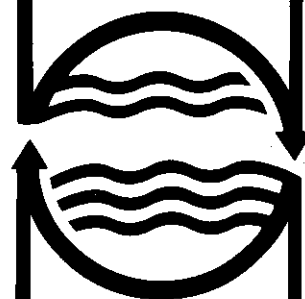


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**Metropolitan
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Control
Commission**



Mears Park Centre
230 East Fifth Street
St. Paul, MN 55101
612-222-8423

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1989
Rev.

Pursuant to Mn Stat 473.163, sd2

METROPOLITAN WASTE CONTROL COMMISSION

1989 PROGRAM BUDGET

OFFICIALLY APPROVED AUGUST 2, 1988

REVISED NOVEMBER 18, 1988

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Metropolitan Waste Control Commission
Mears Park Centre, 230 East Fifth Street, St. Paul, Minnesota 55101

612 222-8423

August 2, 1988

The Honorable Peter E. Meintsma, Chairman
Members of the Commission
Metropolitan Waste Control Commission
Mears Park Centre
230 E. Fifth Street
St. Paul, MN 55101

Dear Chairman Meintsma and Commissioners:

Enclosed for your review and consideration, in accordance with Minnesota Statute 473.163, is the proposed 1989 Program Budget for the Metropolitan Waste Control Commission covering the period January 1 through December 31, 1989.

The procedure followed in the preparation of the program budget was initiated by the Program Managers preparing the budget requests based upon their objectives in 1989. These requests were then reviewed by their Department Director. Budgets were reduced by a joint decision of the Department Director and Program Manager, and the total budget was further reduced by the Budget Committee to a total of \$112.6 million. The Commission reduced the total budget to \$110.5 million which is an increase of 1.98% over the 1988 budget.

The total proposed expenditures of \$110.5 million are detailed and described in 55 program budgets as indicated on Schedule 3 through Schedule 3-23. Each program budget indicates a description of the program and total resources required. This budget outlines a considerable amount of information in an understandable manner.

The capital improvements program contains 67 projects for which \$457,887,422 has been appropriated during the past several years.

It is anticipated that one (1) of these will be closed out during the current year and the remaining authorized projects will require total expenditures of \$258,759,289. Of this amount, \$33,908,695 has been encumbered and the balance of \$224,850,594 will be encumbered during

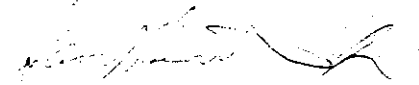
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The Honorable Peter E. Meintsma, Chairman
Members of the Commission
August 2, 1988
Page Two

the next years. A detailed financial status of these projects is shown on Schedule 11 and Schedule 11-1. In addition, two (2) new projects are being proposed in the amount of \$7,400,000, which are described on Schedule 13.

In submitting the 1989 program budget to the Commission, I wish to point out that many members of the staff have contributed significantly to the preparation of the budget. Their expertise experience and judgment have been exceedingly valuable. The task, at this point, is for the Commission to review the programs contained in this budget, to consider input from the Council, local government officials and other interested parties and then act to adopt a final budget. The staff, as usual, will provide you with complete cooperation and assistance in the review process.

Very truly yours,



James J. Hiniker, Jr.
Acting Administrator

JJH:RLB:kmw

GENERAL FUND - REVENUES & EXPENDITURES

	<u>Budget 1989</u>	<u>Budget 1988</u>	<u>Actual 1987</u>
<u>ESTIMATED REVENUES:</u>			
Sewer Service Charges-Communities	\$92,819,260	\$91,096,370	\$85,858,071
Industrial Strength	5,200,000	4,960,000	4,491,337
Service Availability Charges	11,476,740	11,093,245	10,143,065
Investment Earnings	900,000	600,000	185,565
Industrial Discharge Permits	26,000	25,000	18,390
Other	<u>78,000</u>	<u>575,000</u>	<u>213,439</u>
TOTAL ESTIMATED REVENUES	<u>\$110,500,000</u>	<u>\$108,349,615</u>	<u>\$100,909,867</u>
<u>ESTIMATED EXPENDITURES:</u>			
Program	\$ 73,542,169	\$ 71,558,987	\$ 66,111,646
Debt Service	32,965,285	32,622,510	28,545,090
Acquisition Costs	<u>3,992,546</u>	<u>4,168,118</u>	<u>4,156,833</u>
TOTAL ESTIMATED EXPENDITURES	<u>\$110,500,000</u>	<u>\$108,349,615</u>	<u>\$ 98,813,569</u>
Due to Local Government			<u>2,096,298</u>
GRAND TOTAL			<u>\$100,909,867</u>
Transfer to SAC Reserve (Add'l SAC Revenue)			\$ 3,284,826

1989 PROGRAMS

ADMINISTRATOR'S OFFICE (001)

Description:

The Administrator's Office provides overall leadership and direction to all MWCC staff. In addition, internal auditing of selected activities is conducted. Two major costs of MWCC operation, Central Office rent and payments to the Metropolitan Council for staff services are included in this program.

Resources Required: \$1,018,860

Work Hours Required: 10,000

BOARD OF COMMISSIONERS (002)

Description:

The Board of Commissioners is the governing body for the MWCC. The Board provides policy direction for staff operations and reviews, then approves or rejects administrative actions proposed by the Administrator.

Resources Required: \$199,595

Work Hours Required: 3,500

OFFICE OF LEGAL COUNSEL (003)

Description:

The Office of Legal Counsel provides general in-house legal service to Commission staff; provides in-house acquisition services; attends Commission and Committee meetings to provide legal advice; and arranges for and supervises contracted legal services.

Resources Required: \$204,355

Work Hours Required: 4,050

OFFICE OF PUBLIC AND COMMUNITY RELATIONS (004)

Description:

This Office supports the goals of the MWCC by conducting a comprehensive information and communication program about MWCC's activities for all MWCC audiences--Commissioners, employees, the media, government organizations, plus local officials and the public in 105 communities in the metropolitan area.

Resources Required: \$242,834

Work Hours Required: 5,400

OFFICE OF HEALTH AND SAFETY (005)

Description:

This Office ensures a safe and healthy work environment for all employees by:

- 1) Managing a loss control system (through trend analysis of injury reports) to reduce frequency of injuries and loss time rates;
- 2) Servicing special needs of program managers, including analysis of air contaminants, noise levels, construction design and work procedures;
- 3) Providing employees with safety and industrial hygiene training and information relative to on-the-job and home and safety issues;
- 4) Maintaining safe work environments through site audits of MWCC properties to verify compliance with safety directives and OSHA regulations; and
- 5) Managing the Workers' Compensation and Return-To-Work Programs.

Resources Required: \$1,720,771

Work Hours Required: 13,920

PLANNING DEPARTMENT - ADMINISTRATION (006)

Description:

Planning Department Administration is responsible for the supervision of broad-scale planning activities, which help assure that MWCC's facilities continue to meet environmental standards and user needs, and that programs and policies are in place for efficient and cost-effective operations.

Resources Required: \$124,203

Work Hours Required: 3,300

PLANNING DEPARTMENT - CAPITAL PROJECTS (007)

Description:

This program carries out the Commission's long range capital planning in the capital budget through:

- 1) Coordinating, preparing and processing MWCC's Implementation Plan (formerly Development Program);
- 2) Coordinating, conducting or managing studies to update or review facility planning for Commission facilities;
- 3) Reviewing and assessing the Commission's capital improvements program implementation; and
- 4) Coordinating with the Metropolitan Council in providing information and studies for formulation revisions or amendments to the Waste Resources Management Development Guide Policy Plan, the Implementation Plan, or the Capital Budget.

Resources Required: \$49,411

Work Hours Required: 1,340

PLANNING DEPARTMENT - MUNICIPAL SERVICES (008)

Description:

This program involves the interaction of the Commission with municipalities in the metropolitan area as follows:

- 1) The review and approval of comprehensive sewer plans and sanitary sewer improvements as required by state statutes;

PLANNING DEPARTMENT - MUNICIPAL SERVICES (008) - (Cont.)

Description: (Continued)

- 2) The determination and assignment of estimated and actual wastewater flows, plus interceptor and treatment capacities by municipality; and
- 3) Service Availability Charge Administration policy interpretation and unit assignments as part of the Cost Allocation program.

This program also reviews projects proposed for the metropolitan area as to whether their construction or use will have any impact on the Metropolitan Disposal System.

Resources Required: \$297,332

Work Hours Required: 12,350

PLANNING DEPARTMENT - SPECIAL PROJECTS (009)

Description:

This program coordinates planning studies of a non-routine nature dealing with new concepts, innovative technologies or other special projects. It also chairs the Residual Solids Management Advisory Committee, assists the Department Director and other Planning Department Managers as required.

Resources Required: \$51,022

Work Hours Required: 1,390

PLANNING DEPARTMENT - COMPREHENSIVE PLANNING (010)

Description:

This program is responsible for the Contract Management of Geographic Information Systems application, mapping and development of interceptor database; overseeing and directing the continued surveillance of federal and state laws related to grants and loans and provides leadership and coordination of interested parties for appropriate analysis and development of positions in the best interest of the Commission; provides the overall planning and direction for continued development and improvement of procedures, timing and prioritization related to financial planning dealing with capital improvements, loans, grants and other sources of funding; conducts special analyses related to budget cost centers, including trends and directions of costs due to inflation and impacts upon users; and provides continued guidance for

PLANNING DEPARTMENT - COMPREHENSIVE PLANNING (010) - (Cont.)

Description: (Continued)

the improvement and implementation of the action plan designed to implement the scope of activities involved in the strategic planning process.

Resources Required: \$165,164

Work Hours Required: 4,700

QUALITY CONTROL DEPARTMENT - ADMINISTRATION (011)

Description:

This program exists to plan, direct and coordinate the activities of the Quality Control Department. It provides for the Central Office needs of the department staff, including clerical support. Subject to general guidance from the Office of the Administrator, this program coordinates its services with other Commission departments and with external agencies. The program is involved in setting department objectives, preparing and administering annual budgets, recruiting and evaluating personnel, and coordinating department training.

Resources Required: \$149,277

Work Hours Required: 4,037

QUALITY CONTROL DEPARTMENT - INDUSTRIAL WASTE (012)

Description:

The purpose of the Industrial Waste Division is to control industrial users of the Metropolitan Disposal System to insure the protection of MWCC and community facilities, treatment process efficiency, staff safety, the public and the environment. This goal is accomplished through the permitting, monitoring and enforcement functions, and by responding as necessary to industrial spills, treatment plant upsets and community sewer problems.

Resources Required: \$925,366

Work Hours Required: 43,400

QUALITY CONTROL DEPARTMENT - RESEARCH & DEVELOPMENT (013)

Description:

The Research & Development Division is an interdisciplinary service group, consisting of engineers, scientists, and technicians dedicated to conducting diligent, systematic, and timely investigations into subject areas of interest to the MWCC. The investigations are conducted to solve existing or anticipated problems and/or optimize the utilization of physical and financial resources. In addition, studies are conducted to evaluate the impact of liquid, gaseous and solid discharges on the environment.

In addition to conducting in-house projects, the Division also currently funds external projects addressing the following topics: accuracy of flow measurement in sewers, sludge utilization on agricultural land, biooxidation of toxic organics, and ash utilization methods.

Resources Required: \$1,022,025

Work Hours Required: 23,967

QUALITY CONTROL DEPARTMENT - WATER QUALITY MONITORING & ANALYSIS (014)

Description:

The Water Quality Monitoring and Analysis Division measures compliance with standards and detects trends by monitoring the quality of area receiving waters, conducting toxicity testing of treatment plant effluents and monitoring groundwater in MWCC wells. The Division also provides support for facility planning and regional management activities. Additional tasks performed by staff include field collections and surveys, data interpretation and reporting, and mathematical modeling.

Resources Required: \$572,212

Work Hours Required: 22,452

QUALITY CONTROL DEPARTMENT - LAB SERVICES (015)

Description:

The objective of the Laboratory Services Division is to generate high quality data that are accurate, reliable, cost-effective and adequate for the intended purpose.

The MWCC's facilities are scattered throughout the seven county metro area and each facility must conduct some on-site analysis for permit reporting and process adjustments.

This Division also provides data for EPA permit reporting and supports the analytical needs of programs that: control industrial users, conduct applied research, monitor the quality of area receiving waters, assess air quality, and conduct special studies for design, evaluation, and modification of treatment plant processes and equipment.

Resources Required: \$1,876,905

Work Hours Required: 76,892

QUALITY CONTROL DEPARTMENT - AIR QUALITY MONITORING (016)

Description:

The Air Quality Monitoring Division provides air quality monitoring and air quality related technical expertise to other MWCC divisions, to assist the Commission in achieving its goal of complying with clean air standards in a cost effective manner. Specifically, this Division:

- 1) Serves as a coordination center for all MWCC air quality efforts;
- 2) Provides all needed gas and air testing;
- 3) Provides technical expertise to other MWCC divisions dealing with air quality issues, including involvement in project and regulatory permit negotiations;
- 4) Insures, in concert with the department's Permits Division, that the MWCC's stack gas, ambient air, and noise testing efforts are in compliance with all regulatory requirements; and
- 5) Maintains, in conjunction with the Research and Development Division, an ongoing program of investigations into improved methods for measuring air quality indices.

Resources Required: \$298,666

Work Hours Required: 8,650

QUALITY CONTROL DEPARTMENT - REGULATORY COMPLIANCE (017)

Description:

This Division interacts with all segments of the Commission, and represents the Commission's interests before regulatory agencies on compliance issues.

This Division insures that all MWCC facilities are in full and willing compliance with rules and permits for air emissions, effluent discharges and residual solids. The Regulatory Compliance Division implementing MWCC strategy, leads permit negotiations, tracks compliance schedules, transmits reports, reviews regulatory activities, provides permit and regulatory information to other divisions and departments to facilitate compliance, and fosters effective internal and external communications for a unified, consistent approach to regulatory requirements.

Resources Required: \$314,933

Work Hours Required: 4,806

ADMINISTRATIVE SERVICES DEPARTMENT - ADMINISTRATION (018)

Description:

Provides administrative support to the MWCC. The Director of the Department is responsible for seeing that the Divisions within the Department fulfill their missions and accomplish their goals on schedule and within budget. There are five Divisions within the Department: Business Services, Accounting (Controller), Human Resources, Information Technologies, and Procurement.

Resources Required: \$141,051

Work Hours Required: 4,140

ADMINISTRATIVE SERVICES DEPARTMENT - BUSINESS SERVICES (019)

Description:

The Business Services Division is responsible for providing office and storage space, communications equipment, and postage and xerographic services to all Central Office personnel. The Division also administers MWCC's Employee Assistance and Records Retention programs and provides support to MWCC's Quality and Productivity Improvement Interest Group.

Resources Required: \$373,446

Work Hours Required: 9,000

ADMINISTRATIVE SERVICES DEPARTMENT - HUMAN RESOURCES (020)

Description:

The Human Resources Division provides a broad range of services to MWCC, including administering the recruitment, selection, orientation, performance appraisal, job evaluating (including job analysis, job descriptions and job classification/reclassifications), wage and salary administration, employee benefits and separation services including preretirement planning.

Resources Required: \$362,757

Work Hours Required: 10,730

ADMINISTRATIVE SERVICES DEPARTMENT - LABOR RELATIONS (021)

Description:

This program is responsible for all MWCC labor relations activities, including the negotiation of labor contract and agreements, handling grievances, arbitrations, and implementing labor cost data with Cyborg software.

Resources Required: \$80,045

Work Hours Required: 630

ADMINISTRATIVE SERVICES DEPARTMENT - PROCUREMENT (022)

Description:

The Procurement Division is responsible for:

- 1) Providing a centralized purchasing system with a proper set of checks and balances on orders that comply with all federal, state, and local laws and establish rules;
- 2) Maintaining a bid calendar for all items acquired through the bidding process and administer bid procedures.
- 3) Managing a central motor pool;
- 4) Providing semi-annual reports to management from the mainframe computer system to aid decision-making on budget management;

ADMINISTRATIVE SERVICES DEPARTMENT - PROCUREMENT (022) - (Cont.)

Description: (Continued)

- 5) Preparing a budget forecast for materials and supplies to be used by all MWCC Departments in preparing their annual program budget; and
- 6) Coordinating with MWCC departments and government agencies on the disposal of surplus or obsolete Commission equipment.

Resources Required: \$275,782

Work Hours Required: 9,460

PLANNING DEPARTMENT - INSURANCE (023)

Description:

The Planning Department is responsible for assessing risks inherent in the operation of the Metropolitan Disposal System and securing coverage for those risks that will adversely affect the operations of the System. The department is also responsible for:

- 1) Ascertaining risks that are self/co-insurable, to reduce premiums;
- 2) Soliciting quotes from vendors for coverage at least 30 days prior to anniversary date(s) or premium due date(s); and
- 3) Processing all property and damage claims within three days of learning about them.

Resources Required: \$731,073

Work Hours Required:

ADMINISTRATIVE SERVICES DEPARTMENT - CONTROLLER'S ADMINISTRATION (024)

Description:

This program is responsible for insuring the successful completion of a full range of required financial services for the MWCC on a timely basis including collections, disbursements, payroll, budgeting, general accounting, final reporting, cost effectiveness studies and other related financial matters.

Resources Required: \$105,616

Work Hours Required: 3,728

ADMINISTRATIVE SERVICES DEPARTMENT - ACCOUNTING & COLLECTIONS (025)

Description:

This program is responsible for insuring that accounting regulations and policies are followed in all MWCC's financial transactions and also for providing accurate, useful and up-to-date financial data to all departments within MWCC. Further, the Division is responsible for proper receipt and accounting of Commission revenue as well as maintenance of a Commission-wide fixed asset system.

Resources Required: \$209,649

Work Hours Required: 6,704

ADMINISTRATIVE SERVICES DEPARTMENT - DISBURSEMENTS (026)

Description:

This program is responsible for properly paying all vendors and contractors utilized by the MWCC.

Resources Required: \$138,653

Work Hours Required: 8,960

ADMINISTRATIVE SERVICES DEPARTMENT - PAYROLL (027)

Description:

This program is responsible for preparing all MWCC payroll checks, distributing labor costs to the respective MWCC budget programs and projects and remitting all necessary payroll deductions to the appropriate agencies.

Resources Required: \$196,196

Work Hours Required: 9,394

PLANNING DEPARTMENT - DEBT SERVICES - CASH/FISCAL MANAGEMENT (028)

Description:

The Planning Department is responsible for planning long term cash flow requirements for both the operating and construction funds; bonding requirements for the construction fund and related debt service requirements in the operating fund; prompt investment of Commission monies; and recommendations on financial matters pertaining to long-range planning.

Resources Required: \$37,037,759

Work Hours Required: 1,890

OFFICE OF EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION (029)

Description:

The Office of Equal Employment Opportunity/Affirmative Action (EEO/AA) administers the MWCC's equal employment opportunity and affirmative action programs. The Office is responsible for ensuring equal access to employment and promotional opportunities, affirmative action for under-utilized members of protected groups, maintaining agency compliance with federal, state, and local non-discrimination laws, regulations, requirements and Commission policy and provides effective review and resolution of EEO/AA complaints. In addition, the Office administers the agency's program for Socially and Economically Disadvantaged Businesses.

Resources Required: \$223,432

Work Hours Required: 5,400

ADMINISTRATIVE SERVICES DEPARTMENT - CAREER DEVELOPMENT/TRAINING (030)

Description:

This program assists employees with education to prepare them for career opportunities within MWCC.

Resources Required: \$43,300

Work Hours Required: 0

ADMINISTRATIVE SERVICES DEPARTMENT - INFORMATION TECHNOLOGIES (031)

Description:

The Information Technologies Division:

- 1) Provides electronic data processing to all departments within MWCC;
- 2) Maintains MWCC's existing systems of mainframe minicomputers, personal computers and word processors;
- 3) Reviews current and future technologies and the impact they might have on the Commission; and
- 4) Assures implementation of the Comprehensive Long-Range Information Systems Plan adopted by MWCC's Board of Commissioners.

Resources Required: \$2,676,230

Work Hours Required: 34,984

OPERATIONS DEPARTMENT - ASH DISPOSAL (032)

Description:

This program is responsible for disposing of sewage sludge ash, which has been stored at MWCC's Metro Plant and Rosemount site.

Resources Required: \$884,682

Work Hours Required: 0

OPERATIONS DEPARTMENT - REGULATOR SYSTEM (033)

Description:

This program is responsible for operating and maintaining 17 instrumented combined sewer overflow (CSO) regulator sites and 80 non-instrumented regulator sites in conformance with NPDES permit requirements. Proper operation of the regulator system maximizes the conveyance of wastewater to MWCC's Metro Plant for treatment and minimizes the overflow of combined (sanitary and storm) sewage to the river.

Resources Required: \$357,475

Work Hours Required: 11,050

OPERATIONS DEPARTMENT - INTERCEPTOR ADMINISTRATION (034)

Description:

This program is responsible for administering the interceptor sewer system in the metro area. This includes:

- 1) Managing finances;
- 2) Maintaining a radio system; and
- 3) Short and long term planning and possible improvements for the MWCC Collection System.

Resources Required: \$361,163

Work Hours Required: 12,088

OPERATIONS DEPARTMENT - INTERCEPTOR SYSTEM MAINTENANCE (035)

Description:

This program is responsible for maintaining the MWCC wastewater collection system, which includes approximately 500 miles of sewer pipes, serving more than 100 communities. This requires managing interceptor rental agreements and interceptor maintenance contracts. The MWCC Inspection Crew performs ongoing inspections and rehabilitation of interceptor sewer pipes. Videotaping, sewer hole sealing, pipe joint sealing and root control are all performed as part of interceptor system maintenance.

Resources Required: \$472,626

Work Hours Required: 9,240

OPERATIONS DEPARTMENT - LIFT STATIONS (036)

Description:

This program is responsible for operating and maintaining 64 lift stations and the associated alarm telemetry system, which monitors each station. Routine first echelon maintenance is performed on each lift station daily. (Two-thirds of the stations are checked on weekends to assure continued operation.) Preventative maintenance and corrective maintenance are scheduled to provide necessary second echelon maintenance to all 64 lift stations. Standby power coverage is provided by either on-site generators or portable generators, which are moved from site to site.

Resources Required: \$2,494,847

Work Hours Required: 59,126

OPERATIONS DEPARTMENT - METERING STATIONS (037)

Description:

This program is responsible for the following activities related to metering stations:

- 1) Keeping 176 flow meters in good working order through preventative maintenance and quarterly calibrations;
- 2) Making necessary meter station improvements;
- 3) Preparing and forwarding to the Engineering Department monthly metered flow reports;
- 4) Preparing community flow reports twice annually;
- 5) Assisting the Engineering Department in the contacting of communities responsible for excesses of inflow and infiltration into the MWCC system;
- 6) Maintaining all meter system computer equipment and peripherals; and
- 7) Installing weirs at locations where data is needed and no meter devices are available.

Resources Required: \$1,096,153

Work Hours Required: 31,050

OPERATIONS DEPARTMENT - EMPIRE PLANT (038)

Description:

The Empire Plant has a design capacity to treat 6 million gallons per day of wastewater. It serves Empire Township, Apple Valley, Lakeville and Farmington. The plant provides primary, secondary and tertiary treatment to wastewater before discharging it into the Vermillion River. Sludge is landspread on adjacent farmland. The responsibilities of this and all the plants are as follows:

- 1) To operate the plant in compliance with permit requirements;
- 2) To maintain plant facilities;
- 3) To Emphasize safe working conditions through safety training, safety problems; and

OPERATIONS DEPARTMENT - EMPIRE PLANT (038) - (Cont.)

Description: (Continued)

- 4) Maintaining the plant to provide a pleasant, safe, and productive work environment, and a good image to the public.

Resources Required: \$1,997,558

Work Hours Required: 53,927

OPERATIONS DEPARTMENT - METRO PLANT OPERATIONS (039)

Description:

The Metro Plant has the design capacity to treat 250 million gallons of wastewater each day or 80 percent of the wastewater in the metro area. The plant serves some 60 communities and 1.5 million people. The plant provides primary, secondary and advanced treatment to wastewater before discharging it into the Mississippi River. More than \$3 million in fuel bills is saved annually by burning sludge to create energy. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$26,553,011

Work Hours Required: 613,302

OPERATIONS DEPARTMENT - METRO MAINTENANCE (040)

Description:

This program is responsible for maintaining the Metro Plant by:

- 1) Providing emergency, preventive, and corrective maintenance of an in-house and contract nature for MWCC's Metro Plant Operations, Regional Plants, Interceptor Group and Quality Control;
- 2) Providing vehicle maintenance services for MWCC's Metro Plant Operations, Construction Field Office, Quality Control and Administrative Services;
- 3) Providing salvage services for MWCC;

OPERATIONS DEPARTMENT - METRO MAINTENANCE (040) - (Cont.)

Description: (Continued)

- 4) Assisting in improving management and supervisory training; and
- 5) Start-up and providing training and assistance with the new maintenance management and inventory control system software.

Resources Required: \$12,185,633

Work Hours Required: 338,148

OPERATIONS DEPARTMENT - METRO WAREHOUSE (040-A)

Description:

This program is responsible for providing inventory and warehouse services for Metro Maintenance, Metro Operations, and Quality Control by:

- 1) Supporting emergency, preventive and corrective maintenance along with contract work for Metro Plant Operations, Quality Control, Regional Facilities and Interceptor System;
- 2) Providing purchasing services for Maintenance Shop (continuous P.O.'s and Warehouse);
- 3) Providing receiving services for Metro Plant (non-inventory items); and
- 4) Serving as Metro Plant's liaison with Accounts Payable to resolve billing issues.

Resources Required: \$505,187

Work Hours Required: 18,960

OPERATIONS DEPARTMENT - SENECA PLANT (041)

Description:

The Seneca Plant has a design capacity to treat 24 million gallons per day of wastewater. It serves Bloomington, Eagan and Burnsville. The plant provides primary and secondary treatment to wastewater before discharging it into the Minnesota River. Seneca Plant sludge is incinerated on site. Also, approximately 90-95% of the sludge from the Blue Lake Plant is incinerated at the Seneca Plant. (See Operations Department - Empire Plant for activities common to all plants.) In addition to the usual plant activities, the Seneca Plant manages a special odor reduction

OPERATIONS DEPARTMENT - SENECA PLANT (041) - (Cont.)

Description: (Continued)

program necessary for continued good community relations between MWCC and the City of Eagan.

