



Allegheny County Sanitary Authority

Allegheny County, Pennsylvania

Consulting Engineer's 2019 Annual Report Including the Fiscal 2020 Budget

November 2019



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HATCH

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EXECUTIVE SUMMARY

This annual report prepared for the Allegheny County Sanitary Authority (ALCOSAN) presents a review of the sewerage system operation and financial status for the year 2019. Additionally, this report outlines ALCOSAN's Capital Improvements Program and associated year 2020 Budget and includes the proposed year 2020 Revenue and Operating Expense Budgets.

The conclusions and recommendations of this report are as follows:

- A review of the monthly Discharge Monitoring Reports from all of the effluent quality requirements established by the National Pollution Discharge Permit (NPDES) permit. In March 2009, the monthly average flow limit increased from 200 million gallons per day (mgd) to 250 mgd with the completion of the dechlorination facilities. A renewal application for the NPDES permit was completed in 2013, and the final permit was issued on December 11, 2018. During the period of October 2018 through September 2019, the monthly average daily flow was 215.8 mgd, with maximum day flows of 250 mgd. Maximum day flows of 250 mgd were recorded in all months except for March, August and September 2019. The minimum monthly average flow of 172.9 mgd occurred in September 2019.
- The quarterly facility reviews conducted by Hatch indicate that the properties and equipment of ALCOSAN have been maintained in good repair and are in proper operating condition.
- The Capital Improvements Program proposed for 2020 consists of the implementation or completion of 35 active projects. These projects plus the \$2,479,100 allocated for low-cost capital improvements total \$854,624,100. It is anticipated that approximately \$110,630,500 will be expended on the 35 active capital projects during 2020.
- The proposed year 2020 budget anticipates revenues of \$193,157,500, operating expenses of \$101,613,100, transfer to capital facilities fund for cash funding of green infrastructure and other capital projects of \$8,800,000, and net operating income available for debt service of \$82,774,400. Net income, combined with the January 1, 2019 beginning Revenue Fund balance in excess of the minimum required fund balance, results in a debt service coverage of 3.37.
- In accordance with the Four-Year Rate Resolution (2018-2021) adopted in 2017, the Authority Board has approved a 7 percent increase in rates effective January 1, 2020. Therefore, it appears that there will be sufficient revenues to meet the Trust Indenture requirements and provide for proper operation, maintenance, and repair of the sewerage system during 2020.
- ALCOSAN's insurance policies are updated annually and satisfy the requirements of the Trust Indenture.

1. PURPOSE AND SCOPE

Section 7.11 of the Trust Indenture dated July 1, 1997, as supplemented by a Second Supplemental Trust Indenture dated as of August 1, 2001, a Third Supplemental Trust Indenture dated as of December 15, 2002, a Fourth Supplemental Trust Indenture dated as of May 18, 2005, a Fifth Supplemental Trust Indenture dated as of July 1, 2007, a Sixth Supplemental Trust Indenture dated as of October 1, 2010, a Seventh Supplemental Trust Indenture dated as of September 1, 2011, an Eighth Supplemental Trust Indenture dated December 1, 2013, a Ninth Supplemental Trust Indenture dated September 1, 2015, a Tenth Supplemental Trust Indenture dated September 1, 2016, and an Eleventh Supplemental Trust Indenture dated September 1, 2018 by and between the Authority and the Trustee requires that the Authority employ a Consulting Engineer to, in addition to other duties, prepare and file an annual report containing the following:

- a) His advice and recommendations as to the proper maintenance, repair and operation of the Sewer System during the next Fiscal Year, his estimate for said Fiscal Year of the amounts of money that should be expended for Current Expenses and his estimate of the Gross Revenues of the Sewer System for such Fiscal Year;
- b) His advice and recommendations as to the Capital Additions that should be made during the next Fiscal Year, and his estimate of the amounts of money necessary for such purposes;
- c) His advice and recommendations as to the insurance to be carried under the provisions of Section 6.12 and a statement setting forth the various policies and the amounts thereof then in force, pursuant to the provisions of said Section 6.12;
- d) His recommendations as to any necessary or advisable revision of rates and charges; and
- e) His finding whether the properties of the Sewer System have been maintained in good repair and sound operating condition and his estimate of the amount, if any, required to place such properties in such condition and the details of such expenditures and the approximate time required therefore.

It is the intent of this report to satisfy the requirements set forth in Section 7.11 of the Trust Indenture dated as of July 1, 1997, inclusive.

2. SYSTEM REVIEW

2.1 Operations

The quarterly facility process evaluations conducted by Hatch provide a general overview of the operation and condition of the treatment plant and process equipment. The evaluations conducted in this review period indicate that ALCOSAN facilities have been maintained in good repair and proper operating condition.

All the effluent quality requirements of the plant's National Pollution Discharge Elimination System (NPDES) permit relative to pollutant concentrations and mass loadings for the period of October 2018 to September 2019 were in compliance. No excursions of the permit limits were reported during the period under review.

ALCOSAN completed a renewal application for its NPDES permit for the treatment plant in 2013. A notice of the draft permit was published in the Pennsylvania Bulletin in September 2018 and the final permit was issued on December 11, 2018. The new permit is effective from January 1, 2019 through December 31, 2023.

During the period from October 2018 to September 2019, the monthly average daily flow was 215.8 million gallons per day (mgd), with a maximum day flow of 250 mgd. Maximum day flows of 250 mgd were recorded in October 2018, November 2018, December 2018, January 2019, February 2019, April 2019, May 2019, June 2019 and July 2019. The minimum monthly average flow of 172.9 mgd occurred in September 2019. Appendix A provides a summary of all plant loadings and operating performance from October 2018 through September 2019.

Under normal operating conditions, two to three of the six raw sewage pumps are in operation. Pump Number 2 has been returned to the plant from the manufacturer but has not been installed. Pump Number 5 has been out of service for replacement of the bearings and was returned to the plant but has been sent back to the factory to have the wear rings replaced. All work on the remaining pumps and drives has been completed and all pumps are available for service. The pumps are rated at 120 mgd and are driven by 2,250 horsepower motors.

Scheduled routine maintenance was performed throughout the past year and occasional repairs to the headworks and primary sedimentation tanks were carried out as required. Throughout the review period, the overall removal efficiencies through the primary sedimentation tanks have been very good and relatively constant.

The activated sludge biological treatment process has been in continuous service and has operated in the contact-stabilization mode normally employed. Tanks are routinely taken out of service for inspection and maintenance of the air line piping and the fine bubble diffusers.

All final clarifiers were in use or available for service during the review period. The final clarifiers and all ancillary equipment are serviced in accordance with the preventative maintenance program.

The chlorination facilities have been effective in achieving the required disinfection of the final effluent discharged to the Ohio River. Similarly, the dechlorination facilities have adequately maintained compliance with the total residual chlorine limitation specified in the plant's discharge permit.

Sludge dewatering with the centrifuges has continued and performance has been excellent, producing a dewatered solids content of greater than 30 percent. The centrifuges and ancillary systems such as feed pumps, sludge grinders and the polymer feed system have performed well and are routinely maintained.

Various repairs were made to the fluidized bed incinerators over the past year including boiler replacement, which required both incinerators to be shut down. During the shut down period, all dewatered sludge was disposed at landfills or land application sites. Repair work has been completed and both incinerators are back on line.

A total of 23,500 dry tons of sludge and ash were disposed between October 2018 and September 2019. Of this total, approximately 5,100 dry tons were disposed in landfills and 9,100 dry tons were land applied. During this same period, approximately 21,700 dry tons of sludge were incinerated in the fluidized bed incinerators, producing approximately 9,300 tons of ash for disposal.

2.2 Maintenance and Repairs

ALCOSAN's facilities are well maintained by a planned maintenance program designed to keep the facilities in efficient operating condition. The facilities benefit from an excellent and conscientious housekeeping effort.

3. CAPITAL IMPROVEMENTS PROGRAM

ALCOSAN's Capital Improvements Program (CIP) is presented in Table 3-1. The CIP is financed through disbursement of Construction Fund moneys made available for certain projects as part of the 2015 and 2018 Series Bond Issues and cash funding mainly used to fund municipal green infrastructure and source reduction GROW projects. The CIP is updated and approved by the Board of Directors annually. The CIP projects can be broadly categorized as:

- Major repairs and rehabilitation work, which are necessary to maintain the capacities of the current facilities.
- System upgrades and improvements, which are intended to enhance the capacities or operating efficiencies of the treatment plant and the interceptor system.
- Long-term capital improvements required by ALCOSAN's Consent Decree.

Currently, there are 35 active capital projects and a low-cost capital improvements item, which are listed in Table 3-1. The current estimated cost of projects to be completed under the CIP is \$854,624,100, which includes \$2,479,100 in low-cost capital improvements.

The 35 active projects, minus the low-cost capital improvements, amount to \$852,145,000, with some \$766,813,181 remaining to be expended. It is anticipated that \$113,109,563 will be spent on the following active capital projects during 2020.

- Biosolids Strategic Plan—S408

ALCOSAN produces approximately 350 wet tons (or 100 dry tons) per day of biosolids. For the past 25 years, ALCOSAN has relied on a multi-faceted strategy to manage this material including incineration and production of a lime-stabilized product called

**Table 3-1
Capital Improvements Program**

Proj. No.	Description	Current Estimated Cost	Total Expended To 12/31/18	2019 Estimated Expenditure	Remaining To Be Expended	2020 Capital Budget
ACTIVE PROJECTS						
S408	Biosolids Strategic Plan	\$1,525,600	\$4,371	\$0	\$1,521,229	\$500,000
S419	Mobile Equipment 2020	947,900	0	0	947,900	947,900
S423	Plant Energy Efficiency Upgrades	2,319,000	1,095,213	20,000	1,203,787	800,000
S430	Wet Weather Plant Expansion (Program Costs)	49,000,000	6,811,360	1,800,000	40,388,640	4,000,000
S432	Preliminary Planning	18,350,000	7,845,907	4,000,000	6,504,093	6,000,000
S437	Ravine Street Stream Removal and Sewer Separation	4,189,800	49,322	44,400	4,096,078	4,053,000
S438	Four Mile Run Regulator (M29) & Outfall Improvements	2,054,000	137,449	10,000	1,906,551	1,500,000
S440	Green Revitalization of Our Waterways Program	77,021,800	914,415	149,000	75,958,385	15,090,000
S446	Regionalization	49,505,000	19,932,134	4,000,000	25,572,866	12,000,000
S447	Municipal Source Control Evaluation Program	11,637,000	2,642,686	1,386,000	7,608,314	921,600
S448	Interim Wet Weather Planning Compliance	22,850,000	6,839,063	1,000,000	15,010,937	2,000,000
S451	Property Acquisitions	41,029,000	77,199	200,000	40,751,801	7,000,000
S454	Panther Hollow DSI	5,006,600	0	1,000	5,005,600	1,298,000
S455	Green Infrastructure Program Manager	6,300,800	1,043,960	992,000	4,264,840	1,455,000
S456	Program Management Information System (PMIS)	9,000,000	1,299,642	500,000	7,200,358	400,000
S458	Conveyance, Rehabilitation & Enhancements (2018-2020)	6,652,000	205,280	800,000	5,646,720	5,646,720
S459	Energy Recovery Facility Improvements (2018-2020)	2,300,000	440,330	900,000	959,670	959,670
S460	Plant Facilities and Safety Upgrade (2018-2020)	3,700,000	1,565,827	1,300,000	834,173	834,173
S461	New Outfall, Disinfection Facility & Secondary Clarifiers	180,000,000	13,721	6,000,000	173,986,279	15,000,000
S462	Wet Weather Headworks Expansion	123,000,000	15,485	2,400,000	120,584,515	4,500,000
S463	Solids Thickening and Dewatering Improvements	33,000,000	209	0	32,999,791	0
S464	New Lab and Industrial Waste Facility	45,000,000	17,946	350,000	44,632,054	2,500,000
S466	Wet Weather Disinfection	40,000,000	0	1,000	39,999,000	500,000
S467	New Primary Sedimentation Tanks	38,000,000	0	0	38,000,000	0

**Table 3-1
Capital Improvements Program (Continued)**

Proj. No.	Description	Current Estimated Cost	Total Expended To 12/31/18	2019 Estimated Expenditure	Remaining To Be Expended	2020 Capital Budget
ACTIVE PROJECTS (Continued)						
S468	Plant Electrical Distribution System Upgrade	\$14,000,000	\$0	\$500,000	\$13,500,000	\$2,000,000
S469	Sewer Rehab for Saw Mill Run & Mon-Subaqueous Interceptor	19,630,000	0	231,000	19,399,000	13,902,000
S470	Flap Gate & Misc Regulator Improvements at Various Locations	3,122,000	0	175,000	2,947,000	1,500,000
S471	Remote Pump Station Improvements	4,376,000	0	100,000	4,276,000	750,000
S472	Plant and Safety Upgrade (2020-2021)	3,000,000	0	0	3,000,000	1,700,000
S473	Energy Recovery Facility Improvements (2020-2021)	1,500,000	0	0	1,500,000	300,000
S474	New Access Shaft Manholes Near A-40 and M-49 Crossing	4,876,000	0	0	4,876,000	1,420,400
S475	Tunnel Program Management	25,481,000	0	0	25,481,000	150,000
S476	Precipitation Monitoring System Replacement and Upgrade	711,200	0	0	711,200	448,000
S477	Water Quality Monitoring Program	2,560,000	0	0	2,560,000	387,000
S478	Flow Targets	500,300	0	0	500,300	167,000
S000	2020 Low Cost Capital Improvements	2,479,100	0	0	2,479,100	2,479,100
	Subtotal	<u>\$854,624,100</u>	<u>\$50,951,519</u>	<u>\$26,859,400</u>	<u>\$776,813,181</u>	<u>\$113,109,563</u>
2019 COMPLETED PROJECTS						
S420	Grit Chambers	1,170,500	894,822	275,678	0	0
S449	Demolition of Old Operations & Maintenance Facility	535,000	461,952	73,048	0	0
	Subtotal	<u>1,705,500</u>	<u>1,356,774</u>	<u>348,726</u>	<u>0</u>	<u>0</u>
	TOTALS	<u>\$856,329,600</u>	<u>\$52,308,293</u>	<u>\$27,208,126</u>	<u>\$776,813,181</u>	<u>\$113,109,563</u>

ALCOSOIL for land application and land filling. While this strategy continues to be effective, there are emerging challenges that threaten the longevity and redundancy of each of the handling options. For example, growing public opposition to land application, the implementation of federal and state regulations on incineration as well as land application, limitations imposed at preferred local landfills, increasing energy costs, and greater importance placed on energy efficiency all create the need for a comprehensive strategy that will identify how to lead ALCOSAN's solids handling during the 21st century.

A Biosolids Strategic Plan will consider ALCOSAN's current biosolids management program in light of the foreseeable challenges, existing wet weather planning initiatives, industry best practices, as well as local opportunities to ultimately recommend a sustainable scenario for the next 15 to 20 years.

- Mobile Equipment (2020)—S419

This capital program provides for the purchase of various utility vehicles and equipment that can be used in the operation and maintenance of the ALCOSAN facilities by ALCOSAN personnel. They include a dump truck, combo truck, pick-up trucks, vans, passenger vehicles, and a towable water buffalo.

- Plant Energy Efficiency Upgrades—S423

This project will build upon many of the recent upgrades and ongoing activities to improve energy efficiency and to reduce operating costs throughout the wastewater plant. More recent and ongoing projects include participation in electrical demand response programs, facility upgrades to Light Emitting Diode (LED) type lighting, rehabilitation of an existing steam turbine generator, and city water usage evaluations. A finalized energy management study evaluated many of the renewable sources of energy such as solar, wind, hydro, and thermal for possible inclusion in the plant's overall energy efficiency strategy. The budget includes pilot projects in solar, likely installation of an Operations and Maintenance (O&M) building rooftop array and an alternative vehicle fueling pilot evaluation. Other study components will be further considered as part of the Wet Weather Plant Expansion Program.

- Wet Weather Expansion Program—S430

In conjunction with all of the legal requirements of the U.S. Environmental Protection Agency (EPA) Consent Decree, ALCOSAN proposes an expansion of the existing treatment plant to a wet-weather capacity of 600 mgd, including an expansion of secondary treatment to 295 mgd. The plant expansion alternatives were developed as part of the development of the Wet Weather Plan that was submitted to the agencies in January 2013. Although the Plan is still under review and subject to negotiations, the regulatory agencies have agreed that the expansion of the plant is a key component of the Plan and ALCOSAN should proceed with its implementation.

Expansion of the plant will include new expanded headworks, two new final secondary clarifiers including a new RAS pumping station, and a new chlorine contact tank and outfall. It will also include improvements to the plant dewatering process. The existing outfall will be modified to discharge bypassed wet weather flow and the existing disinfection process and odor control systems will be upgraded. The expansion may also include a new tunnel dewatering pump station, as well as additional structures to convey and distribute the increased flow through the plant.

A Program Manager (PM) was procured in 2016 to advance the expansion of the plant facilities. The PM will assess, verify, and further evaluate the components of the plant expansion contained in the Plan, as well as update the estimated project costs. This will include developing an operating sequence for initiating and exiting wet weather operations treatment modes. This will include coordinating the proposed plant work with the preliminary planning for improvements upstream of the plant under Capital Project No. S432 described hereafter. The PM will evaluate components of the recent energy management study for potential incorporation into the plant expansion improvements. The PM will also devise a plan to package and sequence the design and construction projects. In addition, the PM will assist ALCOSAN staff in preparing engineering design Requests for Proposals.

During the design of the individual projects, the PM will review the various design products. The PM will participate in value engineering for each of the projects. The PM will also participate in constructability and bid-ability reviews of the progressing design products and bid documents for each of the projects. The PM will also verify estimates provided by the various design consultants. The PM will identify potential interferences with existing utilities and the need for utilities to the new proposed facilities. The PM will identify any needed update or expansion of the plant Distributed Control System (DCS) operating system. The PM will use cost control measures to update and maintain budgetary goals.

In 2017, the PM completed performance modeling and hydraulic modeling to validate the proposed plant expansion. Basis of Design Reports have been completed and were included in the Water Quality Part 2 permit application to the Pennsylvania Department of Environmental Protection (DEP). In 2018, a Construction Manager was procured to assist in the packaging and review of design products. Procurement of design firms has begun and will continue in 2020.

- Preliminary Planning—S432

The goal of Preliminary Planning is to (1) develop the basis and criteria for the individual design projects needed to construct all above-ground and under-ground Gray and GSI facilities upstream of the wastewater treatment plant and (2) optimize the existing Basin Facilities Plans using value engineering and flow reduction strategies to yield significant cost savings.

