Brooklyn Park		150,405.00	
Circle Pines		3,387.93	
Coon Rapids		61,703.00	
New Brighton		47,063.00	
Spring Lake Park		3,273.00	
	<u>\$ - 0 -</u>	<u>\$ 305,629.51</u>	<u>\$ 305,629.51</u>

*Located in 2 Service Areas

Service Area 3 - Anoka

	<u>Treatment Works</u>	<u>Interceptors</u>	<u>Total</u>
Anoka	\$ 42,430.00	\$	
Champlin		4,598.72	
TOTAL	\$ <u>42,430.00</u>	\$ <u>4,598.72</u>	\$ <u>47,028.72</u>

Service Area 4 - Southwest

Chanhassen	\$ 6,204.00	\$	
Deephaven		24,727.62	
Excelsior	12,280.00		
Greenwood		4,162.24	
Long Lake	10,458.00		
Maple Plain	15,291.00		
Medina	5,552.00		
Minnetrista		25,439.64	
Mound	25,310.56	24,013.32	
Orono	15,610.04	28,690.00	
Prior Lake	10,673.88		
Savage	13,526.00		
Shakopee	18,785.00		
Spring Park	2,904.45	2,790.55	
Tonka Bay	6,076.16	3,417.84	
Victoria	3,406.91		
TOTAL	\$ <u>146,078.00</u>	\$ <u>113,241.21</u>	\$ <u>259,319.21</u>

Service Area 5 - Bloomington-Eagan-Burnsville

Bloomington	\$	\$ 86,434.16	
Burnsville	24,332.00	26,672.00	
Eagan	<u>4,738.94</u>	<u>55,704.00</u>	
TOTAL	\$ <u>29,070.94</u>	\$ <u>168,810.16</u>	\$ <u>197,881.10</u>

Service Area 6 - Southeast

	<u>Treatment Works</u>	<u>Interceptors</u>	<u>Total</u>
Apple Valley	• \$ 14,333.06	\$ 24,404.94	
Cottage Grove	39,016.29		
Farmington	6,312.00		
Hastings	45,086.00		
Inver Grove Heights	14,351.00		
Lakeville	10,831.00		
Newport	5,523.00		
Oak Park Heights	12,813.00		
St. Paul Park	11,382.76		
South St. Paul	281,300.00		
Stillwater	70,289.00		
TOTAL	<u>\$511,237.11</u>	\$ <u>24,404.94</u>	<u>\$535,642.05</u>
GRAND TOTAL	<u><u>\$731,511.05</u></u>	<u><u>\$1,088,495.57</u></u>	<u><u>\$1,820,006.62</u></u>

Summary of Acquisition Costs

Treatment Works	\$ 579,985
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Interceptor System

Service Areas:

1. Minneapolis - St. Paul	2,963,013
2. North Suburban	137,070
3. Anoka	489
4. Southwest	73,499
5. Bloomington-Eagan-Burnsville	213,931
6. Southeast	<u>3,930</u>

TOTAL	\$ <u>3,971,917</u>
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Local Government Current Value Credit

Anoka	\$ 15,901	Excelsior	\$ 3,521
Apple Valley	6,083	Falcon Heights	2,204
Arden Hills	11,924	Farmington	10,999
Bayport	7,673	Forest Lake	8,807
Birchwood	257	Forest Lake Township	53
Blaine	7,352	Fridley	26,965
Bloomington	200,659	Golden Valley	131,187
Brooklyn Center	14,581	Greenwood	1,401
Brooklyn Park	60,157	Hastings	14,284
Burnsville	20,280	Hilltop	42
Champlin	1,025	Hopkins	27,454
Chanhassen	1,858	Inver Grove Heights	1,435
Chaska	7,075	Lakeville	8,255
Circle Pines	1,006	Landfall	354
Columbia Heights	22,272	Lauderdale	1,222
Coon Rapids	25,209	Lexington	586
Cottage Grove	5,537	Little Canada	2,345
Crystal	42,343	Long Lake	1,028
Deephaven	11,620	Mahtomedi	2,870
Eagan	27,418	Maple Plain	6,818
Eden Prairie	3,494	Maplewood	23,902
Edina	61,020	Medicine Lake	1,408

Local Government Current Value Credit (continued)

Medina	\$ 38	St. Louis Park	\$ 78,231
Mendota Heights	3,926	St. Paul	1,019,634
Minneapolis	1,426,356	St. Paul Park	7,394
Minnetonka	16,639	Savage	1,872
Minnetrista	543	Shakopee	9,064
Mound	10,344	Shoreview	20,680
Moundsview	3,561	Shorewood	391
New Brighton	2,192	South St. Paul	44,632
New Hope	46,523	Spring Lake Park	3,183
Newport	595	Spring Park	2,926
North St. Paul	30,968	Stillwater	10,511
Oakdale	1,150	Tonka Bay	1,684
Oak Park Heights	39	Vadnais Heights	195
Orono	33,988	Victoria	2,535
Osseo	14,928	Waconia	15,245
Plymouth	217	Wayzata	22,674
Prior Lake	1,901	West St. Paul	7,376
Richfield	133,042	White Bear Lake	41,047
Robbinsdale	5,150	White Bear Township	2,173
Rosemount	4,372	Willernie	1,053
Roseville	99,636	Woodbury	2,647
St. Anthony	8,778		
		TOTAL	<u>\$3,971,917</u>

Allocation of Current Use Costs

<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Andover	95	36,698.26	9,713.78	46,412.04
Anoka	650	250,947.16	84,232.74	335,179.90
Apple Valley	560	216,217.40	29,052.56	245,269.96
Arden Hills	320	123,522.67	26,475.12	149,997.79
Bayport	185	71,428.02	- 0 -	71,428.02
Birchwood	27	10,440.02	2,237.41	12,677.43
Blaine	710	274,112.05	72,598.60	346,710.65
Bloomington	2,690	1,038,518.41	269,442.51	1,307,960.92
Brooklyn Center	1,130	436,266.32	93,495.58	529,761.90
Brooklyn Park	1,170	451,697.86	119,634.15	571,332.01
Burnsville	990	382,203.18	99,162.88	481,366.06
Centerville	16	6,186.68	1,635.76	7,822.44
Champlin	85	32,831.58	11,015.02	43,846.60
Chanhassen	175	67,561.34	33,299.00	100,860.34
Chaska	350	135,122.69	- 0 -	135,122.69
Circle Pines	98	37,858.26	10,020.55	47,878.81
Columbia Heights	740	285,676.93	61,225.84	346,902.77
Coon Rapids	900	347,473.41	92,026.15	439,499.56
Cottage Grove	390	150,554.24	- 0 -	150,554.24
Crystal	850	328,175.19	70,328.43	398,503.62
Deephaven	125	48,263.13	23,785.86	72,048.99
Eagan	750	289,543.60	75,123.52	364,667.12
Eden Prairie	400	154,420.91	76,112.00	230,532.91
Edina	2,560	988,357.10	211,812.28	1,200,169.38
Empire Township	14	5,413.34	667.34	6,080.68
Excelsior	110	42,463.11	20,931.14	63,394.25
Falcon Heights	410	158,287.59	33,918.06	192,205.65
Farmington	155	59,828.00	7,387.13	67,215.13
Forest Lake	230	88,792.90	19,032.18	107,825.08
Forest Lake Township	90	34,764.92	7,448.60	42,213.52
Fridley	1,220	470,996.08	110,697.93	581,694.01
Gem Lake	15	5,800.01	1,240.49	7,040.50
Golden Valley	1,260	486,462.77	104,252.15	590,714.92
Greenwood	23	8,858.20	4,376.37	13,234.57
Hastings	530	204,617.37	- 0 -	204,617.37
Hilltop	22	8,471.53	1,818.25	10,289.78