Resources Required: \$4,763,053

Work Hours Required: 97,300

OPERATIONS DEPARTMENT - BLUE LAKE PLANT (042)

Description:

The Blue Lake Plant has a design capacity to treat 20 million gallons per day of wastewater. It serves Chanhassen, Deephaven, Eden Prairie, Excelsior, Greenwood, Laketown Township, Long Lake, Maple Plain, Minnetonka, Minnetonka Beach, Minnetrista, Mound, Orono, Prior Lake, St. Bonifacius, Shakopee, Shorewood, Spring Park, Tonka Bay, Victoria, Waconia and Wayzata. The plant provides primary and secondary treatment to wastewater and chlorinates the effluent before discharging it into the Minnesota River. Sludge is thickened and transported to either the Seneca Plant or Third & Commercial Street for further treatment and incineration. (See Operations Department - Empire Plant for activities common to all plants)

Resources Required: \$2,399,323

Work Hours Required: 62,698

OPERATIONS DEPARTMENT - CHASKA PLANT (043)

Description:

At present, the Chaska Plant has a design capacity to treat approximately 1.4 million gallons per day of wastewater. The plant is operating near capacity and is being expanded to a 2.8 million gallons per day facility. It serves the City of Chaska. The plant provides primary and secondary treatment to wastewater before discharging it into the Minnesota River. Sludge is transported to either the Seneca Plant or Third & Commercial Street for disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$337,379

Work Hours Required: 8,155

OPERATIONS DEPARTMENT - ANOKA PLANT (044)

Description:

The Anoka Plant has a design capacity to treat 2.46 million gallons per day of wastewater. It serves the communities of Anoka, Champlin and Ramsey. The plant provides primary and secondary treatment to wastewater before discharging it into the Mississippi River. Sludge is transported to the Metro Plant for disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$334,666

Work Hours Required: 9,604

OPERATIONS DEPARTMENT - BAYPORT PLANT (045)

Description:

The Bayport Plant has a design capacity to treat 0.65 million gallons per day of wastewater. It serves the community of Bayport. The plant provides primary and secondary treatment to wastewater plus removal of phosphorous before discharging the effluent into the St. Croix River. Sludge is transported to the Metro Plant for disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$268,982

Work Hours Required: 6,861

OPERATIONS DEPARTMENT - COTTAGE GROVE PLANT (046)

Description:

The Cottage Grove Plant has a design capacity to treat 1.8 million gallons per day of wastewater. It serves the community of Cottage Grove. The plant provides primary and secondary treatment to wastewater before discharging it into the Mississippi River. Sludge is applied to farmland or transported to the Metro Plant for disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$414,296

Work Hours Required: 11,531

OPERATIONS DEPARTMENT - HASTINGS PLANT (047)

Description:

The Hastings Plant has a design capacity to treat 2.34 million gallons per day of wastewater. It serves the community of Hastings. The plant provides primary and secondary treatment to wastewater before discharging it into the Mississippi River. Sludge is applied to farmland or transported to the Metro Plant for disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$477,405

Work Hours Required: 11,581

OPERATIONS DEPARTMENT - STILLWATER PLANT (048)

Description:

The Stillwater Plant has a design capacity to treat 3.0 million gallons per day of wastewater. It serves the communities of Stillwater and Oak Park Heights. The plant provides primary and secondary treatment to wastewater plus the removal of phosphorous from the effluent before discharging it into the St. Croix River. Sludge is transported to the Metro Plant for disposal. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$487,042

Work Hours Required: 12,931

OPERATIONS DEPARTMENT - ROSEMOUNT PLANT (050)

Description:

The Rosemount Plant currently has a design capacity to treat 0.6 million gallons per day of wastewater. It serves the community of Rosemount. The Rosemount Plant is different from all the other MWCC plants in that it is a physical-chemical plant. This means that chemicals are used to remove pollutants in the treatment process. (Biological treatment processes are used at the other MWCC treatment plants.) The plant provides primary and

OPERATIONS DEPARTMENT - ROSEMOUNT PLANT (050) - (Cont.)

Description: (Continued)

secondary treatment to wastewater and removal of phosphorous from the effluent before discharging it to the Mississippi River. Sludge is transported to the Metro Plant for additional treatment and disposal. The Rosemount Plant is being replaced by a construction project scheduled for completion in early 1989. The replacement plant will be an aerated pond plant with a design capacity of 0.705 million gallons per day. Secondary treatment will be maintained, but phosphorous removal will no longer be required or accomplished. Effluent will continue to be discharged to the Mississippi River. No sludge will be produced at the replacement plant. (See Operations Department - Empire Plant for activities common to all plants.)

Resources Required: \$309,756

Work Hours Required: 5,816

OPERATIONS DEPARTMENT - OPERATIONS ADMINISTRATION (051)

Description:

Operations Department Administration provides resources for the overall management of the entire Department and establishes central management of training activities within the Department.

Resources Required: \$305,511

Work Hours Required: 9,000

OPERATIONS DEPARTMENT - PROCESS ASSURANCE (052)

Description:

Process Assurance is a technical services section of the Operations Department which works with managers and technical staff in the Operations, Planning, Engineering/Construction and Quality Control Departments. Technical services include:

- 1) Assisting the Operations Department with permit compliance;
- 2) Providing wastewater treatment plants with process control engineering services to insure permit compliance and practical, cost-effective and environmentally sound operation;

OPERATIONS DEPARTMENT - PROCESS ASSURANCE (052) - (Cont.)

Description: (Continued)

- 3) Implementing a residual solids management program; and
- 4) Planning, designing and coordinating construction of capital improvement projects between the Operations Department, Planning and Engineering/Construction Departments.

Resources Required: \$210,232

Work Hours Required: 7,600

ENG./CONSTRUCTION DEPARTMENT - ENGINEERING/CONSTRUCTION SERVICES (053)

Description:

The Engineering/Construction Department is responsible for:

- 1) Providing engineering and construction management services for the design and construction of projects designed in-house and funded by the MWCC'S operating budget;
- 2) Providing engineering and construction management services for projects designed and constructed under special agreements;
- 3) Providing engineering and construction management services for sewer connections;
- 4) Providing engineering services for investigation and miscellaneous planning of projects funded by MWCC's capital budget; and
- 5) Providing resources to record land and easements in the name of MWCC.

Resources Required: \$393,267

Work Hours Required: 15,490

OPERATIONS DEPARTMENT - REGIONAL FACILITIES (054)

Description:

The Operations Department is responsible for supporting MWCC's Regional Facilities. Technical support and coordination is provided during design, construction and start-up of new projects and during inspection/rehabilitation of interceptor sewers.

Resources Required: \$562,833

Work Hours Required: 12,184

SUMMARY STATEMENT OF PROGRAM EXPENDITURES

		<u>Proposed 1989</u>	<u>Budget 1988</u>	<u>Actual 1987</u>
5010	Salaries & Wages	\$ 34,025,105	\$ 32,733,988	\$ 32,124,710
5020	Employee Benefits	7,825,777	7,201,477	7,277,281
5040	Travel - Out of State	29,080	27,995	19,508
5041	Travel - Local	24,126	21,130	15,348
5042	Auto Allowance	9,000	9,000	9,000
5045	Recruitment	22,000	22,000	9,375
5046	Public Hearings	6,661	6,808	325
5050	Commission-Per Diem	38,400	38,000	31,850
5051	Commission-Other	3,354	3,354	2,307
5060	Office Rent	554,200	429,295	403,873
5070	Educational Assistance	352,557	355,305	367,069
5075	Budget Reserve	500,000	500,000	0
5080	Safety	77,792	44,900	32,797
5085	Medical Aids	18,761	16,139	13,959
5090	Cont. Serv. - Data Proc.	408,944	468,614	130,005
5091	Cont. Serv. - Admin.	74,500	81,636	42,178
5092	Cont. Serv. - Auditing	46,200	42,005	39,210
5093	Cont. Serv. - Engin.	468,000	648,000	0
5094	Cont. Serv. - Lab.	84,395	171,383	58,452
5095	Cont. Serv. - Laundry	220,271	123,249	127,900
5096	Cont. Serv. - Legal	100,000	60,000	33,948
5097	Cont. Serv. - Maint.	1,669,490	1,704,240	1,485,417
5098	Cont. Serv. - Oper.	1,015,360	1,438,440	482,287
5099	Cont. Serv. - Xerox	116,593	106,499	99,369
5100	Cont. Serv. - Sldg. Remvl.	35,597	112,007	392,054
5101	Cont. Serv. - Janitorial	169,160	170,095	128,426
5102	Cont. Serv. - Other	2,321,533	2,142,912	1,495,301
5200	Materials & Supplies	1,282,855	1,218,661	1,549,329
5210	Maint. Materl. & Supp.	3,610,434	3,249,319	2,924,543
5300	Office Supplies	148,817	114,116	117,263
5310	Publications	50,320	72,315	36,479
5320	Postage	38,245	36,230	31,031
5330	Office Equip. Repair	6,800	5,477	4,384
5340	Advertising	10,500	10,636	10,427
5350	Dues & Subscriptions	43,583	26,984	24,603
5370	Flood Control	27,460	10,000	0
5390	Council Participation	119,000	369,600	106,163
5500	Motor Vehicle Expense	700,632	657,937	551,125
5600	Permit Fees	161,740	149,590	99,566

		<u>Proposed 1989</u>	<u>Budget 1988</u>	<u>Actual 1987</u>
5620	Intcp. Rental Contract	\$ 17,813	\$ 128,427	\$ 104,435
5630	Intcp. Maint. Contract	112,000	106,500	80,301
5700	Insurance - Auto	174,398	210,670	222,701
5701	Insurance - Blanket Bond	1,760	1,760	1,191
5702	Insurance - Bldg. & Prop.	264,000	323,703	221,000
5703	Insurance - Gen. Liab.	170,011	118,762	147,756
5704	Insurance - Work. Comp.	1,310,000	1,160,000	2,146,525
5705	Insurance - Exc. Liab.	81,972	82,500	92,120
5706	Insurance - Other	4,108	4,108	3,200
5800	Utilities - Electric	8,425,258	8,356,853	7,643,667
5801	Utilities - Fuel	83,399	84,532	22,142
5802	Utilities - Gas	1,482,703	1,510,955	1,218,993
5803	Utilities - Water	114,404	161,215	101,923
5850	Utilities - Phone	226,552	153,210	164,997
5851	Utilities - Lease Line	176,335	177,058	148,469
5900	Chemicals - Ferr. Chlor.	2,846	7,477	10,188
5901	Chemicals - Potassium	195,000	165,000	133,321
5902	Chemicals - Lime	5,977	33,760	42,144
5903	Chemicals - Other	1,056,498	793,854	654,256
5904	Chemicals Polymers	1,390,520	1,058,300	941,729
5905	Chemicals - Acid	60,508	49,365	27,723
5940	Chemicals - Chlorine	370,559	360,312	267,928
5999	Miscellaneous	106,270	38,166	48,767
6010	Debt Serv.-Local Gov't.	948,038	1,100,033	1,162,786
6020	Debt Serv.-Met. Council	32,017,247	31,522,477	27,382,304
6100	Acquisition Costs	3,992,546	4,168,118	4,156,833
6200	Capital Outlay	<u>1,292,036</u>	<u>1,873,164</u>	<u>1,389,308</u>
		<u>\$110,500,000</u>	<u>\$108,349,615</u>	<u>\$ 98,813,569</u>

PROGRAM DETAIL COSTS

CHIEF ADMINISTRATOR'S OFFICE (001)

5010	Salaries & Wages	\$ 277,037
5020	Employee Benefits	63,719
5040	Travel - Out of State	3,000
5041	Travel - Local	500
5042	Auto Allowance	5,400
5046	Public Hearings	1,500
5060	Office Rent	492,000
5070	Educational Assistance	2,000
5091	Cont. Serv. - Admin.	25,000
5200	Materials & Supplies	3,000
5350	Dues & Subscriptions	14,000
5390	Council Participation	119,000
5999	Miscellaneous	12,704
Total		<u>\$1,018,860</u>

BOARD OF COMMISSIONERS (002)

5010	Salaries & Wages	\$ 86,402
5020	Employee Benefits	19,872
5040	Travel - Out of State	10,000
5041	Travel - Local	3,310
5042	Auto Allowance	3,600
5046	Public Hearings	5,000
5050	Commission - Per Diem	38,400
5051	Commission - Other	3,354
5070	Educational Assistance	9,000
5102	Cont. Serv. - Other	14,000
5999	Miscellaneous	2,657
6200	Capital Outlay	4,000
Total		<u>\$199,595</u>

OFFICE OF LEGAL COUNSEL (003)

5010	Salaries & Wages	\$ 80,045
5020	Employee Benefits	18,410
5040	Travel - Out of State	3,200
5041	Travel - Local	200
5070	Educational Assistance	750
5096	Cont. Serv. - Legal	100,000
5200	Materials & Supplies	100
5310	Publications	1,220
5350	Dues & Subscriptions	330
5999	Miscellaneous	100
Total		<u>\$204,355</u>

OFFICE OF PUBLIC & COMMUNITY RELATIONS (004)

5010	Salaries & Wages	\$119,861
5020	Employee Benefits	27,568
5041	Travel - Local	552
5046	Public Hearings	161
5070	Educational Assistance	3,803
5102	Cont. Serv. - Other	24,000
5200	Materials & Supplies	30,000
5310	Publications	30,000
5320	Postage	2,000
5350	Dues & Subscriptions	1,251
5999	Miscellaneous	1,638
6200	Capital Outlay	2,000
Total		<u>\$242,834</u>

OFFICE OF HEALTH & SAFETY (005)

5010	Salaries & Wages	\$ 240,720
5020	Employee Benefits	55,366
5070	Educational Assistance	2,025
5085	Medical Aids	15,200
5090	Cont. Serv. - Data Proc.	1,400
5102	Cont. Serv. - Other	50,700
5200	Materials & Supplies	20,300
5350	Dues & Subscriptions	4,000
5500	Motor Vehicle Expense	8,060
5704	Insurance - Wkrs. Comp.	1,310,000
6200	Capital Outlay	13,000
Total		<u>\$1,720,771</u>

PLANNING ADMINISTRATION (006)

5010	Salaries & Wages	\$ 94,518
5020	Employee Benefits	21,739
5040	Travel - Out of State	800
5041	Travel - Local	46
5070	Educational Assistance	2,900
5200	Materials & Supplies	500
5350	Dues & Subscriptions	500
5500	Motor Vehicle Expense	1,000
5999	Miscellaneous	200
6200	Capital Outlay	2,000
Total		<u>\$124,203</u>

CAPITAL PROJECTS PLANNING (007)

5010	Salaries & Wages	\$29,870
5020	Employee Benefits	6,870
5040	Travel - Out of State	640
5041	Travel - Local	230
5070	Educational Assistance	3,700
5200	Materials & Supplies	2,800
5999	Miscellaneous	250
6200	Capital Outlay	<u>5,051</u>
	Total	<u>\$49,411</u>

MUNICIPAL SERVICES PLANNING (008)

5010	Salaries & Wages	\$235,294
5020	Employee Benefits	54,118
5041	Travel - Local	230
5070	Educational Assistance	2,750
5200	Materials & Supplies	4,540
5350	Dues & Subscriptions	200
5999	Miscellaneous	<u>200</u>
	Total	<u>\$297,332</u>

SPECIAL PROJECTS PLANNING (009)

5010	Salaries & Wages	\$37,091
5020	Employee Benefits	8,531
5040	Travel - Out of State	2,200
5070	Educational Assistance	1,500
5330	Office Equipment Repair	200
6200	Capital Outlay	<u>1,500</u>
	Total	<u>\$51,022</u>

COMPREHENSIVE PLANNING (010)

5010	Salaries & Wages	\$109,938
5020	Employee Benefits	25,286
5040	Travel - Out of State	1,290
5041	Travel - Local	360
5070	Educational Assistance	2,320
5090	Cont. Serv. - Data Proc.	16,000
5350	Dues & Subscriptions	9,750
5999	Miscellaneous	<u>220</u>
	Total	<u>\$165,164</u>

QUALITY CONTROL ADMINISTRATION (011)

5010	Salaries & Wages	104,971
5020	Employee Benefits	24,143
5040	Travel - Out of State	500
5070	Educational Assistance	1,163
5200	Materials & Supplies	3,000
5310	Publications	500
5350	Dues & Subscriptions	500
5999	Miscellaneous	1,000
6200	Capital Outlay	<u>13,500</u>
	Total	<u>\$149,277</u>

INDUSTRIAL WASTE (012)

5010	Salaries & Wages	\$701,340
5020	Employee Benefits	161,308
5041	Travel - Local	100
5070	Educational Assistance	3,998
5090	Cont. Serv. - Data Proc.	4,500
5097	Cont. Serv. - Maint.	1,500
5200	Materials & Supplies	20,000
5300	Office Supplies	3,000
5500	Motor Vehicle Expense	5,100
5999	Miscellaneous	1,100
6200	Capital Outlay	<u>23,420</u>
	Total	<u>\$925,366</u>

RESEARCH & DEVELOPMENT (013)

5010	Salaries & Wages	\$ 395,671
5020	Employee Benefits	91,004
5040	Travel - Out of State	3,000
5060	Office Rent	49,000
5070	Educational Assistance	13,000
5080	Safety	1,000
5090	Cont. Serv. - Data Proc.	350
5094	Cont. Serv. - Lab.	33,950
5097	Cont. Serv. - Maint.	16,500
5099	Cont. Serv. - Xerox	755
5102	Cont. Serv. - Other	120,400
5200	Materials & Supplies	91,590
5300	Office Supplies	4,750
5310	Publications	7,900
5350	Dues & Subscriptions	1,500
5500	Motor Vehicle Expense	1,505
6200	Capital Outlay	<u>190,150</u>
	Total	<u>\$1,022,025</u>

WATER QUALITY MONITORING & ANALYSIS (014)

5010	Salaries & Wages	\$363,140
5020	Employee Benefits	83,522
5070	Educational Assistance	2,250
5090	Cont. Serv. - Data Proc.	7,000
5097	Cont. Serv. - Maint.	6,800
5102	Cont. Serv. - Other	39,000
5200	Materials & Supplies	21,000
5210	Maint. Materials & Supplies	12,500
5500	Motor Vehicle Expense	2,500
5851	Utilities - Lease Line	8,500
6200	Capital Outlay	<u>26,000</u>
Total		<u>\$572,212</u>

LAB SERVICES (015)

5010	Salaries & Wages	\$1,171,069
5020	Employee Benefits	269,347
5041	Travel - Local	276
5070	Educational Assistance	5,445
5080	Safety	4,400
5094	Cont. Serv. - Lab.	49,945
5095	Cont. Serv. - Laundry	14,259
5097	Cont. Serv. - Maint.	42,688
5099	Cont. Serv. - Xerox	12,917
5101	Cont. Serv. - Janitorial	35,160
5102	Cont. Serv. - Other	30,944
5200	Materials & Supplies	147,983
5300	Office Supplies	10,042
5310	Publications	1,000
5350	Dues & Subscriptions	2,200
5500	Motor Vehicle Expense	3,050
6200	Capital Outlay	<u>76,180</u>
Total		<u>\$1,876,905</u>

AIR QUALITY MONITORING (016)

5010	Salaries & Wages	\$147,114
5020	Employee Benefits	33,837
5060	Office Rent	13,200
5070	Educational Assistance	1,215
5097	Cont. Serv. - Maint.	650
5102	Cont. Serv. - Other	55,750
5200	Materials & Supplies	26,410
5500	Motor Vehicle Expense	400
6200	Capital Outlay	<u>20,090</u>
Total		<u>\$298,666</u>

PERMITS ADMIN. & MONITORING (017)

5010	Salaries & Wages	\$100,868
5020	Employee Benefits	23,200
5070	Educational Assistance	1,275
5090	Cont. Serv. - Data Proc.	250
5094	Cont. Serv. - Lab.	500
5102	Cont. Serv. - Other	26,000
5300	Office Supplies	500
5310	Publications	600
5600	Permit Fees	<u>161,740</u>
Total		<u>\$314,933</u>

ADMINISTRATIVE SERVICES ADMINISTRATION (018)

5010	Salaries & Wages	\$100,285
5020	Employee Benefits	23,066
5041	Travel - Local	100
5070	Educational Assistance	5,000
5102	Cont. Serv. - Other	10,000
5200	Materials & Supplies	500
5310	Publications	1,000
5350	Dues & Subscriptions	600
5999	Miscellaneous	<u>500</u>
Total		<u>\$141,051</u>

BUSINESS SERVICES (019)

5010	Salaries & Wages	\$160,342
5020	Employee Benefits	36,879
5070	Educational Assistance	2,700
5099	Cont. Serv. - Xerox	71,500
5102	Cont. Serv. - Other	25,000
5320	Postage	35,000
5350	Dues & Subscriptions	525
5850	Utilities - Phone	<u>41,500</u>
Total		<u>\$373,446</u>

HUMAN RESOURCES (020)

5010	Salaries & Wages	\$196,274
5020	Employee Benefits	45,143
5045	Recruitment	12,000
5070	Educational Assistance	3,830
5102	Cont. Serv. - Other	87,150
5200	Materials & Supplies	4,360
5310	Publications	2,000
5340	Advertising	9,000
5999	Miscellaneous	1,000
6200	Capital Outlay	<u>2,000</u>
Total		<u>\$362,757</u>

LABOR RELATIONS (021)

5010	Salaries & Wages	\$22,557
5020	Employee Benefits	5,188
5070	Educational Assistance	2,500
5091	Cont. Serv. - Admin.	49,500
5350	Dues & Subscriptions	<u>300</u>
Total		<u>\$80,045</u>

PROCUREMENT (022)

5010	Salaries & Wages	\$157,202
5020	Employee Benefits	36,156
5070	Educational Assistance	2,254
5102	Cont. Serv. - Other	9,600
5300	Office Supplies	59,000
5330	Office Equipment Repair	2,000
5340	Advertising	1,500
5350	Dues & Subscriptions	450
5500	Motor Vehicle Expense	7,020
6200	Capital Outlay	<u>600</u>
Total		<u>\$275,782</u>

INSURANCE - PLANNING (023)

5010	Salaries & Wages	\$
5020	Employee Benefits	
5070	Educational Assistance	850
5200	Materials & Supplies	100
5350	Dues & Subscriptions	250
5700	Insurance - Auto	174,398
5701	Insurance - Blanket Bond	1,760
5702	Insurance - Bldg. & Prop.	264,000
5703	Insurance - General Liab.	170,011
5705	Insurance - Exc. Liab.	81,972
5706	Insurance - Other	4,108
5999	Miscellaneous	32,124
6200	Capital Outlay	<u>1,500</u>
Total		<u>\$731,073</u>

CONTROLLER'S ADMINISTRATION (024)

5010	Salaries & Wages	\$ 79,281
5020	Employee Benefits	18,235
5070	Educational Assistance	4,000
5350	Dues & Subscriptions	1,100
5999	Miscellaneous	1,500
6200	Capital Outlay	<u>1,500</u>
Total		<u>\$105,616</u>

ACCOUNTING AND COLLECTIONS (025)

5010	Salaries & Wages	\$118,064
5020	Employee Benefits	27,155
5041	Travel - Local	230
5090	Cont. Serv. - Data Proc.	18,000
5092	Cont. Serv. - Auditing	<u>46,200</u>
Total		<u>\$209,649</u>

DISBURSEMENTS (026)

5010	Salaries & Wages	\$109,230
5020	Employee Benefits	25,123
5070	Educational Assistance	1,000
5300	Office Supplies	2,500
5999	Miscellaneous	300
6200	Capital Outlay	<u>500</u>
Total		<u>\$138,653</u>

PAYROLL (027)

5010	Salaries & Wages	\$136,029
5020	Employee Benefits	31,287
5070	Educational Assistance	2,500
5090	Cont. Serv. - Data Proc.	16,800
5102	Cont. Serv. - Other	3,200
5300	Office Supplies	5,525
5350	Dues & Subscriptions	655
6200	Capital Outlay	200
	Total	\$196,196

DEBT SERVICES - CASH/FISCAL MGMT. (028)

5010	Salaries & Wages	\$ 60,145
5020	Employee Benefits	13,833
5041	Travel - Local	300
5070	Educational Assistance	2,200
5200	Materials & Supplies	450
5350	Dues & Subscriptions	350
5999	Miscellaneous	150
6010	Debt Serv. - Loc. Gov't.	948,038
6020	Debt Serv. - Met Council	32,017,247
6100	Acquisition Costs	3,992,546
6200	Capital Outlay	2,500
	Total	\$37,037,759

AFFIRMATIVE ACTION (029)

5010	Salaries & Wages	\$101,100
5020	Employee Benefits	23,253
5040	Travel - Out of State	2,850
5041	Travel - Local	222
5045	Recruitment	10,000
5070	Educational Assistance	2,303
5102	Cont. Serv. - Other	75,000
5200	Materials & Supplies	5,000
5350	Dues & Subscriptions	1,000
5500	Motor Vehicle Expense	250
5999	Miscellaneous	1,254
6200	Capital Outlay	1,200
	Total	\$223,432

CAREER DEVELOPMENT/TRAINING (030)

5041	Travel - Local	\$ 800
5102	Cont. Serv. - Other	40,500
5200	Materials & Supplies	1,500
5310	Publications	300
5999	Miscellaneous	200
	Total	\$43,300

INFORMATION TECHNOLOGIES (031)

5010	Salaries & Wages	\$ 522,307
5020	Employee Benefits	120,131
5041	Travel - Local	6,750
5070	Educational Assistance	55,895
5090	Cont. Serv. - Data Proc.	330,244
5093	Cont. Serv. - Engineering	468,000
5097	Cont. Serv. - Maint.	301,139
5102	Cont. Serv. - Other	498,500
5200	Materials & Supplies	150,000
5300	Office Supplies	2,000
5310	Publications	1,000
5500	Motor Vehicle Expense	3,000
5850	Utilities - Phone	63,600
5999	Miscellaneous	400
6200	Capital Outlay	153,264
	Total	\$2,676,230

ASH DISPOSAL (032)

5102	Cont. Serv. - Other	\$884,682
	Total	\$884,682

REGULATOR SYSTEM (033)

5010	Salaries & Wages	\$190,711
5020	Employee Benefits	43,864
5041	Travel - Local	100
5070	Educational Assistance	250
5085	Medical Aids	50
5095	Cont. Serv. - Laundry	2,200
5097	Cont. Serv. - Maint.	16,000
5200	Materials & Supplies	15,000
5210	Maint. Materials & Suppl.	23,800
5300	Office Supplies	200
5500	Motor Vehicle Expense	22,000
5800	Utilities - Electric	7,800
5851	Leased Lines	16,000
5999	Miscellaneous	100
6200	Capital Outlay	19,400
	Total	\$357,475

INTERCEPTOR ADMINISTRATION (034)

5010	Salaries & Wages	\$247,856
5020	Employee Benefits	57,007
5040	Travel - Out of State	600
5041	Travel - Local	200
5070	Educational Assistance	6,000
5097	Cont. Serv. - Maint.	13,000
5098	Cont. Serv. - Operations	1,000
5099	Cont. Serv. - Xerox	1,000
5200	Materials & Supplies	6,000
5300	Office Supplies	1,100
5310	Publications	600
5330	Office Equip. Repair	1,500
5500	Motor Vehicle Expense	18,500
6200	Capital Outlay	6,800
	Total	\$361,163

INTERCEPTOR SYSTEM MAINTENANCE (035)

5010	Salaries & Wages	\$149,592
5020	Employee Benefits	34,406
5041	Travel - Local	1,000
5070	Educational Assistance	1,565
5085	Medical Aids	200
5095	Cont. Serv. - Laundry	2,750
5097	Cont. Serv. - Maint.	50,400
5102	Cont. Serv. - Other	9,300
5200	Materials & Supplies	38,100
5210	Maint. Materials & Suppl.	25,000
5300	Office Supplies	1,600
5500	Motor Vehicle Expense	24,000
5620	Intcp. Rental Contract	17,813
5630	Intcp. Maint. Contract	112,000
5999	Miscellaneous	100
6200	Capital Outlay	4,800
	Total	\$472,626

LIFT STATIONS (036)

5010	Salaries & Wages	\$1,070,648
5020	Employee Benefits	246,249
5041	Travel - Local	400
5070	Educational Assistance	3,450
5085	Medical Aids	400
5095	Cont. Serv. - Laundry	11,100
5097	Cont. Serv. - Maint.	85,300
5102	Cont. Serv. - Other	12,600
5200	Materials & Supplies	83,000
5210	Maint. Materials & Suppl.	120,000
5300	Office Supplies	3,500
5500	Motor Vehicle Expenses	58,000
5800	Utilities - Electric	640,000
5802	Utilities - Gas	34,000

LIFT STATIONS (036) - (Cont.)