Specific tasks to be performed under Preliminary Planning include the following: developing a project management plan; identifying and scheduling key milestone dates and deliverables; evaluating the effectiveness of GSI and flow reduction efforts on regional infrastructure sizing; providing value engineering of the treatment plant expansion versus satellite treatment; establishing the criteria and implementing geotechnical investigations; evaluating and optimizing key alignments of all facilities; developing property acquisition strategy; identifying key properties for acquisition; air entrainment and surge analysis; optimizing odor control and developing noise mitigation standards; evaluating and presenting alternate design concepts for regional conveyance facilities; evaluating alternate operational schemes, passive versus active; evaluating and optimizing flow to the existing interceptor system; evaluating preliminary sizing criteria; evaluating micro-tunneling and surface consolidation routes; surveying; optimizing the use of green leave-behind projects at all critical facility locations; evaluating various project delivery systems; providing updated cost estimates; consulting, in conjunction with ALCOSAN personnel, during all financing strategy sessions; and coordinating with plant expansion program activities performed under Capital Project No. S430.

A Planning Consultant was hired in 2017 to perform the preliminary planning. There is a three-year schedule to perform the activities described above.

- Ravine Street Stream Removal and Sewer Separation—S437

Removal of the Ravine Street stream inflow has long been a priority of ALCOSAN and other local stakeholders. The combined collection system in Sharpsburg receives streamflow and roadway runoff from two upstream municipalities and PennDOT. In 2015, PennDOT initiated a final design project for the stream removal that includes significant flow redirection and sewer separation. ALCOSAN, Sharpsburg Borough, O'Hara Township, and Shaler Township have committed funds to the construction of the project. State Senators and State Representatives are also committing state funds to this very important local project.

- Four Mile Run Regulator (M-29) and Outfall Improvements—S438

Four Mile Run is an urban watershed tributary to the Monongahela River in the City of Pittsburgh that experiences chronic urban flooding. In September 2015, Service Authorization 280-4 was approved for Chester Engineers to provide engineering services to evaluate and to provide for the conceptual design of modifications to the M-29 outfall structure. A LIDAR imaging scan was performed to create a CADD drawing of the regulating chamber and outfall. As a result of the field inspection, the outfall was found to be in poor and failing condition.

Concurrently with the field inspections and survey, Chester Engineers conducted hydraulic modeling, alternatives analysis, and costing comparisons of five alternatives. As a result of the alternatives analysis, the engineering consultant and stakeholders agreed that an effort to repair the outfall pipe, lower the weir, and add a flap gate provided the best

immediate value. The Pittsburgh Water and Sewer Authority (PWSA) has requested to take the lead on construction of this project and a revised cost sharing and cooperation agreement is being developed. This budget is allocated to provide reimbursement to PWSA for construction of ALCOSAN associated infrastructure.

- Green Revitalization of Our Waterways Program—S440

This program will provide funding assistance for municipal source control projects over the next several years. Municipalities and/or municipal sewer authorities are eligible to participate. Other stakeholders such as local, county, and state agencies would be eligible for participation (e.g., school districts) provided they enter into a partnership agreement with the respective ALCOSAN customer municipality.

The form of funding assistance would agree with ALCOSAN's legal and fiduciary obligations. Matching funds could be maximized at 85 percent of eligible project costs, thereby requiring a municipal match, which could come from the municipality or outside funding sources such as grants or appropriations. A maximum match per project is \$10 million.

The funding could vary between projects based on such factors as anticipated overflow and source reduction benefits. Each project application will be evaluated to take into account program goals, community and environmental benefits, municipal financial capability, etc.

Funded projects will be required to establish technical standards and an ongoing 20-year maintenance program to ensure the functionality of the reduced stormwater. Post-construction project evaluation and reporting will be conducted and presented in a final report.

- Regionalization—S446

ALCOSAN is engaging its member municipalities to transfer ownership and maintenance responsibility for certain inter-municipal trunk sewers. ALCOSAN has been collecting relevant municipal information in an effort to identify any additional sewers that are multi-municipal; to evaluate the location and condition of the sewers for transfer; and to determine approximate extents, exhibits, and mapping for the transfer agreements. ALCOSAN has also been meeting with local municipal officials and engineers in an effort to understand any concerns that may affect the agreements or schedule.

As of October 2018, 267 miles of trunk sewers that meet the criteria are being considered for transfer. Also included are 79 diversion chambers, four pump stations, and four equalization tanks that have been proposed as part of the asset transfer.

ALCOSAN will continue to meet with municipal officials and engineers in 2020 to implement the transfer of these sewers and facilities.

- Municipal Source Control Evaluation Program—S447

The Municipal Source Control Evaluation Program will quantify dry and wet weather wastewater flow in municipal collection systems. In addition, the program will furnish, install, and operate all equipment necessary to obtain nighttime flow isolation weir readings per the quantity and manhole structures determined by ALCOSAN. The goals of this program are to:

- Provide wastewater flow monitoring data necessary to develop a comprehensive understanding of existing municipal collection system hydrology and hydraulics, system responses during dry weather periods, and various wet weather events.
- Provide nighttime instantaneous flow rate readings in order to “isolate” smaller areas of the municipal collection systems that are contributing significant amounts of system infiltration.
- Support planning and design work associated with implementation of ALCOSAN’s Clean Water Plan, forthcoming municipal regulatory requirements, and municipal flow targets.

- Interim Wet Weather Planning Compliance—S448

ALCOSAN submitted a Wet Weather Plan to the regulatory agencies in January 2013 as required by the 2008 Consent Decree. ALCOSAN and the agencies have negotiated an amendment to the Consent Decree that will require ALCOSAN to perform additional obligations that include implementing a 2.0 billion dollar Interim Wet Weather Plan of capital improvements to the ALCOSAN system.

It will require technical and management services to ensure compliance and cost-effective procedures in implementing the proposed Interim Wet Weather Plan improvements, including coordinating the efforts of others charged with the individual programs and components of the Plan. It will require creating methodologies to support the management of municipal flows; to apply risk management principles to budgets and schedules, using adaptive management strategies; and to incorporate the results from municipal green stormwater management plans and infiltration/inflow source reduction programs. It may also require additional management responsibilities of the transfer of multi-municipal trunk sewers to ALCOSAN.

ALCOSAN developed a management strategy to administer the program support needs by hiring an Owner Representative and a Program Director. A Program Management Organization (PMO) has been formed and meets regularly to coordinate and communicate the ongoing activities necessary for completion of activities and maintaining regulatory compliance.

In 2018, ALCOSAN received information and reports from the customer municipalities that were generated by regulatory orders. ALCOSAN, with assistance and input from its consultants, will perform hydraulic analyses and flow modeling to estimate municipal flow

quantities, frequencies, and durations of wet weather overflows under varying scenarios influenced by the municipal flow reduction programs and potentially identify any modifications to the negotiated Interim Wet Weather Plan Capital Program.

Over the next several years, ALCOSAN and its consultants will be performing similar reviews of municipal information, monitoring economic and environmental changes, and preparing reports to the agencies and customer municipalities. Periodic updates to existing population, estimated costs, financial burdens, and infrastructure information are also anticipated. This capital account will be used to support these tasks and activities.

- Property Acquisitions—S451

The property and right-of-way acquisition services will consist of the steps necessary for the acquisition of properties and easements required for the construction, operation, and maintenance of improvements associated with the Clean Water Plan. Green Infrastructure Program and Regionalization work shall include the following activities:

- Gathering title information for properties identified by ALCOSAN and updating of titles as necessary prior to closing of any property acquisition or condemnation.
- Surveying services, as needed, ALTA surveys.
- Preparing real property legal descriptions.
- Preparing a property history report including prior uses, subsurface information, potential archaeological or historic site designations, local zoning and land use requirements, special neighborhood designations, utility easements, flood insurance map determinations, potential land development or redevelopment.
- Preparing Environmental Site Assessments, as needed.
- Determining appraisal values of properties and preparing appraisal reports to be used in the course of negotiations and condemnations.
- Preparing all acquisition documents and maintaining all property acquisition files.
- Negotiating with owners of record for the acquisition of such property.
- Coordinating with the public and municipalities.
- Calculating estimated acquisition and closing costs.
- Leading condemnation procedures and testifying as needed for such condemnations.
- Closing real property acquisitions upon receipt of ALCOSAN's approval.
- Providing such other services as may be required by ALCOSAN.

- Panther Hollow DSI—S454

The Panther Hollow watershed includes parts of Squirrel Hill, Oakland, and Schenley Park. This stream conveys sediment and debris to the deep tunnel and restricts the capacity of

the interceptor system. In 2010, PWSA submitted an analysis for removing stream flow from the combined sewer system. The report indicates that removing Panther Hollow Lake provides a cost-effective option to reducing combined sewer overflows from M-29.

- Green Infrastructure Program Manager—S455

As part of the initiatives laid out in the “Starting at the Source” report, a program management team was procured in 2017 to advance the goals and objectives of ALCOSAN’s source control initiatives such as green stormwater infrastructure and control of inflow and infiltration.

The Green Infrastructure Program Manager will assist ALCOSAN by providing assistance in implementing the S440-GROW Program through review of grant applications, by developing guidelines, by computer modeling, by evaluating the impacts that GROW projects may have on the Interim Wet Weather Plan, and by providing management of the green infrastructure on-call consultants.

A Regional Stormwater Study titled “Controlling the Source” (CTS) will identify potential municipal projects to implement source control projects, evaluate the potential impacts regional source control projects may have on the Interim Wet Weather Plan, identify third party funding for municipalities, and coordinate with planned public and private construction projects.

Originally budgeted for three years, this capital account is incorporating ALCOSAN’s option to extend the Service Authorization of the Green Infrastructure Program Manager for an additional two years.

- Program Management Information System (PMIS)—S456

ALCOSAN has identified the need for an electronic PMIS to support the implementation of ALCOSAN’s Wet Weather Plan and associated programs. E-BUILDER, including 100 user licenses, was purchased through the Program Director in mid-2017. The software and user licenses will be transferred to ALCOSAN in the third year of implementation.

Mapping of the business processes, software configuration, training and start-up of the system components commenced in September 2017 with completion in 2018. Project management, shop drawing review, cost control and processing professional service invoices, construction pay applications and change orders will be exercised through E-BUILDER. Report generation is available for various parameters. Transfer of documents from the existing ECM to storage space in E-BUILDER has been completed.

- Conveyance, Rehabilitation, and Enhancements (2018-2020)—S458

This capital project conducts various improvements and repairs to the ALCOSAN Regional Conveyance System. Rehabilitation and enhancement work will continue based upon recommendations from the Interceptor Systems and Wet Weather Programs Departments. Projects identified for 2020 include modifications to the outfalls at M-59, M-60, and A-17 to

include extension of the outfall and installation of a bulkhead guide. This budget also includes safety improvements and repairs to various regulating structures and mechanical and electrical repairs to the O-7 Access Shaft. Also included are a grouping of miscellaneous projects to be bid in one contract: encasing the C-27 shallow cut interceptor, reconfiguring the T-33 regulator, reconfiguring the T-27 regulator, installing a manhole at A-78-02, repairing M-04 connector sewers, and replacing the S-39 connector sewer.

- Energy Recovery Facility Improvement (2018-2020)—S459

The intent of this program is to address smaller type improvements that are identified to improve the efficient operation of the Energy Recovery Facility. An assessment of the existing equipment in the Energy Recovery Facility began in 2018. Improvements identified will be made under this capital account. Also, repairs were made to the manifold nozzles in Incinerator No 2. The compressors for the air system in the Energy Recovery Facility are being replaced. Manifolds for Incinerator No. 1 are in the process of being replaced.

- Plant Facilities and Safety Upgrades (2018-2020)—S460

The intent of this program is to address smaller type improvements that are identified to improve the efficient operation of the plant and remote pump station facilities.

Replacement of handrail around final settling tanks will continue. Also, a new storage building on top of aeration tank W-4 will be built to protect ALCOSAN stored materials from the elements. This capital program has included hardware upgrade of the plant Distributed Control System (DCS), and completion of replacements of program logic controllers (PLC's) for the lime transport system, biosolids loading area and the four return activated sludge pumping stations.

- North End Facilities: New Outfall, Disinfection Facility, and Secondary Clarifiers—S461

With the increase of dry weather flow capacity to 295 mgd, the plant will not have the hydraulic capacity to continue to discharge flow through the existing outfall. The hydraulics dictate that the flow must be redirected to a new outfall at the north end of the plant. The project will require a new river wall, demolition of the existing hypochlorite facility, construction of a new chlorine contact tank and outfall, as well as a sodium bisulfite facility to remove excess chlorine. New chemical buildings and storage tanks will also be part of the project. A new electrical substation will also be required. Two new Secondary Final Clarifiers will be constructed to increase secondary treatment capacity to 295 mgd. A new return sludge (RAS) pump station will be constructed to pump the RAS from the new clarifiers back to the aeration basins. The existing RAS pumps and piping will also be replaced to handle the increased flows through the existing piping. A new river wall will need to be constructed to build the western clarifier along the river. The construction package will be bid and awarded in 2020. Work will continue through 2025.

A temporary hypochlorite system is being upgraded to provide disinfection for process until the new outfall and disinfection facility is brought online. The work began in 2019 and will complete this year.

The existing RAS pump stations will be upgraded, and RAS piping will be upsized to accommodate the increased flow from the new Secondary clarifiers. Flow control valves will be added to better split the RAS flows to the various aeration tanks. Design of this project began in 2019 and will be completed in 2020. Construction will last through 2021.

- Wet Weather Headworks Expansion—S462

The wet weather capacity of the expanded plant will exceed the capacity of the existing headworks. Seven new grit tanks, as well as the accompanying bar screens, will be constructed. The tanks and bar screens will be in a newly constructed building. There will also need to be a new grit truck unloading station in the building. New conduits to and from the new headworks will have to be constructed to convey the increased wet weather flows. Installation of these conduits will require relocation of portions of the pipe galleys. Additionally, flow meters and diverter valves will be installed on the existing pump discharge lines for operational controls and reporting purposes. In addition, a new siphon drop box will be constructed to combine flows from the various pumps to convey flow to the new headworks. The existing odor control system will be modified to accommodate the increased air volume. Design begin 2019 and will continue in 2020. Construction will begin in 2021 and last through 2024. The flow meter installation has been bid separately and will be under construction in 2020 and completed in 2021.

- Solids Thickening and Dewatering Improvements—S463

The increased wet weather flow through the primary sedimentation tanks will exceed the recommended DEP guidelines for co-setting of Waste Activated Sludge (WAS) in the tanks. The WAS will have to be thickened before being blended with the primary sludge in the dewatering process. New thickening centrifuges will be furnished and installed, including construction of a new mezzanine level for the location of the centrifuges. Ancillary pumps and a polymer feed system will be required, as well as piping and new WAS pumps. Electrical equipment in the dewatering building will need to be upgraded. In addition, the existing dewatering centrifuges are near the end of their expected life and will be replaced.

- New Laboratory and Industrial Waste Facility—S464

Construction of the two new primary sedimentation tanks to increase wet weather capacity will require demolition of the existing Laboratory and Industrial Waste buildings. A new facility that will house both departments will be constructed. The new laboratory will be located on the site of the existing Union Parking lot. A new parking garage will be constructed on the site as well to replace the parking spots lost to the lab footprint. Design will begin in 2020. Garage construction will be in 2021. Lab construction will begin after garage completion and extend through 2023.

- Wet Weather Disinfection—S466

The increased wet weather capacity at the treatment plant will be achieved by bypassing flows that exceed secondary capacity to a wet weather outfall. The current chlorine contact tank will be modified to reverse flows through the existing tank, and a new outfall at the north end of the tank will be constructed. The project will require a new chemical feed and storage system for disinfection of the wet weather flows. Also, a flow control structure and conduit will be required to route the bypass flows. A design consultant will be procured in 2020.

- New Primary Sedimentation Tanks—S467

Two new primary sedimentation tanks will be constructed to increase wet weather capacity to 600 mgd. The existing E-2 primary pump station will be reconfigured to add a new pump. The existing primary pumps will be replaced.

- Plant Electrical Distribution System Upgrade —S468

The new Wet Weather Pump Station will likely be constructed in the same location as the existing 5KV substation. A new 5KV substation will be constructed to replace the existing substation. As a result, this project will re-feed and reconfigure the electrical distribution systems to re-feed existing loads currently fed from the existing 5KV substation, as well as prepare the plant for the increased electrical loads associated with the plant expansion. Design began in 2019. Construction will begin in 2020 and be completed in 2021.

- Sewer Rehabilitation for Saw Mill Run and Monongahela Subaqueous Interceptors—S469

This capital project includes the design and installation of 18,000 feet of CIPP lining for the Saw Mill Run Interceptor between MH-45 and O-14W and 7,000 feet for the Monongahela Subaqueous Interceptor between M-44 and M-42A to include the M-44, M-43, and M-42 connector lines. The installation of several new access ports will be required for the Monongahela Subaqueous Interceptor lining. Two consulting firms are currently proceeding to final design. Two separate contracts will be let in 2020 and will be completed in late 2021.

- Flap Gate and Miscellaneous Regulator Improvements at Various Locations (2019-2021)
—S470

With upwards of 235 flap gates in the Regional Conveyance System, these gates require ongoing maintenance and replacement due to corrosion and deterioration. Many of the gates are leaking, allowing chronic water inflow in the treatment system. This added water translates into additional pumping and treatment costs at the ALCOSAN plant.

The ALCOSAN Manager of Interceptor Systems identifies flap gates requiring maintenance. Similar to previous contracts, a contractor will be required to dewater, assess concrete strength, verify chamber and gate dimensions, prepare shop drawings,

and conduct installation of new gates and appurtenances. Gates being programmed for replacement this period include A-60, A-68, M-45, A-41, M-03, A-31, O-34, and M-52.

- Remote Pump Station Improvements —S471

This capital project includes improvements to the Melanchton Ejector Station, Corliss and Ella Street Pump Stations. At the Melanchton Pump Station, a contract would include replacing the ejector with a small submersible package station. Improvements at Corliss Pump Station include replacement of internal piping and the possible installation of a permanent bypass pumping structure. At Ella Street, improvements to be investigated include installation of a flap gate, determining optimal pumping configuration to reduce pump cycling, addition of a new storm pump, backflow prevention, replacement of the mechanical bar screens, and upgrades to the sewage pumps and discharge piping.

- Plant and Safety Upgrade (2020-2021) – S472

The intent of this program is to address smaller type improvements that are identified to improve the efficient operation of the plant and remote pump station facilities.