<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Hopkins	750	289,578.76	62,918.29	352,497.05
Hugo	40	15,431.54	3,307.98	18,739.52
Inver Grove Heights	340	131,256.02	16,204.72	147,460.74
Lake Elmo	1	386.67	84.97	471.64
Laketown Township	16	6,186.68	3,045.04	9,231.72
Lakeville	365	140,922.70	17,395.86	158,318.56
Landfall	22	8,506.68	1,818.25	10,324.93
Lauderdale	52	20,071.56	4,304.90	24,376.46
Lexington	40	15,431.54	4,089.95	19,521.49
Lilydale	18	6,960.02	1,489.72	8,449.74
Lino Lakes	17	6,573.35	1,738.76	8,312.11
Little Canada	220	84,926.23	18,199.52	103,125.75
Long Lake	65	25,098.23	12,367.85	37,466.08
Mahtomedi	105	40,529.77	8,689.09	49,218.86
Maple Grove	430	166,020.94	43,968.37	209,989.31
Maple Plain	70	27,031.57	- 0 -	27,031.57
Maplewood	1,540	594,553.90	127,419.31	721,973.21
Medicine Lake	8	3,058.18	662.72	3,720.90
Medina	47	18,173.37	- 0 -	18,173.37
Mendota Heights	320	123,522.67	26,475.12	149,997.79
Minneapolis	24,200	9,342,974.79	2,002,292.79	11,345,267.58
Minnetonka	1,330	513,494.35	253,075.16	766,569.51
Minnetonka Beach	20	7,698.20	3,805.42	11,503.62
Minnetrista	50	19,298.22	9,514.86	28,813.08
Mound	435	167,954.27	82,772.15	250,726.42
Mounds View	400	154,420.91	40,900.08	195,320.99
New Brighton	690	266,413.86	70,553.62	336,967.48
New Hope	890	343,606.74	73,636.41	417,243.15
Newport	90	34,729.76	4,289.49	39,019.25
North Oaks	13	5,026.68	1,076.22	6,102.90
North St. Paul	435	167,954.27	35,991.21	203,945.48
Oakdale	490	189,150.67	40,545.34	229,696.01
Oak Park Heights	90	34,764.92	4,289.49	39,054.41
Orono	140	54,027.99	26,638.85	80,666.84
Osseo	114	44,044.93	11,656.86	55,701.79
Plymouth	1,300	501,894.33	107,560.13	609,454.46
Prior Lake	240	92,624.42	45,667.72	138,292.14
Richfield	1,040	401,536.55	86,046.97	487,583.52
Robbinsdale	480	185,319.15	39,718.34	225,037.49

<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Rosemount	110	42,463.12	5,242.51	47,705.63
Roseville	1,620	625,452.14	134,035.25	759,487.39
St. Anthony	375	144,754.23	31,029.25	175,783.48
St. Bonifacius	21	8,120.01	3,995.74	12,115.75
St. Louis Park	2,250	868,665.95	186,164.16	1,054,830.11
St. Paul	21,300	8,223,361.68	1,762,345.73	9,985,707.41
St. Paul Park	134	51,743.13	6,386.58	58,129.71
Savage	160	61,761.33	- 0 -	61,761.33
Shakopee	700	270,245.38	133,197.73	403,443.11
Shoreview	550	212,350.73	47,267.03	259,617.76
Shorewood	170	65,628.01	32,347.42	97,975.43
South St. Paul	3,100	1,196,841.14	147,747.08	1,344,588.22
Spring Park	82	31,636.43	15,603.20	47,239.63
Spring Lake Park	175	67,561.35	17,893.68	85,455.03
Stillwater	720	277,978.73	- 0 -	277,978.73
Stillwater Township	2	773.34	- 0 -	773.34
Tonka Bay	60	23,164.89	11,417.15	34,582.04
Vadnais Heights	150	57,894.66	12,410.57	70,305.23
Victoria	37	14,306.69	7,040.78	21,347.47
Wayzata	220	84,926.23	41,861.42	126,787.65
West St. Paul	815	314,641.84	67,433.95	382,075.79
White Bear Lake	700	270,245.38	57,912.20	328,157.58
White Bear Township	105	40,564.93	8,689.10	49,254.03
Willernie	15	5,764.86	1,240.49	7,005.35
Woodbury	380	146,722.71	31,442.74	178,165.45
Waconia	140	54,027.98	26,639.72	80,667.70
Total	<u>91,049</u>	<u>\$35,151,584.49</u>	<u>\$7,867,754.39</u>	<u>\$43,019,338.88</u>

Construction Fund – Revenues & Expenditures

		<u>Total Program</u>
FUND BALANCE - April 30, 1978		\$ 27,865,110
REVENUES:		
Certified Federal Grants	\$ 95,751,351	
Certified State Grants	21,562,781	
Anticipated Grants	64,218,422	
Investment Income	4,005,000	
Miscellaneous	<u>10,000</u>	
Total Estimated Revenues		185,547,554
EXPENDITURES:		
Previously Authorized Projects		
Encumbered Balance	\$124,535,106	
Unencumbered Balance	72,533,889	
Additional Requests for 1979	<u>10,258,176</u>	
Total Estimated Expenditures		207,327,171
ESTIMATED FUND BALANCE		\$ <u>6,085,493</u>

**Previously
Funded**

Project 71-03 Lakeville-Farmington T.P. & Interceptor

Description: This project consists of a new wastewater treatment plant and interceptors. Plants in Lakeville, Farmington and Apple Valley are nearing capacity, and expansion of these facilities is not feasible. The new plant will treat sewage from the three communities which will be conveyed by the Lakeville-Farmington Interceptor and result in the phasing out of the Lakeville and Farmington treatment plants. The authorized funds for this project include planning, detail engineering and construction.

Status: Construction commenced June 1977. Completion is anticipated in 1979 and will be put into operation in 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 7,125,472
During 1978	8,961,500
During 1979	3,593,028

Project 71-09 Metro Compressors

Description: This project consists of providing supplementary aeration compressor capacity as required to accomplish the treatment of the wastewater at the Metro Treatment Plant.

Based upon the successful experience at MWWTP with the large size multi-stage compressors, aeration requirements will be met with two units of 100,000 cubic feet per minute capacity or three units of 65,000 cubic feet per minute capacity, depending upon the economics of the application and other factors.

Status: This project was awarded in the fall of 1976. The equipment will be delivered and installed in 1979 in the Compressor Building.

Annual Expenditures:

Prior to 12/31/77	\$ 1,297,757
During 1978	1,412,498
During 1979	172,115
During 1980	332,630

Project 71-13 Orono-Long Lake Interceptor

Description: The Orono-Long Lake Interceptor will phase out the Orono and the Long Lake Sewage Treatment Plants and carry the sewage from these locations to the Wayzata Interceptor with ultimate destination of the sewage being the Blue Lake Plant.

Status: Construction is scheduled to commence late in 1978 with completion late in 1979, contingent upon Federal and State grants.

Annual Expenditures:

Prior to 12/31/77	\$ 404,000
During 1978	1,342,120
During 1979	2,512,480

Project 71-29 MWWTP Warehouse & Machine Shop

Description: The project will consist of the construction of a central warehouse distribution center and maintenance shop to serve all treatment plants, located at Metropolitan Wastewater Treatment Plant. The facility will be constructed in conjunction with the existing vehicle maintenance garages and warehouse at the north end of the Metro Plant. The eastern portion of the new structure would house the controlled access warehouse with truck dock facilities. An addition to the south of the existing warehouse, as well as the existing warehouse space, will be used for the new maintenance shop. The existing vehicle maintenance garages will be unaffected by the new construction. The warehouse will be provided with shelving, bins, and pallets for storage, a loading and unloading dock at the eastern end of the warehouse, an office for records and inventory control, a freight elevator providing access to the plant tunnel system. The maintenance shop will consist principally of the machine shop, electric shop, weld area, and sand blast areas.

Status: This project has been designed and is scheduled for bids in late 1978. Completion is scheduled for fall of 1980.

Annual Expenditures:

Prior to 12/31/77	\$ 155,461
During 1978	240,000
During 1979	2,136,823
During 1980	667,716

Project 72-02 Metro Compressor Building

Description: The project consists of an addition to the Compressor Building at the Metropolitan Wastewater Treatment Plant to provide the space for the two new compressors, as well as room for one additional compressor. The project also includes the necessary intake and discharge silencers for the compressors, flow metering tubes, check valves and butterfly valves; intake and discharge piping, air filtering system, and electrical and control work for the complete installation and operation of the two compressors.

Status: Bids are scheduled for October 1978 with estimated completion and operational date December, 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 143,076
During 1978	1,166,499
During 1979	12,290,425

Project 72-04 Cottage Grove Treatment Plant

Description: The Cottage Grove Plant Expansion consists of an expansion of the existing Cottage Grove Plant on an interim basis to a capacity of 1.8 mpd and to meet anticipated secondary treatment standards of 25 MG/1 BOD and 30 MG/1 SS.

Status: The construction will be completed during 1978.