5803	Utilities - Water	8,000
5850	Utilities - Phone	20,000
5851	Utilities - Lease Line	42,100
5999	Miscellaneous	500
6200	Capital Outlay	55,600
	Total	\$2,494,847

METERING STATIONS (037)

5010	Salaries & Wages	\$ 573,255
5020	Employee Benefits	131,849
5041	Travel - Local	300
5070	Educational Assistance	2,625
5085	Medical Aids	200
5095	Cont. Serv. - Laundry	3,434
5097	Cont. Serv. - Maint.	68,000
5102	Cont. Serv. - Other	1,065
5200	Materials & Supplies	34,700
5210	Maint. Materials & Suppl.	60,125
5300	Office Supplies	500
5500	Motor Vehicle Expense	26,600
5800	Utilities - Electric	35,900
5851	Utilities - Lease Line	103,700
6200	Capital Outlay	53,900
	Total	\$1,096,153

EMPIRE PLANT (038)

5010	Salaries & Wages	\$1,100,580
5020	Employee Benefits	253,133
5041	Travel - Local	1,518
5070	Educational Assistance	2,912
5080	Safety	22,600
5085	Medical Aids	495
5090	Cont. Serv. - Data Proc.	14,400
5095	Cont. Serv. - Laundry	6,957
5097	Cont. Serv. - Maint.	73,800
5098	Cont. Serv. - Operations	9,600
5099	Cont. Serv. - Xerox	360
5100	Cont. Serv. - Sldg. Rem.	8,990
5102	Cont. Serv. - Other	2,760
5200	Materials & Supplies	32,800
5210	Maint. Materials & Suppl.	83,000
5300	Office Supplies	3,000
5310	Publications	200
5320	Postage	381
5330	Office Equip. Repair	350
5500	Motor Vehicle Expense	26,000
5800	Utilities - Electric	232,980
5801	Utilities - Fuel	50,000
5802	Utilities - Gas	2,000
5850	Utilities - Phone	3,908

EMPIRE PLANT (038) - (Cont.)

5903	Chemicals - Other	1,500
5904	Chemicals - Polymers	42,120
5940	Chemicals - Chlorine	5,160
5999	Miscellaneous	1,700
6200	Capital Outlay	<u>14,354</u>
Total		<u>\$1,997,558</u>

METRO PLANT OPERATIONS (039)

5010	Salaries & Wages	\$12,045,467
5020	Employee Benefits	2,770,457
5041	Travel - Local	1,000
5070	Educational Assistance	70,280
5080	Safety	39,250
5095	Cont. Serv. - Laundry	84,584
5098	Cont. Serv. - Operations	860,000
5099	Cont. Serv. - Xerox	21,050
5101	Cont. Serv. - Janitorial	20,000
5102	Cont. Serv. - Other	229,757
5200	Materials & Supplies	401,800
5300	Office Supplies	25,000
5330	Office Equipment Repair	1,900
5370	Flood Control	27,460
5500	Motor Vehicle Expense	69,980
5800	Utilities - Electric	6,515,950
5802	Utilities - Gas	888,200
5803	Utilities - Water	68,400
5850	Utilities - Phone	54,395
5903	Chemicals - Other	881,980
5904	Chemicals - Polymers	1,054,500
5905	Chemicals - Acid	57,330
5940	Chemicals - Chlorine	212,070
5999	Miscellaneous	5,000
6200	Capital Outlay	<u>147,201</u>
Total		<u>\$26,553,011</u>

METRO MAINTENANCE (040)

5010	Salaries & Wages	\$ 6,731,415
5020	Employee Benefits	1,548,225
5041	Travel - Local	1,000
5070	Educational Assistance	70,212
5095	Cont. Serv. - Laundry	62,990
5097	Cont. Serv. - Maint.	620,000
5099	Cont. Serv. - Xerox	1,200
5102	Cont. Serv. - Other	1,000
5210	Maint. Materials & Suppl.	2,741,700
5300	Office Supplies	14,000
5500	Motor Vehicle Expense	80,000

METRO MAINTENANCE (040) - (Cont.)

5999	Miscellaneous	31,000
6200	Capital Outlay	<u>282,891</u>
Total		<u>\$12,185,633</u>

METRO MAINTENANCE WAREHOUSE (40A)

5010	Salaries & Wages	\$262,876
5020	Employee Benefits	60,461
5070	Educational Assistance	3,000
5097	Const. Serv. - Maint.	15,000
5099	Const. Serv. - Xerox	150
5101	Const. Serv. - Janitorial	55,000
5102	Const. Serv. - Other	3,200
5200	Materials & Supplies	14,700
5300	Office Supplies	3,000
5999	Miscellaneous	500
6200	Capital Outlay	<u>87,300</u>
Total		<u>\$505,187</u>

SENECA PLANT (041)

5010	Salaries & Wages	\$2,048,653
5020	Employee Benefits	471,190
5041	Travel - Local	750
5070	Educational Assistance	5,900
5085	Medical Aids	800
5095	Cont. Serv. - Laundry	11,260
5097	Cont. Serv. - Maint.	221,550
5098	Cont. Serv. - Operations	143,200
5099	Cont. Serv. - Xerox	1,200
5101	Cont. Serv. - Janitorial	21,000
5200	Materials & Supplies	57,400
5210	Maint. Materials & Suppl.	365,500
5300	Office Supplies	6,100
5330	Office Equipment Repair	250
5350	Dues & Subscriptions	1,200
5500	Motor Vehicle Expense	5,000
5800	Utilities - Electric	322,200
5801	Utilities - Fuel	22,145
5802	Utilities - Gas	442,400
5803	Utilities - Water	5,800
5850	Utilities - Phone	4,500
5901	Chemicals - Potassium	195,000
5903	Chemicals - Other	15,000
5904	Chemicals - Polymers	293,900
5940	Chemicals - Chlorine	86,355
5999	Miscellaneous	4,000
6200	Capital Outlay	<u>10,800</u>
Total		<u>\$4,763,053</u>

BLUE LAKE PLANT (042)

5010	Salaries & Wages	\$1,323,427
5020	Employee Benefits	304,388
5041	Travel - Local	690
5070	Educational Assistance	2,805
5085	Medical Aids	326
5095	Cont. Serv. - Laundry	9,693
5097	Cont. Serv. - Maint.	25,775
5099	Cont. Serv. - Xerox	2,575
5102	Cont. Serv. - Other	7,200
5200	Materials & Supplies	31,200
5210	Maint. Materials & Suppl.	51,400
5300	Office Supplies	1,200
5320	Postage	264
5330	Office Equipment Repair	100
5350	Dues & Subscriptions	372
5500	Motor Vehicle Expense	247,000
5800	Utilities - Electric	282,880
5801	Utilities - Fuel	300
5802	Utilities - Gas	31,750
5803	Utilities - Water	25,000
5850	Utilities - Phone	9,340
5903	Chemicals - Other	300
5940	Chemicals - Chlorine	36,738
5999	Miscellaneous	600
6200	Capital Outlay	4,000

Total \$2,399,323

CHASKA PLANT (043)

5010	Salaries & Wages	\$151,866
5020	Employee Benefits	34,929
5041	Travel - Local	69
5070	Educational Assistance	50
5095	Cont. Serv. - Laundry	1,035
5097	Cont. Serv. - Maint.	3,400
5102	Cont. Serv. - Other	1,285
5200	Materials & Supplies	2,850
5210	Maint. Materials & Suppl.	8,300
5500	Motor Vehicle Expense	1,430
5800	Utilities - Electric	58,000
5801	Utilities - Fuel	200
5803	Utilities - Water	1,300
5850	Utilities - Phone	780
5851	Utilities - Lease Line	720
5903	Chemicals - Other	67,800
5940	Chemicals - Chlorine	3,265
5999	Miscellaneous	100

Total \$337,379

ANOKA PLANT (044)

5010	Salaries & Wages	\$170,725
5020	Employee Benefits	39,267
5070	Educational Assistance	312
5095	Cont. Serv. - Laundry	1,156
5097	Cont. Serv. - Maint.	3,918
5100	Cont. Serv. - Sldg. Removal	107
5102	Cont. Serv. - Other	2,500
5200	Materials & Supplies	3,370
5300	Office Supplies	7,500
5500	Motor Vehicle Expense	8,600
5800	Utilities - Electric	71,873
5801	Utilities - Fuel	3,254
5803	Utilities - Water	2,847
5850	Utilities - Phone	970
5851	Utilities - Lease Line	973
5903	Chemicals - Other	4,950
5940	Chemicals - Chlorine	10,205
5999	Miscellaneous	139
6200	Capital Outlay	2,000

Total \$334,666

BAYPORT PLANT (045)

5010	Salaries & Wages	\$130,120
5020	Employee Benefits	29,928
5041	Travel - Local	100
5070	Educational Assistance	1,000
5080	Safety	100
5095	Cont. Serv. - Laundry	1,050
5097	Cont. Serv. - Maint.	6,270
5100	Cont. Serv. - Sldg. Rem.	2,000
5102	Cont. Serv. - Other	8,640
5200	Materials & Supplies	1,902
5210	Maint. Materials & Suppl.	9,609
5500	Motor Vehicle Expense	11,441
5800	Utilities - Electric	34,570
5801	Utilities - Fuel	1,500
5802	Utilities - Gas	3,935
5803	Utilities - Water	1,327
5850	Utilities - Phone	735
5851	Utilities - Lease Line	740
5903	Chemicals - Other	14,000
5940	Chemicals - Chlorine	1,225
5999	Miscellaneous	177
6200	Capital Outlay	8,613

Total \$268,982

COTTAGE GROVE PLANT (046)

5010	Salaries & Wages	\$ 217,538
5020	Employee Benefits	50,034
5041	Travel - Local	100
5070	Educational Assistance	1,090
5085	Medical Aids	200
5095	Cont. Serv. - Laundry	1,473
5097	Cont. Serv. - Maint.	12,000
5100	Cont. Serv. - Sldg. Rem.	5,000
5102	Cont. Serv. - Other	7,500
5200	Materials & Supplies	3,000
5210	Maint. Materials & Suppl.	30,000
5500	Motor Vehicle Expense	12,000
5800	Utilities - Electric	35,550
5801	Utilities - Fuel	2,000
5802	Utilities - Gas	15,000
5850	Utilities - Phone	800
5851	Utilities - Lease Line	450
5903	Chemicals - Other	4,000
5940	Chemicals - Chlorine	7,348
5999	Miscellaneous	600
6200	Capital Outlay	<u>8,613</u>
Total		<u>\$ 414,296</u>

STILLWATER PLANT (048)

5010	Salaries & Wages	\$243,563
5020	Employee Benefits	56,019
5041	Travel - Local	250
5070	Educational Assistance	1,792
5085	Medical Aids	200
5095	Cont. Serv. - Laundry	2,236
5097	Cont. Serv. - Maint.	10,000
5100	Cont. Serv. - Sldg. Rem.	1,500
5102	Cont. Serv. - Other	7,080
5200	Materials & Supplies	3,000
5210	Maint. Materials & Suppl.	25,000
5500	Motor Vehicle Expense	24,000
5800	Utilities - Electric	32,000
5801	Utilities - Fuel	2,000
5802	Utilities - Gas	10,000
5850	Utilities - Phone	1,030
5851	Utilities - Lease Line	760
5903	Chemicals - Other	55,000
5940	Chemicals - Chlorine	2,499
5999	Miscellaneous	500
6200	Capital Outlay	<u>8,613</u>
Total		<u>\$ 487,042</u>

HASTINGS PLANT (047)

5010	Salaries & Wages	\$218,852
5020	Employee Benefits	50,336
5041	Travel - Local	250
5070	Educational Assistance	2,280
5085	Medical Aids	300
5095	Cont. Serv. - Laundry	3,091
5097	Cont. Serv. - Maint.	15,000
5099	Cont. Serv. - Xerox	1,386
5100	Cont. Serv. - Sldg. Rem.	5,000
5102	Cont. Serv. - Other	10,020
5200	Materials & Supplies	5,000
5210	Maint. Materials & Suppl.	40,000
5300	Office Supplies	1,000
5320	Postage	100
5330	Office Equip. Repair	250
5350	Dues & Subscriptions	150
5500	Motor Vehicle Expense	20,196
5800	Utilities - Electric	53,980
5801	Utilities - Fuel	2,000
5802	Utilities - Gas	25,870
5803	Utilities - Water	794
5850	Utilities - Phone	2,803
5851	Utilities - Lease Line	1,392
5903	Chemicals - Other	4,000
5940	Chemicals - Chlorine	4,082
5999	Miscellaneous	657
6200	Capital Outlay	<u>8,616</u>
Total		<u>\$477,405</u>

ROSEMOUNT PLANT (050)

5010	Salaries & Wages	\$116,110
5020	Employee Benefits	26,705
5041	Travel - Local	713
5070	Educational Assistance	1,085
5080	Safety	7,542
5085	Medical Aids	290
5095	Cont. Serv. - Laundry	1,003
5097	Cont. Serv. - Maint.	8,900
5098	Cont. Serv. - Oper.	1,560
5100	Cont. Serv. - Sldg. Rem.	13,000
5102	Cont. Serv. - Other	300
5200	Materials & Supplies	6,900
5210	Maint. Materials & Suppl.	7,000
5500	Motor Vehicle Expense	1,500
5800	Utilities - Electric	78,400
5802	Utilities - Gas	9,892
5850	Utilities - Phone	975
5851	Utilities - Lease Line	1,000
5900	Chemicals - Ferr. Chlor.	2,846
5902	Chemicals - Lime	5,977
5903	Chemicals - Other	7,968
5905	Chemicals - Acid	3,178
5940	Chemicals - Chlorine	1,612
5999	Miscellaneous	300
6200	Capital Outlay	<u>5,000</u>
Total		<u>\$309,756</u>

OPERATIONS ADMINISTRATION (051)

5010	Salaries & Wages	\$226,429
5020	Employee Benefits	52,079
5040	Travel - Out of State	1,000
5041	Travel - Local	100
5070	Educational Assistance	10,523
5500	Motor Vehicle Expense	6,000
5999	Miscellaneous	1,000
6200	Capital Outlay	<u>8,380</u>
	Total	<u>\$305,511</u>

PROCESS ASSURANCE (052)

5010	Salaries & Wages	\$161,221
5020	Employee Benefits	37,081
5041	Travel - Local	230
5070	Educational Assistance	6,300
5102	Cont. Serv. - Other	1,500
5200	Materials & Supplies	1,500
5300	Office Supplies	600
5999	Miscellaneous	800
6200	Capital Outlay	<u>1,000</u>
	Total	<u>\$210,232</u>

ENGINEERING/CONSTRUCTION SERVICES (053)

5010	Salaries & Wages	\$316,477
5020	Employee Benefits	72,790
5102	Cont. Serv. - Other	<u>4,000</u>
	Total	<u>\$393,267</u>

REGIONAL FACILITIES (054)

5010	Salaries & Wages	\$269,959
5020	Employee Benefits	62,091
5041	Travel - Local	1,150
5070	Educational Assistance	15,000
5080	Safety	3,000
5097	Cont. Serv. - Maint.	51,900
5099	Cont. Serv. - Xerox	2,500
5101	Cont. Serv. - Janit.	38,000
5102	Cont. Serv. - Other	17,400
5200	Materials & Supplies	7,500
5300	Office Supplies	700
5310	Publications	4,000
5320	Postage	500
5330	Office Equip. Repair	250
5350	Dues & Subscriptions	2,400
5500	Motor Vehicle Expense	6,500
5800	Utilities - Electric	23,175
5802	Utilities - Gas	19,656
5803	Utilities - Water	936
5850	Utilities - Phone	21,216
5999	Miscellaneous	1,000
6200	Capital Outlay	<u>14,000</u>
	Total	<u>\$562,833</u>

BUDGET RESERVE (055)

5075	Budget Reserve	<u>\$500,000</u>
	Total	<u>\$500,000</u>

SUMMARY OF DEBT SERVICE

	<u>Proposed 1989</u>	<u>Budget 1988</u>	<u>Actual 1987</u>
Treatment Works	\$22,004,735	\$22,089,909	\$20,499,623
Interceptor System			
Service Areas:			
1. Minneapolis-St. Paul	4,350,932	4,311,003	2,962,392
2. North Suburban	2,113,552	2,228,344	1,781,657
3. Anoka	679,028	685,169	631,475
4. Southwest	2,394,428	1,909,410	1,436,470
5. Bloomington-Eagan-Burnsville	813,910	781,089	661,472
6. Southeast	<u>608,700</u>	<u>617,586</u>	<u>577,897</u>
TOTALS	<u>\$32,965,285</u>	<u>\$32,622,510</u>	<u>\$28,549,986</u>

**METRO COUNCIL DEBT SERVICE REQUIREMENTS FOR 1989 BUDGET
(INCLUDES REPAYMENT OF REFUNDING ADVANCE)**

<u>Description</u>	<u>Amount</u>
Required Fund Balance 10/1/88	\$54,572,632
Less: Debt Service Payments 10/2/88 - 10/1/89	<u>32,743,683</u>
Balance (Debt Service Payments) 11/1/89 - 10/1/90	21,828,949
Required Balance October 1, 1989	54,867,115
Balance Due Met Council by 10/1/89	<u>\$33,038,166</u>
Add: For \$35 Million Issue 6/1/88	2,505,700
Subtract for 1984 Series 1984A Bonds that were refunded and escrowed in 1988 Net of New Refunding Issue Debt Service	(1,336,750)
Less: Interest to be earned October 1, 1989 through September 30, 1990	(3,005,188)
Revised Amount due Met Council 10/1/89	31,201,928
Add: Repayment of Construction Fund Loan for advance of 1988 Refunding of 1984A Bonds	815,319
Principal \$674,502 Interest 135,829	
Program Budget Requirement	<u>\$32,017,247</u>

Apportioned to:

<u>Cost Pool</u>	<u>Capital Improvements</u>	<u>% of Debt Service</u>	<u>Amount</u>
Treatment Works	\$555,589,930	67.7240%	\$21,683,348
Service Area 1	105,690,812	12.8832%	4,124,860
Service Area 2	51,353,836	6.2598%	2,004,217
Service Area 3	17,292,413	2.1079%	674,882
Service Area 4	59,647,149	7.207%	2,327,886
Service Area 5	15,665,184	1.9095%	611,375
Service Area 6	15,134,907	1.8449%	590,679
<u>TOTALS</u>	<u>\$820,374,231</u>	<u>1</u>	<u>\$32,017,247</u>

Local Government Debt Service 1989

Service Area 1 - Minneapolis-St. Paul

	<u>Treatment Works</u>	<u>Interceptors</u>	<u>Total</u>
Birchwood	\$	\$ 579.00	\$
Forest Lake Township	2,417.00		
Little Canada		70,288.62	
Oakdale		49,623.00	
Plymouth		9,576.00	
St. Paul		46,987.28	
Shoreview*		26,582.85	
White Bear Lake		6,829.00	
Woodbury		15,606.00	
	<u>\$ 2,417.00</u>	<u>\$ 226,071.75</u>	<u>\$228,488.75</u>

Service Area 2 - North Suburban

Shoreview*	\$	\$ 16,292.72	\$
Circle Pines		2,241.33	
Coon Rapids		33,143.00	
New Brighton		54,877.00	
Spring Lake Park		2,781.00	
	<u>\$</u>	<u>\$ 109,335.05</u>	<u>\$109,335.05</u>

Service Area 3 - Anoka

Anoka	\$41,743.00	\$	\$
Champlin		4,146.47	
	<u>\$41,743.00</u>	<u>\$ 4,146.47</u>	<u>\$ 45,889.47</u>

* Located in 2 Service Areas

Service Area 4 - Southwest

	<u>Treatment Works</u>	<u>Interceptors</u>	<u>Total</u>
Deephaven	\$	\$ 15,742.88	\$
Greenwood		2,930.66	
Long Lake	9,009.00		
Medina	4,198.00		
Minnetrista		29,095.73	
Mound	19,788.11	18,773.19	
Savage	10,211.00		
	<u>\$43,206.11</u>	<u>\$ 66,542.46</u>	<u>\$109,748.57</u>

Service Area 5 - Bloomington/Eagan/Burnsville

Burnsville	\$	\$ 166,909.00	\$
Eagan	<u>3,654.18</u>	<u>35,626.00</u>	
	<u>\$ 3,654.18</u>	<u>\$ 202,535.00</u>	<u>\$206,189.18</u>

Service Area 6 - Southeast

Apple Valley	\$10,583.48	\$ 18,020.52	\$
Cottage Grove	3,548.93		
Hastings	40,700.00		
Inver Grove Heights	14,193.00		
Lakeville	8,575.00		
Newport	4,908.00		
Oak Park Heights	15,063.00		
South St. Paul	132,795.00		
	<u>\$230,366.41</u>	<u>\$ 18,020.52</u>	<u>\$ 248,386.93</u>
GRAND TOTAL	<u>\$321,386.70</u>	<u>\$ 626,651.25</u>	<u>\$ 948,037.95</u>

1989
SUMMARY OF ACQUISITION COSTS

Treatment Works	\$ 577,065
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Interceptor System

Service Areas:

1. Minneapolis - St. Paul	2,838,993
2. North Suburban	201,238
3. Anoka	489
4. Southwest	74,057
5. Bloomington-Eagan-Burnsville	296,774
6. Southeast	<u>3,930</u>
TOTAL	<u>\$3,992,546</u>

1989
LOCAL GOVERNMENT CURRENT VALUE CREDIT

Anoka	\$ 15,901	Forest Lake Twp.	\$ 53
Apple Valley	6,083	Fridley	26,965
Arden Hills	11,924	Golden Valley	131,187
Bayport	7,673	Greenwood	1,401
Birchwood		Hastings	14,284
Blaine		Hilltop	42
Bloomington		Hopkins	27,454
Brooklyn Cen		Inver Grove Heights	1,435
Brooklyn Park	60,157	Lakeville	8,255
Burnsville	103,123	Landfall	354
Champlin	1,025	Lauderdale	1,222
Chanhassen	1,858	Lexington	586
Chaska	7,075	Little Canada	2,345
Circle Pines	1,006	Long Lake	1,028
Columbia Heights	22,272	Mahtomedi	2,870
Coon Rapids	25,209	Maple Plain	6,818
Cottage Grove	5,537	Maplewood	23,902
Crystal	42,343	Medicine Lake	1,408
Deephaven	11,620	Medina	38
Eagan	27,418	Mendota Heights	33,553
Eden Prairie	3,494	Minneapolis	1,426,356
Edina	61,020	Minnetonka	16,639
Excelsior	3,521	Minnetrista	543
Falcon Heights	2,204	Mound	10,344
Farmington	10,999	Mounds View	3,561
Forest Lake	8,807		

1989
LOCAL GOVERNMENT CURRENT VALUE CREDIT

Anoka	\$ 15,901	Forest Lake Twp.	\$ 53
Apple Valley	6,083	Fridley	26,965
Arden Hills	11,924	Golden Valley	131,187
Bayport	7,673	Greenwood	1,401
Birchwood	257	Hastings	14,284
Blaine	7,352	Hilltop	42
Bloomington	200,659	Hopkins	27,454
Brooklyn Center	14,581	Inver Grove Heights	1,435
Brooklyn Park	60,157	Lakeville	8,255
Burnsville	103,123	Landfall	354
Champlin	1,025	Lauderdale	1,222
Chanhassen	1,858	Lexington	586
Chaska	7,075	Little Canada	2,345
Circle Pines	1,006	Long Lake	1,028
Columbia Heights	22,272	Mahtomedi	2,870
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Excelsior	3,521	Minnetrista	543
Falcon Heights	2,204	Mound	10,344
Farmington	10,999	Mounds View	3,561
Forest Lake	8,807		

Local Government Current Value Credit (continued)

New Brighton	\$ 66,360	Tonka Bay	\$ 1,684
New Hope	46,523	Vadnais Heights	195
Newport	595	Victoria	2,535
North St. Paul	30,968	Waconia	15,245
Oakdale	1,150	Wayzata	22,674
Oak Park Heights	39	West St. Paul	7,376
Orono	33,988	White Bear Lake	41,047
Osseo	14,928	White Bear Township	2,173
Plymouth	217	Willernie	1,053
Prior Lake	2,459	Woodbury	<u>2,647</u>
Richfield	133,042		
Robbinsdale	5,150	TOTAL	<u>\$3,992,546</u>
Rosemount	4,372		
Roseville	93,959		
St. Anthony	8,778		
St. Louis Park	78,231		
St. Paul	869,117		
St. Paul Park	7,394		
Savage	1,872		
Shakopee	9,064		
Shoreview	23,227		
Shorewood	391		
South St. Paul	41,712		
Spring Lake Park	3,183		
Spring Park	2,926		
Stillwater	10,511		

ALLOCATION OF CURRENT USE COSTS

<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Lake Overflow Adjustments</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Andover	152	\$	128,401.18	\$ 15,577.80	\$ 143,978.98
Anoka	735		620,887.28	163,857.74	784,745.02
Apple Valley	995		840,520.88	58,998.68	899,519.56
Arden Hills	440		371,687.62	26,421.30	398,108.92
Bayport	220		185,843.81	.00	185,843.81
Birchwood	32		27,031.83	1,921.55	28,953.38
Blaine	1,076		908,945.19	110,274.40	1,019,219.59
Bloomington	3,773		3,187,221.38	228,354.03	3,415,575.41
Brooklyn Center	1,178		995,109.14	70,737.02	1,065,846.16
Brooklyn Park	1,840		1,554,330.06	188,573.32	1,742,903.38
Burnsville	1,790		1,512,092.83	108,336.53	1,620,429.36
Centerville	39		32,945.04	3,996.93	36,941.97
Champlin	370		312,555.50	55,987.17	368,542.67
Chanhassen	385		325,226.67	68,959.85	394,186.52
Chaska	420		354,792.73	.00	354,792.73
Circle Pines	155		130,935.41	15,885.25	146,820.66
Columbia Heights	600		506,846.76	36,029.04	542,875.80
Coon Rapids	1,345		1,136,181.49	137,843.00	1,274,024.49
Cottage Grove	600		506,846.76	.00	506,846.76
Crystal	925		781,388.76	55,544.77	836,933.53
Deephaven	144		121,643.22	25,792.78	147,436.00
Eagan	1,945		1,643,028.25	117,717.62	1,760,745.87
Eden Prairie	1,590		1,343,143.91	284,795.24	1,627,939.15
Edina	2,790		2,356,837.43	167,535.04	2,524,372.47
Empire Township	22		18,584.38	1,302.91	19,887.29
Excelsior	105		88,698.18	18,807.23	107,505.41
Falcon Heights	436		368,308.65	26,181.10	394,489.75
Farmington	370		312,555.50	21,912.62	334,468.12
Forest Lake	290		244,975.93	17,414.04	262,389.97
Forest Lake Twp.	125		105,593.08	7,506.05	113,099.13
Fridley	1,420		1,199,537.33	119,218.41	1,318,755.74
Gem Lake	9		7,602.70	540.44	8,143.14
Golden Valley	1,330		1,123,510.32	79,864.37	1,203,374.69
Greenfield	4		3,378.98	716.47	4,095.45
Greenwood	22		18,584.38	3,940.56	22,524.94
Hastings	620		523,741.65	.00	523,741.65
Hilltop	31		26,187.08	1,861.50	28,048.58
Hopkins	805		680,019.40	49,291.50	729,310.90
Hugo	50		42,237.23	3,002.42	45,239.65