Work scheduled for 2020 includes addressing leaks in the new O&M building, roof replacement over the Screenings Area, the Power Generation Building and the Dewatering Building. Also sluice gates in the Secondary area will be purchased for replacement by ALCOSAN maintenance staff. The DCS equipment will also be upgraded. This includes a new server and upgrading the existing work stations.

- Energy Recovery Facility Improvements (2020-2021) – S473

The intent of this program is to address smaller type improvements that are identified to improve the efficient operation of the Energy Recovery Improvements. Potential projects include installing an isolation device on the afterburner and upgrading or replacing turbine generators.

- New Access Shaft Manholes near A-40 and M-49 River Crossing – S474

This capital project includes construction of two new deep access shafts near A-40 and M-49 river crossing connection to the deep tunnel interceptor. During recent sonar inspection of the deep tunnel interceptor during Contract 1679, these two areas were identified as containing heavy debris. This capital project is for the installation of new access shafts to be used for the cleaning of the deep tunnel interceptor in these areas.

- Tunnel Program Management – S475

This capital project includes overall program management of the upcoming Interim Clean Water Plan tunnel and conveyance system design contracts. This project will provide for management of the design consultants, participation in design workshops; management of overall project scope, budget and schedule, coordination of modeling activities, coordination of land and easement acquisition; and ongoing review of design activities and coordination with internal and external stakeholders.

- Precipitation Monitoring System Replacement and Upgrade – S476

ALCOSAN has been involved in precipitation monitoring in the region for over 25 years. In cooperation with Three Rivers Wet Weather (3RWW) Program, ALCOSAN personnel have maintained a network of precipitation monitors (rain gauges). In addition, ALCOSAN provides technical support for the virtual rain gauge network, which most municipal engineering firms utilize.

The current network has been operating since 2003. The program developed a communications network to telemetry the rainfall data to 3RWW headquarters in the Allegheny County Health Department (ACHD) office complex in Lawrenceville. This data is transmitted to a third-party vendor to process the virtual rain data. However, over the past several years, the communications network has not been running efficiently due to age of equipment. Over the past several years, ALCOSAN has assumed the maintenance responsibilities for the program. Planning for the equipment replacement and upgrades to the communications network has been developed for the past two years by ALCOSAN staff.

This capital project provides for the development of a study, purchase of various precipitation monitoring equipment, and an upgrade to the communication network that will transmit data to a central ALCOSAN data server.

- Water Quality Monitoring Program – S477

In 2001, ALCOSAN initiated a relationship with the United States Geological Survey (USGS) to develop the water quality sampling program for bacteria levels. In 2006, in compliance with the Consent Decree and development of the Wet Weather Plan, ALCOSAN expanded this program to include the impact of CSOs on the water quality of the local rivers and streams. The sampling program ran through 2011 to assess the main rivers, water intake locations, and tributary streams.

As detailed in the Clean Water Plan, ALCOSAN proposed two cycles of water quality sampling, focusing on the primary pollutant of concern, bacteria, at selected monitoring locations to document the improvements attributed to the implementation of the Clean Water Plan. The scheduled first cycle of this proposed sampling is to begin during the 2021 recreational period (April 1 through October 15), occurs over three years (2021-2023), and will include three dry-weather and three wet-weather samples.

In general, the scope of this capital project will require similar tasks and capabilities as found in the 2006-11 receiving water quality program. This includes, but is not limited to the following:

- Providing ALCOSAN support in the development of a monitoring plan
- Receiving water sampling
- Operating stream gauges

- Project management
- Proving laboratory analysis
- Flow Targets – S478

Development of this capital project will be in accordance to the upcoming municipal regulatory requirements and modified Consent Decree. ALCOSAN has engaged with 3RWW and municipal engineers since 2015 in the development of flow targets. These meetings culminated in the development of the Municipal Source Reduction Studies submitted by the municipalities in December 2017. This capital program will build upon the work done in other capital programs to engage Customer Municipalities and develop the methodology for the flow targets.

In the modified Consent Decree, ALCOSAN is required to develop a Municipal Source Reduction Agreement to establish flow targets for the Customer Municipalities. ALCOSAN shall undertake good faith efforts to enter into Municipal Source Reduction Agreements by January 31, 2025.

For 2020, it has been estimated that low-cost capital improvements will total \$2,479,100 as shown in Item S000 on Table 3-1.

4. REVENUES

Table 4-1 lists the actual cash revenues of the Authority for the years 2016, 2017, and 2018 together with the 2019 budget and the actual cash revenues for the eight months ending August 31, 2019. Table 4-1 also shows projected 2019 revenues for the entire twelve months period and the year 2020 budget. As shown on Table 4-1, it is projected that Total Revenues for 2019 will amount to \$182,918,600, which is under budget by approximately \$582,300.

Total Revenues consist of four primary sources: commodity charges, service charges, industrial charges, and non-operating income. The commodity charge is based on the amount of billed thousand-gallon water usage by each residence, business, or public building. The service charge is a fixed rate assessed quarterly on every user account, and industrial charges consist of high strength sewage charges and garbage grinder fees.

Basic and Special Charges, which include the commodity, special, and industrial charges, comprise over 98 percent of annual operating income. It is anticipated that these charges will amount to \$177,706,400 in 2019, approximately \$2,691,500 or 1.5 percent less than the 2019 budget. However, the 2019 projected results are about 4.5 percent greater than the year 2018 actual results, 9.2 percent greater than the 2017 results, and 18.2 percent above 2016 actuals. The increase in Basic and Special Charges reflects the results of the four-year rate increase program. However, as the cost per customer increases, consumers tend to use less water. Billed water consumption and the number of retail customers have been trending downward over the past ten years. ALCOSAN anticipates that this downward trend in water usage may be slowing or reversing.

**Table 4-1
Summary of Revenues**

Revenue Category	2016 Actual	2017 Actual	2018 Actual	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
Basic and Special Charges	\$150,320,493	\$162,719,670	\$169,978,913	\$180,397,900	\$114,392,131	\$177,706,400	\$189,661,500
Grants	0	0	0	0	0	0	0
Interest Income	273,807	1,094,977	3,127,445	2,842,000	3,211,254	4,806,200	3,210,000
Other	398,178	380,273	314,177	261,000	376,047	406,000	286,000
Total Revenues	\$150,992,478	\$164,194,920	\$173,420,535	\$183,500,900	\$117,979,432	\$182,918,600	\$193,157,500

In 2017, the ALCOSAN Board of Directors voted to adopt a new rate study proposal, which became effective in the year 2018 and will remain in effect through the year 2021. This study recommended a 7.5 percent increase in rates for 2018 and a rate increase of 7 percent for each of the following three years.

ALCOSAN has two methods of billing its customers—direct bill or lump sum. Currently the majority, 80 communities, is billed lump sum, while the customers in three communities are still billed directly.

Non-operating income consists of three main categories: interest income, grants, and other miscellaneous income. In recent years, no grant monies have been received, and funds generated from interest income have been a very nominal part of the Revenue Budget. However, increased balances in both the capital facilities and revenue funds, combined with increasing bank rates, have resulted in interest income of approximately \$4.8 million, \$1,964,200 more than budget projections and 1.54 times greater than last year's actual interest income. Other Revenues are expected to be nearly 56 percent above budget. In 2019, Other Revenues consisted of septic tank disposal fees, pretreatment fees, closing letter fees, and miscellaneous income.

The year 2020 budget is based on:

- A full year's revenue generated by the 7 percent rate increase that became effective on January 1, 2019 and another 7 percent increase in rates for 2020, effective January 1, 2020. This coming year's 7 percent increase is the third in the latest four-year rate increase program. It is anticipated that this 7 percent increase will generate approximately \$12.4 million dollars a year. However, due to billing cycles, 2020 Basic and Special Charge revenues reflect only six months impact from the January 1, 2020 rate increase. The current user rate of \$7.94 per 1,000 gallons of water used will increase to \$8.50 per 1,000 gallons. The quarterly customer service charge will increase from \$16.69 per quarter to \$17.86. Based on a quarterly usage of 12,000 gallons of water, the average cost per household will be \$479.44 per year, which is a \$2.63 per month increase over 2019 rates.
- No grant funds are anticipated during 2020.
- Interest earnings in 2020 are anticipated to be approximately \$1.5 million less than 2019 projected results.
- Other revenues are expected to be slightly lower in 2020.

The total 2020 revenue budget of \$193,157,500 is approximately \$10.24 million more than 2019 projected results and nearly 5.3 percent more than the 2019 budget.

5. OPERATING EXPENSES

Table 5-1 is a summary listing of the actual operating expenses for the years 2016, 2017, and 2018, the 2019 budget, and the actual expenses for the eight months ended August 31, 2019,

**Table 5-1
Summary of Operating Expenses**

No.	Expense Category	2016 Actual	2017 Actual	2018 Actual	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
I	Administration & Engineering	\$8,727,560	\$9,739,753	\$10,625,520	\$14,475,500	\$7,674,624	\$12,296,550	\$14,710,800
II	Management Info. Systems	2,479,898	2,657,598	2,579,345	3,069,700	1,643,928	2,723,400	3,024,000
III	Customer Service and Billing	2,424,616	3,466,796	2,596,870	3,833,900	2,569,909	3,199,100	3,502,600
IV	Environmental Compliance	3,463,100	3,585,800	3,710,757	4,862,200	2,770,909	4,266,950	5,163,000
V	Interceptor System	4,205,317	5,167,159	6,607,286	10,482,600	4,628,706	7,612,900	13,976,900
VI	Plant Operations	21,996,233	20,858,835	22,470,837	23,475,800	14,859,210	23,908,800	25,302,800
VII	Professional Services	590,774	749,441	637,822	865,000	449,424	740,000	880,000
VIII	Plant Maintenance	8,147,476	8,661,679	9,435,359	10,042,600	6,085,471	9,536,000	10,344,300
IX	Employee Benefits	18,842,283	19,852,268	21,606,713	23,449,500	13,917,446	22,164,400	24,708,700
	Total Expenses	\$70,877,257	\$74,739,329	\$80,260,509	\$94,576,800	\$54,599,627	\$86,448,100	\$101,613,100
	Debt Service				59,293,100		59,293,100	59,297,194
	Total Requirements				\$153,869,900		\$145,741,200	\$160,910,294

together with the projected full year 2019 operating expenses and the year 2020 budget. A detailed summary of operating expenses is shown on Table 5-2, and the detailed lists of operating expenses by line item are provided in Schedules I through IX.

As shown on Table 5-1, it is anticipated that projected expenses will come in under budget by approximately \$8,128,700. All departments except Plant Operations are expected to come in under budget this year with departmental savings ranging from 5.8 percent to over 70 percent. Plant Operations was just slightly over budget.

The year 2020 budget has been prepared in conjunction with the ALCOSAN staff and reflects expected activity for the coming year. The 2020 budget anticipates operating expenses of \$101,613,100, an approximate \$7.04 million increase over the 2019 budget. The 2020 budget shows an increase of approximately 17.5 percent over 2019 projected results.

The 2020 budget projections are based on the following assumptions:

- An increase in authorized staff of 28 persons. At this time, there are 91 vacancies. Many of the staffing vacancies are associated with anticipated needs for fulfilling the Consent Decree compliance and regionalization requirements. Provisions have been made in the budget for a 3 percent increase in salaries and wages.
- Due to the continual increases in rates necessary to comply with the Consent Decree Implementation and Compliance, \$580,000 in funding for the Customer Assistance Program has been included this year.
- An increase of \$2.54 million in the cost of employee benefits, nearly 11.5 percent greater than 2019 projections, is due primarily to the increased number of employees. Medical shows a 2.2 percent increase; however, ALCOSAN is receiving a full month's premium credit in 2020, which nets a 5.7 percent decrease in the total cost. Increased pension plan costs are actual costs provided by the actuary. Allowances in all premiums and costs have been included for the filling of 91 vacancies.
- The 2020 budget provides increased costs for the Federal Consent Decree implementation requirements. For example, the Interceptor System budget is projected to be over 83 percent higher than 2019 projected results. It is anticipated that \$6 million will be expended on cleaning and inspection and another \$943,400 for regionalization facilities alone.
- Utility costs are again varied for the coming year. For example, electricity and natural gas costs will remain fairly constant, while water is expected to increase by 13 percent.
- The impacts on chemical costs are varied for the coming year. The cost of caustic soda is projected to be 9.9 percent higher in 2020, but costs for other chemicals are expected to be similar to last year.
- Land application disposal costs are expected to increase by \$300,000 in 2020 relative to the 2019 budget figure. Costs for disposing of grit and trash have been projected at \$32,500 in 2020. Tipping fees for sludge disposal are expected to increase by 7.1 percent in the coming year.

Table 5-2: Detailed Summary of Operating Expenses

Expense Category	2019 Actual to 8/31	2019 Projected	2020 Budget
Administration and Engineering			
Executive Administration	\$1,745,084	\$2,944,300	\$3,154,500
Public Relations	2,021,281	3,239,650	2,927,100
Municipal Outreach	274,654	467,400	734,500
Scholastic Outreach	741,756	1,162,200	2,193,400
Human Resources	374,364	572,800	744,400
Training Administration	163,271	281,900	348,500
Accounting/Finance	507,894	765,200	905,300
Purchasing	347,782	549,000	569,400
Engineering Administration	265,191	396,200	584,300
OR/CD Administration	34,311	52,800	92,900
Capital Projects	352,383	547,300	739,100
Contract Administration	204,350	314,300	496,800
CSO Program Management	563,066	879,000	977,500
ECM/Environmental Reporting	79,237	124,500	243,100
Total Administration and Engineering	7,674,624	12,296,550	14,710,800
Management Information Systems	1,643,928	2,723,400	3,024,000
Customer Service and Billing	2,569,909	3,199,100	3,502,600
Environmental Compliance			
Environmental Compliance	330,357	516,600	496,100
Laboratory	1,311,783	2,005,100	2,300,300
Industrial Waste	945,992	1,465,950	2,022,300
Diverse Residuals Management	182,777	279,300	344,300
Total Environmental Compliance	2,770,909	4,266,950	5,163,000
Interceptor System			
Regional Conveyance Administration	399,556	619,700	977,500
General-Upper Allegheny System	38,759	60,600	90,400
Verona Pump Station	40,990	63,900	83,100
Squaw Run Pump Station	34,795	58,800	80,000
Montrose Ejector Station	19,800	37,000	63,200
Saw Mill Run	45,634	71,400	105,700
Regionalized Facilities	315	500	943,400
General-Except Upper Allegheny	3,835,048	6,356,200	11,184,300
Corliss Pump Station	61,394	95,400	130,900
Malancthon Ejector Station	21,818	35,100	47,500
Ella Street Pump Station	58,301	86,500	114,600
Sandy Creek Pump Station	72,296	127,800	156,300
U5 Ejector Station	0	0	0
Total Interceptor System	4,628,706	7,612,900	13,976,900

Table 5-2: Detailed Summary of Operating Expenses (Continued)

Expense Category	2019 Actual to 8/31	2019 Projected	2020 Budget
Plant Operations			
Safety	\$840,638	\$1,310,800	\$1,682,200
Operations and Maintenance Administration	237,439	361,200	382,400
Main Pump Station	879,852	1,502,400	1,605,000
Rack and Grit	525,185	721,700	744,200
Mobile Equipment for Treatment	568,835	881,100	1,132,600
Primary Sedimentation	1,929,749	2,975,300	3,146,300
Disposal of Sludge, Ash, and Grit	1,150,886	2,010,000	2,032,500
Boilers	147,081	282,000	283,000
Energy Recovery	2,303,573	3,792,400	3,923,700
Sludge Dewatering	2,423,792	3,897,900	3,986,700
Lime Stabilization	519,145	912,000	917,800
Secondary Treatment and Post Chlorination	1,299,063	2,130,000	2,125,000
General Plant Treatment	2,033,972	3,132,000	3,341,400
Total Plant Operations	<u>14,859,210</u>	<u>23,908,800</u>	<u>25,302,800</u>
Professional Services	<u>449,424</u>	<u>740,000</u>	<u>880,000</u>
Plant Maintenance			
Executive Administration	36,224	54,700	64,200
Safety	18,640	26,600	28,500
Accounting/Finance	5	200	0
Purchasing	1,367	2,100	2,400
Management Information Systems	13,326	16,800	23,800
Customer Service and Billing	36,111	49,600	50,800
Engineering Administration	353	500	600
Laboratory	53,249	82,000	106,700
Industrial Waste	3,951	6,200	7,300
Operations & Maintenance Administration	1,082	1,200	0
Main Pump Station	180,678	525,700	442,200
Rack and Grit	283,790	491,500	408,800
Mobile Equipment for Treatment	74,992	114,900	94,300
Primary Sedimentation	224,324	354,900	429,300
Boilers	1,586	2,900	7,200
Energy Recovery	794,560	1,189,100	1,250,700
Sludge Dewatering	644,451	973,500	954,400
Lime Stabilization Dewatering	172,823	259,800	294,400
Secondary Treatment and Post Chlorination	469,496	700,600	770,400
General Plant Treatment	3,074,463	4,683,200	5,408,300
Total Plant Maintenance	<u>6,085,471</u>	<u>9,536,000</u>	<u>10,344,300</u>
Employee Benefits	<u>13,917,446</u>	<u>22,164,400</u>	<u>24,708,700</u>
TOTAL OPERATING EXPENSES	<u>\$54,599,627</u>	<u>\$86,448,100</u>	<u>\$101,613,100</u>

- The 2020 budget provides an additional \$8.8 million in funding for municipal green infrastructure and source reduction “GROW” program financing.

A summary of authorized positions as proposed in the year 2020 budget is presented in Table 5-3. The table includes both management and union employees by department. Appendix B provides a listing of Authorized Positions (Proposed) by office, department, management staff, and union positions.

Table 5-3: Summary of Authorized Positions (as proposed in 2020 Budget)

	Management Employees		Union Employees	
	Authorized	Actual	Authorized	Actual
Executive Director	5*	1*	--	--
Contract Administration	7	5	--	--
Public Relations	9*	7	2	2
Scholastic Programs	12	6*	19*	13*
Municipal Outreach	7*	4	--	--
Finance & Administration				
Director's Office	2	2	--	--
Accounting	3	2	4	4
Customer Service & Billing	3	3	21	20
Human Resources	5	5*	--	--
Training and Development	2	2	--	--
Loss Control	6*	6*	15	14
MIS	2	2	18	18
Purchasing	3	3	8	6*
Operations & Maintenance				
Director's Office	3	3	--	--
Operations	12*	11	65*	64*
Mechanical Maintenance	10	7*	70	61*
Electrical Maintenance	5*	5	22	21*
Environmental Affairs				
Director's Office	3	2*	--	--
Residuals	4*	3*	1	1
Industrial Waste	3	2*	18	13*
Laboratory	3	3	15	15
ECM Systems	4	2	--	--
Engineering & Construction				
Director's Office				
Capital Projects	4	3	5	6*
OR/CD Administration	11*	9	2	1
	1	1	--	--
Regional Conveyance				
Director's Office	15*	10*	--	--
Wet Weather Programs	8*	5	9*	7
Interceptor Systems	10	8	55*	39*
Regionalization Facilities	2	0	5	0
TOTAL	164	122	354	305

* Numbers Designate Change

6. DEBT SERVICE COVERAGE CALCULATION

The year 2020 budget revenue expectation less the 2020 budget of operating expenses produces a net income available for debt service as shown by the following calculation.