Annual Expenditures:

Prior to 12/31/77	\$ 54,654
During 1978	1,245,396

Project 72-07 Maintenance & Dispatch Building

Description: As part of its responsibilities for operating and maintaining the Metropolitan Disposal System, the Metropolitan Waste Control Commission owns approximately 130 to 140 metering stations and about 50 sewage lift stations spread throughout the six service areas presently comprising the Metropolitan Disposal System.

The proposed project consists of a maintenance and dispatch building to be constructed at the Seneca Plant, in order to properly service and maintain the flow metering stations, from a centralized location. The location of the facilities at the Seneca Plant is compatible with the presence of the metering station data collection center. In addition, the Seneca Plant location provides a satisfactory point from which to dispatch service vehicles and personnel to the facilities to be maintained and serviced.

Project 72-07 Maintenance & Dispatch Building (continued)

Status: It is anticipated that Step I Planning will be completed in 1978; Step II, Plans and Specifications, will be completed in 1979; with construction in 1980-1981.

Annual Expenditures:

Prior to 12/31/77	\$ 4,343
During 1978	55,000
During 1979	60,657

Project 73-06 Chaska Treatment Plant

Description: The project consists of additions to the Chaska Wastewater Treatment Plant to augment the capacity of the facility from .75 mgd to 1.4 mgd to meet increasing wastewater flows and to upgrade the treatment process in compliance with applicable effluent standards.

Status: Construction will be completed late in 1978.

Annual Expenditures:

Prior to 12/31/77	\$ 12,000
During 1978	813,000

Project 74-01 (400) Sludge Thickening Facilities, MWWTP

Description: This project consists of sixteen circular flotation sludge thickening tanks each 55 ft. in diameter; two thickener galleries; one main service area; return liquor treatment facilities; pipe equipment tunnels; interconnecting piping systems and service for other projects.

Status: The project is over 88% complete as of March, 1978 with the completion of thickeners scheduled for 1978. The completion of the return liquor facility is scheduled for 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 23,470,635
During 1978	4,883,917
During 1979	1,004,644

Project 74-01 (401) Sludge Thermal Conditioning & Dewatering
Equipment Systems, MWWTP

Description: Equipment includes eight or ten thermal conditioning units, four circular decant tank mechanisms and eight sludge dewatering presses. Project includes all piping, controls and odor control equipment.

Status: Project awarded in 1977, estimated completion in 1979 and will be operational in 1979-1980.

Annual Expenditures:

Prior to 12/31/77	\$ 100,284
During 1978	12,009,275
During 1979	4,789,208
During 1980	1,611,980

Project 74-01 (402) Sludge Conditioning & Storage Facilities, MWWTP

Description: This project consists of eight concrete storage tanks 135 ft. by 30 ft.; a 275 ft. by 103 ft three story building for conditioning equipment; and four circular 60 ft. diameter decant tanks.

Status: Project awarded in February, 1977; estimated completion June 1979 and will be operational in 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 6,245,679
During 1978	9,638,301
During 1979	1,059,492
During 1980	1,019,208

Project 74-01 (403) Distributed Digital Acquisition & Control System
for Sludge Processing, MWWTP

Description: Six process computer subsystems are included in the project along with one central computer in addition to a building to house the computer and peripheral equipment (see new location 409).

Status: Awarded in February 1978; estimated completion in 1982; Operational in 1982.

Annual Expenditures:

Prior to 12/31/77	\$ 24,410
During 1978	2,691,052
During 1979	2,359,973
During 1980	2,200,000
During 1981	250,000
During 1982	96,165

Project 74-01 (404) Roll Type Continuous Presses & Accessories for
Primary Sludge Dewatering, MWWTP

Description: Equipment consisting of four twin roll variable nip continuous discharge sludge presses. Units would replace four existing vacuum filters to increase capacity.

Status: Contract awarded in 1977; Estimate completion December 1980; will be operational upon completion and coordination with Project 74-01 (406).

Annual Expenditures:

Prior to 12/31/77	\$ 2,014,944
During 1978	1,057,839
During 1979	83,103
During 1980	923,994

Project 74-01 (406) Sludge Dewatering Building, MWWTP

Description: This project consists of a building to house plate type presses and associated equipment for dewatering sludge such as conveyors, pumps and compressors. The building is designed to become a part of the sludge processing complex.

Status: Project awarded December 1977; estimated completion date approximately 1980.

Annual Expenditures:

Prior to 12/31/77	\$ 15,448
During 1978	2,720,291
During 1979	4,044,169
During 1980	2,209,425

Project 74-01 (407) Sludge Processing Equipment, MWWTP

Description: This project consists of two sludge incinerators. This contract will be for the incinerators furnished and installed in the sludge processing building.

Status: Scheduled for bids late in 1978. Completion date and operational date will depend on completion of Project 74-01 (408) currently estimated to be 1982.

Annual Expenditures:

Prior to 12/31/77	\$ 14,698
During 1978	1,012,983
During 1979	6,877,780
During 1980	3,000,000
After 1981	295,320

Project 74-01 (408) Sludge Processing Building, MWWTP

Description: This project consists of a building complex to house sludge incinerators, waste heat recovery facilities, sludge drying facilities and storage and loadout area. Equipment included in the sludge processing building includes rotary sludge dryers, gas cleaning systems, waste heat boilers, and incinerator modifications.

Status: Project awarded December 1977. Estimated completion and operational date to be January, 1982.

Annual Expenditures:

Prior to 12/31/77	\$ 53,957
During 1978	9,219,395
During 1979	27,300,790
During 1980	25,800,000
After 1981	8,005,858

Project 74-07 Blue Lake Sludge

Description: The project consists of on-site solids processing facilities and an ultimate disposal site for the existing Blue Lake Wastewater Treatment Plant, Phase II. On-site processing facilities include gravity thickeners, anaerobic digesters, dewatering units, waste liquor treatment system, odor control system, and related support structures. Ultimate disposal will be to agricultural land for fertilization and soil conditioning. The land spreading site will have sludge storage facilities and an equipment storage area.

Status: The plans and specifications have been submitted to MPCA for approval, which is expected upon resolvment for the use of a land application site.

Annual Expenditures:

Prior to 12/31/77	\$ 952,000
During 1978	1,616,018
During 1979	7,207,918
During 1980	5,974,457

Project 74-09 Apple Valley Interceptor

Description: The proposed project consists of the elimination of the Apple Valley Plant, completely, with the construction of a gravity interceptor southward about 3.5 miles to a connection with the proposed Lakeville-Farmington Interceptor. Treatment of the wastewater would then be provided at the proposed new Lakeville-Farmington Treatment Plant.

Project 74-09 Apple Valley Interceptor (continued)

Status: Bids will be received in 1978 with completion anticipated in 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 159,000
During 1978	901,700
During 1979	2,427,300

Project 74-10 Metro Disposal System Improvements

Description: Implementation of major improvements to the Metropolitan Disposal System have been delayed beyond original scheduling by reduced Federal funds, the Federal Water Pollution Control Act Amendments of 1972, and the uncertainty of applicable water quality standards. As a result of these factors, as well as the enactment of the OSHA requirements, it is necessary to provide improvements not originally planned in the previously mentioned improvements projects. The project consists of numerous improvements to the interceptor system and the waste treatment plants to aid in the future effective operation of the Metropolitan Disposal System.

Status: The engineering and construction is an on-going process and is presently about 40% completed. The design and construction of the improvements will be completed in 1980.

Annual Expenditures:

Prior to 12/31/77	\$ 636,071
During 1978	220,709
During 1979	585,300
During 1980	253,920

Project 75-01 Residual Solids Management

Description: The objective of the study is to develop a technically, economically, and environmentally acceptable system for reuse or disposal of the residual solids (ash, grit, screenings, and sludge) from all of the Commission's wastewater treatment plants. Immediate ash and sludge disposal needs will be analyzed. Alternatives for a long-range system will be analyzed, including solids processing, transport, and refuse/disposal.

Status: Initiated study spring of 1977 with completion in 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 132,099
During 1978	819,427
During 1979	184,759

Project 75-05 Seneca Auxiliary Fuel Research (Co-incineration)

Description: The project is an in-plant study supported by a grant of 95% participation by the United States EPA. Purpose is to determine the feasibility in full scale tests of adding coal of other combustible matter such as solid waste to eliminate the major share of need for gas or oil fuels in the sludge incineration process. The grant is for a two year study period. Construction of temporary storage and conveying facilities and purchase of items of instrumentation and control are required.

Status: Construction and installation of the equipment is scheduled during 1978.