<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Lake Overflow Adjustments</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Independence	7		\$ 5,913.21	\$ 1,253.82	\$ 7,167.03
Inver Grove Heights	535		451,938.36	31,684.47	483,622.83
Lake Elmo	1		844.74	60.05	904.79
Laketown Township	21		17,739.64	3,761.45	21,501.09
Lakeville	875		739,151.53	51,841.18	790,992.71
Landfall	23		19,429.13	1,381.11	20,810.24
Lauderdale	78		65,890.08	4,683.78	70,573.86
Lexington	53		44,771.46	5,431.73	50,203.19
Lilydale	29		24,497.59	1,741.40	26,238.99
Lino Lakes	55		46,460.95	5,636.70	52,097.65
Little Canada	370		312,555.50	22,217.91	334,773.41
Long Lake	115		97,145.63	20,598.40	117,744.03
Mahtomedi	125		105,593.08	7,506.05	113,099.13
Maple Grove	1,090		920,771.61	111,709.20	1,032,480.81
Maple Plain	95		80,250.74	17,016.07	97,266.81
Maplewood	1,720		1,452,960.71	103,283.25	1,556,243.96
Medicine Lake	14		11,826.42	840.68	12,667.10
Medina	70		59,132.12	9,856.07	68,988.19
Mendota	6		5,068.47	360.29	5,428.76
Mendota Heights	510		430,819.75	30,624.68	461,444.43
Minneapolis	23,900		20,189,395.94	1,435,156.76	21,624,552.70
Minnetonka	2,190		1,849,990.67	392,265.14	2,242,255.81
Minnetonka Beach	26		21,963.36	4,657.03	26,620.39
Minnetrista	69		58,287.38	12,359.04	70,646.42
Mound	370		312,555.50	66,273.11	378,828.61
Mounds View	488		412,235.36	50,012.92	462,248.28
New Brighton	886		748,443.72	90,802.15	839,245.87
New Hope	1,050		886,981.83	63,050.82	950,032.65
Newport	124		104,748.33	7,343.69	112,092.02
North Oaks	17		14,360.66	1,020.82	15,381.48
North St. Paul	575		485,728.15	34,527.83	520,255.98
Oakdale	725		612,439.84	43,535.09	655,974.93
Oak Park Heights	137		115,730.01	8,113.59	123,843.60
Orono	214		180,775.34	38,330.93	219,106.27
Osseo	110		92,921.91	11,273.41	104,195.32
Plymouth	2,350		1,985,149.81	141,113.74	2,126,263.55
Prior Lake	425		359,016.46	76,124.51	435,140.97
Ramsey	22		18,584.38	4,904.59	23,488.97
Richfield	900		760,270.14	54,043.56	814,313.70

<u>Local Government</u>	<u>Est. Flow (MG)</u>	<u>Lake Overflow Adjustments</u>	<u>Treatment Works</u>	<u>Service Area</u>	<u>Total</u>
Robbinsdale	495		\$ 418,148.58	\$ 29,723.96	\$ 447,872.54
Rosemount	171		144,451.33	10,127.18	154,578.51
Roseville	1,730		1,461,408.16	103,883.73	1,565,291.89
St. Anthony	350		295,660.61	21,016.94	316,677.55
St. Bonifacius	35		29,566.06	6,269.08	35,835.14
St. Louis Park	2,430		2,052,729.38	145,917.61	2,198,646.99
St. Paul	16,950		14,318,422.48	1,017,820.38	15,336,242.86
St. Paul Park	152		128,401.18	9,001.94	137,403.12
Savage	297		250,889.15	17,975.39	268,864.54
Shakopee	935		789,836.20	167,473.93	957,310.13
Shoreview	855		722,256.63	59,828.80	782,085.43
Shorewood	275		232,304.77	49,257.04	281,561.81
South St. Paul	1,890		1,596,567.29	111,932.04	1,708,499.33
Spring Lake Park	226		190,912.28	23,161.72	214,074.00
Spring Park	115		97,145.63	20,598.40	117,744.03
Stillwater	890		751,822.69	.00	751,822.69
Stillwater Twp.	1		844.74	.00	844.74
Tonka Bay	59		49,839.93	10,567.87	60,407.80
Vadnais Heights	315		266,094.55	18,915.25	285,009.80
Victoria	80		67,579.57	14,329.32	81,908.89
Waconia	170		143,606.58	30,449.81	174,056.39
Wayzata	255		215,409.87	45,674.71	261,084.58
West St. Paul	1,020		861,639.49	61,249.37	922,888.86
White Bear Lake	855		722,256.63	51,341.38	773,598.01
White Bear Township	310		261,870.83	18,615.00	280,485.83
Willernie	16		13,515.91	960.77	14,476.68
Woodbury	750		633,558.45	45,036.30	678,594.75
TOTAL			\$85,467,036.40	\$ 7,352,223.62	\$92,819,260.02

Construction Fund - Revenues & Expenditures

FUND BALANCE - December 31, 1987

\$25,771,690

REVENUES:

Certified Federal Grants (Schedule 8)	\$5,961,776	
Contingency Reserve for Final Audits	<u>750,000</u>	
Net Certified Federal Grants		\$ 5,211,776
Certified State Grants (Schedule 9)		16,087,933
Investment Income (Schedule 10)		1,950,000
Miscellaneous		50,000
Bond Sale 5/9/88		<u>33,300,000</u>
Total Estimated Revenues		\$56,599,709

EXPENDITURES:

Previously Authorized Projects--		
Encumbered & Unencumbered Balance	\$152,468,405	
Additional Requested Appropriations (Schedule 11)	<u>106,296,884</u>	
Previously Authorized Projects		\$258,759,289
New Projects Requested (Schedule 13)		<u>7,400,000</u>
Total Estimated Expenditures		\$266,159,289
Local Funds Applied (Expenditures-Revenues)		\$209,559,580
Estimated Bonding Required (Local Funds Applied - Fund Balance)		\$183,787,890

SCHEDULE 7

CERTIFIED FEDERAL GRANTS

<u>Project No.</u>	<u>Grant</u>	<u>Project</u>	<u>Total Grants Receivable</u>	<u>Received As Of 12/31/87</u>	<u>Balance Due</u>	<u>Estimated Amount 1988</u>	<u>Estimated Amount 1989</u>
74-01(407)	000-05	MMWTP Sludge Incinerator	\$ 7,195,713	7,058,361	137,352	137,352	—
74-01(408)	000-06	MMWTP Sludge Processing	56,653,725	56,652,975	750	750	—
75-01	999-01	Facilities Planning	1,225,772	1,209,668	16,104	16,104	—
76-07	100-02	MMWTP Retrofit Process Control Step III	10,194,600	9,448,641	745,959	745,959	—
82-56	097-01	MMWTP Screen & Grit Rehab.	3,140,555	2,951,392	189,163	189,163	—
82-57	097-02	MMWTP Primary Settling Tank Rehab.	5,103,725	4,573,997	529,728	529,728	—
82-58	097-03	MMWTP Secondary Treatment Rehab.	2,168,925	2,090,013	78,912	78,912	—
82-59	005-01	Blue Lake Sludge Thick. Facil.	2,220,570	2,151,354	69,216	69,216	—
87-56	123-91000	Blue Lake River Siphon	5,000,000	805,408	4,194,592	4,194,592	—
TOTALS			<u>\$92,903,585</u>	<u>\$86,941,809</u>	<u>\$5,961,776</u>	<u>\$5,961,776</u>	—

CERTIFIED STATE GRANTS

<u>Project No.</u>	<u>Grant</u>	<u>Project</u>	<u>Total Grants Receivable</u>	<u>Received As Of 12/31/87</u>	<u>Balance Due</u>	<u>Estimated Amount 1988</u>	<u>Est. Amount After 1988</u>
74-01(407)	000-05	MMWTP Sludge Incinerator	\$ 1,439,143	1,411,672	27,471	27,471	—
74-01(408)	000-06	MMWTP Sludge Processing	11,330,745	11,330,595	150	150	—
75-01	999-01	Facilities Planning	245,154	241,933	3,221	3,221	—
76-07	100-02	MMWTP Retrofit Process Control	2,038,920	1,889,728	149,192	149,192	—
82-55	150-01	Mpls. East Interceptor	17,827,317	2,935,200	14,892,117	2,320,000	12,572,117
82-58	097-03	MMWTP Secondary Treatment Rehab.	433,785	418,003	15,782	15,782	—
87-56	123-91000	Blue Lake River Siphon	1,000,000	—	1,000,000	1,000,000	—
TOTALS			<u>\$34,315,064</u>	<u>\$18,227,131</u>	<u>\$16,087,933</u>	<u>\$3,515,816</u>	<u>\$12,572,117</u>

SUMMARY OF INVESTMENT INCOME

Investment earnings for period
January through December, 1988
based on average investment balance
of \$15 million and yield of 6.5% 975,000

Investment earnings for period
January through December, 1989
based on average investment balance
of \$15 million and yield of 6.5% 975,000

TOTAL: \$1,950,000

1989 PROJECTS - ADDITIONAL APPROPRIATIONS - AS OF NOVEMBER 18, 1988

Program Number	Project Description	Step Apprvl	Appropriated By Met Council Thru 12/31/88	Additional 1989 Appropriation Requested	Total Requested Appropriations Thru 12/31/89	Expenditures Dec. 31, 1987	Encumbered Balance	Unencumbered Balance
7207	MTCE & Dispatch Bldg.	III	\$ 2,850,000	\$ (40,000)	\$ 2,810,000	\$ 2,735,855	\$ 0	\$ 74,145
7401407	MWWTP - Sludge Process	III	11,800,066	(40,066)	11,760,000	11,734,574	0	25,426
7401408	MWWTP - Sludge Bldg.	III	101,605,000	(300,000)	101,305,000	101,076,026	0	228,974
7501	Residual Solids Mgmt.	I	1,874,798	0	1,874,798	1,780,000	0	94,798
7510	Eng. Serv. NPDES Permit	I	195,000	(30,000)	165,000	126,621	0	38,379
7607	MWWTP - Retrofit Proc.	III	17,750,000	0	17,750,000	15,486,527	54,801	2,208,672
7655	Combined Sewer Study	I	3,258,600	(160,000)	3,098,600	3,003,966	0	94,634
7705	Lower Beltline Inter.	III	4,150,000	(350,000)	3,800,000	3,741,957	0	58,043
7801	Future System Config.	I	724,363	(195,000)	529,363	502,989	0	26,374
7906	Hastings WWT Expansion	III	9,513,625	0	9,513,625	9,307,107	0	206,518
7980	MWWTP Addl. Secondary	III	21,036,775	(200,000)	20,836,775	20,753,921	0	82,854
7997	Grants Administration	I	465,000	100,000	565,000	334,000	0	231,000
7998	Engr./Const. Overhead	I	3,149,007	999,510	4,148,517	1,915,168	0	2,233,349
8151	Lake Gervais Interceptor	III	6,885,000	(350,000)	6,535,000	6,520,244	0	14,756
8163	Planning Prog. Budg. Sys	I	969,000	(100,000)	869,000	562,000	0	307,000
8252	CAB Interceptor	III	17,320,000	0	17,320,000	16,272,422	0	1,047,578
8253	Lake Ann Interceptor	III	15,700,000	0	15,700,000	2,057,014	11,600,000	2,042,986
8253343	Excelsior Lift Station	III	1,500,000	0	1,500,000	1,154,037	0	345,963
8254	Interceptor Rehab.	II,III	100,000	(80,000)	20,000	5,001	0	14,999
8255	Mpls. East Interceptor	III	41,000,000	0	41,000,000	27,920,972	6,075,488	7,003,540
8256	MWWTP Screen & Grit	III	8,540,000	(790,000)	7,750,000	6,134,624	93,000	1,522,376
8257	MWWTP Primary Treatment	III	12,035,000	(350,000)	11,685,000	9,433,482	426,000	1,825,518
8258	MWWTP Secondary Treat.	III	4,515,000	0	4,515,000	4,059,831	0	455,169
8259	Blue Lake Plant Sludge	III	4,800,000	(300,000)	4,500,000	4,390,845	0	109,155
8351	Chaska Plant Improvement	III	4,650,000	(300,000)	4,350,000	3,946,384	210,000	193,616
8352	Maple Plain Interceptor	III	2,625,000	(150,000)	2,475,000	2,400,420	0	74,580
8353	Minnesota River Study	I	175,000	0	175,000	99,910	0	75,090
8354	MWWTP Energy Study	I	235,000	0	235,000	37,000	0	198,000
8355	MWWTP Fire Detection	III	625,000	2,375,000	3,000,000	23,137	0	2,976,863
8356	Lift Station Elec. Sys.	I	175,000	(160,000)	15,000	1,525	0	13,475
8357	Meter Lift Station Alarm	III	5,000,000	0	5,000,000	2,389,224	1,316,000	1,294,776
8358	MWWTP Disinfection	III	5,735,000	0	5,735,000	5,477,448	0	257,552
8361	Lino Lake 2nd Interceptor	III	450,000	(100,000)	350,000	307,698	0	42,302
8365	Misc. Capital Improvements	III	3,300,188	(150,000)	3,150,188	3,092,470	10,350	47,368
8451	New Brighton Interceptor	III	1,625,000	0	1,625,000	1,496,009	89,000	39,991

1989 PROJECTS - ADDITIONAL APPROPRIATIONS - AS OF NOVEMBER 18, 1988

Program Number	Project Description	Step Apprvl	Appropriated By Met Council Thru 12/31/88	Additional 1989 Appropriation Requested	Total Requested Appropriations Thru 12/31/89	Expenditures Dec. 31, 1987	Encumbered Balance	Unencumbered Balance
8551	Rosemount Plant Replacement	III	\$ 5,300,000	\$(1,000,000)	\$ 4,300,000	\$ 207,000	\$ 0	\$ 4,093,000
8552	Seneca Sludge Handle	II	5,400,000	(500,000)	4,900,000	213,033	0	4,686,967
8553	Metro Plant Water Imp.	III	450,000	0	450,000	45,099	0	404,901
8554	Blue Lake Plant Expansion	II	3,000,000	52,900,000	55,900,000	249,439	0	55,650,561
8555	Empire Plant Expansion	III	15,850,000	3,250,000	19,100,000	357,649	0	18,742,351
8556	Metro Plant Studies	I	1,700,000	0	1,700,000	672,000	1,400	1,026,600
8557	Seneca Plant Study	II	5,000,000	51,400,000	56,400,000	646,585	1,600	55,751,815
8558	SA 1 Study for Reg. Sys.	I	100,000	0	100,000	380	0	99,620
8559	Meter Station Improvements	III	3,500,000	0	3,500,000	133,962	0	3,366,038
8560	Savage Interceptor	III	6,000,000	(300,000)	5,700,000	2,858,360	2,375,640	466,000
8561	Metro Lab Modifications	III	821,000	0	821,000	784,629	0	36,371
8562	Metro Plant Ash Basin	II	800,000	(764,560)	35,440	35,440	0	0
8563	Lakeville Lift Station	III	1,500,000	0	1,500,000	723,883	312,075	464,042
8565	Misc. Capital Improvement	III	1,200,000	0	1,200,000	1,053,175	39,300	107,525
8566	Middle Beltline Inter.	III	22,300,000	(600,000)	21,700,000	15,982,059	5,006,000	711,941
8567	Orono Interceptor Improv.	III	2,400,000	600,000	3,000,000	284,005	4,995,941	(2,279,946)
8568	Eagan Interceptor	III	1,590,000	0	1,590,000	658,486	711,500	220,014
8653	Stillwater Plant Expansion	II	1,000,000	1,000,000	2,000,000	10,800	0	1,989,200
8654	Mpls. 38th Street Inter.	III	1,500,000	0	1,500,000	1,407,803	590,600	(498,403)
8655	Plymouth Interceptor	III	9,500,000	500,000	10,000,000	717,558	0	9,282,442
8656	Blaine Interceptor	II	1,700,000	(1,690,000)	10,000	359	0	9,641
8658	Joint Interceptor Rehab.	I	250,000	(240,000)	10,000	5,339	0	4,661
8659	Joint Interceptor Access	II	125,000	25,000	150,000	89,874	0	60,126
8660	Trout Brook Interceptor	III	8,500,000	1,000,000	9,500,000	747,106	0	8,752,894
8665	Misc. Capital Improvement	III	4,000,000	0	4,000,000	984,926	0	3,015,074
8751	Anoka WWTP Phaseout	II	300,000	0	300,000	1,000	0	299,000
8752	MWWTP Effluent Pump	III	200,000	520,000	720,000	20,000	0	700,000
8753	Planning - Capital	I	2,110,000	861,000	2,971,000	451,000	0	2,520,000
8754	Mpls. - East Phase II	III	24,000,000	0	24,000,000	0	0	24,000,000
8755	MWWTP - RBS Improvement	III	1,250,000	0	1,250,000	5,000	0	1,245,000
8756	Blue Lake Siphon	III	7,500,000	0	7,500,000	5,792,660	0	1,707,340
8851	Trout Brook N.W.	III	210,000	0	210,000	0	0	210,000
8865	Misc. Capital Improvements	III	2,500,000	0	2,500,000	0	0	2,500,000

TOTALS

\$457,887,422

\$106,290,884

\$564,178,306

\$305,419,017

\$33,908,695

\$224,850,594

Project Title Regional Maintenance & Dispatch Building Number 72-07

Project Description:

Consists of the design and construction of a 34,000 square foot building to provide for a centralized maintenance and computer center.

Project Status

Authorization: Included in the Waste Management Plan as a previously approved system improvement.

Step I: Completed.

Step II: Completed.

Step III: Completed.

Objectives for 1989: To finalize project.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 2,735,855
Balance Required	74,145
Total Funds Required	<u>2,810,000</u>
1988 Capital Budget	2,850,000
1988 Budget Amendments	0
Total 1988 Approved Budget	<u>2,850,000</u>
Additional 1989 Funds Requested	<u>(40,000)</u>
1989 Capital Budget	<u>\$ 2,810,000</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ _____	\$ _____	\$ 2,735,855	\$ 2,735,855
1988	_____	_____	40,000	40,000
First Quarter 1989	_____	_____	5,000	5,000
Second Quarter 1989	_____	_____	_____	_____
Third Quarter 1989	_____	_____	_____	_____
Fourth Quarter 1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
1993	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	29,145	29,145
Total	_____	_____	<u>2,810,000</u>	<u>2,810,000</u>

Project Title MWWTP Sludge Processing EquipmentNumber 74-01-407Project Description:

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

Project Status

Authorization: Included in the Waste Management Policy Plan as a previously approved system improvement project.

Step I: Completed.

Step II: Completed.

Step III: Completed.

Objectives for 1989: Close out the project.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 11,734,574
Balance Required	25,426
Total Funds Required	<u>11,760,000</u>
1988 Capital Budget	<u>11,800,066</u>
1988 Budget Amendments	<u>0</u>
Total 1988 Approved Budget	<u>11,800,066</u>
Additional 1989 Funds Requested	<u>(40,066)</u>
1989 Capital Budget	<u>11,760,000</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ 7,058,361	\$ 1,411,672	\$ 3,264,541	\$ 11,734,574
1988	<u>137,352</u>	<u>27,471</u>	<u>(159,823)</u>	<u>5,000</u>
First Quarter 1989			<u>5,000</u>	<u>5,000</u>
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			<u>15,426</u>	<u>15,426</u>
Total	<u>7,195,713</u>	<u>1,439,143</u>	<u>3,125,144</u>	<u>11,760,000</u>

Project Title MWWTP Sludge Processing BuildingNumber 74-01-408Project 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 the sludge processing building includes rotary sludge dryers, gas cleaning systems, waste heat boilers and incinerator modifications. Remaining improvements consist of installation of silencers and a study on the incinerator emissions.

Project Status:

Authorization: Included in the Waste Management Policy Plan as a previously approved system improvement project.

Step I: Completed

Step II: Completed

Step III: Completed

Objectives for 1989: Resolve pending appeal on grant eligible items for construction grant findings. Complete installation of silencers.

Objectives for Future Years

1990 - Review study on emissions and close out the project.

1991 - N/A

1992 - N/A

1993 - N/A

Rationale for
Additional AppropriationAppropriations

Expenditures to 12/31/87	\$ 101,076,026
Balance Required	228,974
Total Funds Required	<u>101,305,000</u>
1988 Capital Budget	101,605,000
1988 Budget Amendments	0
Total 1988 Approved Budget	<u>101,605,000</u>
Additional 1989 Funds Requested	<u>(300,000)</u>
1989 Capital Budget	<u>\$ 101,305,000</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ 56,652,975	\$ 11,330,595	\$ 33,092,456	\$ 101,076,026
1988	750	150	49,100	50,000
First Quarter 1989			10,000	10,000
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			168,974	168,974
Total	<u>56,653,725</u>	<u>11,330,745</u>	<u>33,320,530</u>	<u>101,305,000</u>

Project Description:

The objective of the study is to develop a technically, economically and environmentally acceptable system for the reuse and/or disposal of residual solids, such as ash, grit, screenings and sludge from all the Commission's treatment plants. Immediate ash and sludge disposal needs will be analyzed and alternatives for a long-range system will be refined, including the determination of the viability of economically marketed heat dried sludge.

Project Status

Authorization: This project included in the Waste Management Policy Plan as a study.

Step I:

Step II:

Step III:

Objectives for 1989: To complete a study of residual solids management needs for facilities other than the Metropolitan, Blue Lake and Seneca Plants.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 1,780,000
Balance Required	94,798
Total Funds Required	<u>1,874,798</u>
1988 Capital Budget	<u>1,874,798</u>
1988 Budget Amendments	<u>0</u>
Total 1988 Approved Budget	<u>1,874,798</u>
Additional 1989 Funds Requested	<u>0</u>
1989 Capital Budget	<u>\$ 1,874,798</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ 1,209,668	\$ 241,933	\$ 328,399	\$ 1,780,000
1988	<u>16,104</u>	<u>3,221</u>	<u>(9,325)</u>	<u>10,000</u>
First Quarter 1989			<u>5,000</u>	<u>5,000</u>
Second Quarter 1989			<u>30,000</u>	<u>30,000</u>
Third Quarter 1989			<u>30,000</u>	<u>30,000</u>
Fourth Quarter 1989			<u>15,000</u>	<u>15,000</u>
1990				
1991				
1992				
1993				
Estimated Contingency Funds			<u>4,798</u>	<u>4,798</u>
Total	<u>1,225,772</u>	<u>245,154</u>	<u>403,872</u>	<u>1,874,798</u>

Project Description:

The MPCA, in accordance with the terms of PL 92-500, Water Pollution Control Act Amendments, 1972, has issued NPDES permits for each of the treatment plants under the jurisdiction of the MWCC. The permits for the plants which remain as permanent facilities will require updating and review. Each plant has its individual problems and requirements and it will be necessary to determine the impact of the proposed revisions to each permit. The permits for the combined sewer overflow points will also be reviewed in this program.

Project Status

Authorization: This project is included in the Waste Management Plan as a study.

Step I:

Step II:

Step III:

Objectives for 1989: Continue program to develop information for permits.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 126,621
Balance Required	38,379
Total Funds Required	165,000
1988 Capital Budget	195,000
1988 Budget Amendments	0
Total 1988 Approved Budget	195,000
Additional 1989 Funds Requested	(30,000)
1989 Capital Budget	\$ 165,000

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$	\$	\$ 126,621	\$ 126,621
1988			10,000	10,000
First Quarter 1989			5,000	5,000
Second Quarter 1989			5,000	5,000
Third Quarter 1989			5,000	5,000
Fourth Quarter 1989			5,000	5,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds			8,379	8,379
Total			165,000	165,000

Project Description:

The project will add several existing plant process areas to the plant's computer system. Each area to be monitored and/or controlled is connected to the computer system through existing and new field process instruments wired to termination cabinet/multiplexer units.

Project Status

Authorization: Included in the Waste Management Policy Plan.
 Step I: Completed as a previously approved project.
 Step II: Completed.
 Step III: To be completed in 1988.

Objectives for 1989: Close out project, complete performance certification and O&M manual revisions per MPCA requirements.

Objectives for Future Years

1990
 1991
 1992
 1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 15,486,527
Balance Required	2,263,473
Total Funds Required	17,750,000
1988 Capital Budget	17,750,000
1988 Budget Amendments	0
Total 1988 Approved Budget	17,750,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 17,750,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ 9,448,641	\$ 1,889,728	\$ 4,148,158	\$ 15,486,527
1988	745,959	149,192	1,168,322	2,063,473
First Quarter 1989			50,000	50,000
Second Quarter 1989			50,000	50,000
Third Quarter 1989			50,000	50,000
Fourth Quarter 1989			50,000	50,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total	10,194,600	2,038,920	5,516,480	17,750,000

Project Description: The study had determined the environmental impact of the combined sewer overflow on the Mississippi River and formulated an abatement program leading towards the reduction or elimination of combined sewer overflow. The study included an assessment of combined sewer overflows, general planning of the abatement program and preliminary engineering of the required abatement facilities. Work will continue to develop operation plans for the regulators and effectiveness verification of separated areas and other information to fulfill the permit conditions.

Project Status:

Authorization: Included in the Waste Management Policy Plan as a study.
Step I: Completed.
Step II: Projects defined in the study are designed or under design.
Step III: Construction of projects underway.

Objectives for 1989: Continue monitoring CSO NPDES permit compliance, reporting.

Objectives for Future Years

1990 -
 1991 -
 1992 -
 1993 -

**Rationale for
Additional Appropriation****Appropriations**

Expenditures to 12/31/87	3,003,966
Balance Required	94,634
Total Funds Required	3,098,600
1988 Capital Budget	3,258,600
1988 Budget Amendments	0
Total 1988 Approved Budget	3,258,600
Additional 1989 Funds Requested	(160,000)
1989 Capital Budget	3,098,600

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$ 1,970,676	\$ 394,135	\$ 639,155	\$ 3,003,966
1988			50,000	50,000
First Quarter 1989			10,000	10,000
Second Quarter 1989			10,000	10,000
Third Quarter 1989			10,000	10,000
Fourth Quarter 1989			10,000	10,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds			4,634	4,634
Total	1,970,676	394,135	733,789	3,098,600

Project Title Lower Beltline InterceptorNumber 77-05Project Description:

The project provides for the construction of a new interceptor to replace the existing under-capacity line and also modifications to the under-sized regulator. The interceptor extends from near the intersection of Warner Road & Highway 61 to the joint interceptor at Childs Road.