2020 Projected Revenues	\$193,157,500
2020 Budgeted Operating Expenses	101,613,100
Transfer to Capital Facilities/GROW Fund	<u>8,800,000</u>
Net Operating Income	\$ 82,744,400
2020 Debt Service	\$ 59,297,194
Less Capitalized Interest	<u>0</u>
Net 2020 Debt Service	\$ 59,297,194

In accordance with the 1997 Trust, there are two tests that must be met to satisfy the debt service coverage requirements. The first test requires that Net Operating Income, which is current Revenues minus current Operating Expenses, cover Debt Service by 100 percent. This requirement will be met in 2020. In addition, \$8,800,000 has been allocated for potential cash funding of municipal green infrastructure and source reduction GROW program projects during 2020.

The second test requires minimum debt service coverage of 1.10. This requirement will also be met in 2020 as the Net Operating Income plus the January 1, 2019 Revenue Fund balance after deduction of the required fund balance (25 percent of the Operating Expense budget for 2019) provides Debt Service coverage of 3.37. The January 1, 2019 Revenue Fund balance was \$142,482,220, and the minimum balance, which must be maintained in the Revenue Fund is \$25,403,275. This leaves a beginning Revenue Fund balance of \$117,078,945 in excess of the 25 percent required minimum.

The ALCOSAN system continues to reflect good and improving coverage levels and also strong financial management practices and policies. As a result, Standard and Poor's rated ALCOSAN's \$157 million Series 2018 Bonds as "A+," and Moody's rated it "A1." At the same time, ALCOSAN's "A" rating was affirmed on its entire outstanding debt.

7. INSURANCE

The schedule of insurance policies presently in effect is shown on Table 7-1. These policies and coverages are in conformance with general practice of other authorities and meet the requirements of Section 6.12 of the Trust Indenture.

Table 7-1: Schedule of Insurance Policies

Type	Amount	Estimated Premium
PROPERTY (Deductible \$100,000) Blanket Building & Personal Property Boiler and Machinery Extra Expense Owned Equipment Contractors' Equipment Earthquake (\$100,000 deductible) Flood (\$500,000 deductible) Named Storm Willis of Pennsylvania American Home Assurance Co. Policy No. 060506430 May 16, 2019 to May 16, 2020	\$796,272,218 100,000,000 10,000,000 25,000,000 25,000,000 768,963,996	\$398,136
CRIME (\$10,000 Deductible) Employee Dishonesty (\$15,000 Deductible) ERISA Fidelity (No Deductible) On Premises (\$5,000 Deductible) In Transit (\$5,000 Deductible) Forgery and Alteration (\$10,000 Deductible) Computer Crime (\$10,000 Deductible) Funds Transfer Fraud (\$10,000 Deductible) Seubert & Associates Travelers Casualty and Surety Co. Policy No. 106289675 May 16, 2019 to May 16, 2020	\$2,500,000 1,000,000 25,000 25,000 250,000 1,000,000 1,000,000	\$3,643
GENERAL LIABILITY Each Occurrence General Aggregate Limit Seubert & Associates The Charter Oak Fire Insurance Co. Policy No. ZLP-21N44668-19 May 16, 2019 to May 16, 2020	\$1,000,000 2,000,000	\$181,590
SECURITY & PROFESSIONAL Each Occurrence Limit General Aggregate Limit Seubert & Associates The Charter Oak Fire Insurance Co. Policy No. ZLP-21N44668-19 May 16, 2019 to May 16, 2020	\$1,000,000 2,000,000	Included in General Liability
PUBLIC OFFICIALS (\$50,000 Deductible) Including Employment Practice Liability Occurrence Limit Annual Aggregate Seubert & Associates The Charter Oak Fire Insurance Co. Policy No. ZLP-21N44668-19 May 16, 2019 to May 16, 2020	\$1,000,000 1,000,000	Included in General Liability

Table 7-1: Schedule of Insurance Policies (Continued)

Type	Amount	Estimated Premium
AUTOMOBILE (\$1,000 Deductible) Auto Liability Uninsured/Underinsured Motorist Medical Expenses Seubert & Associates Travelers Indemnity Company Policy No. H-810-4F267715 May 16, 2019 to May 16, 2020	\$1,000,000 500,000 5,000	\$100,640
UMBRELLA (\$10,000 Retained Limit) Each Occurrence General Aggregate Seubert & Associates The Travelers Indemnity Company Policy No. ZUP-61M3095A-19 May 16, 2019 to May 16, 2020	\$15,000,000 15,000,000	\$45,346
FIDUCIARY LIABILITY For all Claims Settlement Program Limit of Liability HIPPA Limit of Liability 502(c) Penalties Limit of Liability Seubert & Associates Travelers Casualty & Surety Co. of America Policy No. 106098489 May 16, 2019 to May 16, 2020	\$1,000,000 250,000 250,000 100,000	\$8,821
POLLUTION (\$50,000 Each Event Deductible) ENVIRONMENTAL SITE LIABILITY (3 Year Term*) Liability Limit Each Incident Aggregate Limit Rogers Insurance Group Zurich – Steadfast Insurance Co. Policy No. EPC 9485417 02 May 16, 2017 to May 16, 2020	\$5,000,000 5,000,000	\$50,000*
HULL (Deductible See Below) and PROTECTION & INDEMNITY (\$5,000/ \$10,000 Deductible) Total Insured Value Combined Single Limit Hul - Barge-ACSA (\$5,000 Deductible) Hull - Deck Barge with Crane (\$20,000 Deductible) Hull - Aluminum Jon Boat & Trailer (\$5,000 Deductible) Hull - Tug/Pushboat (\$20,000 Deductible) P&I on each vessel above All Risks, Ltd. AGCS Marine Insurance Co. Policy No. OHL 92012920 May 16, 2019 to May 16, 2020	\$4,140,779 1,000,000 105,000 1,999,697 18,667 2,017,415 1,000,000	\$67,855

Table 7-1: Schedule of Insurance Policies (continued)

Type	Amount	Estimated Premium
GROUP TRAVEL (3-Year Term)* Hartford Life Insurance Co. Policy No. ETB-200335 November 9, 2019 to November 9, 2022	\$2,500,000	\$2,700*
WORKERS' COMPENSATION Bodily Injury Each Accident Bodily Injury by Disease Policy Limit Bodily Injury by Disease per Employee Seubert & Associates HARIE (Housing and Redevelopment Insurance Exchange) Policy No. HWC40756161219 May 16, 2019 to May 16, 2020	\$1,000,000 1,000,000 1,000,000	\$698,556
ARCHITECTS AND ENGINEERS PROFESSIONAL LIABILITY \$15,000 Each Claim Deductible \$45,000 Aggregate Deductible Each Wrongful Act Aggregate Rogers Insurance Group Lloyds of London Policy No.10143L180372 May 16, 2019 to May 16, 2020	\$1,000,000 \$1,000,000	\$10,919

Schedule I

Administration and Engineering

**Schedule I.1
Administration and Engineering**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
110	EXECUTIVE ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	\$349,300	\$194,232	\$297,100	\$402,400
6300	Vehicle Maintenance Labor	0	0	0	0
	Total Salaries and Wages	<u>349,300</u>	<u>194,232</u>	<u>297,100</u>	<u>402,400</u>
	Other Expenditures				
1560	Prepaid Insurance	1,045,000	934,629	1,050,000	1,100,000
6425	Training and Seminars	20,000	7,095	10,600	10,900
6716	Telephone	40,000	27,141	40,700	41,900
6725	Other Communication	5,000	1,570	2,400	2,500
6811	Travel & Expense	2,500	558	800	800
7304	Computer Paper	300	0	0	0
7307	Copier Paper	300	100	200	200
7310	Advertising	1,000	325	500	500
7313	Publications	400	0	0	0
7316	Board of Directors Expenses	2,000	1,154	1,700	3,000
7391	Miscellaneous Office Supplies and Materials	18,000	4,800	7,200	7,400
7420	Equipment Repairs and Maintenance	18,000	13,850	20,800	21,400
7429	Registration Fees/Conferences	20,000	390	600	600
7438	Printing Charges (Forms, Copies)	100	0	0	0
7441	Professional Association Fees	60,000	5,950	8,900	60,000
7457	Special Projects	1,500,000	551,439	1,500,000	1,500,000
7511	Gas and Oil-Vehicles and Equipment	900	732	1,100	1,100
7531	Maintenance/Repair-Vehicle and Equipment	500	1,119	1,700	1,800
7711	EDP Hardware	15,000	0	0	0
7721	EDP Software	5,000	0	0	0
	Total Other Expenditures	<u>2,754,000</u>	<u>1,550,852</u>	<u>2,647,200</u>	<u>2,752,100</u>
	Total Executive Administration	<u><u>\$3,103,300</u></u>	<u><u>\$1,745,084</u></u>	<u><u>\$2,944,300</u></u>	<u><u>\$3,154,500</u></u>

Schedule I.2
Administration and Engineering

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
115	PUBLIC RELATIONS				
	Salaries and Wages				
6011	Management Salary	\$692,500	\$340,019	\$520,000	\$658,200
6100	Union Wages-Except Plant Maintenance	167,300	106,904	164,800	169,500
	Total Salaries and Wages	<u>859,800</u>	<u>446,923</u>	<u>684,800</u>	<u>827,700</u>
	Other Expenditures				
6425	Training and Seminars	2,500	0	0	2,500
6725	Other Communication	50,000	14,934	23,000	40,000
6811	Travel and Expense	10,000	4,927	7,400	10,000
7307	Copier Paper	300	0	200	300
7310	Advertising	25,000	8,155	16,000	25,000
7313	Publications	1,500	433	650	1,500
7319	Promotional Materials	60,000	19,175	30,000	200,000
7323	Open House Expenses	225,000	20,531	110,000	200,000
7391	Miscellaneous Office Supplies and Materials	30,000	6,679	12,000	25,000
7423	Equipment Rental	600	0	0	600
7429	Registration Fees/Conferences	10,000	710	1,200	10,000
7438	Printing Charges (Forms, Copies)	50,000	4,553	45,000	75,000
7441	Professional Association Fees	1,500	315	500	1,500
7457	Special Projects	2,300,000	1,488,106	2,300,000	1,500,000
7511	Gas and Oil-Vehicles and Equipment	1,000	102	200	1,000
7531	Maintenance/Repair-Vehicle and Equipment	1,000	582	900	1,000
7711	EDP Hardware	5,000	0	0	3,000
7721	EDP Software	3,000	5,156	7,800	3,000
	Total Other Expenditures	<u>2,776,400</u>	<u>1,574,358</u>	<u>2,554,850</u>	<u>2,099,400</u>
	Total Public Relations	<u>\$3,636,200</u>	<u>\$2,021,281</u>	<u>\$3,239,650</u>	<u>\$2,927,100</u>

**Schedule I.3
Administration and Engineering**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
116	MUNICIPAL OUTREACH				
	Salaries and Wages				
6011	Management Salary	\$430,200	\$223,769	\$342,200	\$516,600
	Total Salaries and Wages	<u>430,200</u>	<u>223,769</u>	<u>342,200</u>	<u>516,600</u>
	Other Expenditures				
6425	Training and Seminars	1,000	0	0	500
6725	Other Communication	5,000	2,294	5,000	6,000
6811	Travel and Expense	8,000	1,195	10,000	12,000
7307	Copier Paper	1,000	0	100	1,000
7313	Publications	500	0	300	500
7319	Promotional Mtaerials	1,000	5,255	15,000	5,000
7391	Miscellaneous Office Supplies and Materials	5,000	2,850	3,000	5,000
7423	Equipment Rental	500	0	0	200
7429	Registration Fees/Conferences	42,500	960	5,000	42,500
7438	Printing Charges (Forms, Copies)	10,000	87	500	5,000
7441	Professional Association Fees	1,200	1,405	1,800	2,000
7457	Special Projects	50,000	36,406	80,000	130,000
7511	Gas and Oil-Vehicles and Equipment	3,000	402	800	1,000
7531	Maintenance/Repair-Vehicle and Equipment	800	31	1,800	800
7711	EDP Hardware	3,000	0	1,500	6,000
7721	EDP Software	400	0	400	400
	Total Other Expenditures	<u>132,900</u>	<u>50,885</u>	<u>125,200</u>	<u>217,900</u>
	Total Municipal Outreach	<u>\$563,100</u>	<u>\$274,654</u>	<u>\$467,400</u>	<u>\$734,500</u>

**Schedule I.4
Administration and Engineering**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
117	SCHOLASTIC OUTREACH				
	Salaries and Wages				
6011	Management Salary	\$669,500	\$258,600	\$395,500	\$744,900
6100	Union Wages-Except Plant Maintenance	1,051,500	427,179	658,600	1,225,400
	Total Salaries and Wages	<u>1,721,000</u>	<u>685,779</u>	<u>1,054,100</u>	<u>1,970,300</u>
	Other Expenditures				
6425	Training and Seminars	1,000	1,167	1,800	17,000
6711	Postage	100	0	0	100
6725	Other Communication	12,500	5,744	9,600	12,500
6811	Travel and Expense	10,000	4,749	7,100	10,000
7307	Copier Paper	1,000	134	300	1,000
7310	Advertising	5,000	0	0	5,000
7313	Publications	500	99	100	500
7319	Promotional Materials	15,000	745	11,400	15,000
7323	Open House Expenses	5,000	947	1,400	2,500
7391	Miscellaneous Office Supplies and Materials	15,000	8,163	12,500	4,000
7423	Equipment Rental	2,000	0	0	5,000
7429	Registration Fees/Conferences	3,500	9,300	9,300	4,000
7438	Printing Charges (Forms, Copies)	5,000	0	0	5,000
7441	Professional Association Fees	1,500	503	1,000	1,500
7457	Special Projects	100,000	22,696	50,000	120,000
7511	Gas and Oil-Vehicles and Equipment	1,500	1,209	1,800	2,000
7531	Maintenance/Repair-Vehicle and Equipment	2,000	521	800	2,000
7711	EDP Hardware	10,000	0	1,000	10,000
7721	EDP Software	4,000	0	0	6,000
	Total Other Expenditures	<u>194,600</u>	<u>55,977</u>	<u>108,100</u>	<u>223,100</u>
	Total Scholastic Outreach	<u>\$1,915,600</u>	<u>\$741,756</u>	<u>\$1,162,200</u>	<u>\$2,193,400</u>

**Schedule I.5
Administration and Engineering**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
120	HUMAN RESOURCES				
	Salaries and Wages				
6011	Management Salary	\$400,000	\$247,608	\$378,700	\$425,200
	Total Salaries and Wages	<u>400,000</u>	<u>247,608</u>	<u>378,700</u>	<u>425,200</u>
	Other Expenditures				
6811	Travel and Expense	1,000	63	100	1,000
7307	Copier Paper	600	201	400	600
7310	Advertising	15,000	2,739	5,000	15,000
7313	Publications	11,500	0	0	10,000
7391	Miscellaneous Office Supplies and Materials	15,000	6,556	10,000	15,000
7420	Equipment Repairs and Maintenance	1,000	631	1,000	1,000
7429	Registration Fees/Conferences	5,500	398	600	5,500
7438	Printing Charges (Forms, Copies)	8,500	0	2,500	8,500
7441	Professional Association Fees	400	809	1,300	800
7457	Special Projects	79,000	18,289	27,500	75,000
7711	EDP Hardware	5,000	8,180	12,300	5,000
7721	EDP Software	181,800	0	0	0
7751	Software Support Services	0	88,890	133,400	181,800
	Total Other Expenditures	<u>324,300</u>	<u>126,756</u>	<u>194,100</u>	<u>319,200</u>
	Total Human Resources	<u><u>\$724,300</u></u>	<u><u>\$374,364</u></u>	<u><u>\$572,800</u></u>	<u><u>\$744,400</u></u>

**Schedule I.6
Administration and Engineering**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
122	TRAINING ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	\$163,600	\$108,777	\$166,400	\$173,300
	Total Salaries and Wages	<u>163,600</u>	<u>108,777</u>	<u>166,400</u>	<u>173,300</u>
	Other Expenditures				
6425	Training and Seminars	44,000	52,550	80,500	50,000
6711	Postage	200	0	0	100
6725	Other Communication	0	89	200	200
6811	Travel and Expense	2,000	0	0	500
7391	Miscellaneous Office Supplies and Materials	1,000	132	300	500
7429	Registration Fees/Conferences	4,800	0	1,000	1,000
7438	Printing Charges (Forms, Copies)	7,500	0	1,500	1,500
7441	Professional Association Fees	700	399	400	400
7457	Special Projects	10,000	0	0	0
7711	EDP Hardware	0	39	100	0
7721	EDP Software	22,000	1,285	1,500	1,000
7751	Software Support Services	105,000	0	30,000	120,000
	Total Other Expenditures	<u>197,200</u>	<u>54,494</u>	<u>115,500</u>	<u>175,200</u>
	Total Training Administration	<u><u>\$360,800</u></u>	<u><u>\$163,271</u></u>	<u><u>\$281,900</u></u>	<u><u>\$348,500</u></u>

Schedule I.7
Administration and Engineering

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
130	ACCOUNTING/FINANCE				
	Salaries and Wages				
6011	Management Salary	\$452,400	\$259,761	\$397,300	\$488,900
6100	Union Wages-Except Plant Maintenance	281,600	188,549	290,700	300,300
	Total Salaries and Wages	<u>734,000</u>	<u>448,310</u>	<u>688,000</u>	<u>789,200</u>
	Other Expenditures				
6425	Training and Seminars	2,200	0	0	0
6811	Travel and Expense	4,000	935	1,000	8,100
7304	Computer Paper	3,000	0	0	0
7304	Copier Paper	400	33	100	200
7310	Advertising	500	243	300	500
7313	Publications	5,700	3,845	5,500	6,100
7391	Miscellaneous Office Supplies and Materials	41,000	23,438	30,000	45,500
7420	Equipment Repairs and Maintenance	5,000	1,163	1,200	5,000
7429	Registration Fes/Conferences	1,500	1,200	1,500	4,000
7438	Printing Charges (Forms, Copies)	6,600	1,753	4,500	6,700
7441	Professional Association Fees	3,200	1,955	2,300	3,000
7511	Gas and Oil-Vehicle and Equipment	1,400	538	900	900
7531	Maintenance/Repair-Vehicle and Equipment	1,100	206	300	1,100
7711	EDP Hardware	5,000	0	0	8,000
7721	EDP Software	800	0	0	800
7751	Software Support Services	24,400	24,275	29,600	26,200
	Total Other Expenditures	<u>105,800</u>	<u>59,584</u>	<u>77,200</u>	<u>116,100</u>
	Total Accounting/Finance	<u><u>\$839,800</u></u>	<u><u>\$507,894</u></u>	<u><u>\$765,200</u></u>	<u><u>\$905,300</u></u>