Annual Expenditures:

Prior to 12/31/77	\$	226,261
During 1978		153,739

Project 75-10 Engineering Services - NPDES Permits

Description: The Minnesota Pollution Control Agency in accordance with the terms of PL 92-500, Water Pollution Control Act amendments, 1972 is issuing NPDES permits for each of the treatment plants under the jurisdiction of the Metropolitan Waste Control Commission. Those plants which remain as permanent plants will require updating, revision or replacement in order to accomplish objectives. Each plant has its individual problems and requirements, and it will be necessary to determine the extent of revision before proceeding with any improvements. This item will be accomplished by retaining the services of a qualified engineer to make a detailed analysis of each plant and recommend procedures for complying with the requirements of the NPDES permits.

Status: Analysis is being accomplished in-house.

Annual Expenditures:

Prior to 12/31/77	\$	40,297
During 1978		40,000
During 1979		39,703

Project 76-05 Metro System Emergency & Power Factor Correction

Description: An adequate number of emergency electric generators of various sizes will be acquired so they can be used throughout the Metropolitan Disposal System wherever power outages occur.

The system includes 19 wastewater treatment plants and 50 major sewage pumping stations which require a continuous supply of electricity. Many of these locations do not have emergency electric generating facilities. Portable emergency electric generating facilities are needed to prevent major pollution problems when there is a public power failure. This project (purchase of generators) will supplement the project in the 1974 Capital Budget which provided for the telemetry and switch gear at many of the sites.

Status: The plans and specifications will be completed in 1978 and bids will be received for the generators. The capacitors for power factor correction will be installed in late 1978.

Annual Expenditures:

Prior to 12/31/77	\$ 149,026
During 1977	1,109,974
During 1978	241,000

Project 76-07 MWWTP Instrumentation

Description: Conduct the engineering to provide controls to alleviate instrumentation and control problems with the existing and expanded facility and meet standards. It is planned to initiate a project which consists of the furnishing and installation of a highly instrumented and direct digital control system for the Metro Treatment Plant. The control system will tie the existing portions of the Plant into the new single centralized system provided under the sludge disposal project and allow the utmost in efficient operation.

Status: Coordinate the preparation of the plans and specifications during 1979.

Annual Expenditures:

During 1979	\$ 568,000
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Project 76-10 Industrial Waste Studies

Description: To comply with industrial cost recovery provisions of the Act, Metropolitan Waste Control Commission efforts are necessary in addressing problems and design criteria required for the industrial contributors.

Status: To be completed in 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 98,181
During 1978	108,613
During 1979	48,613

Project 76-13 Environmental Program

Description: To establish a base line inventory of environmental characteristics of the Metropolitan Area as a basis for project planning and preparation of environmental assessments. The study will provide a framework by which to evaluate the cumulative impacts of the facilities planned in the program. Emphasis is on water resources, community growth patterns, land use trends and questions of reserve capacity.

Status: The study will be initiated in 1977 and completed in 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 93,680
During 1978	404,461
During 1979	55,591

Project 76-17 Facilities Planning to Comply with Air Quality Standards

Description: To obtain sufficient data on particulate and gas emissions from sewage incinerators to be used for future design of Systems and Optimization of improvements and to consider Ambient Air Quality in the evaluation of future facility design.

Status: The study will be completed in 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 49,224
During 1978	150,000
During 1979	36,752

Project 76-18 Water Quality Assessment Program

Description: To compile and evaluate existing Metro lake water quality data with respect to recreation-aesthetics usefulness, and field sample other lakes probably affected by urban groundwater degradation. Purpose: to locate needs for wastewater management facilities to 1990 to enhance or preserve multiple lake resource use, and to set up an early warning system to detect water quality problems.

Status: To be completed in 1978.

Annual Expenditures:

Prior to 12/31/77	\$ 11,873
During 1978	23,112

Project 76-19 Management Information & Process Control System

Description: The study generally reviews current potential for application of data processing, data acquisition and process control as part of the Metropolitan Disposal System. The additional study will be undertaken to analyze needs outlined in the Management Information/Process Control System Study and formulate an implementation plan for the complete automation of treatment plant process control.

Status: To be completed in 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 263
During 1978	7,497
During 1979	15,000

Project 76-21 CAB Study

Description: This program constitutes an area of study for purposes of developing alternative solutions for transmission and treatment of sewage within the north area, Champlin, Anoka, Brooklyn Park and also the Blaine-Ham Lake area.

Status: To be completed by 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 259
During 1978	126,394
During 1979	16,831

Project 76-25 Southeast Area Study

Description: This program constitutes an area of study for purposes of developing alternative solutions for transmission and treatment of sewage within the Dakota and Washington County area.

Status: To be completed in 1979.

Annual Expenditures:

During 1978	\$ 325,000
During 1979	279,477

Project 76-26 Southwest Suburban Area Study

Description: This program constitutes an area of study for purposes of developing alternative solutions for transmission and treatment of sewage within the Southwest area.

Status: Study to be done by 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 1,308
During 1978	356,000
During 1979	234,674

Project 76-28 MWWTP Tertiary Treatment Facilities

Description: This program constitutes an area of study for purposes of developing alternative solutions for transmission and treatment of sewage within the Metro area. Study will include planning for the digital control system of the existing plant at MWWTP. It will also include a study of an alternate power source and access road above the higher river levels at MWWTP.

Status: To be completed by 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 1,559
During 1978	350,000
During 1979	390,454

Project 76-53 Systemwide Overview

Description: To evaluate the capacities and improvement needs of the existing wastewater treatment plants and interceptor system; to explain the interrelationships among systemwide studies and between systemwide studies and area/plant studies; to develop a detailed plan of study for the second segment of 201 facilities planning; and to inform the public of the intent of the facilities planning program and obtain public input to the plan of study.

Status: Completed in 1977.

Annual Expenditures:

Prior to 12/31/77	\$ 58,945
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Project 76-54 Areawide Planning Projections

Description: To prepare planning basis for estimating future wastewater flows and service needs. Study requirements include projections of population and industrial growth factors to be considered in facilities planning and design.

Status: Completed in 1978.

Annual Expenditures:

Prior to 12/31/77	\$ 257,415
During 1978	54,925

Project 76-55 Combined Sewer Study

Description: The study will determine the environmental impact of the combined sewer overflow on the Mississippi River and will formulate an abatement program leading towards the reduction or elimination of combined sewer overflows. The study will include an assessment of combined sewer overflows, general planning of the abatement program and preliminary engineering of the required abatement facilities.

Status: To be completed in 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 856,267
During 1978	839,184
During 1979	1,212,149

Project 76-56 Alternative Waste Management Systems

Description: Wastewater Management and Facilities Planning required by the "201" process directs evaluation of alternative systems leading toward the selection of a plan. This element is designed to investigate a principle alternative dealing with onsite disposal feasibility related to hydrological, geological, physiographical and other factors which influence the suitability of this method of sewage disposal. This element will address the feasibility of onsite disposal and will be incorporated into segment two of the contemplated 201 grant application. During that time the results of this study will be included amongst the many alternatives then under consideration.

Status: To be completed in 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 24,770
During 1978	119,206
During 1979	119,206

Project 77-01 Riverview Siphon System

Description: The Riverview Siphon System serves the entire City of West St. Paul and a portion of the City of St. Paul's west side. The project involves replacing the existing river crossing which has been plagued with problems for some time. The alternatives, which have been analyzed, include converting the river crossing to a forcemain system using the Riverview Pump Station; diverting flow directly to the South St. Paul river crossing; and replacing the existing three pipes with three new pipes.

Status: We anticipate this improvement will be accomplished in 1979 and operational in 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 40,514
During 1978	1,100,000
During 1979	1,059,486

Project 77-02 Metro Interceptor Improvements

Description: This project consists of corrective measures for the elimination of restrictions, structural deficiencies, equipment replacement and to achieve conformance with codes in the Metropolitan Disposal System.

Status: Planning has started on the improvements and detailed plans will be conducted in 1978 and 1979.

Annual Expenditures:

During 1978	\$ 50,000
During 1979	345,000

Project 77-03 Matching Funds by the MWCC for an EPA 208 Program

Description: The 208 Program will produce a 20 year plan, staged in five-year interval to provide the Metropolitan Area of the Twin Cities with an adequate wastewater handling plan. The plan will deal with the location and general sizing of trunk line interceptors and wastewater treatment plants plus the handling of plant residuals. An appropriate management and financial program will also be prepared.

In addition to the 20 year plan, the current 208 grant will allow for a substantial amount of "verification" work on a river load allocation model applicable to the Mississippi River below downtown St. Paul.