Project Status

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

Step I: Completed.

Step II: Completed.

Step III: Completed.

Objectives for 1989: Close out project.Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 3,741,957
Balance Required	58,043
Total Funds Required	<u>3,800,000</u>
1988 Capital Budget	4,150,000
1988 Budget Amendments	0
Total 1988 Approved Budget	<u>4,150,000</u>
Additional 1989 Funds Requested	<u>(350,000)</u>
1989 Capital Budget	<u>\$ 3,800,000</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ 2,245,350	\$ 449,070	\$ 1,047,537	\$ 3,741,957
1988			25,000	25,000
First Quarter 1989			5,000	5,000
Second Quarter 1989			5,000	5,000
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			23,043	23,043
Total	<u>2,245,350</u>	<u>449,070</u>	<u>1,105,580</u>	<u>3,800,000</u>

Project Title Future System Configuration Number 78-01

Project Description:

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

Project Status

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

Step I:

Step II:

Step III:

Objectives for 1989: To complete a work program to re-evaluate sewer planning alternatives and considerations for developing areas in the metropolitan area.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 502,989
Balance Required	26,374
Total Funds Required	529,363
1988 Capital Budget	724,363
1988 Budget Amendments	0
Total 1988 Approved Budget	724,363
Additional 1989 Funds Requested	(195,000)
1989 Capital Budget	\$ 529,363

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ 352,092	\$ 75,448	\$ 75,449	\$ 502,989
1988			21,374	21,374
First Quarter 1989			1,000	1,000
Second Quarter 1989			4,000	4,000
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total	352,092	75,448	101,823	529,363

Project Description:

The Hastings WWTP was expanded to treat an average daily wastewater flow of 2.3 mgd. Existing units were rehabilitated and additional units added. The plant provides primary treatment followed by activated sludge treatment, effluent chlorination and solids treatment by digestion. A new odor control system and a new sludge loading building were constructed. Odor control improvements will be provided as part of this project.

Project Status:

Authorization: Included in the Waste Management Policy Plan & Development Program by amendment in 1979.

Step I: Completed

Step II: Completed

Step III: To be completed in 1988.

Objectives for 1989: Close out project.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 9,307,107
Balance Required	207,044
Total Funds Required	9,513,625
1988 Capital Budget	9,513,625
1988 Budget Amendments	0
Total 1988 Approved Budget	9,513,625
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 9,513,625

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ 6,233,400	\$ 1,246,680	\$ 1,827,027	\$ 9,307,107
1988			50,000	50,000
First Quarter 1989			10,000	10,000
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			146,518	146,518
Total	6,233,400	1,246,680	2,033,545	9,513,625

Project Title MWWTP Additional Secondary Treatment East BatteryNumber 79-80Project Description:

Project consisted of four additional aeration tanks and three additional final clarifiers to the existing four east battery aeration tanks and nine clarifiers. Coarse bubble diffuser, similar to those in the existing aeration tanks, were installed in three new aeration tanks and fine bubble diffusers were installed in the fourth tank.

Project Status

Authorization: Included in the Development Program by amendment.
 Step I: Completed.
 Step II: Completed.
 Step III: Completed.

Objectives for 1989: To finalize the project.

Objectives for Future Years

1990
 1991
 1992
 1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 20,753,921
Balance Required	82,854
Total Funds Required	<u>20,836,775</u>
1988 Capital Budget	<u>21,036,775</u>
1988 Budget Amendments	0
Total 1988 Approved Budget	<u>21,036,775</u>
Additional 1989 Funds Requested	<u>(200,000)</u>
1989 Capital Budget	<u>\$ 20,836,775</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ 14,679,789	\$ 2,935,958	\$ 3,138,174	\$ 20,753,921
1988			10,000	10,000
First Quarter 1989			10,000	10,000
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			62,854	62,854
Total	<u>14,679,789</u>	<u>2,935,958</u>	<u>3,221,028</u>	<u>20,836,775</u>

Project Description:

To consolidate the Grant/Loan Management functions of the Commission.

Project Status: This will be an on-going program within the Commission.

Authorization: Overhead costs for Construction Fund.

Step I:

Step II:

Step III:

Objectives for 1989: To administer federal and state construction grants and other financial assistance programs.

Objectives for Future Years

1990 - Continue Program

1991 - Continue Program

1992 - Continue Program

1993 - Continue Program

Rationale for
Additional Appropriation

Additional funds are necessary to continue the construction grants/loan program in 1989.

Appropriations

Expenditures to 12/31/87	\$ 334,000
Balance Required	231,000
Total Funds Required	565,000
1988 Capital Budget	465,000
1988 Budget Amendments	0
Total 1988 Approved Budget	465,000
Additional 1989 Funds Requested	100,000
1989 Capital Budget	\$ 565,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 334,000	\$ 334,000
1988			131,000	131,000
First Quarter 1989			25,000	25,000
Second Quarter 1989			25,000	25,000
Third Quarter 1989			25,000	25,000
Fourth Quarter 1989			25,000	25,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			565,000	565,000

Project Description:

This program provides for the administration of the department and for indirect costs associated with its operations. It includes such non-labor expenses as motor vehicle purchase and operation, travel, training, office equipment and supplies, publications, rent, utilities and printing. It provides for labor expenses such as those associated with attending staff meetings, training, developing budgets, moving to the new office building, records management, personnel administration and general department management.

Project Status:

Authorization:

Step I:

Step II:

Step III:

Objectives for 1989: Continue program.

Objectives for Future Years

1990 - Continue program.

1991 - Continue program.

1992 - Continue program.

1993 - Continue program.

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 1,915,168
Balance Required	<u>2,233,349</u>
Total Funds Required	<u>4,148,517</u>
1988 Capital Budget	<u>3,149,007</u>
1988 Budget Amendments	<u>0</u>
Total 1988 Approved Budget	<u>3,149,007</u>
Additional 1989 Funds Requested	<u>999,510</u>
1989 Capital Budget	\$ <u>4,148,517</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ _____	\$ _____	\$ 1,915,168	\$ 1,915,168
1988	_____	_____	1,233,839	1,233,839
First Quarter 1989	_____	_____	250,000	250,000
Second Quarter 1989	_____	_____	250,000	250,000
Third Quarter 1989	_____	_____	250,000	250,000
Fourth Quarter 1989	_____	_____	249,510	249,510
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
1993	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	_____	_____
Total	_____	_____	4,148,517	4,148,517

Project Title Lake Gervais InterceptorNumber 81-51

Project Description: This project provided for a new gravity interceptor starting from the Beltline Interceptor near the intersection of Highways 61 and 36 in Maplewood and going in a westerly and northwesterly direction to the Lake Gervais Lift Station where the proposed interceptor will connect to the existing Little Canada Interceptor. The construction of this interceptor allowed the existing and over capacity Lake Gervais Lift Station to be modified and the forcemain to be phased out of service.

Project Status:

Authorization: Included in the 1978-1982 Development Program.

Step I: Completed

Step II: Completed

Step III: Completed

Objectives for 1989: Finalize the project.**Objectives for Future Years**

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 6,520,244
Balance Required	14,756
Total Funds Required	6,535,000
1988 Capital Budget	7,325,000
1988 Budget Amendments	(440,000)
Total 1988 Approved Budget	6,885,000
Additional 1989 Funds Requested	(350,000)
1989 Capital Budget	\$ 6,535,000

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$	\$	\$ 6,520,244	\$ 6,520,244
1988				
First Quarter 1989				
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			14,756	14,756
Total			6,535,000	6,535,000

Project Title Planning, Programming, Budget SystemNumber 81-63Project Description:

This project provides for continuation of comprehensive long range Commission planning in coordination with various agencies. The program provides resources for the implementation of facility planning studies to update previous work.

Project Status

Authorization: Included in prior capital budgets with concurrence of the Met Council.
 Step I: Complete studies to evaluate metropolitan disposal system needs.
 Step II:
 Step III:

Objectives for 1989: Complete any remaining studies begun in 1987.

Objectives for Future Years

1990
 1991
 1992
 1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 562,000
Balance Required	307,000
Total Funds Required	869,000
1988 Capital Budget	969,000
1988 Budget Amendments	0
Total 1988 Approved Budget	969,000
Additional 1989 Funds Requested	(100,000)
1989 Capital Budget	\$ 869,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 562,000	\$ 562,000
1988			107,000	107,000
First Quarter 1989			50,000	50,000
Second Quarter 1989			50,000	50,000
Third Quarter 1989			50,000	50,000
Fourth Quarter 1989			50,000	50,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			869,000	869,000

Project Description:

This CAB Interceptor consists of an interceptor from the existing Brooklyn Park Interceptor northwesterly up to Champlin. The interceptor will provide gravity service up to the southwest corner of the old village limits of Champlin and provide a future outlet for the phaseout of the Anoka Plant via a lift station and forcemain. This project consists of a 9 mile gravity interceptor, ranging in size from 42 inch to 66 inch in diameter. The interceptor consists of two projects which were constructed from 1983 to 1985.

Project Status:

Authorization: Included in the Development Program for years 1981-1986.

Step I: Completed

Step II: Completed

Step III: Completed

Objectives for 1989: To resolve construction and financial issues and close out project.

Objectives for Future Years

1990 - N/A

1991 - N/A

1992 - N/A

1993 - N/A

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 16,272,422
Balance Required	<u>1,047,578</u>
Total Funds Required	<u>17,320,000</u>
1988 Capital Budget	<u>17,320,000</u>
1988 Budget Amendments	<u>0</u>
Total 1988 Approved Budget	<u>17,320,000</u>
Additional 1989 Funds Requested	<u>0</u>
1989 Capital Budget	<u>\$ 17,320,000</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 16,272,422	\$ 16,272,422
1988			500,000	500,000
First Quarter 1989			547,578	547,578
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			17,320,000	17,320,000

Project Description:

Improvements to the lift station include removal of the existing pumps, motors and controls and the installation of six new pumps with a capacity of 2,400 gpm each for a firm station capacity of 12,000 gpm. The new pumps would be powered by 150 horsepower motors, three of which would have variable speed controls. The discharge piping would be revised to fit the new pumps. The existing valves would be replaced with plug valves and arranged to allow two pumps with variable speed controls to pump to the Excelsior Lift Station at a rate of approximately 2,000 gpm each. Surge control valves would be installed on each pump. A building addition will be required to house new controls and to provide for installation of stairways into the wet well and dry well. Other miscellaneous improvements include a fence around the odor control equipment, replacement of the wet well platform, additional ventilation equipment and additional roof insulation.

Project Status:

Authorization: Included in the 1984-1988 Development Program by amendment.

Step I: Completed

Step II: Completed in 1987

Step III: Completion in 1989.

Objectives for 1989: Substantial completion of project.

Objectives for Future Years

1990 - Close out project.

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 36,045
Balance Required	1,313,955
Total Funds Required	1,350,000
1988 Capital Budget	1,350,000
1988 Budget Amendments	0
Total 1988 Approved Budget	1,350,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 1,350,000

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$	\$	\$ 36,045	\$ 36,045
1988			300,000	300,000
First Quarter 1989			250,000	250,000
Second Quarter 1989			250,000	250,000
Third Quarter 1989			200,000	200,000
Fourth Quarter 1989			10,000	10,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds			303,955	303,955
Total			1,350,000	1,350,000

Project Description:

The forcemain is 30" in diameter and is designed to convey 17.3 mgd (12,000 gpm). The Lake Virginia Forcemain will be 16,500 feet long. The project begins at the Lake Virginia Lift Station, running easterly along 62nd Street to Church Street. The forcemain follows State Highway 7 from Church Street to State Highway 41. The forcemain turns south on Highway 41 for approximately 3,000 feet before connecting to the Lake Ann Interceptor.

Project Status

Authorization: Included in the 1984-1988 Development Program by amendment.
 Step I: Completed
 Step II: Completed in 1987
 Step III: Complete in 1989.

Objectives for 1989: Complete the project.

Objectives for Future Years

1990 - Close out project.
 1991
 1992
 1993

Rationale for
 Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 56,536
Balance Required	1,918,464
Total Funds Required	1,975,000
1988 Capital Budget	1,975,000
1988 Budget Amendments	0
Total 1988 Approved Budget	1,975,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 1,975,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 56,536	\$ 56,536
1988			1,830,000	1,830,000
First Quarter 1989			50,000	50,000
Second Quarter 1989			25,000	25,000
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			13,464	13,464
Total			1,975,000	1,975,000

Project Description:

The Lake Ann Interceptor will consist of 22,000 feet of 30" to 42" gravity interceptor. It begins at the end of the Lake Virginia Forcemain and continues southeasterly toward Galpin Lake Road. The pipe then continues east from Galpin Lake Road towards and along the western side of Lake Ann. North of State Highway 5, the pipe again turns east and then southeast, crosses State Highway 5 and enters the Chanhassen Lakes Industrial Park. The Lake Ann Interceptor parallels Chanhassen's existing Lake Ann trunk sewer through the industrial park and continues south beneath the railroad and then follows Riley Creek to the shore of Lake Susan. The pipe then follows the north shore of Lake Susan, crosses State Highway 101 and connects to the existing Lake Ann Interceptor, Phase I. The Lake Ann Interceptor provides MOC interceptor service to Chanhassen and the upstream communities located west and southwest of Lake Minnetonka. The facility also provides local trunk sanitary sewer service to the area in Chanhassen north of State Highway 5.

Project Status:

Authorization: Included in the 1984-1988 Development Program by amendment.
 Step I: Completed
 Step II: Completed in 1987.
 Step III: Complete in 1989.

Objectives for 1989: Complete project.

Objectives for Future Years

1990 - Close out project.
 1991
 1992
 1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 466,805
Balance Required	4,783,195
Total Funds Required	5,250,000
1988 Capital Budget	5,250,000
1988 Budget Amendments	0
Total 1988 Approved Budget	5,250,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 5,250,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 466,805	\$ 466,805
1988			2,342,628	2,342,628
First Quarter 1989			300,000	300,000
Second Quarter 1989			400,000	400,000
Third Quarter 1989			400,000	400,000
Fourth Quarter 1989			115,000	115,000
1990			125,567	125,567
1991				
1992				
1993				
Estimated Contingency Funds			1,100,000	1,100,000
Total			5,250,000	5,250,000

Project Description:

The Red Rock Interceptor will consist of a 20,500 foot, 42" to 54" gravity interceptor. It connects to the Lake Ann Interceptor at the Chanhassen Lift Station. The interceptor then follows the north and east shores of Rice Marsh Lake before turning east. The interceptor passes south of Mitchell Lake, crosses a railroad, heads southeast toward County Road 4. East of County Road 4, the interceptor follows a ravine through backyards of existing homes. The pipe is then routed along the west and south side of Red Rock Lake and through the proposed Red Rock Ranch development to Mitchell Road. It follows Mitchell Road and a ravine to the north side of Staring Lake and then follows Research Road to the Purgatory Creek Interceptor. A metering station will be installed downstream of the existing Chanhassen Lift Station.

Project Status:

Authorization: Included in the 1984-1988 Development Program by amendment.

Step I: Completed

Step II: Completed in 1987.

Step III: Complete in 1989.

Objectives for 1989: Project completion.

Objectives for Future Years

1990 - Close out project.

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 1,365,254	(for Step II design of all projects)
Expenditures to 12/31/87	132,374	
Balance Required	5,627,372	
Total Funds Required	7,125,000	
1988 Capital Budget	7,125,000	
1988 Budget Amendments	0	
Total 1988 Approved Budget	7,125,000	
Additional 1989 Funds Requested	0	
1989 Capital Budget	\$ 7,125,000	

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 1,497,628	\$ 1,497,628
1988			4,027,372	4,027,372
First Quarter 1989			200,000	200,000
Second Quarter 1989			200,000	200,000
Third Quarter 1989			50,000	50,000
Fourth Quarter 1989			50,000	50,000
1990			300,000	300,000
1991				
1992				
1993				
Estimated Contingency Funds			800,000	800,000
Total			7,125,000	7,125,000

Project Title Excelsior Lift Station Improvements Number 82-53-343

Project Description:

This project consists of improvements to the existing Excelsior Lift Station, reconstruction of the surge relief manhole at the Galpin Lake Lift Station and construction of 400 ft. of parallel gravity sewer to relieve a capacity restriction in the Shorewood interceptor. The improvements at the Excelsior Lift Station will include an expanded wet well and dry well area, installation of 2 variable speed and 4 constant speed pumps and new electrical and mechanical equipment. The resulting station capacity will be 10 mgd.

Project Status:

Authorization: Included in the 1984-1988 Development Program in 1985.

Step I: Complete.

Step II: Complete.

Step III: Completed in 1988.

Objectives for 1988: Close out project.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 1,154,037
Balance Required	345,963
Total Funds Required	1,500,000
1988 Capital Budget	1,500,000
1988 Budget Amendments	0
Total 1988 Approved Budget	1,500,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 1,500,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 1,154,037	\$ 1,154,037
1988			325,963	325,963
First Quarter 1989			10,000	10,000
Second Quarter 1989			10,000	10,000
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			1,500,000	1,500,000

Project Title Interceptor RehabilitationNumber 82-54Project Description:

This project consists of studies to rehabilitation needs for numerous areas in the interceptor system.

Project Status

Authorization: Included in the Development Program for years 1981-1986.

Step I: Continue studies.

Step II:

Step III:

Objectives for 1989: Continue to identify and study rehabilitation needs.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 5,001
Balance Required	14,999
Total Funds Required	20,000
1988 Capital Budget	100,000
1988 Budget Amendments	0
Total 1988 Approved Budget	100,000
Additional 1989 Funds Requested	(80,000)
1989 Capital Budget	\$ 20,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 5,001	\$ 5,001
1988			5,000	5,000
First Quarter 1989			1,000	1,000
Second Quarter 1989			1,000	1,000
Third Quarter 1989			1,000	1,000
Fourth Quarter 1989			1,000	1,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds			5,999	5,999
Total			20,000	20,000

Project Description:

The project consists of the construction of about four miles of ten foot diameter parallel interceptor on the existing Minneapolis East Interceptor. Phase I of the interceptor between 2nd & Main & Lake Street, will be the initial construction. Phase II design will be updated under this program.

Project Status

Authorization: Included in the Development Program for years 1981-1986.

Step I: Completed.

Step II: Completed.

Step III: Phase I underway.

Objectives for 1989: To complete certification and close out project.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ <u>27,920,972</u>
Balance Required	<u>13,079,028</u>
Total Funds Required	<u>41,000,000</u>
1988 Capital Budget	<u>41,000,000</u>
1988 Budget Amendments	<u>0</u>
Total 1988 Approved Budget	<u>41,000,000</u>
Additional 1989 Funds Requested	<u>0</u>
1989 Capital Budget	\$ <u>41,000,000</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$ 2,935,200	\$ 24,985,772	\$ 27,920,972
1988		2,320,000	8,059,028	10,379,028
First Quarter 1989		450,000	(400,000)	50,000
Second Quarter 1989		450,000	(400,000)	50,000
Third Quarter 1989		450,000	(400,000)	50,000
Fourth Quarter 1989		450,000	(400,000)	50,000
1990		1,800,000	(1,800,000)	
1991		2,320,000	(2,320,000)	
1992		2,320,000	(2,320,000)	
1993		2,320,000	(2,320,000)	
Estimated Contingency Funds		2,012,117	487,883	2,500,000
Total		17,827,317	23,172,683	41,000,000

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Revised 5/17/88
SCHEDULE 11-24

Project Title MWWTP West Pretreatment Facilities Rehab. Number 82-56

Project Description: The MWWTP West Pretreatment Facilities, located in the Screen & Grit Building, is required to provide treatment to about 1/3 of the flow arriving at the Plant and is particularly important in handling high storm-related flows. The facility has seen almost 50 years continuous service and requires rehabilitation to increase the level of treatment provided & the process reliability. The project includes repairs and improvements to the grit and screenings handling system, flow metering and electrical, mechanical and control systems.

Project Status:

Authorization: Included in the Development Program for years 1981-1986.
 Step I: Completed.
 Step II: Completed.
 Step III: Initiated in early 1986, completed in 1988.

Objectives for 1989: Finalize project, complete performance certification and O&M manual revisions per MPCA requirements.

Objectives for Future Years

1990
 1991
 1992
 1993

**Rationale for
 Additional Appropriation**

Appropriations

Expenditures to 12/31/87	\$ 6,134,624
Balance Required	1,615,376
Total Funds Required	7,750,000
1988 Capital Budget	8,750,000
1988 Budget Amendments	(210,000)
Total 1988 Approved Budget	8,540,000
Additional 1989 Funds Requested	(790,000)
1989 Capital Budget	\$ 7,750,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ 2,951,392	\$	\$ 3,183,232	\$ 6,134,624
1988	189,163		210,837	400,000
First Quarter 1989			100,000	100,000
Second Quarter 1989			115,376	115,376
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			1,000,000	1,000,000
Total	3,140,555		4,609,445	7,750,000

Project Title MWWTP West Primary Treatment Facility Rehab. Number 82-57

Project Description:

The MWWTP West Primary battery provides treatment to about 1/3 of the flow arriving at the Plant and is particularly important in handling high storm-related flows. The facility has seen almost 50 years continuous service and requires rehabilitation to increase the level of treatment provided and the process reliability. The project includes repairs and improvements to the sludge and scum handling systems, structural condition and electrical, mechanical and control systems.

Project Status:

Authorization: Included in the Development Program for years 1981-1986.

Step I: Completed.

Step II: Completed.

Step III: Initiated in early 1986, completed in 1988.

Objectives for 1989: Finalize project, complete performance certification and O&M manual revisions per MPCA requirements.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 9,433,482
Balance Required	2,251,518
Total Funds Required	11,685,000
1988 Capital Budget	12,035,000
1988 Budget Amendments	0
Total 1988 Approved Budget	12,035,000
Additional 1989 Funds Requested	(350,000)
1989 Capital Budget	\$ 11,685,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ 4,573,997	\$	\$ 4,859,485	\$ 9,433,482
1988	529,728		270,272	800,000
First Quarter 1989			20,000	20,000
Second Quarter 1989			15,000	15,000
Third Quarter 1989			10,000	10,000
Fourth Quarter 1989			14,000	14,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds			1,392,518	1,392,518
Total	5,103,725		6,581,275	11,685,000

Project Title MWWTP West Secondary Treatment Facility Rehab.Number 82-58Project Description:

The MWWTP West Secondary battery provides treatment to about 1/2 of the plant flow and successful operation is critical in achieving compliance with the plant's discharge permit. Lack of adequate redundancy in the electrical power supply system and deficiencies in the scum removal facilities were addressed through this project to enable the facility to fulfill its operational requirements. The project included a second high voltage power feed and electrical transformer and scum system improvements, consisting of new motorized skimming equipment and a building to house it.

Project Status:

Authorization: Included in the 1981-1986 Development Program.

Step I: Completed.

Step II: Completed.

Step III: Completed.

Objectives for 1989: To close out project.Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional AppropriationAppropriations

Expenditures to 12/31/87	\$ 4,059,831
Balance Required	455,169
Total Funds Required	4,515,000
1988 Capital Budget	4,515,000
1988 Budget Amendments	0
Total 1988 Approved Budget	4,515,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 4,515,000

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$ 2,090,013	\$ 418,003	\$ 1,551,815	\$ 4,059,831
1988	78,912	15,782	95,475	190,169
First Quarter 1989			5,000	5,000
Second Quarter 1989			5,000	5,000
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			255,000	255,000
Total	2,168,925	433,785	1,912,290	4,515,000

Project Title Blue Lake WWP Sludge Thickening Facilities Number 82-59

Project Description:

The project will provide a sludge thickener complex with 4 additional thickening tanks to allow the current 2 primary tanks, which is presently being used to store & thicken sludge to be returned to use as a primary tank. The project will also provide a sludge loadout building for truck hauling. The project will provide an electrical building which will furnish primary power for the existing plant, for this project & for future expansion.

Project Status:

Authorization: Included in the Development Program for years 1981-1986.

Step I: Completed.

Step II: Completed.

Step III: To complete certification in 1988.

Objectives for 1989: Close out project.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 4,390,845
Balance Required	109,155
Total Funds Required	4,500,000
1988 Capital Budget	4,800,000
1988 Budget Amendments	0
Total 1988 Approved Budget	4,800,000
Additional 1989 Funds Requested	(300,000)
1989 Capital Budget	\$ 4,500,000

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$ 2,151,354	\$	\$ 2,239,491	\$ 4,390,845
1988	69,216		(19,216)	50,000
First Quarter 1989			5,000	5,000
Second Quarter 1989			5,000	5,000
Third Quarter 1989			5,000	5,000
Fourth Quarter 1989			5,000	5,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds			39,155	39,155
Total	2,220,570		2,279,430	4,500,000

Project Title Chaska Plant ImprovementsNumber 83-51Project Description:

The present pure oxygen activated sludge wastewater treatment plant will be expanded to 1.66 mgd with organic treatment capacity expanded to 4,400 pounds per day. Improvements include a new headworks building, influent pumping, conversion of one sludge holding tank to two pure oxygen activated sludge tanks, additional final clarifier, new chlorine tank, dechlorination, upgraded effluent pumping, new outfall sewer, new sludge thickener, new sludge pumping, odor removal units with associated buildings, electrical and piping.

Project Status:

Authorization: Included in the 1982-1986 Development Program.

Step I: Complete.

Step II: Complete.

Step III: Complete in 1988.

Objectives for 1989: Close out project.Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional AppropriationAppropriations

Expenditures to 12/31/87	\$ 3,946,384
Balance Required	403,616
Total Funds Required	4,350,000
1988 Capital Budget	4,650,000
1988 Budget Amendments	0
Total 1988 Approved Budget	4,650,000
Additional 1989 Funds Requested	(300,000)
1989 Capital Budget	\$ 4,350,000

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$	\$	\$ 3,946,384	\$ 3,946,384
1988			300,000	300,000
First Quarter 1989			5,000	5,000
Second Quarter 1989			5,000	5,000
Third Quarter 1989			5,000	5,000
Fourth Quarter 1989			5,000	5,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds			83,616	83,616
Total			4,350,000	4,350,000

Project Title Maple Plain InterceptorNumber 83-52Project Description:

This project consists of a lift station and forcemain to phase the Maple Plain treatment plant out of service and includes demolition of the plant site.

Project Status

Authorization: Completed.
 Step I: Completed.
 Step II: Completed.
 Step III: Completed.

Objectives for 1989: To close out the project.