**Schedule I.8
Administration and Engineering**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
140	PURCHASING				
	Salaries and Wages				
6011	Management Salary	\$232,000	\$157,516	\$240,900	\$247,700
6100	Union Wages-Except Plant Maintenance	221,700	155,923	240,400	226,200
	Total Salaries and Wages	<u>453,700</u>	<u>313,439</u>	<u>481,300</u>	<u>473,900</u>
	Other Expenditures				
6425	Training and Seminars	3,000	29	1,200	2,000
6711	Postage	50,000	17,887	35,000	50,000
6725	Other Communication	200	0	200	200
6811	Travel and Expense	1,000	0	200	1,000
7307	Copier Paper	500	134	300	500
7310	Advertising	200	9	100	200
7321	MBE/WBE Administration Expense	8,000	3,972	7,000	8,000
7391	Miscellaneous Office Supplies and Materials	15,000	4,208	7,000	12,000
7420	Equipment Repairs and Maintenance	6,500	5,554	7,000	6,500
7423	Equipment Rental	500	0	0	500
7432	Freight Charges	1,500	0	200	1,000
7441	Professional Association Fees	600	240	600	600
7511	Gas and Oil-Vehicles and Equipment	1,000	433	700	1,000
7531	Maintenance/Repair-Vehicles and Equipment	5,000	133	5,000	5,000
7711	EDP Hardware	6,000	1,744	3,000	6,000
7721	EDP Software	1,000	0	200	1,000
	Total Other Expenditures	<u>100,000</u>	<u>34,343</u>	<u>67,700</u>	<u>95,500</u>
	Total Purchasing	<u><u>\$553,700</u></u>	<u><u>\$347,782</u></u>	<u><u>\$549,000</u></u>	<u><u>\$569,400</u></u>

**Schedule I.9
Administration and Engineering**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
405	ENGINEERING ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	\$180,800	\$152,522	\$233,300	\$199,900
6100	Union Wages-Except Plant Maintenance	223,500	62,325	96,100	304,500
	Total Salaries and Wages	<u>404,300</u>	<u>214,847</u>	<u>329,400</u>	<u>504,400</u>
	Other Expenditures				
6425	Training and Seminars	1,500	2,698	2,700	1,500
6725	Other Communication	3,200	1,724	2,900	3,200
6811	Travel and Expense	2,000	330	1,300	2,000
7307	Copier Paper	200	225	300	200
7310	Advertising	15,000	5,083	8,600	15,000
7313	Publications	100	1,387	1,400	100
7391	Miscellaneous Office Supplies and Materials	25,000	12,357	18,000	25,000
7420	Equipment Repairs and Maintenance	10,000	3,247	5,000	10,000
7429	Registration Fees/Conferences	1,500	195	200	2,000
7438	Printing Charges (Forms, Copies)	600	1,638	1,700	10,000
7441	Professional Association Fees	500	350	400	500
7511	Gas and Oil-Vehicles and Equipment	600	351	500	600
7531	Maintenance/Repair-Vehicles and Equipment	300	182	200	300
7711	EDP Hardware	5,000	20,577	20,600	5,000
7721	EDP Software	500	0	0	500
7751	Software Support Services	4,000	0	3,000	4,000
	Total Other Expenditures	<u>70,000</u>	<u>50,344</u>	<u>66,800</u>	<u>79,900</u>
	Total Engineering Administration	<u>\$474,300</u>	<u>\$265,191</u>	<u>\$396,200</u>	<u>\$584,300</u>

**Schedule I.10
Administration and Engineering**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
410	OR/CD ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	\$49,500	\$33,294	\$50,900	\$52,200
	Total Salaries and Wages	<u>49,500</u>	<u>33,294</u>	<u>50,900</u>	<u>52,200</u>
	Other Expenditures				
6811	Travel and Expense	0	6	100	0
7391	Miscellaneous Office Supplies and Materials	200	47	100	200
7420	Equipment Repairs and Maintenance	500	0	0	500
7457	Special Projects (Consulting Contractor)	40,000	964	1,700	40,000
	Total Other Expenditures	<u>40,700</u>	<u>1,017</u>	<u>1,900</u>	<u>40,700</u>
	Total OR/CD Administration	<u>\$90,200</u>	<u>\$34,311</u>	<u>\$52,800</u>	<u>\$92,900</u>

**Schedule I.11
Administration and Engineering**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
420	CAPITAL PROJECTS				
	Salaries and Wages				
6011	Management Salary	\$403,500	\$187,629	\$287,000	\$466,900
6100	Union Wages-Except Plant Maintenance	219,000	160,806	247,900	248,200
	Total Salaries and Wages	<u>622,500</u>	<u>348,435</u>	<u>534,900</u>	<u>715,100</u>
	Other Expenditures				
6425	Training and Seminars	4,000	1,770	2,500	4,000
6725	Other Communications	800	0	1,200	1,200
6811	Travel and Expense	3,200	527	600	3,200
7391	Miscellaneous Office Supplies and Materials	1,200	133	600	1,200
7420	Equipment Repairs and Maintenance	500	0	500	500
7429	Registration Fees/Conferences	3,000	0	1,000	3,000
7432	Freight Charges	100	0	0	0
7438	Printing Charges (Forms, Copies)	0	0	100	100
7441	Professional Association Fees	2,400	200	900	2,400
7511	Gas and Oil-Vehicles and Equipment	600	268	500	600
7531	Maintenance/Repair-Vehicles and Equipment	1,500	1,050	1,500	1,800
7711	EDP Hardware	6,000	0	3,000	6,000
7721	EDP Software	1,000	0	0	0
	Total Other Expenditures	<u>24,300</u>	<u>3,948</u>	<u>12,400</u>	<u>24,000</u>
	Total Capital Projects	<u><u>\$646,800</u></u>	<u><u>\$352,383</u></u>	<u><u>\$547,300</u></u>	<u><u>\$739,100</u></u>

**Schedule I.12
Administration and Engineering**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
430	CONTRACT ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	<u>\$429,100</u>	<u>\$195,316</u>	<u>\$298,700</u>	<u>\$462,600</u>
	Total Salaries and Wages	<u>429,100</u>	<u>195,316</u>	<u>298,700</u>	<u>462,600</u>
	Other Expenditures				
6425	Training amd Seminars	2,000	448	600	4,000
6725	Other Communication	1,300	772	1,300	1,300
6811	Travel and Expense	7,000	1,140	1,200	7,000
7307	Copier Paper	600	66	400	600
7191	Miscellaneous Office Supplies and Materials	12,000	3,292	3,800	12,000
7420	Equipment Repairs and Maintenance	0	0	0	0
7429	Registration Fees/Conferences	1,000	585	1,000	1,200
7438	Printing Charges (Forms, Copies)	900	44	100	600
7441	Professional Association Fees	900	0	1,200	900
7711	EDP Hardware	<u>4,000</u>	<u>2,687</u>	<u>6,000</u>	<u>6,600</u>
	Total Other Expenditures	<u>29,700</u>	<u>9,034</u>	<u>15,600</u>	<u>34,200</u>
	Total Contract Administration	<u><u>\$458,800</u></u>	<u><u>\$204,350</u></u>	<u><u>\$314,300</u></u>	<u><u>\$496,800</u></u>

Schedule I.13
Administration and Engineering

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
440	CSO PROGRAM MANAGEMENT				
	Salaries and Wages				
6011	Management Salary	\$269,600	\$196,143	\$300,000	\$321,300
6100	Union Wages-Except Plant Maintenance	505,200	329,959	508,700	535,900
	Total Salaries and Wages	<u>774,800</u>	<u>526,102</u>	<u>808,700</u>	<u>857,200</u>
	Other Expenditures				
6425	Training and Seminars	2,000	648	1,000	2,300
6811	Travel and Expense	5,000	2,062	3,100	5,500
7191	Miscellaneous Maint. Supplies and Materials	50,100	25,660	40,000	61,500
7313	Publications	1,000	0	0	1,000
7391	Miscellaneous Office Supplies and Materials	5,000	1,764	3,000	5,000
7429	Registration Fees/Conferences	6,700	0	0	5,500
7438	Printing Charges (Forms, Copies)	500	0	0	500
7441	Professional Association Fees	900	380	900	900
7511	Gas and Oil-Vehicles and Equipment	6,000	4,471	6,700	7,500
7531	Maintenance/Repair-Vehicles and Equipment	5,000	971	1,500	7,000
7711	EDP Hardware	16,100	895	13,900	23,100
7721	EDP Software	500	113	200	500
	Total Other Expenditures	<u>98,800</u>	<u>36,964</u>	<u>70,300</u>	<u>120,300</u>
	Total CSO Program Management	<u><u>\$873,600</u></u>	<u><u>\$563,066</u></u>	<u><u>\$879,000</u></u>	<u><u>\$977,500</u></u>

**Schedule I.14
Administration and Engineering**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
540	ECM/ENVIRONMENTAL REPORTING				
	Salaries and Wages				
6011	Management Salary	\$197,000	\$78,206	\$119,600	\$206,100
	Total Salaries and Wages	<u>197,000</u>	<u>78,206</u>	<u>119,600</u>	<u>206,100</u>
	Other Expenditures				
6425	Training and Seminars	10,000	0	0	10,000
6725	Other Communication	0	0	0	0
6811	Travel and Expense	10,000	0	0	10,000
7391	Miscellaneous Office Supplies and Materials	1,500	681	1,100	1,500
7429	Registration Fees/Conferences	5,000	0	200	5,000
7438	Printing Charges (Forms, Copies)	3,000	0	0	3,000
7441	Professional Association Fees	1,000	0	0	1,000
7711	EDP Hardware	6,000	0	3,000	5,000
7721	EDP Software	1,500	350	600	1,500
	Total Other Expenditures	<u>38,000</u>	<u>1,031</u>	<u>4,900</u>	<u>37,000</u>
	Total ECM/Environmental Reporting	<u>\$235,000</u>	<u>\$79,237</u>	<u>\$124,500</u>	<u>\$243,100</u>

Schedule II

Management Information Systems

**Schedule II
Management Information Systems**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
200	MANAGEMENT INFORMATION SYSTEMS				
	Salaries and Wages				
6011	Management Salary	\$277,800	\$154,851	\$236,800	\$244,800
6100	Union Wages-Except Plant Maintenance	1,580,300	978,599	1,508,800	1,567,200
	Total Salaries and Wages	<u>1,858,100</u>	<u>1,133,450</u>	<u>1,745,600</u>	<u>1,812,000</u>
	Other Expenditures				
6425	Training and Seminars	20,000	0	7,000	20,000
6,725	Other Communications	0	7,439	11,700	139,000
6811	Travel and Expense	200	0	200	200
6921	Electricity	6,300	3,342	5,900	6,300
7307	Copier Paper	1,600	134	200	1,600
7313	Publications	500	0	100	500
7391	Miscellaneous Office Supplies and Materials	25,000	13,195	17,200	17,500
7420	Equipment Repairs and Maintenance	20,000	2,911	6,300	20,000
7423	Equipment Rental	100	0	100	100
7429	Registration Fees/Conferences	300	0	100	300
7432	Freight Charges	100	0	100	100
7438	Printing Charges (Forms, Copies)	100	0	100	100
7441	Professional Association Fees	700	0	600	800
7511	Gas and Oil-Vehicles and Equipment	700	396	600	700
7531	Maintenance/Repair-Vehicles and Equipment	700	133	200	700
7711	EDP Hardware	200,000	110,571	123,600	145,000
7721	EDP Software	60,000	4,679	16,700	325,000
7731	EDP Maintenance Service	299,200	134,338	255,500	48,200
7751	Software Supportive Service	576,100	233,340	531,600	485,900
	Total Other Expenditures	<u>1,211,600</u>	<u>510,478</u>	<u>977,800</u>	<u>1,212,000</u>
	Total Management Information Systems	<u><u>\$3,069,700</u></u>	<u><u>\$1,643,928</u></u>	<u><u>\$2,723,400</u></u>	<u><u>\$3,024,000</u></u>

Schedule III

Customer Service and Billing

**Schedule III
Customer Service and Billing**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
300	CUSTOMER SERVICE AND BILLING				
	Salaries and Wages				
6011	Management Salary	\$241,000	\$162,923	\$249,200	\$255,700
6100	Union Wages-Except Plant Maintenance	<u>1,243,200</u>	<u>749,343</u>	<u>1,155,300</u>	<u>1,291,200</u>
	Total Salaries and Wages	<u>1,484,200</u>	<u>912,266</u>	<u>1,404,500</u>	<u>1,546,900</u>
	Other Expenditures				
6425	Training and Seminars	2,500	0	300	2,500
6711	Postage	6,600	4,564	6,800	7,000
6725	Other Communication	1,500	717	1,500	1,500
6811	Travel and Expense	100	26	100	100
6921	Electricity	50,000	21,024	40,000	50,000
6931	Natural Gas	15,000	6,211	11,000	15,000
6941	Water	5,000	2,899	4,500	5,000
7307	Copier Paper	3,000	1,003	1,500	3,000
7313	Publications	1,000	0	400	1,000
7391	Miscellaneous Office Supplies and Materials	6,000	10,145	12,600	7,000
7420	Equipment Repairs and Materials	10,000	2,652	6,700	10,000
7423	Equipment Rental	1,000	0	200	1,000
7429	Registration Fees/Conferences	1,000	0	300	1,000
7438	Printing Charges (Forms, Copies)	2,000	162	500	2,000
7441	Professional Association Fees	600	0	200	600
7462	Service Charge-Billing	195,000	121,810	208,000	215,000
7465	Service Charge-Collection	12,400	1,919	12,000	12,000
7468	Refunds to Municipalities/Bulk	1,007,000	954,208	954,300	1,012,000
7470	Customer Assistance Program	1,000,000	529,640	530,000	580,000
7511	Gas and Oil-Vehicles and Equipment	3,000	247	500	3,000
7531	Maintenance/Repair-Vehicles and Equipment	3,000	416	700	3,000
7711	EDP Hardware	<u>24,000</u>	<u>0</u>	<u>2,500</u>	<u>24,000</u>
	Total Other Expenditures	<u>2,349,700</u>	<u>1,657,643</u>	<u>1,794,600</u>	<u>1,955,700</u>
	Total Customer Service and Billing	<u><u>\$3,833,900</u></u>	<u><u>\$2,569,909</u></u>	<u><u>\$3,199,100</u></u>	<u><u>\$3,502,600</u></u>

Schedule IV Environmental Compliance

Schedule IV.1 Environmental Compliance

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
505	ENVIRONMENTAL COMPLIANCE				
	Salaries and Wages				
6011	Management Salary	\$410,400	\$305,700	\$467,500	\$261,000
	Total Salaries and Wages	<u>410,400</u>	<u>305,700</u>	<u>467,500</u>	<u>261,000</u>
	Other Expenditures				
6425	Training and Seminars	1,000	100	500	3,000
6811	Travel and Expense	1,000	12	500	1,000
7313	Publications	1,000	0	500	1,000
7391	Miscellaneous Office Supplies and Materials	5,500	5,888	6,000	5,500
7420	Equipment Repairs and Maintenance	5,500	1,633	1,700	5,500
7429	Registration Fees/Conferences	1,000	0	1,000	1,000
7438	Printing Charges (Forms, Copies)	500	87	300	500
7441	Professional Association Fees	1,000	50	500	1,000
7442	Hazardous Materials Disposal	30,000	9,980	20,000	30,000
7457	Special Projects	10,000	808	3,000	10,000
7471	Permits and Equipment Registration	173,500	4,473	10,000	173,500
7511	Gas and Oil-Vehicles and Equipment	600	435	500	600
7531	Maintenance/Repair-Vehicles and Equipment	500	962	1,000	500
7711	EDP Hardware	2,000	0	3,300	2,000
7721	EDP Software	0	229	300	0
	Total Other Expenditures	<u>233,100</u>	<u>24,657</u>	<u>49,100</u>	<u>235,100</u>
	Total Environmental Compliance	<u>\$643,500</u>	<u>\$330,357</u>	<u>\$516,600</u>	<u>\$496,100</u>

Schedule IV.2 Environmental Compliance

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
510	LABORATORY				
	Salaries and Wages				
6011	Management Salary	\$249,500	\$108,769	\$166,400	\$263,600
6100	Union Wages-Except Plant Maintenance	<u>1,199,000</u>	<u>814,223</u>	<u>1,255,300</u>	<u>1,344,200</u>
	Total Salaries and Wages	<u>1,448,500</u>	<u>922,992</u>	<u>1,421,700</u>	<u>1,607,800</u>
	Other Expenditures				
6425	Training and Seminars	15,000	190	300	20,000
7251	Pretreatment Supplies and Expenses	500	59	100	500
7291	Miscellaneous Lab Supplies and Glass	150,000	144,548	216,800	200,000
7307	Copier Paper	1,000	868	1,300	1,500
7313	Publications	500	0	0	500
7391	Miscellaneous Office Supplies and Materials	10,000	4,784	7,200	10,000
7420	Equipment Repairs and Maintenance	70,000	42,849	64,300	75,000
7435	Demurrage Charges	45,000	24,799	37,200	50,000
7441	Professional Association Fees	0	350	500	500
7444	Outside Laboratory Services	170,000	93,495	140,300	180,000
7511	Gas and Oil-Vehicle and Equipment	500	269	400	500
7531	Maintenance/Repair-Vehicles and Equipment	500	133	200	500
7711	EDP Hardware	3,000	1,297	2,000	3,000
7721	EDP Software	0	700	1,100	500
7900	Laboratory Chemicals	<u>150,000</u>	<u>74,450</u>	<u>111,700</u>	<u>150,000</u>
	Total Other Expenditures	<u>616,000</u>	<u>388,791</u>	<u>583,400</u>	<u>692,500</u>
	Total Laboratory	<u><u>\$2,064,500</u></u>	<u><u>\$1,311,783</u></u>	<u><u>\$2,005,100</u></u>	<u><u>\$2,300,300</u></u>