Status: This work is being conducted by the Metro Council staff. It appears the work will be completed in 1978.

Annual Expenditures:

Prior to 12/31/77	\$ 141,601
During 1978	158,399

Project 77-04 Savage Plant Expansion

Description: The proposed project is to consist of an expansion of the existing wastewater treatment plant through the addition of a new biological unit and the modification of raw and intermediate pumping stations, chlorination facilities and piping systems. The proposed plant expansion will allow the design capacity to increase from 0.36 mgd to 0.86 mgd and thus fulfill Metropolitan Council policy objectives by enabling urban expansion in Savage to continue.

Status: The above described project was designed in 1977 and will be constructed by 1979.

Annual Expenditures:

Prior to 12/31/77	\$ 33,628
During 1978	446,372
During 1979	200,000

Project 77-05 Beltline Regulator/Interceptor Improvements

Description: The project consists of replacement of the Lower Beltline Regulator located near the intersection of Warner Road and TH No. 61 in St. Paul and replacement of the sanitary interceptor from that structure to the MWCC joint interceptor.

Status: Plans and specifications will be completed in 1979 and construction anticipated in 1980.

Annual Expenditures:

During 1979	\$ 125,000
During 1980	1,692,400

Project 77-06 Seneca Sludge Dewatering

Description: The dewatering improvement will consist of an additional vacuum filter unit. The unit will be similar to the existing vacuum filters and will consist of a 14 foot long, 12 foot diameter filter and associated appurtenances. A dewatering capacity of 4-5 wet tons/hour will be provided and will result in an adequate match between the dewatering and incineration capacity. In addition to the vacuum filter, there will also be modifications to the sludge feed system, chemical conditioning feed system, chemical conditioning tank, chemical storage facilities, dewatered sludge conveyance system, structural modifications and miscellaneous piping.

Status: It is anticipated that the furnishing and installing of the above described equipment will be accomplished in 1979.

Annual Expenditures:

During 1978	\$ 390,000
During 1979	210,000

Project 77-07 Anoka Interceptor

Description: The upper segment (Anoka Interceptor) to alleviate a shortage of sewer capacity in the west side where service cannot be provided for development in an industrial area. The City of Anoka has documented their problems on the west side through submission of a report on their system.

Status: The plans and specifications will be prepared during 1978 with construction during 1979-1980.

Annual Expenditures:

During 1978	\$ 1,500,000
During 1979	1,723,000
During 1980	1,000,000

Project 78-01 Future System Configuration/Central Cities and Contiguous Communities Study

Description: The purpose is that of determining the most cost effective solution on a regional basis, including an evaluation of non-monetary factors of each alternative.

The program consists of two parts:

1. An analysis of the cost estimates and environmental impediments resulting from financial and environmental study outputs attributable to seven particular study areas, e.g., "Southwest Suburban Area Study, 76-26". This part will cost approximately \$422,341.

Project 78-01 Future System Configuration/Central Cities and
Contiguous Communities Study (continued)

2. The second part of this program is that of coordinating and supplementing the work assigned to and within the capability of the "208" planning agency in conformance with federal guidelines at an approximate cost of \$6,541.

Status: Studies will be initiated in 1978 and completed by 1979.

Annual Expenditures:

During 1978	\$ 140,000
During 1979	288,882

Project 78-02 MWWTP F & I No. 1 Air Pollution Control Equipment

Description: This project consists of the installation of impingement type scrubbers and appurtenant equipment for each of the four incinerators in Filtration and Incineration Building No. 1 at the Metropolitan Wastewater Treatment Plant.

On December 7, 1977 the U.S. Environmental Protection Agency (EPA) issued a Notice of Violation in which they alleged that the incinerator operations of F & I No. 1 did not comply with Minnesota Air Pollution Control Regulations APC-7 and APC-11. The effect of installing the proposed air pollution equipment will be to bring the incinerator operation of F & I No. 1 in compliance with the state standards as set forth by the Minnesota Pollution Control Agency (MPCA).

Status: Bids have been received for purchase of the four scrubbers and induced draft fans and contracts are in the process of being executed. Bids will be received on June 22, 1978 for the installation of the scrubber, fans and other appurtenant equipment.

Annual Expenditures:

During 1978	\$ 674,700
During 1979	563,000

Project 78-03 Interim Sludge Disposal

Description: The Minnesota Pollution Control Agency has initiated proceedings to require the MWCC to implement an "interim" sewage sludge disposal program to overcome existing sludge disposal deficiencies until the Metro Plant expansion is finished. Based on a report by CED/CH2M Hill, the Metropolitan Council amended its Waste Management Policy Plan to enable the MWCC to develop a detailed program. This was developed, and the Development Program amendment and Capital Budget request was forwarded to the Metropolitan Council in June, 1978.

Status: The bidding will be advertised in July and project completed by 11-1-78.

Annual Expenditures:

During 1978	\$ 750,000
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Project 78-04 Bloomington Interceptor Relocation

Description: The project consists of two segments: (1) the relocation of 4600 feet of interceptor from the existing lift station and along and within the right-of-way of the proposed freeway T.H. 36; and (2) 1400 foot relocation off from Minnesota Department of Transportation's right-of-way south of Old Shakopee Road.

Status: Job will be placed under construction in August 1978 and completed early in 1979.

Annual Expenditures:

During 1978	\$ 480,000
During 1979	276,086

SCHEDULE OF
PROJECTS COMPLETED OR TO BE COMPLETED IN 1978

<u>Project Number</u>	<u>Name of Project</u>
71-06	MWWTP Pre-Treatment Units
71-07	MWWTP Primary Settling Tanks
71-08	MWWTP Aeration & Final Tanks
71-08(415)	" " " " "
71-08(416)	MWWTP Electrical Dist. Cables & Sub. Sta.
71-08(417)	MWWTP Instrumentation & Control Systems
71-08(418)	MWWTP Field Office Addition
71-20	Prior Lake Interceptor
71-32	Little Canada-Shoreview Interceptor
72-04	Cottage Grove Expansion
73-02	MWWTP Sludge Disposal
74-02	Carver Lake Interceptor
75-05	Seneca Coal Handling
75-08	Waconia Interceptor
75-08(420)	Interceptor
75-08(421)	Rehabilitation
76-01	Chemical Waste Land Disposal Facility
76-06	MWWTP Oil Prevention Spill Requirement
76-18	Water Quality Assessment
76-51	Centerville Interceptor
76-52	Rehab. of Intcp. No 1-MN-312
76-53	Systemwide Overview
76-54	Area-Wide Population
77-03	Matching Funds - 208 Program

Certified Federal Grants

<u>Grant</u>	<u>Project</u>	<u>Total Grant Amount</u>	<u>Received As Of 4-30-78</u>	<u>Balance Due</u>	<u>1978 Estimated Amount</u>	<u>1979 Estimated Amount</u>
000-01	MWWTP - Sludge Thickening	\$ 22,079,150	\$17,937,531	\$ 4,141,619	\$ 4,141,619	\$ - 0 -
000-02	MWWTP - Sludge Thermal Cond.	22,400,875	5,174,080	17,226,795	6,000,000	10,000,000
000-03	MWWTP - Roll Type Presses	10,862,400	2,198,374	8,664,026	3,000,000	3,000,000
000-04	MWWTP - Digital Control System	5,977,500	- 0 -	5,977,500	750,000	1,500,000
000-06	MWWTP - Sludge Processing	42,847,950	- 0 -	42,847,950	10,000,000	14,000,000
049-01	Apple Valley Interceptor	72,675	- 0 -	72,675	72,675	- 0 -
050-02	Lakeville-Farmington	13,684,575	5,341,890	8,342,685	4,000,000	4,342,685
663-01	MWWTP - Pre. Treat. Units	11,528,625	10,684,250	844,375	844,375	- 0 -
664-01	MWWTP - Prim. Tanks	16,594,800	16,103,441	491,359	491,359	- 0 -
665-02	MWWTP - Aear. & Final Tanks	39,940,040	36,451,220	3,488,820	2,488,820	1,000,000
666-02	Metro Compressors	2,283,329	880,560	1,402,769	500,000	700,000
749-02	Waconia Interceptor	1,467,443	1,189,461	277,982	277,982	- 0 -
999-01	Facilities Planning Study	2,326,875	394,300	1,932,575	1,500,000	432,575
927-01	Coincineration of Sludge	<u>372,622</u>	<u>332,401</u>	<u>40,221</u>	<u>40,221</u>	<u>- 0 -</u>
	TOTALS	<u>\$192,438,859</u>	<u>\$96,687,508</u>	<u>\$95,751,351</u>	<u>\$34,107,051</u>	<u>\$34,975,260</u>