Objectives for Future Years

1990
 1991
 1992
 1993

Rationale for
 Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 2,400,420
Balance Required	74,580
Total Funds Required	2,475,000
1988 Capital Budget	2,625,000
1988 Budget Amendments	0
Total 1988 Approved Budget	2,625,000
Additional 1989 Funds Requested	(150,000)
1989 Capital Budget	\$ 2,475,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$	\$ 2,400,420
1988				25,000
First Quarter 1989				25,000
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds				24,580
Total				2,475,000

Project Description:

This study will provide for additional information relating to more restricted water quality standards which may be required by MPCA. The comprehensive study is needed to validate the permit issuance process and provide information that is needed by the Commission for presentation at public hearings on the proposed NPDES permits.

Project Status

Authorization: Approved as a study in the 1983 Capital Budget.

Step I: Complete.

Step II:

Step III:

Objectives for 1989: Perform any additional studies needed as part of the NPDES permit or consent decree for the Minnesota River.

Objectives for Future Years

1990

1991

1992

1993

Appropriations

Expenditures to 12/31/87	\$ 99,910
Balance Required	75,090
Total Funds Required	175,000
1988 Capital Budget	175,000
1988 Budget Amendments	0
Total 1988 Approved Budget	175,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 175,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 99,910	\$ 99,910
1988			25,000	25,000
First Quarter 1989			1,000	1,000
Second Quarter 1989			1,000	1,000
Third Quarter 1989			1,000	1,000
Fourth Quarter 1989			1,000	1,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds			46,090	46,090
Total			175,000	175,000

Project Description:

The project consists of Step I services to conduct studies on electrical power systems, HVAC systems with emphasis on the identification and analysis of energy conservation opportunities such as peak demand shaving, heat recovery and other ways of managing energy use.

Project Status

Authorization: Approved as a study in 1983 Capital Budget.

Step I: Additional study required.

Step II:

Step III:

Objectives for 1989: Complete the study.

Objectives for Future Years

1990

1991

1992

1993

Appropriations

Expenditures to 12/31/87	\$ 37,000
Balance Required	198,000
Total Funds Required	235,000
1988 Capital Budget	235,000
1988 Budget Amendments	0
Total 1988 Approved Budget	235,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 235,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 37,000	\$ 37,000
1988			5,000	5,000
First Quarter 1989			50,000	50,000
Second Quarter 1989			50,000	50,000
Third Quarter 1989			50,000	50,000
Fourth Quarter 1989			43,000	43,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			235,000	235,000

WAB:jlw
4.20.88

Project Description: A comprehensive, automatic fire and hazardous chemical detection/ alarm system and a plant security system will be designed and installed at the Metro Wastewater Treatment Plant. Approximately 1400 fire detection devices and 700 public address speakers will be installed. The security system will detect intrusion at a minimum of six locations. The security systems and detection systems for hydrogen sulfide, chlorine and sulfur dioxide gas leaks, oil spills and fire will be controlled by a central processing computer connected to zone control units by fiber optic cables.

Project Status:

Authorization: Included in the 1986-1990 Development Program.
 Step I: Completed.
 Step II: Completed in 1988.
 Step III: Begin in 1989, completed in 1990.

Objectives for 1989: Begin construction.

Objectives for Future Years

1990 - To complete construction.
 1991
 1992
 1993

**Rationale for
 Additional Appropriation**

Appropriations

Expenditures to 12/31/87	\$ 23,137
Balance Required	<u>2,976,863</u>
Total Funds Required	<u>3,000,000</u>
1988 Capital Budget	<u>625,000</u>
1988 Budget Amendments	<u>0</u>
Total 1988 Approved Budget	<u>625,000</u>
Additional 1989 Funds Requested	<u>2,375,000</u>
1989 Capital Budget	<u>\$ 3,000,000</u>

To provide adequate construction funds based on more detailed information developed during design. The components have to be greatly increased to comply with codes and design standards and the project is thereby more costly.

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$	\$	\$ 23,137	\$ 23,137
1988			50,000	50,000
First Quarter 1989			100,000	100,000
Second Quarter 1989			500,000	500,000
Third Quarter 1989			500,000	500,000
Fourth Quarter 1989			500,000	500,000
1990			1,326,863	1,326,863
1991				
1992				
1993				
Estimated Contingency Funds				
Total			3,000,000	3,000,000

Project Title Lift Station Electrical System Number 83-56

Project Description:

This project consists of a survey of electrical, mechanical equipment at the lift stations. This project will provide for the information to determine the need for replacement of existing equipment with new reliable and efficient equipment.

Project Status

Authorization: Approved as a study in the 1983 Capital Budget.
 Step I: Preliminary work completed.
 Step II:
 Step III:

Objectives for 1989: Initiate the study.

Objectives for Future Years

1990 - Complete the study.
 1991
 1992
 1993

Rationale for
 Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 1,525
Balance Required	173,475
Total Funds Required	175,000
1988 Capital Budget	175,000
1988 Budget Amendments	0
Total 1988 Approved Budget	175,000
Additional 1989 Funds Requested	(160,000)
1989 Capital Budget	\$ 15,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 1,525	\$ 1,525
1988			1,000	1,000
First Quarter 1989			1,000	1,000
Second Quarter 1989			1,000	1,000
Third Quarter 1989			1,000	1,000
Fourth Quarter 1989			9,475	9,475
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			15,000	15,000

Project Description:

This project is to provide a new computer, remote transmission unit and associated equipment to replace the existing Alarm & Metering Telemetry System. The system will monitor over 200 remote sites for lift station alarms, meter flows, sewage regulators and river quality monitors. The existing system has become obsolete and difficult to maintain because many components are no longer manufactured to readily available.

Project Status:

Authorization: Approved as a study in the 1983 Capital Budget.

Step I: Completed

Step II: Completed

Step III: Begun in 1986, complete in 1988.

Objectives for 1989: Close out project.

Objectives for Future Years

1990
1991
1992
1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 2,389,224
Balance Required	2,610,776
Total Funds Required	5,000,000
1988 Capital Budget	5,000,000
1988 Budget Amendments	0
Total 1988 Approved Budget	5,000,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 5,000,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 2,389,224	\$ 2,389,224
1988			1,700,776	1,700,776
First Quarter 1989			5,000	5,000
Second Quarter 1989			5,000	5,000
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			900,000	900,000
Total			5,000,000	5,000,000

Project Title MWWTP Disinfection Number 83-58

Project Description:

The NPDES permit requires compliance with stringent effluent chlorine residual standards by June 1, 1986. It also requires construction of such facilities to be started 1/1/85. Engineering design was initiated in January, 1984 and was completed in mid 1984. The design provides new dechlorination facilities using sulfur dioxide. The project includes improvements to existing chlorination process to make it compatible with dechlorination and plant wide practices such as computer control. The project also includes a stormwater outfall and modifications to remove stormwater from the chlorine contact channel.

Project Status:

Authorization: Included in the Development Program as an amendment in 1984.
 Step I: Completed
 Step II: Completed
 Step III: Completed

Objectives for 1989: Close out project.

Objectives for Future Years

1990
 1991
 1992
 1993

Rationale for
 Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 5,477,448
Balance Required	257,552
Total Funds Required	5,735,000
1988 Capital Budget	5,735,000
1988 Budget Amendments	0
Total 1988 Approved Budget	5,735,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 5,735,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 5,477,448	\$ 5,477,448
1988			162,552	162,552
First Quarter 1989			5,000	5,000
Second Quarter 1989			5,000	5,000
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			85,000	85,000
Total			5,735,000	5,735,000

Project Title Lino Lakes Interceptor Number 83-61

Project Description:

The project involves the construction of 2,800 L.F. of 24-inch gravity sewer to serve Urban Service District No. 2 in the City of Lino Lakes. This interceptor, which discharges into the North Suburban Interceptor (4-NS-523), has a peak capacity of 4.15 mgd.

Project Status

Authorization: Included in the Development Program by amendment in 1983.
 Step I: Completed.
 Step II: Completed.
 Step III: Completed.

Objectives for 1989: To close out the project.

Objectives for Future Years

1990
 1991
 1992
 1993

Rationale for
 Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 307,698
Balance Required	42,302
Total Funds Required	350,000
1988 Capital Budget	450,000
1988 Budget Amendments	0
Total 1988 Approved Budget	450,000
Additional 1989 Funds Requested	(100,000)
1989 Capital Budget	\$ 350,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 307,698	\$ 307,698
1988			10,000	10,000
First Quarter 1989			10,000	10,000
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			22,302	22,302
Total			350,000	350,000

Project Title Miscellaneous Capital ImprovementsNumber 83-65Project Description:

This program provides for additional miscellaneous improvements to the wastewater treatment plants and the interceptor system. The projects are proposed to provide for more effective operations and eliminate deficiencies in the system.

Project Status

Authorization: The project has been included in previous capital budgets.

Step I:

Step II:

Step III:

Objectives for 1989: The projects will be completed by the end of the second quarter of 1988 with the Savage Meter Station.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional AppropriationAppropriations

Expenditures to 12/31/87	\$ 3,092,470
Balance Required	57,718
Total Funds Required	3,150,188
1988 Capital Budget	3,300,188
1988 Budget Amendments	0
Total 1988 Approved Budget	3,300,188
Additional 1989 Funds Requested	(150,000)
1989 Capital Budget	\$ 3,150,188

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 3,092,470	\$ 3,092,470
1988			35,000	35,000
First Quarter 1989				
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			22,718	22,718
Total			3,150,188	3,150,188

Project Description:

The project consists of 3300 L.F. of 24-inch gravity sewer to serve the north central sewer district in the City of Arden Hills. The new interceptor will begin at the western border of the City of Arden Hills, proceed westerly along the north side of Highway I-694 and terminate at an existing 42-inch sewer in New Brighton. The interceptor's hydraulic capacity of 4.2 mgd will relieve capacity restrictions in an existing trunk sewer and provide reserve capacity for additional growth and development in this area.

Project Status:

Authorization: Approved in the 1984-1988 Development Program.

Step I: Completed.

Step II: Completed.

Step III: Completed.

Objectives for 1989: Close out project.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 1,496,009
Balance Required	128,991
Total Funds Required	1,625,000
1988 Capital Budget	1,625,000
1988 Budget Amendments	0
Total 1988 Approved Budget	1,625,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 1,625,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 1,496,009	\$ 1,496,009
1988			20,000	20,000
First Quarter 1989			5,000	5,000
Second Quarter 1989			5,000	5,000
Third Quarter 1989			5,000	5,000
Fourth Quarter 1989			5,000	5,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds			88,991	88,991
Total			1,625,000	1,625,000

Project Description:

The existing physical chemical plant will be replaced by a 0.705 mgd aerated pond system. The new 22 acre, 15 foot deep pond system consists of two aeration cells and one settling cell with a holding area. The design will feature a synthetic liner, coarse bubble diffusion and multiple draw-off controls. The plant headworks will be rehabilitated, a new pump/blower building and new chlorination equipment will be constructed.

Project Status:

Authorization: Included in the 1984-1988 Development Program.

Step I: Completed.

Step II: Completed.

Step III: Begun in 1988, complete in 1989.

Objectives for 1989: Complete construction.

Objectives for Future Years

1990 - Close out project.

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 207,000
Balance Required	4,093,000
Total Funds Required	4,300,000
1988 Capital Budget	5,300,000
1988 Budget Amendments	0
Total 1988 Approved Budget	5,300,000
Additional 1989 Funds Requested	(1,000,000)
1989 Capital Budget	\$ 4,300,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 207,000	\$ 207,000
1988			3,000,000	3,000,000
First Quarter 1989			100,000	100,000
Second Quarter 1989			50,000	50,000
Third Quarter 1989			50,000	50,000
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			893,000	893,000
Total			4,300,000	4,300,000

Project Description:

This project includes replacing the two existing sludge dewatering vacuum filters with a two-meter belt filter press to supplement the existing two meter belt filter press. All units will be installed with rotating drum thickeners. Sludge treatment capacity will be increased. In addition, two bulk polymer storage tanks with a usable capacity of 9000 gallons will be installed. A permanent potassium permanganate feed system will be provided for odor control.

Project Status:

Authorization: Included in the 1984-1988 Development Program.

Step I: Completed.

Step II: Began in 1985. Placed on hold in 1987 to await completion of other studies. Expect to continue in 1988-1989.

Step III: Construction expected in 1989 through 1991.

Objectives for 1989: To complete the design and initial construction.

Objectives for Future Years

1990 - Continue construction.

1991 - Complete construction.

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 213,033
Balance Required	4,686,967
Total Funds Required	4,900,000
1988 Capital Budget	5,400,000
1988 Budget Amendments	0
Total 1988 Approved Budget	5,400,000
Additional 1989 Funds Requested	(500,000)
1989 Capital Budget	\$ 4,900,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 213,033	\$ 213,033
1988			100,000	100,000
First Quarter 1989			100,000	100,000
Second Quarter 1989			100,000	100,000
Third Quarter 1989			100,000	100,000
Fourth Quarter 1989			100,000	100,000
1990			2,300,000	2,300,000
1991			1,886,967	1,886,967
1992				
1993				
Estimated Contingency Funds				
Total			4,900,000	4,900,000

Project Title Metro Plant Water Supply Improvements Number 85-53

Project Description:

The project consists of a design for a new water main to supply the needs at the Metro Plant. The Plant is currently served by a small City main which is not adequate for fire protection. The new line would be about 3000 ft. in length and be about 12 inches in diameter and run parallel to the existing water supply line.

Project Status

Authorization: Included in the 1981-1986 Development Program.
 Step I: Completed.
 Step II: Completed in 1987.
 Step III: Begin in 1988, complete in 1989.

Objectives for 1989: Close out project.

Objectives for Future Years

1990
 1991
 1992
 1993

Rationale for
 Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 45,099
Balance Required	404,901
Total Funds Required	450,000
1988 Capital Budget	450,000
1988 Budget Amendments	0
Total 1988 Approved Budget	450,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 450,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 45,099	\$ 45,099
1988			300,000	300,000
First Quarter 1989			10,000	10,000
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			94,901	94,901
Total			450,000	450,000

Project Description: The existing plant will be expanded to treat a 32 mgd average daily flow. A single stage activated sludge system providing nitrification and effluent aeration will be used to meet a more stringent waste load allocation. Plant headworks, pretreatment and primary treatment facilities and the aerated polishing pond will be rehabilitated or replaced. The existing secondary facility will be rehabilitated to treat half the flow and a new secondary plant constructed to treat the rest. New chlorination, dechlorination and effluent pumping equipment plant, instrumentation and control equipment and a maintenance and warehouse building will be built. Effluent dissolved oxygen will be increased by cascade aeration.

Project Status:

Authorization: Included in the 1986-1990 Development Program.

Step I: Completed.

Step II: Completed in 1988.

Step III: Begin site work in 1988; treatment facilities in 1989; substantially complete in 1991.

Objectives for 1989: To initiate construction of treatment facilities.

Objectives for Future Years

1990 - Continue construction.

1991 - Continue construction; substantial completion.

1992 - Complete project.

1993

**Rationale for
Additional Appropriation**

To provide for Step III construction.

Appropriations

Expenditures to 12/31/87	\$ 249,439
Balance Required	55,650,561
Total Funds Required	55,900,000
1988 Capital Budget	3,000,000
1988 Budget Amendments	0
Total 1988 Approved Budget	3,000,000
Additional 1989 Funds Requested	52,900,000
1989 Capital Budget	\$ 55,900,000

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$	\$	\$ 249,439	\$ 249,439
1988			1,500,000	1,500,000
First Quarter 1989			1,000,000	1,000,000
Second Quarter 1989			2,000,000	2,000,000
Third Quarter 1989			1,250,561	1,250,561
Fourth Quarter 1989			2,500,000	2,500,000
1990			17,000,000	17,000,000
1991			22,000,000	22,000,000
1992			5,900,000	5,900,000
1993			2,500,000	2,500,000
Estimated Contingency Funds				
Total			55,900,000	55,900,000

Project Description: This project will increase the capacity of the plant from 6 to 9 mgd. It will consist of additional influent pumping capacity, one primary clarifier, expanded high rate activated sludge, one high rate clarifier, expanded nitrification activated sludge, one final clarifier, split flow around effluent filters, effluent pumping capacity, one chlorine contact tank, dechlorination facilities, gravity sludge thickeners, one digester, replacement of existing digester covers with steel covers, new digester heating and mixing system, replacement of existing centrifuges with belt filter presses, new control system, new instrumentation where required and miscellaneous plant improvements, electrical and piping.

Project Status:

Authorization: Included in the 1986-1990 Development Program.

Step I: Completed.

Step II: To be completed in 1988.

Step III: To be initiated in 1989 and completed in 1991.

Objectives for 1989: To initiate construction.

Objectives for Future Years

1990 - To continue construction.

1991 - Substantial completion.

1992

1993

**Rationale for
Additional Appropriation**

Appropriations

Expenditures to 12/31/87	\$ 357,649
Balance Required	18,742,351
Total Funds Required	19,100,000
1988 Capital Budget	15,850,000
1988 Budget Amendments	0
Total 1988 Approved Budget	15,850,000
Additional 1989 Funds Requested	3,250,000
1989 Capital Budget	\$ 19,100,000

To provide funds for construction of project based on more detailed construction cost estimate data.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 357,649	\$ 357,649
1988			700,000	700,000
First Quarter 1989			400,000	400,000
Second Quarter 1989			400,000	400,000
Third Quarter 1989			400,000	400,000
Fourth Quarter 1989			1,500,000	1,500,000
1990			5,000,000	5,000,000
1991			5,842,351	5,842,351
1992			4,500,000	4,500,000
1993				
Estimated Contingency Funds				
Total			19,100,000	19,100,000

Project Description:

The project consists of a study to conduct an intensive river survey in summer, to collect data for reverification of a computer model. The computer model refinement, including literature search on selected topics, field studies relative to deoxygenation rate and nitrification rate in the river, and other special studies. Supplementary assessment topics, including compliance issues, priority pollutants, monitoring and upstream water quality.

Project Status

Authorization: The study was approved in the 1985 Capital Budget.

Step I: Work on the study continues.

Step II:

Step III:

Objectives for 1989: Complete the study.

Objectives for Future Years

1990

1991

1992

1993

Appropriations

Expenditures to 12/31/87	\$ 121,282
Balance Required	78,718
Total Funds Required	200,000
1988 Capital Budget	200,000
1988 Budget Amendments	0
Total 1988 Approved Budget	200,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 200,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 121,282	\$ 121,282
1988			60,000	60,000
First Quarter 1989			10,000	10,000
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			8,718	8,718
Total			200,000	200,000

Project Description:

The purpose of the project was to estimate the plant capacity for potential sets of water quality based effluent limits and to estimate the plant's effluent quality under optimized operating conditions. The study was a requirement of the Metro Plant NPDES permit and was to be used in conjunction with a Mississippi River Waste Load Allocation Study to determine the level of treatment the plant should provide so that certain water quality standards are achieved in the river.

Project Status

Authorization: Approved in the 1985 Capital Budget.

Step I: Continue Studies

Step II: N/A

Step III: N/A

Objectives for 1989: To complete studies of fine bubble aeration and return liquor treatment alternatives.

Objectives for Future Years

1990

1991

1992

1993

Appropriations

Expenditures to 12/31/87	\$ 237,812
Balance Required	412,718
Total Funds Required	650,000
1988 Capital Budget	650,000
1988 Budget Amendments	0
Total 1988 Approved Budget	650,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 650,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 237,282	\$ 237,282
1988			150,000	150,000
First Quarter 1989			50,000	50,000
Second Quarter 1989			50,000	50,000
Third Quarter 1989			50,000	50,000
Fourth Quarter 1989			50,000	50,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds			62,718	62,718
Total			650,000	650,000

Project Description:

Develop a plan for sludge ash management, including ash recycling and backup ash land-filling. Evaluate feasible operating modes and costs. Perform market studies and produce development work needed to achieve full scale ash utilization in asphalt or other recycling methods. Assimilate, evaluate and recommend actions regarding optimum use of the Metro Plant site for various competing uses, such as ash storage, dried sludge storage, emergency dewatered sludge storage and supplemental composting program. Integrate odor control and sludge loadout improvements.

Project Status

Authorization: The study was approved in the 1985 Capital Budget.

Step I:

Step II:

Step III:

Objectives for 1989: Complete the study.

Objectives for Future Years

1990

1991

1992

1993

Appropriations

Expenditures to 12/31/87	\$ 707
Balance Required	249,293
Total Funds Required	250,000
1988 Capital Budget	250,000
1988 Budget Amendments	0
Total 1988 Approved Budget	250,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 250,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 707	\$ 707
1988			50,000	50,000
First Quarter 1989			25,000	25,000
Second Quarter 1989			25,000	25,000
Third Quarter 1989			25,000	25,000
Fourth Quarter 1989			25,000	25,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds			99,293	99,293
Total			250,000	250,000

Project Description:

The subject study was conducted as a requirement of the MWWTP Air Operating Permit. The odor study examined plant odor sources and their impacts and developed a work plan for reducing odorous emissions. The non-criteria study included chemical analysis of several incinerator exhaust gas samples for a variety of organic and inorganic substances.

Project Status

Authorization: Approved in 1985 Capital Budget.

Step I: Completed original report. Additional work required.

Step II: N/A

Step III: N/A

Objectives for 1989: Complete additional evaluations.

Objectives for Future Years

1990

1991

1992

1993

Appropriations

Expenditures to 12/31/87	\$ 306,619
Balance Required	193,381
Total Funds Required	500,000

1988 Capital Budget	500,000
1988 Budget Amendments	0
Total 1988 Approved Budget	500,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 500,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 306,619	\$ 306,619
1988			75,000	75,000
First Quarter 1989			10,000	10,000
Second Quarter 1989			10,000	10,000
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			98,381	98,381
Total			500,000	500,000

WAB:jlw
4.20.88

Project Description:

Evaluate capacity of the existing 5 pumps and their operation and maintenance. Analyze cost of providing a sixth pump for standby capacity which does not now exist. Also analyze cost and need providing 2 added pumps (total). This is estimated to be 655 mpg pumping capacity (current capacity has been estimated at 585 mgd using all five pumps). Assess impact of bypassing when existing pump capacity is exceeded.

Project Status

Authorization: The study was approved in the 1985 Capital Budget.

Step I: Completed

Step II:

Step III:

Objectives for 1989: None

Objectives for Future Years

1990

1991

1992

1993

Appropriations

Expenditures to 12/31/87	\$ 4,744
Balance Required	45,256
Total Funds Required	50,000
1988 Capital Budget	50,000
1988 Budget Amendments	0
Total 1988 Approved Budget	50,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 50,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 4,744	\$ 4,744
1988			256	256
First Quarter 1989				
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			45,000	45,000
Total			50,000	50,000

WAB:jlw
4.20.88

Project Description:

Evaluate potential uses of P&I #1 building, which is no longer in use. This would require removal of existing equipment and conversion to other uses. Potential uses identified to date include sludge loadout and/or sludge loading facility, warehouse space, lockers and showers, laboratory, training areas and offices. The best potential use may also be demolition of unused portions of the building and reserving the space for future expansion.

Project Status

Authorization: The study was approved in the 1985 Capital Budget.

Step I: The study has begun.

Step II:

Step III:

Objectives for 1989: Complete study.

Objectives for Future Years

1990

1991

1992

1993

Appropriations

Expenditures to 12/31/87	\$ 1,366
Balance Required	48,634
Total Funds Required	50,000
1988 Capital Budget	50,000
1988 Budget Amendments	0
Total 1988 Approved Budget	50,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 50,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 1,366	\$ 1,366
1988			30,000	30,000
First Quarter 1989			10,000	10,000
Second Quarter 1989			8,634	8,634
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			50,000	50,000

WAB:jlw
4.20.88

Project Description: Proposed facilities call for a split single stage activated sludge plant. Treatment will consist of preliminary treatment, existing primary clarifier, split flow to new activated sludge facilities with final clarification, recombining of flow to expanded chlorine facilities, dechlorination and pure oxygen supper saturation of effluent. Others major improvements include a building expansion, modification of existing clarifiers, new aeration system, electrical improvements, new controls and instrumentation, odor control for headworks and primary clarifiers and electrical power distribution improvements.

Project Status:

Authorization: Included in the 1986-1990 Development Program by amendment.

Step I: Complete.

Step II: To complete in 1988.

Step III: Initiate site work in 1988, rest of project in 1989. Substantially complete in 1991.

Objectives for 1989: Initiate construction of treatment facilities.

Objectives for Future Years

1990 - Continue construction.

1991 - Continue construction, substantial completion.

1992 - Complete project.

1993

**Rationale for
Additional Appropriation**

Appropriations

To provide for Step III construction.

Expenditures to 12/31/87	\$ 646,585
Balance Required	55,753,415
Total Funds Required	56,400,000
1988 Capital Budget	3,000,000
1988 Budget Amendments	2,000,000
Total 1988 Approved Budget	5,000,000
Additional 1989 Funds Requested	51,400,000
1989 Capital Budget	\$ 56,400,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 646,585	\$ 646,585
1988			2,500,000	2,500,000
First Quarter 1989			2,000,000	2,000,000
Second Quarter 1989			2,000,000	2,000,000
Third Quarter 1989			3,500,000	3,500,000
Fourth Quarter 1989			3,300,000	3,300,000
1990			16,500,000	16,500,000
1991			18,200,000	18,200,000
1992			5,400,000	5,400,000
1993			2,353,415	2,353,415
Estimated Contingency Funds				
Total			56,400,000	56,400,000

Project Description:

Consists of a study to physically inspect all regulators. Document electrical, mechanical, structural, hydraulic and safety deficiencies, such as explosion proof electrical systems, adequate ventilation, lighting, access and work space. Update available documentation (record drawings) as necessary. Conduct hydraulic analysis of regulators individually and as a system and assess the condition and operational benefits versus costs of the fabridams versus fixed weirs.

Project Status

Authorization: The study was approved in the 1985 Capital Budget.

Step I: The study has not begun.

Step II:

Step III:

Objectives for 1989: Preliminary work on the study.

Objectives for Future Years

1990

1991

1992

1993

Appropriations

Expenditures to 12/31/87	\$ 380
Balance Required	99,620
Total Funds Required	100,000
1988 Capital Budget	100,000
1988 Budget Amendments	0
Total 1988 Approved Budget	100,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 100,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$	\$ 380
1988				2,620
First Quarter 1989				
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				5,000
1990				92,000
1991				
1992				
1993				
Estimated Contingency Funds				
Total				100,000

Project Title Meter Station Improvements Number 85-59

Project Description:

The project will correct problems at 40 flow meter sites which are in need of replacement, rehabilitation, modification, consolidation or hydraulic improvements. Work will include structural, mechanical and electrical alterations. Also included in the project is the development of a standard meter specification to be applicable to all projects involving flow meters.

Project Status:

Authorization: Included in the 1986-1990 Development Program.

Step I: Completed.

Step II: Completed in late 1988.

Step III: Begin in early 1989, continue into 1990.

Objectives for 1989: To begin construction.

Objectives for Future Years

1990 - To continue the project.

1991 - To finalize the project.