Schedule IV.3 Environmental Compliance

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
520	INDUSTRIAL WASTE				
	Salaries and Wages				
6011	Management Salary	\$255,900	\$98,023	\$149,900	\$242,000
6100	Union Wages-Except Plant Maintenance	1,220,200	721,252	1,112,000	1,339,200
6300	Vehicle Maintenance Labor	2,900	245	400	700
	Total Salaries and Wages	<u>1,479,000</u>	<u>819,520</u>	<u>1,262,300</u>	<u>1,581,900</u>
	Other Expenditures				
6425	Training and Seminars	5,500	544	2,200	6,000
6725	Other Communication	8,000	4,842	8,000	8,200
6811	Travel and Expense	7,500	759	1,300	8,000
7251	Pretreatment Supplies and Expenses	42,400	24,636	38,000	45,000
7255	Pollution Prevention Program Expense	1,000	0	0	1,000
7307	Copier Paper	900	0	0	700
7391	Miscellaneous Office Supplies and Materials	7,200	3,049	5,000	7,500
7420	Equipment Repairs and Maintenance	3,000	817	1,300	3,100
7429	Registration Fees/Conferences	500	0	250	700
7438	Prining Charges (Forms, Copies)	1,000	39	100	1,000
7441	Professional Association Fees	100	0	0	1,200
7457	Special Projects	228,000	19,212	30,000	228,000
7511	Gas and Oil-Vehicles and Equipment	9,300	7,164	12,500	15,000
7531	Maintenance/Repair-Vehicles and Equipment	8,700	6,163	10,000	10,000
7711	EDP Hardware	23,000	15,677	25,000	25,000
7721	EDP Software	59,000	43,570	70,000	80,000
	Total Other Expenditures	<u>405,100</u>	<u>126,472</u>	<u>203,650</u>	<u>440,400</u>
	Total Industrial Waste	<u>\$1,884,100</u>	<u>\$945,992</u>	<u>\$1,465,950</u>	<u>\$2,022,300</u>

Schedule IV.4 Environmental Compliance

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
530	DIVERSE RESIDUALS MANAGEMENT				
	Salaries and Wages				
6011	Management Salary	\$187,600	\$117,936	\$180,400	\$192,400
6100	Union Wages-Except Plant Maintenance	48,200	28,205	43,100	45,300
6300	Vehicle Maintenance Labor	2,800	1,516	2,300	4,600
	Total Salaries and Wages	<u>238,600</u>	<u>147,657</u>	<u>225,800</u>	<u>242,300</u>
	Other Expenditures				
6425	Training and Seminars	2,000	869	2,000	3,000
6811	Travel and Expense	3,000	0	1,000	3,000
7313	Publications	1,000	0	500	1,000
7391	Miscellaneous Office Supplies and Materials	2,500	1,277	2,000	5,000
7429	Registration Fees/Conferences	2,000	289	1,000	2,000
7438	Printing Charges (Forms, Copies)	2,000	0	0	5,000
7441	Professional Association Fees	3,000	24,442	25,000	3,000
7444	Outside Laboratory Service	5,000	275	500	5,000
7457	Special Projects	25,000	5,260	18,000	25,000
7511	Gas and Oil-Vehicles and Equipment	2,000	296	600	3,000
7531	Maintenance/Repair-Vehicles and Equipment	1,000	133	500	1,000
7711	EDP Hardware	3,000	2,104	2,200	6,000
7721	EDP Software	0	175	200	40,000
	Total Other Expenditures	<u>51,500</u>	<u>35,120</u>	<u>53,500</u>	<u>102,000</u>
		<u>\$290,100</u>	<u>\$182,777</u>	<u>\$279,300</u>	<u>\$344,300</u>

Schedule V Interceptor System

**Schedule V.1
Interceptor System**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
605	REGIONAL CONVEYANCE ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	\$683,700	\$347,064	\$530,800	\$864,500
	Total Salaries and Wages	<u>683,700</u>	<u>347,064</u>	<u>530,800</u>	<u>864,500</u>
	Other Expenditures				
6425	Training and Seminars	8,000	2,107	2,500	10,000
6725	Other Communcation	25,000	11,285	22,200	25,000
6811	Travel and Expense	10,000	4,095	10,000	10,000
7313	Publications	200	541	600	600
7391	Miscellaneous Office Supplies and Materials	15,000	10,424	15,000	15,000
7429	Registration Fees/Conferences	5,000	435	1,500	5,000
7438	Printing Charges (Forms, Copies)	200	73	100	200
7441	Professional Association Fees	800	605	700	800
7457	Special Projects	200	0	0	200
7511	Gas and Oil-Vehicles and Equipment	200	507	800	800
7531	Maintenance/Repair-Vehicles & Equipment	2,400	766	1,000	2,400
7711	EDP Hardware	7,500	8,819	9,000	15,000
7721	EDP Software	7,500	2,335	2,500	5,000
7731	EDP Maintenance Service	18,000	10,500	23,000	23,000
	Total Other Expenditures	<u>100,000</u>	<u>52,492</u>	<u>88,900</u>	<u>113,000</u>
	Total Regional Conveyance Administration	<u><u>\$783,700</u></u>	<u><u>\$399,556</u></u>	<u><u>\$619,700</u></u>	<u><u>\$977,500</u></u>

**Schedule V.2
Interceptor System**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
610	GENERAL-UPPER ALLEGHENY SYSTEM				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$99,900	\$35,655	\$55,000	\$78,300
6250	Inside Maintenance Labor	3,200	0	0	800
6300	Vehicle Maintenance Labor	<u>2,000</u>	<u>2,524</u>	<u>3,900</u>	<u>7,600</u>
	Total Salaries and Wages	<u>105,100</u>	<u>38,179</u>	<u>58,900</u>	<u>86,700</u>
	Other Expenditures				
7106	Expendable Parts and Tools	2,000	580	1,000	2,000
7110	Intrumentation Repair & Maintenance	200	0	100	200
7191	Miscellaneous Maintenance Supplies & Expenses	500	0	100	500
7420	Equipment Repairs aand Maintenance	<u>1,000</u>	<u>0</u>	<u>500</u>	<u>1,000</u>
	Total Other Expenditures	<u>3,700</u>	<u>580</u>	<u>1,700</u>	<u>3,700</u>
	Total General-Upper Allegheny System	<u><u>\$108,800</u></u>	<u><u>\$38,759</u></u>	<u><u>\$60,600</u></u>	<u><u>\$90,400</u></u>

**Schedule V.3
Interceptor System**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
620	VERONA PUMP STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$96,300	\$20,064	\$30,900	\$44,100
6250	Inside Maintenance Labor	3,100	0	0	500
	Total Salaries and Wages	<u>99,400</u>	<u>20,064</u>	<u>30,900</u>	<u>44,600</u>
	Other Expenditures				
6921	Electricity	14,000	8,399	12,600	14,000
6941	Water	3,000	10,960	13,000	4,000
7106	Expendable Parts and Tools	10,000	535	4,000	10,000
7110	Instrumentation Repair/Maintenance	10,000	896	2,000	7,000
7191	Miscellaneous Maintenance Supplies and Expenses	3,000	136	1,000	3,000
7511	Gas and Oil-Vehicles and Equipment	500	0	400	500
	Total Other Expenditures	<u>40,500</u>	<u>20,926</u>	<u>33,000</u>	<u>38,500</u>
	Total Verona Pump Station	<u><u>\$139,900</u></u>	<u><u>\$40,990</u></u>	<u><u>\$63,900</u></u>	<u><u>\$83,100</u></u>

**Schedule V.4
Interceptor System**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
630	SQUAW RUN PUMP STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$77,900	\$15,499	\$23,900	\$34,100
6250	Inside Maintenance Labor	<u>2,500</u>	<u>0</u>	<u>0</u>	<u>400</u>
	Total Salaries and Wages	<u>80,400</u>	<u>15,499</u>	<u>23,900</u>	<u>34,500</u>
	Other Expenditures				
6921	Electricity	18,000	10,589	18,000	18,000
6941	Water	5,000	3,698	6,400	5,000
7106	Expendable Parts and Tools	10,000	0	3,000	10,000
7110	Instrumentation Repair/Maintenance	10,000	716	2,000	7,000
7191	Miscellaneous Maintenance Supplies and Expenses	5,000	4,293	5,000	5,000
7458	Vacuum/Jet Services	600	0	0	0
7511	Gas and Oil-Vehicles and Equipment	<u>0</u>	<u>0</u>	<u>500</u>	<u>500</u>
	Total Other Expenditures	<u>48,600</u>	<u>19,296</u>	<u>34,900</u>	<u>45,500</u>
	Total Squaw Run Pump Station	<u>\$129,000</u>	<u>\$34,795</u>	<u>\$58,800</u>	<u>\$80,000</u>

**Schedule V.5
Interceptor System**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
640	MONTROSE EJECTOR STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$50,100	\$14,730	\$22,700	\$32,400
6250	Inside Maintenance Labor	1,600	0	0	400
	Total Salaries and Wages	<u>51,700</u>	<u>14,730</u>	<u>22,700</u>	<u>32,800</u>
	Other Expenditures				
6921	Electricity	8,000	4,110	7,000	8,000
7106	Expendable Parts and Tools	10,000	0	5,000	10,000
7110	Instrumentation Repair/Maintenance	10,000	639	1,000	7,000
7191	Miscellaneous Maintenance Supplies and Expenses	2,000	321	1,000	2,000
7420	Equipment Repairs and Maintenance	5,000	0	0	3,000
7511	Gas and Oil-Vehicles and Equipment	400	0	300	400
	Total Other Expenditures	<u>35,400</u>	<u>5,070</u>	<u>14,300</u>	<u>30,400</u>
	Total Montrose Ejector Station	<u><u>\$87,100</u></u>	<u><u>\$19,800</u></u>	<u><u>\$37,000</u></u>	<u><u>\$63,200</u></u>

**Schedule V.6
Interceptor System**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
650	SAW MILL RUN				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$85,600	\$44,320	\$68,300	\$97,300
6250	Inside Maintenance Labor	2,800	0	0	1,000
6300	Vehicle Maintenance Labor	0	1,297	2,000	3,900
	Total Salaries and Wages	<u>88,400</u>	<u>45,617</u>	<u>70,300</u>	<u>102,200</u>
	Other Expenditures				
7106	Expendable Parts and Tools	3,000	0	1,000	3,000
7191	Miscellaneous Maintenance Supplies and Expenses	500	17	100	500
7531	Maintenance/Repair-Vehicles and Equipment	1,000	0	0	0
	Total Other Expenditures	<u>4,500</u>	<u>17</u>	<u>1,100</u>	<u>3,500</u>
	Total Saw Mill Run	<u><u>\$92,900</u></u>	<u><u>\$45,634</u></u>	<u><u>\$71,400</u></u>	<u><u>\$105,700</u></u>

**Schedule V.7
Interceptor System**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
660	REGIONALIZED FACILITIES				
	Salaries and Wages				
6011	Management Salary	\$0	\$0	\$0	\$80,000
6100	UnionWages - Except Pit	0	0	0	303,400
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>383,400</u>
	Other Expenditures				
7106	Expendable Parts and Tools	0	315	500	50,000
7110	Instrumentation Repair and Maintenance	0	0	0	10,000
7191	Miscellaneous Maintenance Supplies and Expenses	10,000	0	0	500,000
7420	Equipment Repairs and Maintenance	450,000	0	0	0
	Total Other Expenditures	<u>460,000</u>	<u>315</u>	<u>500</u>	<u>560,000</u>
	Total Regionalized Facilities	<u><u>\$460,000</u></u>	<u><u>\$315</u></u>	<u><u>\$500</u></u>	<u><u>\$943,400</u></u>

**Schedule V.8
Interceptor System**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
690	GENERAL-EXCEPT UPPER ALLEGHENY				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$4,055,000	\$2,136,835	\$3,294,500	\$4,689,800
6250	Inside Maintenance Labor	128,900	0	0	45,400
6300	Vehicle Maintenance Labor	53,600	12,934	19,900	39,100
	Total Salaries and Wages	<u>4,237,500</u>	<u>2,149,769</u>	<u>3,314,400</u>	<u>4,774,300</u>
	Other Expenditures				
6425	Training and Seminars	15,000	4,426	10,000	15,000
6725	Other Communcation	0	2,113	3,300	4,000
6921	Electricity	6,300	1,465	2,500	4,000
6931	Natural Gas	7,000	0	0	5,000
6941	Water	1,000	0	0	1,000
7106	Expendable Parts and Tools	60,000	17,684	36,000	50,000
7110	Instrumentation Repair and Maintenance	10,000	3,393	4,000	6,000
7191	Miscellaneous Maintenance Supplies and Expenses	60,000	38,827	50,000	60,000
7420	Equipment Repairs and Maintenance	30,000	20,791	25,000	30,000
7473	Interceptor Cleaning & Inspection	3,500,000	1,449,248	2,700,000	6,000,000
7475	Disaster Recovery Services	5,000	0	0	5,000
7511	Gas and Oil-Vehicles and Equipment	60,000	37,992	57,000	60,000
7521	Gas and Oil-Watercraft	20,000	13,036	20,000	20,000
7531	Maintenance/Repair-Vehicles and Equipment	130,000	72,820	110,000	130,000
7541	Maintenance/Repair-Watercraft	20,000	23,484	24,000	20,000
	Total Other Expenditures	<u>3,924,300</u>	<u>1,685,279</u>	<u>3,041,800</u>	<u>6,410,000</u>
	Total General-Except Upper Allegheny System	<u><u>\$8,161,800</u></u>	<u><u>\$3,835,048</u></u>	<u><u>\$6,356,200</u></u>	<u><u>\$11,184,300</u></u>

**Schedule V.9
Interceptor System**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
691	CORLISS PUMP STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$59,900	\$28,856	\$44,500	\$63,400
6250	Inside Maintenance Labor	2,000	0	0	700
	Total Salaries and Wages	<u>61,900</u>	<u>28,856</u>	<u>44,500</u>	<u>64,100</u>
	Other Expenditures				
6921	Electricity	42,000	27,864	41,800	42,000
6941	Water	300	0	100	300
7106	Expendable Parts and Tools	15,000	1,907	4,000	15,000
7110	Instrumentation Repair/Maintenance	7,000	698	2,000	5,000
7191	Miscellaneous Maintenance Supplies and Expenses	4,000	2,069	3,000	4,000
7420	Equipment Repairs and Maintenance	10,000	0	0	500
	Total Other Expenditures	<u>78,300</u>	<u>32,538</u>	<u>50,900</u>	<u>66,800</u>
	Total Corliss Pump Station	<u>\$140,200</u>	<u>\$61,394</u>	<u>\$95,400</u>	<u>\$130,900</u>

**Schedule V.10
Interceptor System**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
692	MELANCTHON EJECTOR STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$29,100	\$14,873	\$22,900	\$32,700
6250	Inside Maintenance Labor	1,000	0	0	400
	Total Salaries and Wages	<u>30,100</u>	<u>14,873</u>	<u>22,900</u>	<u>33,100</u>
	Other Expenditures				
6921	Electricity	6,000	4,898	7,300	7,000
6941	Water	300	273	400	400
7106	Expendable Parts and Tools	5,000	1,506	3,000	5,000
7110	Instrumentation Repair/Maintenance	2,000	0	1,000	1,000
7191	Miscellaneous Maintenance Supplies and Expenses	1,000	268	500	1,000
	Total Other Expenditures	<u>14,300</u>	<u>6,945</u>	<u>12,200</u>	<u>14,400</u>
	Total Melancthon Ejector Station	<u><u>\$44,400</u></u>	<u><u>\$21,818</u></u>	<u><u>\$35,100</u></u>	<u><u>\$47,500</u></u>

**Schedule V.11
Interceptor System**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
694	ELLA STREET PUMP STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$56,900	\$27,648	\$42,600	\$60,700
6250	Inside Maintenance Labor	<u>1,900</u>	<u>0</u>	<u>0</u>	<u>600</u>
	Total Salaries and Wages	<u>58,800</u>	<u>27,648</u>	<u>42,600</u>	<u>61,300</u>
	Other Expenditures				
6921	Electricity	25,000	20,638	30,000	27,000
6931	Natural Gas	6,000	3,354	5,000	6,000
6941	Water	300	229	400	300
7106	Expendable Parts and Tools	5,000	164	1,000	5,000
7110	Instrumentation Repair/Maintenance	6,000	4,747	5,000	6,000
7191	Miscellaneous Maintenance Supplies and Expenses	3,000	1,332	2,000	3,000
7420	Equipment Repairs and Maintenance	5,000	0	0	5,000
7511	Gas and Oil-Vehicle and Equipment	<u>1,000</u>	<u>189</u>	<u>500</u>	<u>1,000</u>
	Total Other Expenditures	<u>51,300</u>	<u>30,653</u>	<u>43,900</u>	<u>53,300</u>
	Total Ella Street Pump Station	<u>\$110,100</u>	<u>\$58,301</u>	<u>\$86,500</u>	<u>\$114,600</u>

**Schedule V.12
Interceptor System**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
695	SANDY CREEK PUMP STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$111,900	\$19,941	\$30,700	\$43,800
6250	Inside Maintenance Labor	<u>3,600</u>	<u>0</u>	<u>0</u>	<u>500</u>
	Total Salaries and Wages	<u>115,500</u>	<u>19,941</u>	<u>30,700</u>	<u>44,300</u>
	Other Expenditures				
6921	Electricity	65,000	41,025	70,500	70,000
6931	Natural Gas	6,000	1,866	2,000	4,000
6941	Water	2,000	2,350	3,500	2,000
7106	Expendable Parts and Tools	20,000	4,469	15,000	20,000
7110	Instrumentation Repair/Maintenance	10,000	1,030	3,000	10,000
7191	Miscellaneous Maintenance Supplies and Expenses	5,000	1,420	2,500	5,000
7511	Gas and Oil-Vehicles and Equipment	<u>1,000</u>	<u>195</u>	<u>600</u>	<u>1,000</u>
	Total Other Expenditures	<u>109,000</u>	<u>52,355</u>	<u>97,100</u>	<u>112,000</u>
	Total Sandy Creek Pump Station	<u><u>\$224,500</u></u>	<u><u>\$72,296</u></u>	<u><u>\$127,800</u></u>	<u><u>\$156,300</u></u>

**Schedule V.13
Interceptor System**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
697	U5 Ejector Station				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$0	\$0	\$0	\$0
6250	Inside Maintenance Labor	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
7106	Expendable Parts and Tools	100	0	0	0
7110	Instrumentation Repair/Maintenance	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Other Expenditures	<u>200</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total U5 Ejector Station	<u>\$200</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>