Certified State Grants

<u>Grant</u>	<u>Project</u>	<u>Total Grant Amount</u>	<u>Received As Of 4-30-78</u>	<u>Balance Due</u>	<u>1978 Estimated Amount</u>	<u>1979 Estimated Amount</u>
000-01	MWWTP - Sludge Thickeners	\$ 4,415,830	\$ 2,724,005	\$ 1,691,825	\$ 1,691,825	\$ - 0 -
000-02	MWWTP - Sludge Thermal Cond.	4,480,175	913,464	3,566,711	1,500,000	2,066,711
000-03	MWWTP - Roll Type Presses	2,172,480	199,434	1,973,046	1,000,000	973,046
000-04	MWWTP - Digital Control System	1,195,500	- 0 -	1,195,500	400,000	795,000
000-06	MWWTP - Sludge Processing	8,569,590	- 0 -	8,569,590	2,100,000	2,900,000
049-01	Apple Valley Interceptor	14,535	- 0 -	14,535	14,535	- 0 -
050-02	Lakeville-Farmington	2,736,915	840,232	1,896,683	900,000	996,683
663-01	MWWTP - Pre. Treat. Units	2,305,725	2,066,850	238,875	238,875	
664-01	MWWTP - Prim. Tanks	3,318,960	2,874,883	444,077	444,077	
665-02	MWWTP - Aera. & Final Tanks	7,988,008	7,136,048	851,960	600,000	251,960
666-02	Metro Compressors	456,666	176,105	280,561	100,000	150,000
749-02	Waconia Interceptor	293,488	206,375	87,113	87,113	- 0 -
999-01	Facilities Planning Study	465,375	78,820	386,555	300,000	86,555
	Riverview Siphon	17,000	- 0 -	17,000	17,000	- 0 -
	Centerville Interceptor	120,000	- 0 -	120,000	120,000	- 0 -
	Lino Lakes Interceptor	<u>228,750</u>	<u>- 0 -</u>	<u>228,750</u>	<u>228,750</u>	<u>- 0 -</u>
	TOTAL	<u>\$38,778,997</u>	<u>\$17,216,216</u>	<u>\$21,562,781</u>	<u>\$ 9,742,175</u>	<u>\$ 8,219,955</u>

Anticipated Grants

(Federal & State Combined)

<u>Account</u>	<u>Name</u>	<u>Grant Income</u>
74-01		
(407)	Sludge Processing Equipment	\$ 9,815,628
(408)	Sludge Processing Building	11,500,970
(409)	Computer Center Building	1,171,428
Various Facilities	Planning Study - Phase II	4,441,754
74-07	Blue Lake Sludge	13,175,354
74-09	Apple Valley Interceptor	3,105,000
71-13	Orono/Long Lake Intcp.-Step II & III	3,452,288
72-02	MWWTP - Compressor Building	12,240,000
77-01	Riverview Siphon - Step III	1,680,000
77-29	Metro Warehouse	2,700,000
77-06	Seneca Sludge Dewatering	360,000
78-03	Interim Sludge Disposal	<u>675,000</u>
	TOTAL	<u>\$64,218,422</u>

Summary of Investment Income

Investment earnings for period
May through December, 1978
\$25 Million X .065 X 2/3 \$ 1,080,000

Investment earnings for period
January through December, 1979
based on average investment balance
of \$20 million and yield of 6.50% 1,300,000

Investment earnings for period
January through December, 1980
based on average investment balance
of \$15 million and yield of 6.50% 975,000

Investment earnings for period
January through December, 1981
based on average investment balance
of \$10 million and yield of 6.50%
650,000

\$ 4,005,000

Financial Status – Current Projects

Program No.	Project	Step Approval	Previously Appropriated	Additional Appropriations	Total Appropriations	Expenditures As of 4-30-78	Encumbered Balance	Unencumbered Balance
71-03	Lakeville-Farmington T.P. & Intcp.	III	\$ 21,680,000	\$ (2,000,000)	\$ 19,680,000	\$ 8,424,406	\$ 9,206,812	\$ 2,048,782
71-09	MWWTP - Compressors	III	3,215,000	- 0 -	3,215,000	1,304,514	1,623,726	286,760
71-13	Orono-Long Lake Intcp.	III	4,258,600	- 0 -	4,258,600	414,224	5,132	3,839,244
71-29	MWWTP - Warehouse	III	2,040,000	1,160,000 ²	3,200,000	155,461	29,840	3,014,699
72-02	MWWTP - Compressor Bldg.	II	13,600,000	- 0 -	13,600,000	191,347	26,057	13,382,596
72-04	Cottage Grove Expansion	III	1,300,000	- 0 -	1,300,000	116,934	1,052,586	130,480
72-07	Maint. & Dispatch Bldg.	II	40,000	80,000 ²	120,000	4,385	-0-	115,615
73-06	Chaska Plant Expansion	III	825,000	- 0 -	825,000	29,348	2,601	793,051
74-01	MWWTP - Sludge Disposal	III						
(400)	Sludge Thickening Facilities	III	30,859,196	(1,500,000) ³	29,359,196	25,779,329	2,697,399	882,468
(401)	Sludge Thermal Cond. & Dewatering Equip.	III	23,510,747	(5,000,000) ³	18,510,747	133,144	16,472,089	1,905,514
(402)	Sludge Cond. & Storage Facilities	III	17,962,680	- 0 -	17,962,680	8,838,661	7,991,005	1,133,014
(403)	Digital Acquisition & Control System	III	10,621,600	(3,000,000) ³	7,621,600	31,394	6,709,891	880,315
(404)	Roll Type Cont. Presses & Accessories for Sludge Dewatering	III	4,079,880	- 0 -	4,079,880	3,046,734	503,324	529,822
(406)	Sludge Dewatering Bldg.	III	10,489,333	(1,500,000) ³	8,989,333	384,857	7,545,446	1,059,030
(407)	Sludge Processing Equip.	III	9,200,781	2,000,000 ³	11,200,781	17,723	179,661	11,003,397
(408)	Sludge Processing Bldg.	III	54,380,000	16,000,000 ^{2&3}	70,380,000	130,877	67,823,804	2,425,319
(409)	Computer Building	III	- 0 -	1,500,000 ³	1,500,000	- 0 -	49,368	1,450,632
74-01	TOTAL		161,104,217	8,500,000 ²	169,604,217	38,362,719	109,971,987	21,269,511

¹No Federal and/or State Grant Participation

²See Schedule 13-4

³Transfers within the 74-01 Projects

Program No.	Project	Step Approval	Previously Appropriated	Additional Appropriations	Total Appropriations	Expenditures As of 4-30-78	Encumbered Balance	Unencumbered Balance
74-07	Blue Lake Sludge	III	15,750,393	- 0 -	15,750,393	961,232	192,731	14,596,430
74-09	Apple Valley Intcp.	III	3,288,000	200,000 ¹	3,488,000	159,661	4,640	3,323,699
74-10	Metro Disposal System Improvements	III	1,696,000	- 0 -	1,696,000	666,732	44,763	984,505
75-01	Ultimate Disposal Site	I	886,285	250,000 ¹	1,136,285	262,607	545,881	327,797
75-05	Seneca - Coal Handling	III	380,000	- 0 -	380,000	275,266	73,627	31,107
75-10	Engineering Serv. - NPDES Permits	I	120,000	- 0 -	120,000	41,659	- 0 -	78,341
75-50	Metro Planning	I	517,488	150,000 ¹	667,488	244,293	- 0 -	423,195
76-05	Metro System Emergency	III	1,500,000	- 0 -	1,500,000	174,712	119,913	1,205,375
76-07	MWWTP Instrumentation	I	568,000	- 0 -	568,000	- 0 -	- 0 -	568,000
76-10	Industrial Waste Studies	I	255,407	- 0 -	255,407	113,928	- 0 -	141,479
76-13	Environmental Inventory & Assessment	I	453,732	100,000 ¹	553,732	149,121	212,885	191,726
76-14	Cottage Grove-Woodbury- Lake Elmo Area Study	I	203,952	(203,952) ²	- 0 -	- 0 -	- 0 -	- 0 -
76-17	Air Quality Monitoring	I	85,976	150,000 ¹	235,976	58,577	- 0 -	177,399
76-18	Expansion of the Water Quality Monitoring Program	I	34,985	- 0 -	34,985	12,497	- 0 -	22,488