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 133,962
Balance Required	3,366,038
Total Funds Required	3,500,000
1988 Capital Budget	3,500,000
1988 Budget Amendments	0
Total 1988 Approved Budget	3,500,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 3,500,000

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$	\$	\$ 133,962	\$ 133,962
1988			200,000	200,000
First Quarter 1989			160,000	160,000
Second Quarter 1989			360,000	360,000
Third Quarter 1989			760,000	760,000
Fourth Quarter 1989			760,000	760,000
1990			526,038	526,038
1991			600,000	600,000
1992				
1993				
Estimated Contingency Funds				
Total			3,500,000	3,500,000

Project Title Savage Interceptor Number 85-60

Project Description:

A new lift station will be constructed at the existing plant site. It will allow the phase-out of the Savage Plant and convey sewage to the Seneca WTP. Included in the project are a 12,500', 14" and 18" dual forcemain and a 10,800', 36" gravity line. The lift station will include a standby power generator. The project also includes the demolition of the existing plant to the condition requested by the City.

Project Status

Authorization: Included in the 1984-1988 Development Program.
 Step I: Completed.
 Step II: Completed.
 Step III: Substantially complete in 1988.

Objectives for 1989: Close out project.

Objectives for Future Years

1990
 1991
 1992
 1993

Rationale for
 Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 2,858,360
Balance Required	<u>2,841,640</u>
Total Funds Required	<u>5,700,000</u>
1988 Capital Budget	<u>6,000,000</u>
1988 Budget Amendments	<u>0</u>
Total 1988 Approved Budget	<u>6,000,000</u>
Additional 1989 Funds Requested	<u>(300,000)</u>
1989 Capital Budget	<u>\$ 5,700,000</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 2,858,360	\$ 2,858,360
1988			<u>2,531,640</u>	<u>2,531,640</u>
First Quarter 1989			<u>5,000</u>	<u>5,000</u>
Second Quarter 1989			<u>5,000</u>	<u>5,000</u>
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			<u>300,000</u>	<u>300,000</u>
Total			<u>5,700,000</u>	<u>5,700,000</u>

Project Description:

Consists of the remodeling of the Central Lab (Metro Plant Lab) which will provide additional and improved facilities to: 1) To accommodate increased laboratory activities; 2) to allow for an increase in efficiency of personnel and equipment by centralization; and 3) to better provide for the overall safety and general welfare of laboratory personnel. The modifications are consistent with the long range plans to assign all Quality Control Department personnel to the Metro Plant.

Project Status:

Authorization: The project was approved in the 1984-1988 Development Program.

Step I: Complete
Step II: Complete
Step III: Complete in 1987

Objectives for 1989: Close out project.

Objectives for Future Years

1990 - Finalize the project.
1991
1992
1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 784,629
Balance Required	36,371
Total Funds Required	821,000
1988 Capital Budget	821,000
1988 Budget Amendments	0
Total 1988 Approved Budget	821,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 821,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 784,629	\$ 784,629
1988			1,000	1,000
First Quarter 1989			1,000	1,000
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			34,371	34,371
Total			821,000	821,000

Project Description:

Consists of interim ash management at the Metro Plant which is required until the long-term plan, a central ash landfill can be provided. The project consists of a 50,000 cubic yard capacity ash basin and associated lining and decant system. The basin would be located in the vicinity of the existing ash basins at the Metro Plant.

Project Status

Authorization: Not Approved in the Development Program.

Step I: Complete

Step II: 75% complete

Step III: Not planned

Objectives for 1989: N/A

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Additional Ash Basin No. 5 not needed at this time because of other actions on ash disposition.

Appropriations

Expenditures to 12/31/87	\$ 35,440
Balance Required	0
Total Funds Required	35,440
1988 Capital Budget	800,000
1988 Budget Amendments	0
Total 1988 Approved Budget	800,000
Additional 1989 Funds Requested	(764,560)
1989 Capital Budget	\$ 35,440

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 35,440	\$ 35,440
1988			0	0
First Quarter 1989				
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			35,440	35,440

Project Description:

The existing Lakeville Lift Station has experienced insufficient capacity and other operational problems over the past several years. To remedy these problems, a new lift station will be constructed at the intersection of County Road 46 and Cedar Avenue in Apple Valley. The new lift station will be furnished with 4 pumps and will have a capacity of 6.5 mgd. It will be equipped with a standby power generator.

Project Status:

Authorization: Included in the 1984-1988 Development Program.

Step I: Completed.

Step II: Completed.

Step III: Begun in mid 1987, complete in 1988.

Objectives for 1989: Close out project.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 723,883
Balance Required	776,117
Total Funds Required	1,500,000
1988 Capital Budget	1,500,000
1988 Budget Amendments	0
Total 1988 Approved Budget	1,500,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 1,500,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 723,883	\$ 723,883
1988			566,117	566,117
First Quarter 1989			5,000	5,000
Second Quarter 1989			5,000	5,000
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			200,000	200,000
Total			1,500,000	1,500,000

Project Title Miscellaneous Capital Improvements Number 85-65

Project Description:

This program provides for additional miscellaneous improvements to the wastewater treatment plant and the interceptor systems. The projects are proposed to provide for more effective operations and eliminate deficiencies in the system.

Project Status

Authorization: The project was included in the 1985 Capital Budget.

Step I:

Step II:

Step III:

Objectives for 1989: To initiate and complete the remaining projects in the program.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 1,053,175
Balance Required	146,825
Total Funds Required	1,200,000
1988 Capital Budget	1,200,000
1988 Budget Amendments	0
Total 1988 Approved Budget	1,200,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 1,200,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 1,053,175	\$ 1,053,175
1988				
First Quarter 1989				
Second Quarter 1989				
Third Quarter 1989			50,000	50,000
Fourth Quarter 1989			55,000	55,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds			41,825	41,825
Total			1,200,000	1,200,000

PROJECT 85-65 MISCELLANEOUS CAPITAL IMPROVEMENTS

Project

Capital
Project Cost

Administration - Consists of completed project, general investigation of need for improvements, preliminary engineering for small projects, and contingency.

\$ 1,095,000

Interceptor Improvements Consists of:

Septage Discharge Site Improvements - Consists of improving septage discharge sites as required for safety, aesthetics and maintenance.

20,000

Metro Plant Process Piping and Conveying Improvements - Consists of an effluent water line for incinerators 5 & 6

85,000

\$ 1,200,000

Project Title Lake Phalen InterceptorNumber 85-66-370Project Description:

This project consists of approximately 13,000 feet of new sanitary sewer interceptor from Warner Road and Highway 61 to Lake Phalen.

Project Status

Authorization: Included in the 1984-1988 Development Program.
 Step I: Completed.
 Step II: Completed.
 Step III: Substantially complete in 1988.

Objectives for 1989: Finalize project.Objectives for Future Years

1990
 1991
 1992
 1993

Rationale for
Additional AppropriationAppropriations

Expenditures to 12/31/87	\$ 10,873,897*
Balance Required	676,103
Total Funds Required	11,550,000
1988 Capital Budget	11,850,000
1988 Budget Amendments	0
Total 1988 Approved Budget	11,850,000
Additional 1989 Funds Requested	(300,000)
1989 Capital Budget	\$ 11,550,000

* Includes proportionate amount of Step II costs.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 10,873,897	\$ 10,873,897
1988			556,103	556,103
First Quarter 1989			5,000	5,000
Second Quarter 1989			5,000	5,000
Third Quarter 1989			5,000	5,000
Fourth Quarter 1989			5,000	5,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds			100,000	100,000
Total			11,550,000	11,550,000

Project Title Beaver Lake Interceptor

Number

85-66-371Project Description:

This project consists of approximately 12,000 feet of new sanitary sewer interceptor from Margaret and Etna Streets to Beaver Lake.

Project Status

Authorization: Included in the 1984-1988 Development Program.

Step I: Completed.

Step II: Completed.

Step III: Construction from 1987 to 1989.

Objectives for 1989: Complete and close out the project.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional AppropriationAppropriations

Expenditures to 12/31/87	\$ 5,108,162*
Balance Required	5,041,838
Total Funds Required	10,150,000
1988 Capital Budget	10,450,000
1988 Budget Amendments	0
Total 1988 Approved Budget	10,450,000
Additional 1989 Funds Requested	(300,000)
1989 Capital Budget	\$ 10,150,000

* Includes proportionate amount of Step II costs.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 5,108,162	\$ 5,108,162
1988			4,739,838	4,739,838
First Quarter 1989			10,000	10,000
Second Quarter 1989			10,000	10,000
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			282,000	282,000
Total			10,150,000	10,150,000

Project Title Orono Interceptor ImprovementsNumber 85-67Project Description:

This project will involve constructing one new lift station, rebuilding three lift stations, eliminating one lift station, constructing 60,000 feet of 10" forcemain and 10,000 feet of 12" to 18" gravity interceptor. The improvements are needed to handle the increased flow from the City of Orono during wet weather periods.

Project Status

Authorization: Included in the 1984-1988 Development Program.
 Step I: Completed.
 Step II: Completed in 1988.
 Step III: Begun in 1988, substantially complete in 1989.

Objectives for 1989: Substantial completion of construction.

Objectives for Future Years

1990 - Close out project.
 1991
 1992
 1993

Rationale for
Additional AppropriationAppropriations

Provide for additional funds for construction based on the projection of project costs after the receipt of bids.

Expenditures to 12/31/87	\$	284,005
Balance Required		2,715,995
Total Funds Required		3,000,000
1988 Capital Budget		2,400,000
1988 Budget Amendments		0
Total 1988 Approved Budget		2,400,000
Additional 1989 Funds Requested		600,000
1989 Capital Budget		3,000,000

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$	\$	\$ 284,005	\$ 284,005
1988			500,000	500,000
First Quarter 1989			200,000	200,000
Second Quarter 1989			500,000	500,000
Third Quarter 1989			800,000	800,000
Fourth Quarter 1989			500,000	500,000
1990			215,995	215,995
1991				
1992				
1993				
Estimated Contingency Funds				
Total			3,000,000	3,000,000

Project Title Eagan Interceptor Improvements Number 85-68

Project Description:

A new lift station will be constructed adjacent to the existing lift station which will be salvaged and abandoned. At another station, the wet well will be expanded. Included in the project are a 80',18" forcemain, a 25",24" gravity line, a 14',12" gravity line and a 720',4" water main. The new lift station will include a standby power generator.

Project Status

Authorization: Included in the 1986-1990 Development Program.
 Step I: Completed.
 Step II: Completed.
 Step III: Begun in 1987, complete in 1988.

Objectives for 1989: To close out project.

Objectives for Future Years

1990
 1991
 1992
 1993

Rationale for
 Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 658,486
Balance Required	931,514
Total Funds Required	1,590,000
1988 Capital Budget	1,500,000
1988 Budget Amendments	90,000
Total 1988 Approved Budget	1,590,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 1,590,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 658,486	\$ 658,486
1988			911,514	911,514
First Quarter 1989			10,000	10,000
Second Quarter 1989			10,000	10,000
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			1,590,000	1,590,000

Project Title Stillwater Plant Expansion Number 86-53

Project Description:

The 1980 201 Facilities Plan Report recommended expansion of the Stillwater Plant to provide for advanced treatment of the combined Stillwater & Bayport wastewater flows. The facilities plan requires an update of wastewater flows, treatment alternatives & cost estimates. A design report, plans & specifications will be prepared based on the update.

Project Status

Authorization: Included in the 1986-1990 Development Program.
 Step I: Completed.
 Step II: Begin in 1988, complete in 1989.
 Step III: Begin in 1990, continue into 1992.

Objectives for 1989: To complete the design.

Objectives for Future Years

1990 - Begin construction.
 1991 - Continue construction.
 1992 - Complete construction.
 1993 - Close out project.

Appropriations

Expenditures to 12/31/87	\$ 10,800
Balance Required	1,989,200
Total Funds Required	2,000,000
1988 Capital Budget	1,000,000
1988 Budget Amendments	0
Total 1988 Approved Budget	1,000,000
Additional 1989 Funds Requested	1,000,000
1989 Capital Budget	\$ 2,000,000

**Rationale for
Additional Appropriation**

To provide for additional design funds based on information proposed by the design engineer for the Step II services.

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$	\$	\$ 10,800	\$ 10,800
1988			300,000	300,000
First Quarter 1989			300,000	300,000
Second Quarter 1989			300,000	300,000
Third Quarter 1989			300,000	300,000
Fourth Quarter 1989			300,000	300,000
1990			489,200	489,200
1991				
1992				
1993				
Estimated Contingency Funds				
Total			2,000,000	2,000,000

Project Description:

The Minneapolis Separation plans proposed separating some interceptors into both sanitary and storm water conduits. This project consists of the installation of approximately 8,000 ft. of elliptical specially coated corrugated metal pipe in the bottom of MWOC interceptor 1-MN-341 which will discharge into another MWOC interceptor. Along this length, connections are being made to the cities newly constructed sanitary only sewer. The remaining top portion of the interceptor will serve as storm water conveyance which will discharge to the river.

Project Status:

Authorization: Included in the 1986-1990 Development Program.

Step I: Completed.

Step II: Completed.

Step III: Completed, except for close out.

Objectives for 1989: Finalize the project.

Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 1,407,803
Balance Required	92,197
Total Funds Required	1,500,000
1988 Capital Budget	1,500,000
1988 Budget Amendments	0
Total 1988 Approved Budget	1,500,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 1,500,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 1,407,803	\$ 1,407,803
1988			37,197	37,197
First Quarter 1989			5,000	5,000
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			50,000	50,000
Total			1,500,000	1,500,000

Project Title Plymouth Interceptor Improvements Number 86-55

Project Description:

This project consists of the construction of a new Plymouth Lift Station, approximately 11,000 L.F. of 36-inch forcemain, 19,000 L.F. of 42-inch forcemain and improvements to the New Hope Lift Station. The new Plymouth Lift Station will contain increased wet well volume, dry well space for 6 pumps and on site standby power. The ultimate station capacity will be 50 mgd. The capacity of the New Hope Lift Station will be upgraded to 14 mgd through the installation of upgraded pumps and related electrical equipment.

Project Status:

Authorization: Included in the 1986-1990 Development Program.
 Step I: Completed.
 Step II: Completed.
 Step III: Begun in 1988, complete in 1990.

Objectives for 1989: To continue construction.

Objectives for Future Years

1990 - Complete construction.
 1991
 1992
 1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 717,558
Balance Required	9,282,442
Total Funds Required	10,000,000
1988 Capital Budget	9,500,000
1988 Budget Amendments	0
Total 1988 Approved Budget	9,500,000
Additional 1989 Funds Requested	500,000
1989 Capital Budget	\$ 10,000,000

To provide additional funds for construction based upon more detailed information.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 717,558	\$ 717,558
1988			3,000,000	3,000,000
First Quarter 1989			1,000,000	1,000,000
Second Quarter 1989			1,000,000	1,000,000
Third Quarter 1989			1,500,000	1,500,000
Fourth Quarter 1989			1,000,000	1,000,000
1990			1,782,442	1,782,442
1991				
1992				
1993				
Estimated Contingency Funds				
Total			10,000,000	10,000,000

Project Title Blaine InterceptorNumber 86-56Project Description:

The project consists of approximately 6,000 ft. of 21" gravity interceptor to serve southeastern Blaine and will connect to the existing MWCC interceptor, 4-NS-523, in Mounds View. The intersection point and alignment corridor have been agreed to with the City of Blaine. Construction of this project has the condition that it will proceed only after full assurance of Blaine's local sewerage system construction.

Project Status:

Authorization: Included in the 1986-1990 Development Program.

Step I: Completed.

Step II: To be coordinated with City plans.

Step III: The project is proposed to be delayed three years.

Objectives for 1989: Coordinate the project with the City.Objectives for Future Years

1990

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 359
Balance Required	1,699,641
Total Funds Required	1,700,000
1988 Capital Budget	1,700,000
1988 Budget Amendments	0
Total 1988 Approved Budget	1,700,000
Additional 1989 Funds Requested	(1,690,000)
1989 Capital Budget	\$ 10,000

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$	\$	359	\$ 359
1988			9,641	9,641
First Quarter 1989				
Second Quarter 1989				
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			10,000	10,000

Project Title Joint Interceptor Rehabilitation Number 86-58

Project Description:

This project will conduct rehabilitation work upon MWCC's Joint Interceptor (1-MS-100). The 9.2 mile long reinforced concrete pipe and reinforced sandrock tunnel facility was built from 1935 to 1938. It had annual walk through inspections and sporadic rehabilitation work until 1965. The last inspection was done in 1977 by camera on most of the deep tunnel. The results of the related access improvement project (86-59) will be used to help plan and design for this future rehabilitation work.

Project Status:

Authorization: Included in the 1986-1990 Development Program as a study.

Step I: Begin the study in 1989.

Step II: Initiate in 1990.

Step III:

Objectives for 1989: The project is proposed for a three year delay.

Objectives for Future Years

1990 - Initiate design.

1991

1992

1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 5,339
Balance Required	244,661
Total Funds Required	250,000
1988 Capital Budget	250,000
1988 Budget Amendments	0
Total 1988 Approved Budget	250,000
Additional 1989 Funds Requested	(240,000)
1989 Capital Budget	\$ 10,000

Proposed Expenditures and Funding Sources

Year	Fed. Grants	State Grants	Metropolitan Funds	Total
To 12/31/87	\$	\$	\$ 5,339	\$ 5,339
1988			4,661	4,661
First Quarter 1989			0	0
Second Quarter 1989			0	0
Third Quarter 1989			0	0
Fourth Quarter 1989			0	0
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			10,000	10,000

Project Title Joint Interceptor Access Improvements Number 86-59

Project Description:

This project consists of providing better and safer access to the 9.2 mile joint interceptor (1-MS-100) constructed from 1935 to 1938. There are presently only 9 large access points and it carries about 2/3 of the MWWTP flow. There is no opportunity to reroute the flow if a failure on the interceptor occurs. The last inspection in 1977 determined the location of various small and large leaks. These leaks have the potential to develop large voids in the sandstone tunnel portions. Adequate access is necessary to properly inspect and maintain the interceptor.

Project Status:

Authorization: Included in the 1986-1990 Development Program.
 Step I: Completed.
 Step II: Initiate in 1990.
 Step III:

Objectives for 1989: Initiate design.

Objectives for Future Years

1990 - Complete the design.
 1991 - Begin construction.
 1992 - Substantial completion.
 1993 - Finalize project.

Rationale for
Additional Appropriation

To provide funds to complete the study.

Appropriations

Expenditures to 12/31/87	\$ 89,874
Balance Required	60,126
Total Funds Required	150,000
1988 Capital Budget	125,000
1988 Budget Amendments	0
Total 1988 Approved Budget	125,000
Additional 1989 Funds Requested	25,000
1989 Capital Budget	\$ 150,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 89,874	\$ 89,874
1988			35,126	35,126
First Quarter 1989			0	0
Second Quarter 1989			10,000	10,000
Third Quarter 1989			10,000	10,000
Fourth Quarter 1989			5,000	5,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			150,000	150,000

Project Title Trout Brook Interceptor Number 86-60

Project Description:

This project consists of construction of a sanitary sewer pipe adjacent to existing interceptors 1-SP-244, 1-SP-222 and 1-SP-220 in St. Paul. It will consist of approximately 4 miles (including lateral sewers) of gravity sewer varying in size from 21 inch diameter at its upstream connection to 60 inch diameter at its downstream connection to the Joint Interceptor. Numerous combined sewers and separate sanitary sewers will be connected to the new interceptor along its alignment. The connections will be regulated until such time that St. Paul has completed its sewer separation program. The capacity of the Trout Brook Interceptor will vary from approximately 35 cfs at its upstream end to 130 cfs at its downstream connection to the Joint Interceptor.

Project Status:

Authorization: The project is in the 1986-1990 Development Program.

Step I: Complete

Step II: Complete in 1987

Step III: Substantial completion in 1989.

Objectives for 1989: To substantially complete project.

Objectives for Future Years

1990 - Close out project.

1991

1992

1993

Rationale for
Additional Appropriation

To provide additional funds for construction based on projected construction cost based on the bids

Appropriations

Expenditures to 12/31/87	\$ 747,106
Balance Required	<u>8,752,894</u>
Total Funds Required	<u>9,500,000</u>

1988 Capital Budget	<u>8,500,000</u>
1988 Budget Amendments	<u>0</u>
Total 1988 Approved Budget	<u>8,500,000</u>
Additional 1989 Funds Requested	<u>1,000,000</u>
1989 Capital Budget	<u>\$ 9,500,000</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ _____	\$ _____	\$ 747,106	\$ 747,106
1988	_____	_____	7,200,000	7,200,000
First Quarter 1989	_____	_____	500,000	500,000
Second Quarter 1989	_____	_____	600,000	600,000
Third Quarter 1989	_____	_____	200,000	200,000
Fourth Quarter 1989	_____	_____	200,000	200,000
1990	_____	_____	52,894	52,894
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
1993	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	_____	_____
Total	_____	_____	9,500,000	9,500,000

Project Description:

This program provides for additional miscellaneous improvements to the wastewater treatment plant and the interceptor systems. The projects are proposed to provide for more effective operation and eliminate deficiencies in the system.

Project Status

Authorization: This project was included in the 1986-1990 Development Program.

Step I:

Step II:

Step III:

Objectives for 1989: To continue to initiate and construct the high priority projects in the programs.

Objectives for Future Years

1990 - To continue design and construction.

1991 - To continue design and construction.

1992 - To continue design and construction.

1993 - To complete construction.

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ <u>984,926</u>
Balance Required	<u>3,015,074</u>
Total Funds Required	<u>4,000,000</u>
1988 Capital Budget	<u>4,000,000</u>
1988 Budget Amendments	<u>0</u>
Total 1988 Approved Budget	<u>4,000,000</u>
Additional 1989 Funds Requested	<u>0</u>
1989 Capital Budget	\$ <u>4,000,000</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ _____	\$ _____	\$ 984,926	\$ 984,926
1988	_____	_____	813,032	813,032
First Quarter 1989	_____	_____	175,000	175,000
Second Quarter 1989	_____	_____	175,000	175,000
Third Quarter 1989	_____	_____	175,000	175,000
Fourth Quarter 1989	_____	_____	175,000	175,000
1990	_____	_____	350,000	350,000
1991	_____	_____	350,000	350,000
1992	_____	_____	350,000	350,000
1993	_____	_____	350,000	350,000
Estimated Contingency Funds	_____	_____	102,042	102,042
Total	_____	_____	4,000,000	4,000,000

PROJECT 86-65 MISCELLANEOUS CAPITAL IMPROVEMENTS

<u>Project</u>	<u>Capital Project Cost</u>
Cherokee Avenue Sewer Construction (531).	150,000
Interceptor Reliability Equipment - Additional portable standby generators for lift stations, larger portable pump and piping for handling diversion pumping during emergency repairs (532).	250,000
Pt. Douglas Road Lift Station Improvements - Modify/replace pumps to match flow and head conditions (542).	50,000
Computerized Inventory Interceptor System - Adapt a computerized inventory system to existing interceptors to provide planning and management tool.	50,000
Brooklyn Park Lift Station & Forcemain Improvements - Increase pump capacity and improve odor control and forcemain (533).	140,000
Blue Lake Plant Improvements - Piping modifications for process control.	20,000
Metro Plant Odor Control Improvements - Improvements to chemical scrubber system ventilation systems for solids processing facilities. Add compost odor control system to supplement chemical scrubber systems (547,549).	200,000
Metro Plant Energy Conservation Improvements - Window panel insulation for F&I #2 and compressor building. HVAC survey of plant (552).	250,000
Pt. Douglas Road Interceptor Improvements - Relocate approximately 1,500 ft. of dual pipe outside of new highway improvements (530).	220,000
Metro Plant Alternative Power Supply for Gravity Thickening Units - This area does not have dual power supply at present (535).	90,000
Reconstruction of 1,000 ft. of 48" pipe MSB 77-73 on State Highway 101, north of Highway 7 in the City of Minnetonka.	200,000
Meter Station Improvements - Consists of improving meter hydraulics, maintenance access and equipment as problems are identified.	250,000
Shakopee Lift Station Odor Control - Install control facilities, meter improvements and modify ventilation as needed.	140,000
Burnsville Lift Station Improvements - Improve ventilation, provide odor control, step II for pumping, piping and electrical modifications (543,545).	200,000
Moundsview Lift Station - New lift station roof, storage building for equipment, vehicles and standby generators (548).	225,000
France Avenue Interceptor Repair (365).	100,000
Portland & Washington Regulator Modifications (538).	100,000
Long Lake Lift Station Pump - Addition for peak flow (541).	50,000

ProjectCapital
Project Cost

Vadnais Hts. Lift Station Phase-Out Study (539).	20,000
Metro Plant Improvements - Flow meters, control valves, density meters, sludge blanket sensors for sludge thickening processes.	150,000
Filter Modifications - Include modifying filter press system to achieve uniform feed to incinerators, modifying vacuum filter system to dewater thermally conditioned sludge and adding dewatering area field lab (550).	250,000
Effluent Foam Control System Improvements (540).	75,000
HVAC Study - Plant wide study to recommend improvements to reduce energy costs (534).	100,000
Bio selector piping modifications.	50,000
Scum Piping Revisions to Remove Scum from West Activated Sludge.	40,000
Provide Additional Administration Office Space (544).	250,000
Incinerator 9/10 Hear Reclamation - Shaft cooling air.	75,000
Steam Flow Meters.	40,000
Scum Burning System Modifications and #5 Fuel Oil Storage Tank.	35,000
Ash Handling Improvements.	65,000
Zero Hearth Burners for Odor Control.	100,000
Fuel Oil Storage Tank for Emergency Generator (551).	<u>65,000</u>
	4,000,000

() Numbers in parenthesis indicate assigned location numbers for this program.

Project Description:

The present site of the Anoka Plant will serve as the location for a new 5.7 mgd lift station. It will allow phase-out of the Anoka WWTP and convey sewage to the Metro WWTP. Included in the project is a 4,000 ft. 18-inch forcemain across the Mississippi River into Champlin connecting to the existing CAB interceptor. A new magnetic flowmeter will be required on this project.

Project Status:

Authorization: Included in the 1986-1988 Development Program.
 Step I: Completed.
 Step II: To begin in 1988, complete in 1989.
 Step III: To begin in 1990, continue through 1991.

Objectives for 1989: To complete design.

Objectives for Future Years

1990 - Initiate construction.
 1991 - Complete construction.
 1992 - Close out project.
 1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 1,000
Balance Required	299,000
Total Funds Required	300,000
1988 Capital Budget	300,000
1988 Budget Amendments	0
Total 1988 Approved Budget	300,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 300,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 1,000	\$ 1,000
1988			50,000	50,000
First Quarter 1989			50,000	50,000
Second Quarter 1989			50,000	50,000
Third Quarter 1989			50,000	50,000
Fourth Quarter 1989			50,000	50,000
1990			49,000	49,000
1991				
1992				
1993				
Estimated Contingency Funds				
Total			300,000	300,000

Project Title MWWTP Effluent Pumping Station Improvements Number 87-52

Project Description:

The project will provide additional capacity and any necessary improvements to the existing effluent pumping station to be compatible with the capacity of the influent interceptor to the plant. The study for this (85-66-319) determined that one added pump (a sixth) was needed. A project for new controls will be provided initially and the sixth pump will be added in the future.