Schedule VI Plant Operations

**Schedule VI.1
Plant Operations**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
125	SAFETY				
	Salaries and Wages				
6011	Management Salary	\$365,000	\$204,318	\$312,500	\$445,800
6100	Union Wages-Except Plant	908,600	521,983	804,800	954,100
	Total Salaries and Wages	<u>1,273,600</u>	<u>726,301</u>	<u>1,117,300</u>	<u>1,399,900</u>
	Other Expenditures				
6425	Training and Seminars	45,000	13,916	30,000	48,000
6517	Physical Examinations	7,000	4,604	6,000	9,000
6811	Travel and Expense	8,000	1,344	3,000	8,000
7011	Plant Security	34,000	12,717	19,000	34,000
7313	Publications	12,000	399	7,000	15,000
7391	Miscellaneous Office Supplies and Materials	20,000	9,967	15,000	20,000
7420	Equipment Repairs and Maintenance	22,000	15,909	20,000	18,000
7441	Professional Association Fees	2,300	435	1,500	2,300
7457	Special Projects	10,000	0	5,000	10,000
7511	Gas & Oil-Vehicle & Equipment	6,000	1,941	4,000	6,000
7531	Maintenance/Repair-Vehicles and Equipment	7,000	5,259	7,000	8,000
7711	EDP Hardware	6,000	2,290	3,000	6,000
7762	Prescription Safety Glass Program	8,000	4,575	8,000	8,000
7764	Safety Shoe Program	12,000	9,591	12,000	12,000
7766	Industrial Hygiene	5,000	842	5,000	5,000
7770	Safety Equipment	46,000	11,129	18,000	39,000
7776	Fire Extinguishing Inspection and Recharging	34,000	19,419	30,000	34,000
	Total Other Expenditures	<u>284,300</u>	<u>114,337</u>	<u>193,500</u>	<u>282,300</u>
	Total Safety	<u><u>\$1,557,900</u></u>	<u><u>\$840,638</u></u>	<u><u>\$1,310,800</u></u>	<u><u>\$1,682,200</u></u>

**Schedule VI.2
Plant Operations**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
705	OPERATIONS AND MAINTENANCE ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	\$306,600	\$206,934	\$316,500	\$333,700
6300	Vehicle Maintenance Labor	26,300	325	500	1,000
	Total Salaries and Wages	<u>332,900</u>	<u>207,259</u>	<u>317,000</u>	<u>334,700</u>
	Other Expenditures				
6425	Training and Seminars	3,000	175	1,000	2,000
6725	Other Communications	15,000	16,821	23,000	19,000
6811	Travel and Expense	3,000	960	1,500	3,000
7391	Miscellaneous Office Supplies and Materials	15,000	10,750	16,000	16,000
7429	Registration Fees/Conferences	2,000	0	0	2,000
7441	Professional Association Fees	2,000	695	1,000	2,000
7511	Gas and Oil-Vehicles and Equipment	1,200	779	1,200	1,200
7531	Maintenance/Repair-Vehicles and Equipment	500	0	500	500
7711	EDP Hardware	2,500	0	0	2,000
	Total Other Expenditures	<u>44,200</u>	<u>30,180</u>	<u>44,200</u>	<u>47,700</u>
	Total Operations and Maintenance Administration	<u>\$377,100</u>	<u>\$237,439</u>	<u>\$361,200</u>	<u>\$382,400</u>

**Schedule VI.3
Plant Operations**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
710	MAIN PUMP STATION				
	Salaries and Wages				
6100	Union Wages-Except Plant Maintenance	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
6921	Electricity	1,600,000	878,562	1,500,000	1,600,000
7091	Miscellaneous Operating Supplies and Materials	1,000	340	400	1,000
7420	Equipment Repairs and Maintenance	4,000	950	2,000	4,000
	Total Other Expenditures	<u>1,605,000</u>	<u>879,852</u>	<u>1,502,400</u>	<u>1,605,000</u>
	Total Main Pump Station	<u>\$1,605,000</u>	<u>\$879,852</u>	<u>\$1,502,400</u>	<u>\$1,605,000</u>

**Schedule VI.4
Plant Operations**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
720	RACK AND GRIT				
	Salaries and Wages				
6100	Union Wages-Except Plant Maintenance	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
6941	Water	192,500	141,616	200,000	222,000
7091	Miscellaneous Operating Supplies and Materials	3,000	552	1,000	1,000
7821	Caustic Soda	24,000	13,363	20,000	20,000
7828	Sodium Hypochlorite	420,000	369,654	500,000	500,000
7845	Hydrochloric Acid	2,400	0	700	1,200
	Total Other Expenditures	<u>641,900</u>	<u>525,185</u>	<u>721,700</u>	<u>744,200</u>
	Total Rack and Grit	<u>\$641,900</u>	<u>\$525,185</u>	<u>\$721,700</u>	<u>\$744,200</u>

**Schedule VI.5
Plant Operations**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
730	MOBILE EQUIPMENT FOR TREATMENT				
	Salaries and Wages				
6100	Union Wages-Except Plant Maintenance	\$300,300	\$255,586	\$394,100	\$390,400
6300	Vehicle Maintenance Labor	<u>479,500</u>	<u>167,024</u>	<u>257,500</u>	<u>504,400</u>
	Total Salaries and Wages	<u>779,800</u>	<u>422,610</u>	<u>651,600</u>	<u>894,800</u>
	Other Expenditures				
6921	Electricity	40,000	22,473	40,000	40,000
6931	Natural Gas	20,000	9,953	20,000	20,000
6941	Water	2,200	1,725	2,500	2,800
7511	Gas and Oil-Vehicles and Equipment	40,000	30,811	45,000	50,000
7531	Maintenance/Repairs-Vehicles and Equipment	50,000	24,412	40,000	45,000
7532	Maintenance/Repairs-Hauling Trucks	60,000	52,144	75,000	70,000
7541	Maintenance/Repairs-Watercraft	<u>10,000</u>	<u>4,707</u>	<u>7,000</u>	<u>10,000</u>
	Total Other Expenditures	<u>222,200</u>	<u>146,225</u>	<u>229,500</u>	<u>237,800</u>
	Total Mobile Equipment for Treatment	<u><u>\$1,002,000</u></u>	<u><u>\$568,835</u></u>	<u><u>\$881,100</u></u>	<u><u>\$1,132,600</u></u>

**Schedule VI.6
Plant Operations**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
740	PRIMARY SEDIMENTATION				
	Salaries and Wages				
6100	Union Wages-Except Plant Maintenance	\$2,792,000	\$1,850,667	\$2,853,300	\$3,015,100
	Total Salaries and Wages	<u>2,792,000</u>	<u>1,850,667</u>	<u>2,853,300</u>	<u>3,015,100</u>
	Other Expenditures				
6941	Water	44,000	32,315	50,000	55,500
7091	Miscellaneous Operating Supplies and Materials	5,000	137	1,000	2,500
7420	Equipment Repairs and Maintenance	1,000	0	500	1,000
7821	Caustic Soda	21,600	12,274	20,000	20,000
7828	Sodium Hypochlorite	39,000	34,356	50,000	50,000
7845	Hydrochloric Acid	2,400	0	500	1,200
7856	Miscellaneous Plant Chemicals	1,000	0	0	1,000
	Total Other Expenditures	<u>114,000</u>	<u>79,082</u>	<u>122,000</u>	<u>131,200</u>
	Total Primary Sedimentation	<u>\$2,906,000</u>	<u>\$1,929,749</u>	<u>\$2,975,300</u>	<u>\$3,146,300</u>

**Schedule VI.7
Plant Operations**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
750	DISPOSAL OF SLUDGE, ASH, AND GRIT				
	Salaries and Wages	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
7447	Tipping Fees-Sludge	210,000	135,856	210,000	225,000
7450	Tipping Fees-Ash	275,000	159,735	275,000	275,000
7453	Tipping Fees-Grit	35,000	11,018	20,000	27,000
7455	Tipping Fees-Trash	5,000	1,870	5,000	5,500
7459	Land Application Disposal	1,200,000	842,407	1,500,000	1,500,000
	Total Other Expenditures	<u>1,725,000</u>	<u>1,150,886</u>	<u>2,010,000</u>	<u>2,032,500</u>
	Total Disposal of Sludge, Ash, and Grit	<u>\$1,725,000</u>	<u>\$1,150,886</u>	<u>\$2,010,000</u>	<u>\$2,032,500</u>

**Schedule VI.8
Plant Operations**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
760	BOILERS				
	Salaries and Wages	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
6931	Natural Gas	250,000	132,318	250,000	250,000
7091	Miscellaneous Operating Supplies and Materials	30,000	14,763	25,000	25,000
7420	Equipment Repairs and Maintenance	<u>7,000</u>	<u>0</u>	<u>7,000</u>	<u>8,000</u>
	Total Other Expenditures	<u>287,000</u>	<u>147,081</u>	<u>282,000</u>	<u>283,000</u>
	Total Boilers	<u><u>\$287,000</u></u>	<u><u>\$147,081</u></u>	<u><u>\$282,000</u></u>	<u><u>\$283,000</u></u>

**Schedule VI.9
Plant Operations**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
770	ENERGY RECOVERY				
	Salaries and Wages				
6100	Union Wages-Except Plant Maintenance	<u>\$1,728,000</u>	<u>\$1,270,209</u>	<u>\$1,958,400</u>	<u>\$2,033,700</u>
	Total Salaries and Wages	<u>1,728,000</u>	<u>1,270,209</u>	<u>1,958,400</u>	<u>2,033,700</u>
	Other Expenditures				
6425	Training and Seminars	10,000	975	2,000	5,000
6911	No. 2 Fuel Oil/Diesel	250,000	90,904	200,000	250,000
6921	Electricity	1,100,000	645,603	1,100,000	1,100,000
6931	Natural Gas	400,000	226,463	400,000	400,000
7091	Miscellaneous Operating Supplies and Materials	30,000	33,542	40,000	25,000
7420	Equipment Repairs and Maintenance	15,000	1,271	2,000	15,000
7821	Caustic Soda	54,000	21,840	35,000	40,000
7854	Incinerator Sand	<u>55,000</u>	<u>12,766</u>	<u>55,000</u>	<u>55,000</u>
	Total Other Expenditures	<u>1,914,000</u>	<u>1,033,364</u>	<u>1,834,000</u>	<u>1,890,000</u>
	Total Energy Recovery	<u><u>\$3,642,000</u></u>	<u><u>\$2,303,573</u></u>	<u><u>\$3,792,400</u></u>	<u><u>\$3,923,700</u></u>

**Schedule VI.10
Plant Operations**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
780	SLUDGE DEWATERING				
	Salaries and Wages				
6100	Union Wages-Except Plant Maintenance	<u>\$1,823,800</u>	<u>\$1,194,610</u>	<u>\$1,841,800</u>	<u>\$1,916,300</u>
	Total Salaries and Wages	<u>1,823,800</u>	<u>1,194,610</u>	<u>1,841,800</u>	<u>1,916,300</u>
	Other Expenditures				
6921	Electricity	750,000	418,939	750,000	750,000
6941	Water	165,000	121,657	180,000	200,000
7091	Miscellaneous Operating Supplies and Materials	15,000	15,421	25,000	20,000
7420	Equipment Repairs and Maintenance	7,000	1,080	2,000	5,000
7816	High PH Polymers	715,000	575,597	950,000	950,000
7821	Caustic Soda	36,000	20,205	36,000	42,000
7828	Sodium Hypochlorite	84,000	73,202	110,000	100,000
7845	Hydrochloric Acid	2,400	3,081	3,100	2,400
7856	Miscellaneous Plant Chemicals	<u>1,000</u>	<u>0</u>	<u>0</u>	<u>1,000</u>
	Total Other Expenditures	<u>1,775,400</u>	<u>1,229,182</u>	<u>2,056,100</u>	<u>2,070,400</u>
	Total Sludge Dewatering	<u><u>\$3,599,200</u></u>	<u><u>\$2,423,792</u></u>	<u><u>\$3,897,900</u></u>	<u><u>\$3,986,700</u></u>

**Schedule VI.11
Plant Operations**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
785	LIME STABILIZATION				
	Salaries and Wages				
6100	Union Wages-Except Plant Maintenance	<u>\$167,100</u>	<u>\$114,151</u>	<u>\$176,000</u>	<u>\$180,800</u>
	Total Salaries and Wages	<u>167,100</u>	<u>114,151</u>	<u>176,000</u>	<u>180,800</u>
	Other Expenditures				
6921	Electricity	195,000	109,437	195,000	195,000
6941	Water	7,700	5,703	10,000	10,000
7091	Miscellaneous Operating Supplies and Materials	3,000	224	1,000	2,000
7420	Equipment Repairs and Maintenance	5,000	2,088	5,000	5,000
7836	Lime	<u>525,000</u>	<u>287,542</u>	<u>525,000</u>	<u>525,000</u>
	Total Other Expenditures	<u>735,700</u>	<u>404,994</u>	<u>736,000</u>	<u>737,000</u>
	Total Lime Stabilizat	<u><u>\$902,800</u></u>	<u><u>\$519,145</u></u>	<u><u>\$912,000</u></u>	<u><u>\$917,800</u></u>

**Schedule VI.12
Plant Operations**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
790	SECONDARY TREATMENT AND POST CHLORINATION				
	Salaries and Wages				
6100	Union Wages-Except Plant Maintenance	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
6921	Electricity	1,490,000	837,314	1,490,000	1,490,000
7091	Miscellaneous Operating Supplies and Materials	15,000	12,942	20,000	15,000
7828	Sodium Hypochlorite	400,000	352,908	475,000	475,000
7829	Sodium Bisulfite	90,000	89,189	130,000	130,000
7831	Defoamer	15,000	6,710	15,000	15,000
	Total Other Expenditures	<u>2,010,000</u>	<u>1,299,063</u>	<u>2,130,000</u>	<u>2,125,000</u>
	Total Secondary Treatment and Post Chlorination	<u><u>\$2,010,000</u></u>	<u><u>\$1,299,063</u></u>	<u><u>\$2,130,000</u></u>	<u><u>\$2,125,000</u></u>

**Schedule VI.13
Plant Operations**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
799	GENERAL PLANT TREATMENT				
	Salaries and Wages				
6011	Management Salary	\$1,347,200	\$796,839	\$1,218,700	\$1,250,600
6100	Union Wages-Except Plant Maintenance	314,700	202,852	312,800	312,800
	Total Salaries and Wages	<u>1,661,900</u>	<u>999,691</u>	<u>1,531,500</u>	<u>1,563,400</u>
	Other Expenditures				
6425	Training and Seminars	70,000	33,925	60,000	65,000
6725	Other Communications	0	274	1,000	0
6921	Electricity	400,000	226,264	400,000	400,000
6931	Natural Gas	75,000	51,444	75,000	75,000
6941	Water	880,000	649,366	950,000	1,100,000
7091	Miscellaneous Operating Supplies and Materials	15,000	10,910	15,000	15,000
7391	Miscellaneous Office Supplies and Materials	10,000	2,727	5,000	10,000
7420	Equipment Repairs and Maintenance	10,000	495	1,000	10,000
7423	Equipment Rental	10,000	0	0	10,000
7432	Freight Charges	75,000	57,687	86,500	85,000
7435	Demurrage Charges	7,000	0	4,000	5,000
7441	Professional Association Fees	1,000	715	1,000	1,000
7511	Gas & Oil-Vehicle & Equipment	2,000	54	1,000	1,000
7711	EDP Hardware	3,000	420	1,000	1,000
	Total Other Expenditures	<u>1,558,000</u>	<u>1,034,281</u>	<u>1,600,500</u>	<u>1,778,000</u>
	Total General Plant Treatment	<u><u>\$3,219,900</u></u>	<u><u>\$2,033,972</u></u>	<u><u>\$3,132,000</u></u>	<u><u>\$3,341,400</u></u>

Schedule VII

Professional Services

**Schedule VII
Professional Services**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
800	PROFESSIONAL SERVICES				
	Salaries and Wages	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
6611	Audit Fees	75,000	60,954	85,000	90,000
6614	Consulting Engineers	75,000	39,978	75,000	75,000
6617	Legal Expenses	600,000	327,742	500,000	600,000
6620	Trustee Fees	85,000	4,750	50,000	85,000
6623	Financial Advisory Fees	<u>30,000</u>	<u>16,000</u>	<u>30,000</u>	<u>30,000</u>
	Total Other Expenditures	<u>865,000</u>	<u>449,424</u>	<u>740,000</u>	<u>880,000</u>
	Total Professional Services	<u><u>\$865,000</u></u>	<u><u>\$449,424</u></u>	<u><u>\$740,000</u></u>	<u><u>\$880,000</u></u>

Schedule VIII Plant Maintenance

**Schedule VIII.1
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
110	EXECUTIVE ADMINISTRATION				
	Salaries and Wages				
6200	Plant Maintenance Labor	\$62,800	\$29,819	\$46,000	\$52,700
	Total Salaries and Wages	<u>62,800</u>	<u>29,819</u>	<u>46,000</u>	<u>52,700</u>
	Other Expenditures				
7106	Expendable Parts and Tools	1,500	494	1,000	1,500
7110	Instrumentation Repair and Maintenance	10,000	5,781	7,500	10,000
7191	Miscellaneous Maintenance Supplies and Expenses	0	130	200	0
	Total Other Expenditures	<u>11,500</u>	<u>6,405</u>	<u>8,700</u>	<u>11,500</u>
	Total Executive Administration	<u>\$74,300</u>	<u>\$36,224</u>	<u>\$54,700</u>	<u>\$64,200</u>

**Schedule VIII.2
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
125	SAFETY				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$6,000</u>	<u>\$4,280</u>	<u>\$6,600</u>	<u>\$7,500</u>
	Total Salaries and Wages	<u>6,000</u>	<u>4,280</u>	<u>6,600</u>	<u>7,500</u>
	Other Expenditures				
7106	Expendable Parts and Tools	1,000	0	0	1,000
7110	Instrumentation Repair and Maintenance	<u>20,000</u>	<u>14,360</u>	<u>20,000</u>	<u>20,000</u>
	Total Other Expenditures	<u>21,000</u>	<u>14,360</u>	<u>20,000</u>	<u>21,000</u>
	Total Executive Administration	<u><u>\$27,000</u></u>	<u><u>\$18,640</u></u>	<u><u>\$26,600</u></u>	<u><u>\$28,500</u></u>

**Schedule VIII.3
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
130	ACCOUNTING/FINANCE				
	Salaries and Wages				
6200	Plant Maintenance Labor	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
7106	Expendable Parts and Tools	0	0	100	0
7191	Miscellaneous Maintenance Supplies and Expenses	100	5	100	0
	Total Other Expenditures	<u>100</u>	<u>5</u>	<u>200</u>	<u>0</u>
	Total Executive Administration	<u>\$100</u>	<u>\$5</u>	<u>\$200</u>	<u>\$0</u>