¹See Schedule 13-4²Transfers within 201 Projects

Program No.	Project	Step Approval	Previously Appropriated	Additional Appropriations	Total Appropriations	Expenditures As Of 4-30-78	Encumbered Balance	Unencumbered Balance
76-19	Management Information & Process Control Syst.	I	22,760	- 0 -	22,760	454	- 0 -	22,306
76-21	CAB Study	I	143,484	- 0 -	143,484	346	- 0 -	143,138
76-25	Southeast Area Study	I	222,000	382,477 ¹	604,477	1,747	- 0 -	602,730
76-26	Southwest Suburban Area	I	445,010	146,972 ¹	591,982	4,517	- 0 -	587,465
76-28	MWWTP Tertiary Treatment Facilities	I	542,013	200,000 ¹	742,013	4,539	- 0 -	737,474
76-35	Seneca Tertiary Treatment Facilities	I	266,972	(266,972) ¹	- 0 -	- 0 -	- 0 -	- 0 -
76-38	Stillwater-Bayport-St. Croix Area Study	I	108,525	(108,525) ¹	- 0 -	- 0 -	- 0 -	- 0 -
76-48	Battle Creek Study	I	150,000	(150,000) ¹	- 0 -	- 0 -	- 0 -	- 0 -
76-53	Systemwide Overview	I	50,769	8,176 ²	58,945	58,945	- 0 -	- 0 -
76-54	Area-wide Planning Projections	I	312,340	- 0 -	312,340	258,112	- 0 -	54,228
76-55	Combined Sewer Study	I	2,757,600	150,000 ²	2,907,600	1,051,598	783,693	1,072,309
76-56	Alternative Waste Manage- ment Systems	I	163,182	100,000 ²	263,182	30,091	181,153	51,938
77-01	Riverview Siphon System	III	2,000,000	200,000 ²	2,200,000	40,995	40,944	2,118,061
77-02	Metro Intcp. Impr.	III	395,000	- 0 -	395,000	247	- 0 -	394,753
77-03	EPA 208 Match	I	300,000	- 0 -	300,000	141,601	- 0 -	158,399

¹Transfers within 201 Projects

²See Schedules 13-4 & 13-5

Program No.	Project	Step Approval	Previously Appropriated	Additional Appropriations	Total Appropriations	Expenditures As Of 4-30-78	Encumbered Balance	Unencumbered Balance
77-04	Savage Plant Expansion	III	615,000	- 0 -	615,000	39,168	21,895	553,937
77-05	Beltline Reg./Intcp. Impr.	III	1,817,400	- 0 -	1,817,400	22	- 0 -	1,817,378
77-06	Seneca Sludge Dewatering	III	390,000	210,000 ¹	600,000	1,644	58,000	540,356
77-07	Anoka Interceptor	III	3,223,000	1,000,000 ¹	4,223,000	26,133	129,225	4,067,642
78-01	Future System Configuration	I	428,882	- 0 -	428,882	1,057	- 0 -	427,825
78-02	F & I #1 Scrubbers	III	1,237,700	- 0 -	1,237,700	46,924	207,015	983,761
78-03	Interim Sludge Disposal	III	750,000	- 0 -	750,000	- 0 -	- 0 -	750,000
78-04	Bloomington Intcp. Reloc.	III	<u>756,086</u>	<u>- 0 -</u>	<u>756,086</u>	<u>- 0 -</u>	<u>- 0 -</u>	<u>756,086</u>
TOTALS			<u>\$250,900,758</u>	<u>\$10,258,176</u>	<u>\$261,158,934</u>	<u>\$53,831,763</u>	<u>\$124,535,106</u>	<u>\$82,792,065</u>

¹See Schedules 13-4 & 13-5

**Request For
Additional
Funding**

Project 71-29 MWWTP - Warehouse

Reason for Increase: The increase of \$1,160,000 is due to inflation and increased scope of project.

Project 72-07 Maintenance & Dispatch Building

Reason for Increase: The increase of \$80,000 is due to increased scope of service.

Project 74-01 MWWTP - Sludge Disposal

Reason for Increase: The increase of \$8,500,000 is due to the sludge processing building bid of \$66,957,270, which was about \$13,000,000 higher than estimated. Otherwise, the credits to various segments offset the debits.

Project 74-09 Apple Valley Interceptor

Reason for Increase: The increase of \$200,000 is due to inflation.

Project 75-50 Metro Planning

Reason for Increase: Based on the Metropolitan Council's projected billing for 1979, this project is increased \$150,000.

Various 201 Projects

Reason for Increase: Based on our current estimates, the following amounts are needed in order to complete the 201 studies:

<u>Project No.</u>	<u>Amount Needed*</u>
75-01	\$ 250,000
76-13	100,000
76-17	150,000
76-53	8,176
76-55	150,000
76-56	100,000

*These monies will not be expended unless Federal and State grants are received.

Transfers Within the 201 Projects:

<u>Project Transferred From</u>	<u>Project Transferred To</u>	<u>Amount Transferred</u>	<u>Reason for Transfer (see below)</u>
76-14	76-25	\$ 203,952	1
76-38	76-25	108,525	1
76-48	76-25	150,000	1
76-25	76-28	80,000	2
76-35	76-26	266,972	3
76-26	76-28	120,000	4

Reasons For Transfers:

1. Projects 76-14, 76-38 and 76-48 are combined into the total service area #6 study.
2. Part of the flow from service area #6 goes to the MWWTP and part of the funds were allocated for the tertiary treatment study.
3. The Seneca NPDES permits study were included in the Southwest Area Study.
4. Additional funds were required for the MWWTP study and excess funds were contained in the 76-26 study.

Project 77-01 Riverview Siphon System

Reason for Increase: The increase of \$200,000 is due to inflation.

Project 77-04 Savage Plant Expansion

Reason for Increase: The increase of \$470,000 is due to change in scope of project.

Project 77-06 Seneca Sludge Dewatering

Reason for Increase: The increase of \$210,000 is due to inflation and detailed estimate of current costs.

Project 77-07 Anoka Interceptor

Reason for Increase: The increase of \$1,000,000 is due to inflation and change in scope of project.

SOURCE OF AUTHORIZATION FOR PROJECTS

Project 71-03 Lakeville-Farmington T.P. & Intcp.

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

Project 71-09 MWWTP - Compressors

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

Project 71-13 Orono-Long Lake Intcp.

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

Project 71-29 MWWTP - Warehouse

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

Project 72-02 MWWTP - Compressor Bldg.

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

Project 72-04 Cottage Grove Expansion

Source of Authorization: Included in the Development Program for years 1977-1981.

Project 72-07 Maint. & Dispatch Bldg.

Source of Authorization: Included in the Waste Management Policy Plan as a project to be constructed during the period from 1977-1980.

Project 73-06 Chaska Plant Expansion

Source of Authorization: Included by an Amendment to the Waste Management Policy Plan.

Included by an Amendment to the Development Program for years 1978-1982.

Project 74-01 MWWTP - Sludge Disposal
 (400) Sludge Thickening Facilities
 (401) Sludge Thermal Cond. & Dewatering Equip.
 (402) Sludge Cond. & Storage Facilities
 (403) Digital Acquisition & Control System
 (404) Roll Type Cont. Pressed & Accessories for Sludge Dewatering
 (406) Sludge Dewatering Bldg.
 (407) Sludge Processing Equip.
 (408) Sludge Processing Bldg.

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

(409) Computer Building

Source of Authorization: Included in the Development Program for years 1978-1982.

Included by an Amendment to the Waste Management Polciy Plan.

Project 74-07 Blue Lake Sludge

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

Project 74-09 Apple Valley Inctp.

Source of Authorization: Included in the Waste Management Polciy Plan as a previously approved System Improvement Project.

Project 74-10 Metro Disposal System Improvements

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

Project 75-01 Ultimate Disposal Site

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 75-05 Seneca - Coal Handling

Source of Authorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

Project 75-10 Engineering Serv. - NPDES Permits

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 75-50 Metro Planning

Source of Authorization: Included in previous capital budget prior to requirements of M.R.A.

Project 76-05 Metro System Emergency

Source of Authorizatoin: Included in previous capital budget prior to requirements of M.R.A.

Project 76-07 MWWTP Instrumentation

Source of Autorization: Included in the Waste Management Policy Plan as a previously approved System Improvement Project.