Project Status

Authorization: Included in the 1986-1990 Development Program.
 Step I: Completed.
 Step II: Begun in late 1987, complete in 1988.
 Step III: Begin in 1989 for the instrument portion. It is proposed to delay the additional pump for 3 years.

Objectives for 1989: Initiate construction.

Objectives for Future Years

1990 - Complete construction.
 1991
 1992
 1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 20,000	est.
Balance Required	700,000	
Total Funds Required	720,000	
1988 Capital Budget	200,000	
1988 Budget Amendments	0	
Total 1988 Approved Budget	200,000	
Additional 1989 Funds Requested	520,000	
1989 Capital Budget	\$ 720,000	

To provide additional funds for construction.

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 20,000	\$ 20,000
1988			200,000	200,000
First Quarter 1989			50,000	50,000
Second Quarter 1989			50,000	50,000
Third Quarter 1989			50,000	50,000
Fourth Quarter 1989			350,000	350,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			720,000	720,000

Project Description:

The program provides for: 1) Commission long-range and facility planning, Implementation Plan coordination and preparations, and coordination and cooperation with Metropolitan Council on policy plans, implementation plans, and capital budget matters and 2) Council's planning and review activities relative to the Commission's capital improvements program.

Project Status

Authorization: Authorized in the 1987 Capital Budget process.

Step I:

Step II:

Step III:

Objectives for 1989: 1) Commission to implement facility planning studies, complete Implementation Plan and coordinate with Council in planning and review process. 2) Council to review Commission planning, review and approve Implementation Plan, and continue joint studies.

Objectives for Future Years.

1990 - To continue the program.

1991 - To continue the program.

1992 - To continue the program.

1993 - To continue the program.

Rationale for
Additional Appropriation

Additional funds are necessary to carry on long range planning at the Council and Commission to complete the First Implementation Plan and carry on facility planning and coordination efforts.

Appropriations

Expenditures to 12/31/87	\$ 451,000
Balance Required	2,520,000
Total Funds Required	2,971,000
1988 Capital Budget	2,110,000
1988 Budget Amendments	0
Total 1988 Approved Budget	2,110,000
Additional 1989 Funds Requested	861,000
1989 Capital Budget	\$ 2,971,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 451,000	\$ 451,000
1988			1,565,000	1,565,000
First Quarter 1989			280,000	280,000
Second Quarter 1989			225,000	225,000
Third Quarter 1989			225,000	225,000
Fourth Quarter 1989			225,000	225,000
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			2,971,000	2,971,000

Project Description

The project consists of the construction of about two miles of eight foot diameter parallel interceptor to the existing Minneapolis East Interceptor. Phase II of the interceptor extends from Third Avenue & Fifth Street NE & up to Marshall Ave. & 22nd St.

Project Status

Authorization: Included in the Development Program for years 1981-1986.
 Step I: Completed.
 Step II: Design is being updated in early 1988.
 Step III: Construction will start in fall of 1989.

Objectives for 1989: Continue construction.

Objectives for Future Years

1990 - Continue construction.
 1991 - Continue construction.
 1992 - Complete construction.
 1993 -

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$	<u>0</u>
Balance Required		<u>26,000,000</u>
Total Funds Required		<u>26,000,000</u>
1988 Capital Budget		<u>26,000,000</u>
1988 Budget Amendments		<u>-2,000,000</u>
Total 1988 Approved Budget		<u>24,000,000</u>
Additional 1989 Funds Requested		<u>0</u>
1989 Capital Budget		<u>24,000,000</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 0	\$ 0
1988			100,000	100,000
First Quarter 1989			25,000	25,000
Second Quarter 1989			25,000	25,000
Third Quarter 1989			100,000	100,000
Fourth Quarter 1989			1,000,000	1,000,000
1990			7,000,000	7,000,000
1991			7,000,000	7,000,000
1992			2,750,000	2,750,000
1993				
Estimated Contingency Funds			6,000,000	6,000,000
Total			<u>24,000,000</u>	<u>24,000,000</u>

Project Title Metro Plant RBS Improvements Number 87-55

Project Description:

Consists of new end stud shafts which have higher strength and are more resistant to corrosion. A spray water system will be included to control sludge build-up and enable more efficient operation. Improvements will be made to all 50 units.

Project Status

Authorization: Included in the 1987 budget by amendment.
 Step I: Completed.
 Step II: Completed.
 Step III:

Objectives for 1989: To complete construction.

Objectives for Future Years

1990
 1991
 1992
 1993

Rationale for
 Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 5,000
Balance Required	1,245,000
Total Funds Required	1,250,000
1988 Capital Budget	900,000
1988 Budget Amendments	350,000
Total 1988 Approved Budget	1,250,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 1,250,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 5,000	\$ 5,000
1988			150,000	150,000
First Quarter 1989			300,000	300,000
Second Quarter 1989			300,000	300,000
Third Quarter 1989			300,000	300,000
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds			195,000	195,000
Total			1,250,000	1,250,000

Project Description:

This project involved work authorized under emergency conditions to replace portions of a large gravity interceptor sewer, siphon head box, and portions of a 3-barrel siphon. The replacement improvements were constructed very similar to the prior existing facilities and will serve the same purpose in the system.

Project Status

Authorization: Project was constructed under emergency conditions & the 1987 Capital
 Step I: Budget was amended to include capital funds.
 Step II:
 Step III:

Objectives for 1989: Complete the project and resolve legal actions.

Objectives for Future Years

1990
 1991
 1992
 1993

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87 \$ _____
 Balance Required _____
 Total Funds Required _____
 1988 Capital Budget _____
 1988 Budget Amendments _____
 Total 1988 Approved Budget _____
 Additional 1989 Funds Requested _____
 1989 Capital Budget \$ _____

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$ 805,408	\$ 0	\$ 4,987,252	\$ 5,792,660
1988	4,194,592	1,000,000	(3,487,252)	1,707,340
First Quarter 1989	_____	_____	_____	_____
Second Quarter 1989	_____	_____	_____	_____
Third Quarter 1989	_____	_____	_____	_____
Fourth Quarter 1989	_____	_____	_____	_____
1990	_____	_____	_____	_____
1991	_____	_____	_____	_____
1992	_____	_____	_____	_____
1993	_____	_____	_____	_____
Estimated Contingency Funds	_____	_____	_____	_____
Total	5,000,000	1,000,000	1,500,000	7,500,000

Project Title Trout Brook N.W. Interceptor ExtensionsNumber 88-51Project Description

This project consists of a new sanitary sewer extensions off the current Trout Brook Interceptor. The extension is in accord with the CSO plan and will allow the city to convert existing combined sewers to storm sewers as part of their sewer separation program.

Project Status

Authorization: The project will be included in the Development Program by amendment.
 Step I: Contained in the CSO facility plan.
 Step II: To be completed in 1988 and 1989.
 Step III:

Objectives for 1989: To complete the design.

Objectives for Future Years

1990
 1991
 1992
 1993

Rationale for
 Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 0
Balance Required	210,000
Total Funds Required	210,000
1988 Capital Budget	0
1988 Budget Amendments	210,000
Total 1988 Approved Budget	210,000
Additional 1989 Funds Requested	0
1989 Capital Budget	\$ 210,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 0	\$ 0
1988			50,000	50,000
First Quarter 1989			100,000	100,000
Second Quarter 1989			60,000	60,000
Third Quarter 1989				
Fourth Quarter 1989				
1990				
1991				
1992				
1993				
Estimated Contingency Funds				
Total			210,000	210,000

Project Title Miscellaneous Capital Improvements Number 88-65

Project Description

This program provides for additional miscellaneous improvements to the wastewater treatment plant and interceptor systems. The projects are proposed to provide for more effective operation and eliminate deficiencies in the system.

Project Status

Authorization: The project was included in the 1986-1990 Development Program.
 Step I:
 Step II:
 Step III:

Objectives for 1989: To continue to initiate design and construction of the internal high priority projects in the programs.

Objectives for Future Years

1990 - To continue design and construction.
 1991 - To continue design and construction.
 1992 - To continue design and construction.
 1993 - To complete construction.

Rationale for
 Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$ 0
Balance Required	<u>2,500,000</u>
Total Funds Required	<u>2,500,000</u>
1988 Capital Budget	<u>2,500,000</u>
1988 Budget Amendments	<u>0</u>
Total 1988 Approved Budget	<u>2,500,000</u>
Additional 1989 Funds Requested	<u>0</u>
1989 Capital Budget	<u>\$ 2,500,000</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ 0	\$ 0
1988			570,000	570,000
First Quarter 1989			100,000	100,000
Second Quarter 1989			100,000	100,000
Third Quarter 1989			225,000	225,000
Fourth Quarter 1989			225,000	225,000
1990			550,000	550,000
1991			275,000	275,000
1992			275,000	275,000
1993			100,000	100,000
Estimated Contingency Funds			80,000	80,000
Total			<u>2,500,000</u>	<u>2,500,000</u>

PROJECT 88-65 MISCELLANEOUS CAPITAL IMPROVEMENTS

<u>Project</u>	<u>Capital Project Cost</u>
Mpls./St. Paul Regulator Improvements - Consists of structural, hydraulic and safety improvements for regulators returned to MWCC (559).	250,000
Seneca - Provide for improved plant odor control and necessary ventilation improvements.	150,000
Crystal Lift Station - Provide odor control for station.	100,000
Cottage Grove Interim Improvements - Upgrade grit removal, sludge pumping, chlorination facility and renovate filter building.	100,000
Metro Plant Computer Room Ventilation - Includes elimination of odorous/corrosive air to certain computer rooms and improved ventilation for E/G computer room for personnel health and safety.	200,000
Underground Storage Tank Improvements - Include leak detection, corrosion protection, secondary containment as required by upcoming state and federal regulation changes.	200,000
Metro Plant Storm Sewer Modification - Consists of changing storm sewer discharge point to downstream of dechlorination facility.	250,000
Burnsville Lift Station Modifications - Provides construction funding for modifying electrical, pumping and structural improvements to forcemain.	200,000
Metro Plant Grit Dewatering - Provides for improvements to obtain drier grit (558).	250,000
Metro Plant Screenings - Provides for improvements to obtain drier screenings for disposal.	250,000
Metro Plant Warehouse Sprinkler System - Provides for adding an automatic sprinkler system for 7,500 sq. ft. of warehouse space to reduce fire risk (555).	120,000
Metro Plant Roadway & Parking Area Lighting - Provides for adding 5 units of outdoor lighting to the employee entrance and parking area and 12 units of lighting to the roadway and parking areas near the effluent pump station and new dechlorination facilities (563).	55,000
Metro Plant Internal Lighting Improvements - Consists of converting 950 units of incandescent and/or mercury vapor lamps in the tunnels and galleries to high pressure sodium vapor units.	125,000
Relocation of approximately 1,200 ft. of Interceptor MSB 70-25 in Eden Prairie along TH No. 5 to allow for highway improvements (560).	250,000
	<hr/> 2,500,000

SCEHDULE OF
PROJECTS COMPLETED OR TO BE COMPLETED IN 1988

<u>Project Number</u>	<u>Project Description</u>
83-65	Miscellaneous Capital Improvements
85-62	Metro Plant Ash Basin

SCHEDULE OF
PROJECTS COMPLETED OR TO BE COMPLETED IN 1989

<u>Project No.</u>	<u>Project Title</u>
72-07	Regional Maintenance & Dispatch Building
77-05	Lower Beltline Interceptor
79-06	Hastings WWTP Expansion
79-80	MWWTP Additional Secondary Treatment - East Battery
81-51	Lake Gervais Interceptor
82-58	MWWTP West Secondary Facilities Rehabilitation
82-59	Blue Lake WWTP Sludge Thickening Facilities
83-52	Maple Plain Interceptor
83-58	MWWTP Disinfection
83-61	Lino Lakes Interceptor
83-65	Miscellaneous Capital Improvements
84-51	New Brighton Interceptor
85-53	MWWTP Water Supply Improvements
85-61	MWWTP Laboratory Modifications
85-66-370	Lake Phalen Interceptor
85-66-371	Beaver Lake Interceptor
86-54	Minneapolis 38th Street Interceptor Separation

SUMMARY OF NEW PROJECT - REQUEST FOR FUNDING

<u>Project #</u>	<u>Project Name</u>	<u>Step</u>	<u>Estiamted Costs</u>
89-01	St. Paul/MWCC Interceptor Extensions	II,III	\$ 4,400,000
89-65	Misc. Capital Improvements	II,III	<u>3,000,000</u>
TOTAL			\$ 7,400,000

SCHEDULE-13

Project Title St. Paul/MWCC Interceptor ExtensionsNumber 89-01Project Description

This project consists of three new sanitary sewer extensions off the current Trout Brook Interceptor. The extensions are in accord with the CSO plan and will allow the city to convert existing combined sewers to storm sewers as part of their sewer separation programs.

Project Status

Authorization: The project will be included in the Development Program by amendment.
 Step I: Contained in the CSO facility plan.
 Step II:
 Step III:

Objectives for 1989: To provide for the design and construction.

Objectives for Future Years

1990 - Construction of the interceptor extensions.
 1991
 1992
 1993

Rationale for
Additional AppropriationAppropriations

Expenditures to 12/31/87	\$ 0
Balance Required	4,400,000
Total Funds Required	4,400,000
1988 Capital Budget	0
1988 Budget Amendments	0
Total 1988 Approved Budget	0
Additional 1989 Funds Requested	4,400,000
1989 Capital Budget	\$ 4,400,000

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	0	\$ 0
1988			0	0
First Quarter 1989			50,000	50,000
Second Quarter 1989			300,000	300,000
Third Quarter 1989			300,000	300,000
Fourth Quarter 1989			250,000	250,000
1990			3,500,000	3,500,000
1991				
1992				
1993				
Estimated Contingency Funds				
Total			4,400,000	4,400,000

Project Description:

This program provides for additional miscellaneous improvements to the wastewater treatment plants and the interceptor systems. The projects are proposed to provide for more effective operation and eliminate deficiencies in the system.

Project Status

Authorization:

Step I:

Step II:

Step III:

Objectives for 1989: To initiate the planning, design and construction of the high priority projects in the program.

Objectives for Future Years

1990 To continue design and construction.

1991 To continue design and construction.

1992 To continue design and construction.

1993 To complete construction.

Rationale for
Additional Appropriation

Appropriations

Expenditures to 12/31/87	\$	<u>0</u>
Balance Required		<u>0</u>
Total Funds Required		<u>0</u>
1988 Capital Budget		<u>0</u>
1988 Budget Amendments		<u>0</u>
Total 1988 Approved Budget		<u>0</u>
Additional 1989 Funds Requested		<u>3,000,000</u>
1989 Capital Budget	\$	<u>3,000,000</u>

Proposed Expenditures and Funding Sources

<u>Year</u>	<u>Fed. Grants</u>	<u>State Grants</u>	<u>Metropolitan Funds</u>	<u>Total</u>
To 12/31/87	\$	\$	\$ <u>0</u>	\$ <u>0</u>
1988			<u>0</u>	<u>0</u>
First Quarter 1989			<u>25,000</u>	<u>25,000</u>
Second Quarter 1989			<u>25,000</u>	<u>25,000</u>
Third Quarter 1989			<u>25,000</u>	<u>25,000</u>
Fourth Quarter 1989			<u>50,000</u>	<u>50,000</u>
1990			<u>375,000</u>	<u>375,000</u>
1991			<u>1,000,000</u>	<u>1,000,000</u>
1992			<u>1,000,000</u>	<u>1,000,000</u>
1993			<u>500,000</u>	<u>500,000</u>
Estimated Contingency Funds				
Total			<u>3,000,000</u>	<u>3,000,000</u>

PROJECT 89-65 MISCELLANEOUS CAPITAL IMPROVEMENTS

<u>Project</u>	<u>Capital Project Cost</u>
Metro Plant Final Settling Tank Flow Control Improvements - Provides for adding level sensing devices on each of the 24 final settling tanks (one per tank) to aid in equalizing flow distribution.	100,000
Metro Plant Dewatered Sludge Loadin Facility - Provide facilities to allow transfer of dewatered sludge that is temporarily stored on-site as a result of conveyor weigh scale checks and/or emergency loadout, to the sludge conveying system that feeds the incinerators.	150,000
Metro Plant Return Activated Sludge (RAS) Pump Replacement - Consists of replacing the 12 original RAS pumps installed in the West Secondary in 1966 with new larger pumps with variable frequency drives.	200,000
Metro Plant Emergency Lighting and Sump Pump Wiring - Provides for emergency power from standby generators during power outages.	50,000
Metro Plant Air Compressor Inlet Filter Improvements - Provides for additional air inlet capacity by adding a louvered penthouse to the Compressor Building.	150,000
Metro Plant Storm Water and Underdrain Pumping Station Improvements - Relocates pump motors from below grade pit and install in new building at grade to prevent future pump station flooding.	100,000
Metro Plant East Primary Standby Generator Replacement - Provides for more reliable standby power for critical electrical loads in the east primary facilities.	100,000
Metro Plant Vehicle Service Addition to Maintenance Building - Provides for a study to determine necessary improvements.	50,000
Metro Plant East and West Pretreatment Building Roof Replacement - Provides for new membrane roof systems for these buildings.	250,000
Metro Plant Decant Tank Lining - Provides for corrosion protection/lining on four decant tanks to prevent leaks and corrosion damage.	100,000
Metro Plant F&I #1 Modifications (Phase I) - Provides for removing obsolete equipment and minor structural renovation needed for safety considerations.	150,000
Metro Plant Closure of Ash Ponds - Provides for necessary actions to decommission three ash ponds in accordance with applicable state and local governmental ordinances.	50,000
Metro Plant Ash Pond Improvements - Provides for liner improvements and necessary piping changes in one ash pond.	100,000
Metro Plant Ash Landfill Closure - Provides for final landfill closure actions/improvements to satisfy MPCA regulations and local ordinances.	50,000
Metro Plant Fuel Oil and Lubricant Handling Improvements	50,000

Hastings Plant Improvements - Provides for locker room and meeting room space, foam control improvements and thickened sludge pumping improvements.	200,000
Interceptor System Minneapolis West Meter Station Odor Control - Provides for adding carbon odor control system for ventilation air from the Mpls. northwest and southwest flow meter stations.	165,000
Wayzata Lift Station Pump Control Improvements - Provides for installing a variable speed control system and updated supervisory controls.	150,000
Long Lake Lift Station Odor Control Improvements - Provides for the addition of a carbon odor control system and related ventilation improvements and modifications.	100,000
Metro Plant Solids Processing Building - Provides for the replacement of the power air compressors.	120,000
Metro Plant Maintenance Facility Improvements Study - Relates to studying the need for improvements to the warehouse area, pipe shop, tool cribs, office space, paint shop, ventilation and vehicle washing.	50,000
Metro Plant Induced Draft Fan Improvements Study - To evaluate the cost benefit of installing variable speed drives and controls for the six incinerator-induced draft fans.	50,000
Metro Plant Asbestos Abatement Study	30,000
Metro Plant Filter Press Instrumentation & Control Rehabilitation - Replace or rehabilitate filter press instrumentation and controls that have been damaged by corrosion.	100,000
Metro Plant NDS Multiplexer Replacement - Replace at least 5 of the 26 NDS multiplexers which have been in service for ten years or longer and have no backup control units.	150,000
MWWTP Administration Building Lab and Basement Improvements - Includes new hoods, exhaust fan, stacks, duct work and offices.	100,000
MWWTP Outdoor Lighting - Provides for additional lighting for the east parking lot, pole barn area, and the north parking lot.	75,000
MWWTP Power System Evaluation and Protective Device Coordination - Provides for an evaluation and coordination study for protective device coordination and one line diagram update.	60,000

\$3,000,000

Revised 8/1/88

SCHEDULE 13-2.2

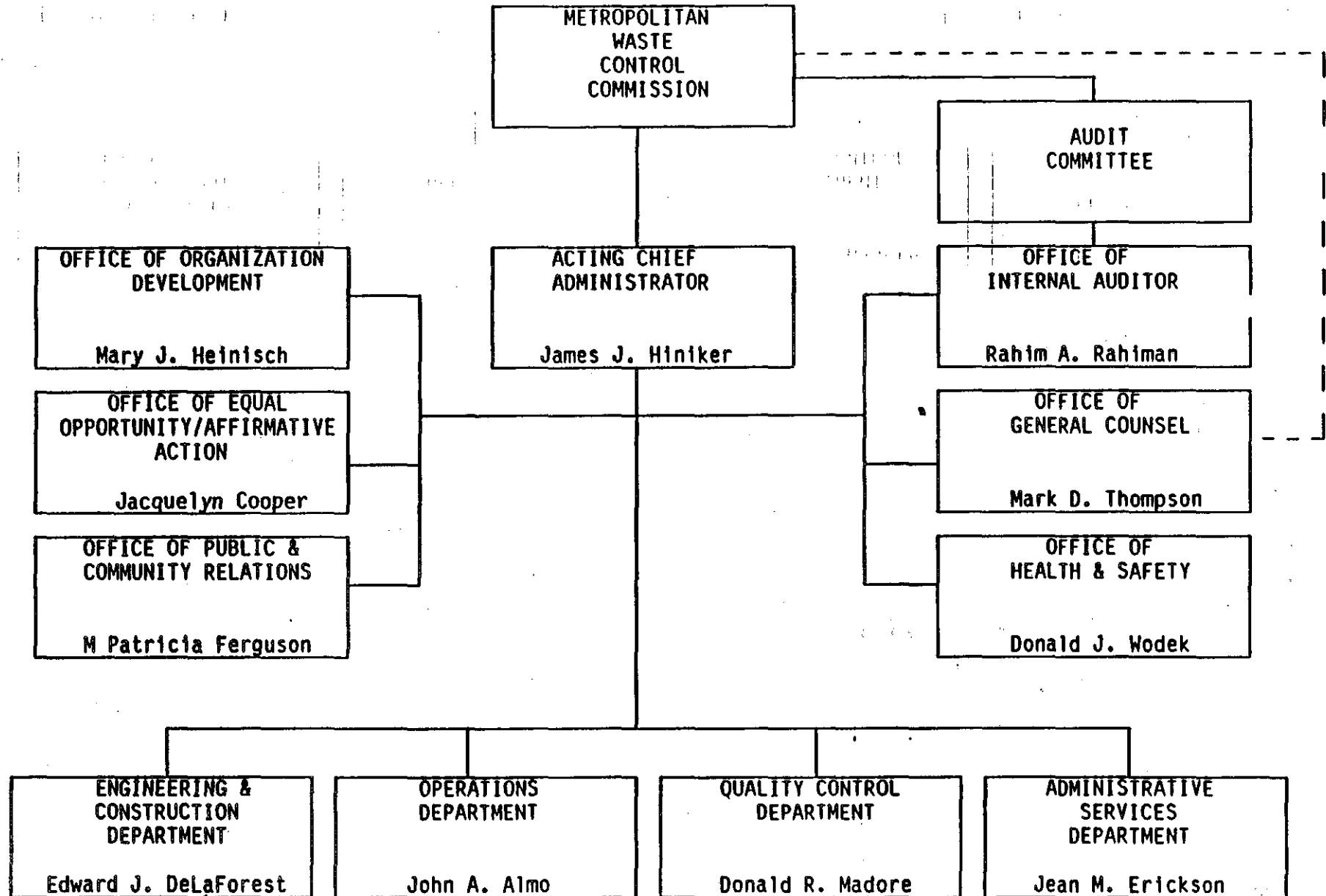
STATUS OF AUTHORIZED PERSONNEL

<u>Department/Plant</u>	<u>1989 Budget</u>
Administration	25
Engineering/Construction	77
Quality Control*	91
Planning	20
<u>Operations:</u>	
Central Office	9
Empire	29
Metro - Operations	321
Metro - Maintenance	176
Seneca	53
Blue Lake	34
Anoka	4
Savage	0
Cottage Grove	4
Chaska	3
Bayport	1
Stillwater	9
Rosemount	1
Hastings	6
Interceptor	60
Regional Facility	<u>7</u>
Total Operations	717
Administrative Services	<u>50</u>
Total	<u>980</u>

* This does not include two (2) five year positions that were authorized by the Commission in 1988.

METROPOLITAN WASTE CONTROL COMMISSION

ORGANIZATIONAL CHART
NOVEMBER, 1988



PROJECTED AVERAGE COST PER HOME & PER 100,000 GPY 1989-1998
INFORMATION ON SAC RATES FOR 1989

<u>YEAR</u>	<u>AVERAGE HOME RATE</u>	<u>% INCREASE</u>	<u>RATE 100,000 GPY</u>	<u>% INCREASE</u>
1989	\$ 76.52		\$ 91.74	
1990	80.86	5.67	95.55	4.15
1991	84.12	4.02	99.45	4.08
1992	87.85	4.44	103.92	4.50
1993	91.32	3.95	108.07	3.99
1994	95.18	4.22	112.68	4.26
1995	99.21	4.24	117.49	4.27
1996	103.60	4.43	122.74	4.47
1997	107.77	4.02	127.71	4.05
1998	112.06	3.98	132.84	4.01
AVERAGE % INCREASE		4.33		4.20

The SAC Rate for 1989 will be \$575.00 for communities with interceptors and \$390 for communities without interceptors. This conforms with the SAC Study recommendation by the Joint Committee of the Metro Council-Commission.

Assumptions made in projecting future rates:

1. Inflation will average 4.5% for the period.
2. No new interceptors will be acquired during the ten year period.
3. A bond sale for \$15 million will occur in February, 1989. The interest rate will approximate 7.2%.

In July 1989, a loan from the Revolving Loan Fund will occur in the amount of \$25 million. In 1990 through 1998, the bonding (loan) needs will average \$45 million with the majority of the funding coming through the Revolving Loan Fund. The interest rate for the Revolving Fund Loans and any required bond sales will average 7%, which is a conservative estimate as the Public Facilities Authority has indicated that the interest cost will average much less than that.

4. Projections of total flows are based on Metropolitan Council projections of growth in the Metropolitan area.
5. Debt service requirements for reserve (unused) capacity will continue to be funded entirely through SAC charges through the year 1998 as supported by the 1988 SAC Study.

The projected construction costs for the years through 1998 are as follows:

<u>Year</u>	<u>Amount</u>
1988	\$ 61,557,259
1989	46,085,134
1990	68,085,501
1991	66,749,727
1992	33,227,104
1993	34,102,768
1994	38,020,942
1995	48,580,245
1996	28,365,545
1997	31,062,131
1998	43,780,688

The charges for the seven cost centers are as follows:

	<u>1989</u>	<u>1988</u>	<u>% Increase</u>
Treatment Works Cities	\$ 84.47	\$ 77.95	8.37
Service Area #1 Cities	90.48	85.61	5.69
Service Area #2 Cities	94.72	91.89	3.08
Service Area #3 Cities	106.77	108.14	-1.27
Service Area #4 Cities	102.39	98.74	3.69
Service Area #5 Cities	90.53	85.87	5.42
Service Area #6 Cities	90.40	85.87	5.27

1911

1912

1913

1914

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1920

TD 525 .T9 M4ax 1989 Rev.
Metropolitan Waste Control
Commission (Minn.)
Program budget

DATE

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JAN 25 '90

2nd.

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Metropolitan Waste Control
Commission (Minn.)
Program budget

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