Project 76-10 Industrial Waste Studies

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-13 Enviromental Inventory & Assessment

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-14 Cottage Grove-Woodbury-Lake Elmo Area Study

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-17 Air Quality Monitoring

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-18 Expansion of the Water Quality Monitoring Program

Source of Authorization: Included in the Waste Management Policy Plan as a project to be constructed during the period from 1977-1980.

Project 76-19 Management Information & Porcess Control Syst.

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-21 CAB Study

Source of Authorization: Included in the Waste Management Policy Plan as a project to be constructed during the period from 1977-1980.

Included by an Amendment to the Development Program for years 1978-1982.

Project 76-25 Southeast Area Study

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-26 Southwest Suburban Area

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-28 MWWTP Tertiary Treatment Facilities

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-35 Seneca Tertiary Treatment Facilities

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-38 Stillwater-Bayport-St. Croix Area Study

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-48 Battle Creek Study

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-53 Systemwide Overview

Source of Authorization: Included in the Development Program for years 1978-1982.

Project 76-54 Area-wide Planning Projections

Source of Authorization: Included in the Development Program for years 1978-1982.

Project 76-55 Combined Sewer Study

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 76-56 Alternative Waste Management Systems

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 77-01 Riverview Siphon System

Source of Authorization: Included in the Waste Management Policy Plan as a project to be constructed during the period from 1977-1980.

Included in the Development Program for years 1977-1981.

Project 77-02 Metro Intcp. Impr.

Source of Authorization: Included in the Waste Management Policy Plan as a project to be constructed during the period from 1977-1980.

Project 77-03 EPA 208 Match

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 77-04 Savage Plant Expansion

Source of Authorization: Included by an Amendment to the Development Program for years 1978-1982.

Project 77-05 Beltline Reg./Intcp. Impr.

Source of Authorization: Included in the Development Program for years 1978-1982.

Project 77-06 Seneca Sludge Dewatering

Source of Authorization: Included in the Development Program for years 1978-1982.

Project 77-07 Anoka Interceptor

Source of Authorization: Included in the Development Program for years 1977-1981.

Included in the Development Program for years 1978-1982.

Project 78-01 Future System Configuration

Source of Authorization: Included in the Waste Management Policy Plan as a study.

Project 78-02 F & I #1 Scrubbers

Source of Authorization: Included by an Amendment to the Waste Management Policy Plan.

Included by an Amendment to the Development Program for years 1978-1982.

Project 78-03 Interim Sludge Disposal

Source of Authorization: Included by an Amendment to the Waste Management Policy Plan.

Included by an Amendment to the Development Program for years 1978-1982.

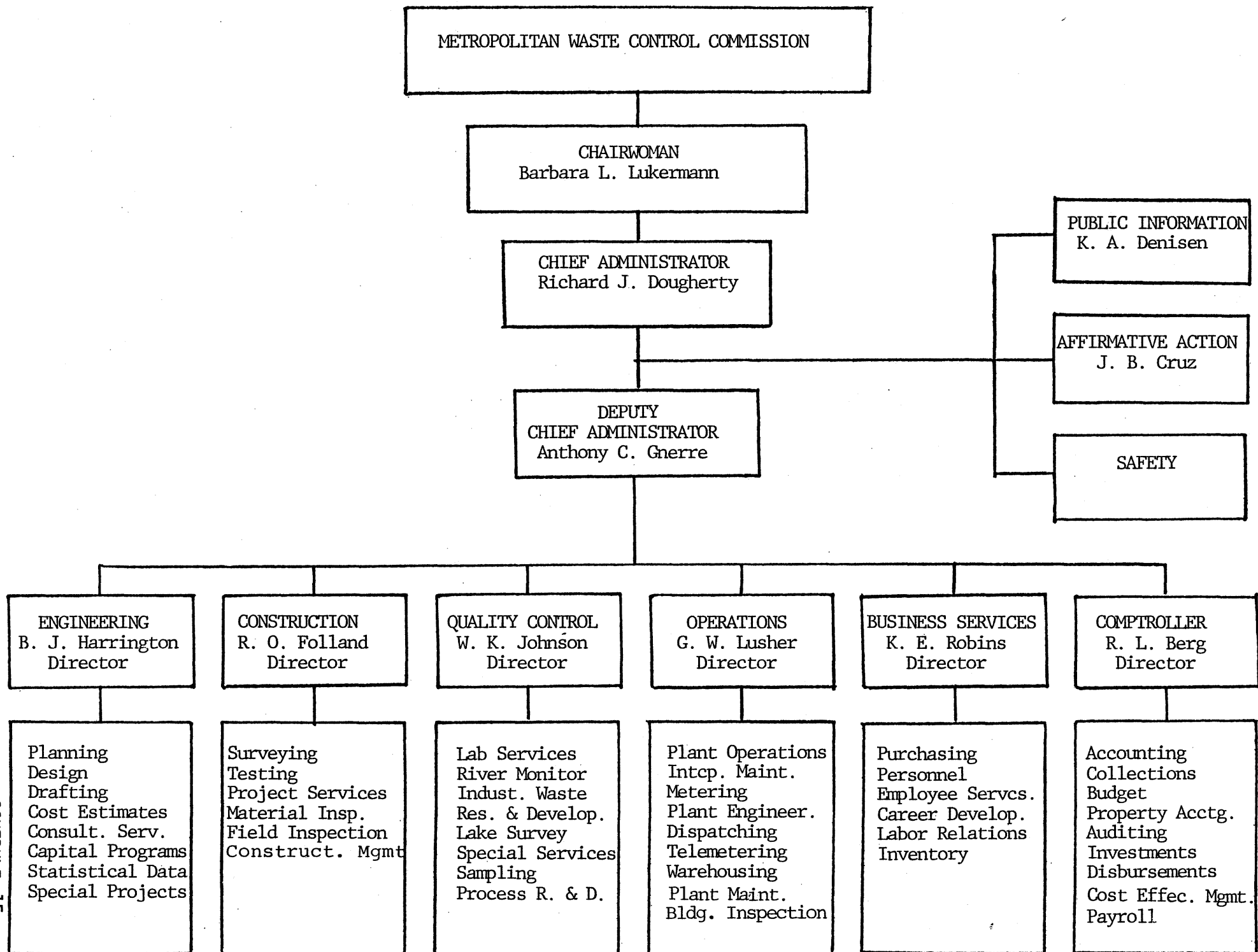
Project 78-04 Bloomington Intcp. Reloc.

Source of Authorization: Included in the Waste Management Policy Plan as a project to be constructed during the period from 1977-1980.

Included by an Amendment to the Development Program for years 1978-1982.

Status of Authorized Personnel

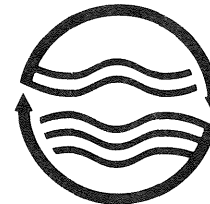
<u>Department/Plant</u>	<u>Proposed 1979</u>	<u>Actual 1978</u>
Administration	16	16
Engineering	30	28
Quality Control	71	61
Construction		
Central Office	3	3
Field Office	68	68
Operations		
Central Office	6	6
Process Assurance	9	8
Area Supervisors	5	5
Metro Plant	270	233
Seneca Plant	47	47
Blue Lake Plant	28	28
Anoka	3	3
Maple Plain	1	1
Savage	2 (½ year)	1
Cottage Grove	4	4
Chaska	3	3
Orono	1	1
Stillwater	5	5
Apple Valley	4	4
Rosemount	18	15
Farmington	2	2
Lakeville	2	2
So. St. Paul	12	12
Hastings	5	5
Long Lake	1	1
Bayport	1	1
Interceptor System	52	52
Land Disposal Facility	7	7
Lakeville-Farmington	6 new positions (17 transfer-½ yr)	0
Business Services	12	12
Comptroller	<u>15</u>	<u>14</u>
 TOTAL	 <u>709</u>	 <u>648</u>



Commission Members and Precincts



Barbara L. Lukermann
Chairwoman



**METROPOLITAN
WASTE
CONTROL
COMMISSION**
Twin Cities Area



Richard A. Beens



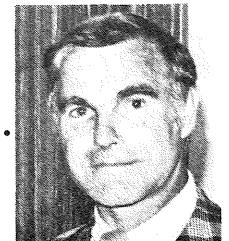
William T. Wallrich



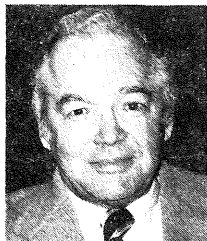
W. Glen Wallace



Carol M. Flynn



Frank Horak



C. Wayne Courtney



Calvin J. Brookman



Ruth K. Hustad