**Schedule VIII.4
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
140	PURCHASING				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$3,900</u>	<u>\$1,367</u>	<u>\$2,100</u>	<u>\$2,400</u>
	Total Salaries and Wages	<u>3,900</u>	<u>1,367</u>	<u>2,100</u>	<u>2,400</u>
	Other Expenditures				
7191	Miscellaneous Maintenance Supplies and Expenses	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Other Expenditures	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Purchasing	<u><u>\$4,000</u></u>	<u><u>\$1,367</u></u>	<u><u>\$2,100</u></u>	<u><u>\$2,400</u></u>

**Schedule VIII.5
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
200	MANAGEMENT INFORMATION SYSTEMS				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$9,600</u>	<u>\$2,169</u>	<u>\$3,300</u>	<u>\$3,800</u>
	Total Salaries and Wages	<u>9,600</u>	<u>2,169</u>	<u>3,300</u>	<u>3,800</u>
	Other Expenditures				
7110	Instrumentation Repair and Maintenance	<u>20,000</u>	<u>11,157</u>	<u>13,500</u>	<u>20,000</u>
	Total Other Expenditures	<u>20,000</u>	<u>11,157</u>	<u>13,500</u>	<u>20,000</u>
	Total Management Information Systems	<u><u>\$29,600</u></u>	<u><u>\$13,326</u></u>	<u><u>\$16,800</u></u>	<u><u>\$23,800</u></u>

**Schedule VIII.6
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
300	CUSTOMER SERVICE AND BILLING				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$34,700</u>	<u>\$18,577</u>	<u>\$28,600</u>	<u>\$32,800</u>
	Total Salaries and Wages	<u>34,700</u>	<u>18,577</u>	<u>28,600</u>	<u>32,800</u>
	Other Expenditures				
7106	Expendable Parts and Tools	2,000	711	1,000	2,000
7110	Instrumentation Repair and Maintenance	<u>30,000</u>	<u>16,823</u>	<u>20,000</u>	<u>16,000</u>
	Total Other Expenditures	<u>32,000</u>	<u>17,534</u>	<u>21,000</u>	<u>18,000</u>
	Total Billing and Collecting	<u><u>\$66,700</u></u>	<u><u>\$36,111</u></u>	<u><u>\$49,600</u></u>	<u><u>\$50,800</u></u>

**Schedule VIII.7
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
405	ENGINEERING ADMINISTRATION				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$700</u>	<u>\$353</u>	<u>\$500</u>	<u>\$600</u>
	Total Salaries and Wages	<u>700</u>	<u>353</u>	<u>500</u>	<u>600</u>
	Other Expenditures				
7106	Expendable Parts and Tools	0	0	0	0
7110	Instrumentation Repair and Maintenance	0	0	0	0
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Other Expenditures	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Engineering Administration	<u><u>\$700</u></u>	<u><u>\$353</u></u>	<u><u>\$500</u></u>	<u><u>\$600</u></u>

**Schedule VIII.8
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
510	LABORATORY				
	Salaries and Wages				
6200	Plant Maintenance Labor	\$72,400	\$46,314	\$71,400	\$81,700
	Total Salaries and Wages	<u>72,400</u>	<u>46,314</u>	<u>71,400</u>	<u>81,700</u>
	Other Expenditures				
7106	Expendable Parts and Tools	5,000	782	1,500	5,000
7110	Instrumentation Repair and Maintenance	20,000	6,059	9,000	20,000
7191	Miscellaneous Maintenance Supplies and Expenses	0	94	100	0
	Total Other Expenditures	<u>25,000</u>	<u>6,935</u>	<u>10,600</u>	<u>25,000</u>
	Total Laboratory	<u>\$97,400</u>	<u>\$53,249</u>	<u>\$82,000</u>	<u>\$106,700</u>

**Schedule VIII.9
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
520	INDUSTRIAL WASTE				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$2,700</u>	<u>\$759</u>	<u>\$1,200</u>	<u>\$1,300</u>
	Total Salaries and Wages	<u>2,700</u>	<u>759</u>	<u>1,200</u>	<u>1,300</u>
	Other Expenditures				
7106	Expendable Parts and Tools	1,000	179	300	1,000
7110	Instrumentation Repair and Maintenance	5,000	1,993	3,500	5,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>1,020</u>	<u>1,200</u>	<u>0</u>
	Total Other Expenditures	<u>6,000</u>	<u>3,192</u>	<u>5,000</u>	<u>6,000</u>
	Total Industrial Waste	<u><u>\$8,700</u></u>	<u><u>\$3,951</u></u>	<u><u>\$6,200</u></u>	<u><u>\$7,300</u></u>

**Schedule VIII.10
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
705	OPERATIONS & MAINTENANCE ADMINISTRATION				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>1,082</u>	<u>1,200</u>	<u>0</u>
	Total Other Expenditures	<u>0</u>	<u>1,082</u>	<u>1,200</u>	<u>0</u>
	Total Operations & Maintenance Administration	<u><u>\$0</u></u>	<u><u>\$1,082</u></u>	<u><u>\$1,200</u></u>	<u><u>\$0</u></u>

**Schedule VIII.11
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
710	MAIN PUMP STATION				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$125,000</u>	<u>\$123,064</u>	<u>\$189,700</u>	<u>\$217,200</u>
	Total Salaries and Wages	<u>125,000</u>	<u>123,064</u>	<u>189,700</u>	<u>217,200</u>
	Other Expenditures				
7106	Expendable Parts and Tools	125,000	40,860	225,000	150,000
7110	Instrumentation Repair/Maintenance	150,000	16,185	110,000	75,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>569</u>	<u>1,000</u>	<u>0</u>
	Total Other Expenditures	<u>275,000</u>	<u>57,614</u>	<u>336,000</u>	<u>225,000</u>
	Total Main Pump Station	<u><u>\$400,000</u></u>	<u><u>\$180,678</u></u>	<u><u>\$525,700</u></u>	<u><u>\$442,200</u></u>

**Schedule VIII.12
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
720	RACK AND GRIT				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$254,400</u>	<u>\$146,608</u>	<u>\$226,000</u>	<u>\$258,800</u>
	Total Salaries and Wages	<u>254,400</u>	<u>146,608</u>	<u>226,000</u>	<u>258,800</u>
	Other Expenditures				
7106	Expendable Parts and Tools	200,000	123,635	240,000	120,000
7110	Instrumentation Repair/Maintenance	20,000	13,183	25,000	30,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>364</u>	<u>500</u>	<u>0</u>
	Total Other Expenditures	<u>220,000</u>	<u>137,182</u>	<u>265,500</u>	<u>150,000</u>
	Total Rack and Grit	<u><u>\$474,400</u></u>	<u><u>\$283,790</u></u>	<u><u>\$491,500</u></u>	<u><u>\$408,800</u></u>

**Schedule VIII.13
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
730	MOBILE EQUIPMENT FOR TREATMENT				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$55,200</u>	<u>\$19,425</u>	<u>\$29,900</u>	<u>\$34,300</u>
	Total Salaries and Wages	<u>55,200</u>	<u>19,425</u>	<u>29,900</u>	<u>34,300</u>
	Other Expenditures				
7106	Expendable Parts and Tools	50,000	51,881	80,000	60,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>3,686</u>	<u>5,000</u>	<u>0</u>
	Total Other Expenditures	<u>50,000</u>	<u>55,567</u>	<u>85,000</u>	<u>60,000</u>
	Total Mobile Equipment for Treatment	<u><u>\$105,200</u></u>	<u><u>\$74,992</u></u>	<u><u>\$114,900</u></u>	<u><u>\$94,300</u></u>

**Schedule VIII.14
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
740	PRIMARY SEDIMENTATION				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$273,500</u>	<u>\$127,378</u>	<u>\$196,400</u>	<u>\$224,700</u>
	Total Salaries and Wages	<u>273,500</u>	<u>127,378</u>	<u>196,400</u>	<u>224,700</u>
	Other Expenditures				
7106	Expendable Parts & Tools	160,000	83,457	130,000	160,000
7110	Instrumentation Repair/Maintenance	32,600	13,125	28,000	44,600
7191	Miscellaneous Maintenance Supplies & Expenses	<u>0</u>	<u>364</u>	<u>500</u>	<u>0</u>
	Total Other Expenditures	<u>192,600</u>	<u>96,946</u>	<u>158,500</u>	<u>204,600</u>
	Total Primary Sedimentation	<u><u>\$466,100</u></u>	<u><u>\$224,324</u></u>	<u><u>\$354,900</u></u>	<u><u>\$429,300</u></u>

**Schedule VIII.15
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
760	BOILERS				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$4,100</u>	<u>\$1,830</u>	<u>\$2,800</u>	<u>\$3,200</u>
	Total Salaries and Wages	<u>4,100</u>	<u>1,830</u>	<u>2,800</u>	<u>3,200</u>
	Other Expenditures				
7106	Expendable Parts and Tools	3,500	(244)	0	3,500
7110	Instrumentation Repair/Maintenance	<u>500</u>	<u>0</u>	<u>100</u>	<u>500</u>
	Total Other Expenditures	<u>4,000</u>	<u>-244</u>	<u>100</u>	<u>4,000</u>
	Total Boilers	<u><u>\$8,100</u></u>	<u><u>\$1,586</u></u>	<u><u>\$2,900</u></u>	<u><u>\$7,200</u></u>

**Schedule VIII.16
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
770	ENERGY RECOVERY				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$732,900</u>	<u>\$419,696</u>	<u>\$647,100</u>	<u>\$740,700</u>
	Total Salaries and Wages	<u>732,900</u>	<u>419,696</u>	<u>647,100</u>	<u>740,700</u>
	Other Expenditures				
7106	Expendable Parts and Tools	400,000	279,885	400,000	400,000
7110	Instrumentation Repair/Maintenance	110,000	93,344	140,000	110,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>1,635</u>	<u>2,000</u>	<u>0</u>
	Total Other Expenditures	<u>510,000</u>	<u>374,864</u>	<u>542,000</u>	<u>510,000</u>
	Total Energy Recovery	<u><u>\$1,242,900</u></u>	<u><u>\$794,560</u></u>	<u><u>\$1,189,100</u></u>	<u><u>\$1,250,700</u></u>

**Schedule VIII.17
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
780	SLUDGE DEWATERING				
	Salaries and Wages				
6200	Plant Maintenance Labor	\$478,500	\$280,166	\$432,000	\$494,400
	Total Salaries and Wages	<u>478,500</u>	<u>280,166</u>	<u>432,000</u>	<u>494,400</u>
	Other Expenditures				
7106	Expendable Parts and Tools	550,000	321,675	480,000	400,000
7110	Instrumentation Repair/Maintenance	45,000	41,290	60,000	60,000
7191	Miscellaneous Maintenance Supplies and Expenses	0	1,320	1,500	0
	Total Other Expenditures	<u>595,000</u>	<u>364,285</u>	<u>541,500</u>	<u>460,000</u>
	Total Sludge Dewatering	<u>\$1,073,500</u>	<u>\$644,451</u>	<u>\$973,500</u>	<u>\$954,400</u>

**Schedule VIII.18
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
785	LIME STABILIZATION DEWATERING				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$155,500</u>	<u>\$132,792</u>	<u>\$151,300</u>	<u>\$234,400</u>
	Total Salaries and Wages	<u>155,500</u>	<u>132,792</u>	<u>204,700</u>	<u>234,400</u>
	Other Expenditures				
7106	Expendable Parts and Tools	30,000	26,978	35,000	30,000
7110	Instrumentation Repair/Maintenance	30,000	13,010	20,000	30,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>43</u>	<u>100</u>	<u>0</u>
	Total Other Expenditures	<u>60,000</u>	<u>40,031</u>	<u>55,100</u>	<u>60,000</u>
	Total Lime Stabilization Dewatering	<u><u>\$215,500</u></u>	<u><u>\$172,823</u></u>	<u><u>\$259,800</u></u>	<u><u>\$294,400</u></u>

**Schedule VIII.19
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
790	SECONDARY TREATMENT AND POST CHLORINATION				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$467,500</u>	<u>\$272,181</u>	<u>\$419,600</u>	<u>\$480,400</u>
	Total Salaries and Wages	<u>467,500</u>	<u>272,181</u>	<u>419,600</u>	<u>480,400</u>
	Other Expenditures				
7106	Expendable Parts and Tools	150,000	118,731	180,000	200,000
7110	Instrumentation Repair/Maintenance	90,000	77,814	100,000	90,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>770</u>	<u>1,000</u>	<u>0</u>
	Total Other Expenditures	<u>240,000</u>	<u>197,315</u>	<u>281,000</u>	<u>290,000</u>
	Total Secondary Treatment and Post Chlorination	<u><u>\$707,500</u></u>	<u><u>\$469,496</u></u>	<u><u>\$700,600</u></u>	<u><u>\$770,400</u></u>

**Schedule VIII.20
Plant Maintenance**

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
799	GENERAL PLANT TREATMENT				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$4,510,900</u>	<u>\$2,735,972</u>	<u>\$4,218,200</u>	<u>\$4,828,300</u>
	Total Salaries and Wages	<u>4,510,900</u>	<u>2,735,972</u>	<u>4,218,200</u>	<u>4,828,300</u>
	Other Expenditures				
6426	Maintenance Training	100,000	2,362	5,000	150,000
7093	Stores Physical Adjustment	0	(591,229)	0	0
7094	Stores Average Price Adjustment	0	617,034	0	0
7106	Expendable Parts and Tools	100,000	65,075	100,000	100,000
7110	Instrumentation Repair and Maintenance	100,000	73,312	100,000	100,000
7191	Miscellaneous Maintenance Supplies and Expenses	120,000	93,979	140,000	120,000
7411	Pest Control	5,000	3,763	5,000	5,000
7414	Janitorial	80,000	63,927	90,000	80,000
7417	Grounds Keeping	<u>25,000</u>	<u>10,268</u>	<u>25,000</u>	<u>25,000</u>
	Total Other Expenditures	<u>530,000</u>	<u>338,491</u>	<u>465,000</u>	<u>580,000</u>
	Total General Plant Treatment	<u><u>\$5,040,900</u></u>	<u><u>\$3,074,463</u></u>	<u><u>\$4,683,200</u></u>	<u><u>\$5,408,300</u></u>

Schedule IX Employee Benefits

Schedule IX Employee Benefits

Acct. No.	Account Description	2019 Budget	2019 Actual to 8/31	2019 Projected	2020 Budget
120	EMPLOYEE BENEFITS				
	Salaries and Wages	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
6404	Hospitalization-Authority	11,424,200	6,355,061	11,100,000	11,678,300
6405	Hospitalization-Opt Out	53,000	30,696	53,000	54,100
6410	Eye Care Plan	52,700	27,931	51,000	52,000
6413	Dental Plan	340,600	215,306	340,000	342,400
6415	Employee HC Contribution	0	(100,213)	(200,000)	(300,000)
6416	Life Insurance and Weekly Income Projection	792,800	495,670	790,000	833,600
6419	Employee Assistance Program	10,500	790	1,200	10,700
6422	Tuition Reimbursement	40,000	15,244	23,000	40,000
6425	Training and Seminars	3,000	405	700	3,000
6428	Pension-Union Plan	3,252,300	2,168,136	3,252,300	3,839,000
6431	Pension-Management Plan	2,376,200	1,584,127	2,376,200	2,822,300
6432	Post Employee Benefits (GASB 45)	800,000	533,333	800,000	824,000
6434	Actuarial Costs-Pension	149,500	43,675	70,000	127,500
6436	Other Benefits Consulting	60,000	33,523	50,300	60,000
6505	FICA-Authority Share	2,995,500	1,742,975	2,614,500	3,248,300
6508	Workers Compensation	900,000	698,556	733,500	900,000
6511	Unemployment Compensation-Self Insured	25,000	0	0	25,000
6514	Background Investigations	8,000	4,645	7,000	8,000
6517	Physical Examinations	26,200	13,623	20,500	26,200
6520	Uniform Rental	65,000	22,557	34,000	39,300
6523	Miscellaneous Human Resource Services	75,000	31,406	47,200	75,000
	Total Other Expenditures	<u>23,449,500</u>	<u>13,917,446</u>	<u>22,164,400</u>	<u>24,708,700</u>
	Total Employee Benefits	<u>\$23,449,500</u>	<u>\$13,917,446</u>	<u>\$22,164,400</u>	<u>\$24,708,700</u>

Appendix A

2018 – 2019 Monthly Loading and Performance Summary

ALLEGHENY COUNTY SANITARY AUTHORITY ALCOSAN WASTEWATER TREATMENT PLANT 2018 - 2019 MONTHLY LOADING AND PERFORMANCE SUMMARY

	INFLUENT						30-DAY AVERAGE							7 DAY MAX. AVERAGE			FINAL EFFLUENT		
	FLOW	FLOW MAX	BOD5 INF.	TSS INF.	INF. LOADING		CBOD5 EFF.	TSS EFF.	NH3-N EFF.	EFF. LOADING			FECAL COL.	CBOD5 mg/l LB/D	TSS mg/l LB/D	NH3-N mg/l LB/D	DO mg/l	CL2 mg/l	pH S.U.
					BOD5 LB/D	TSS LB/D				CBOD5 LB/D	TSS LB/D	NH3-N LB/D							
	MGD	MGD	mg/l	mg/l	LB/D	LB/D	mg/l	mg/l	mg/l	LB/D	LB/D	LB/D	#/100 ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
NPDES PERMIT NO. PA0025984	250	****					20 25	30	15 25.0	41,700 52,125	62,550	31,275 52,125	200 * 2,000	30 62,550 37.5 78,188	45 93825	22.5 46,913 37.5 78,188	MIN 4.0	0.5	MIN 6.0 9.0 MAX
OCTOBER 2018	218.5	250.0	62	93	108,656	165,986	6.7	10.0	1.1	11,895	18,315	2,012	24	9.0 14,906	13.0 23,352	1.0 2,174	5.9	0.39	6.9 7.3
NOVEMBER 2018	237.0	250.0	54	94	106,476	184,784	7.2	12.0	1.0	14,224	23,535	2,045	40	9.0 17,452	12.0 24,733	1.0 2,137	6.1	0.45	6.9 7.2
DECEMBER 2018	232.0	250.0	48	69	92,243	130,827	5.8	9.0	1.2	11,110	17,751	2,280	21	7 13,488	12 23,184	1 2,795	6.2	0.45	6.6 7.3
JANUARY 2019	229.2	250.0	52	85	99,700	160,559	6.0	11.0	1.4	11,513	20,907	2,727	36	10.0 19,180	17.0 32,844	2.0 4,605	5.8	0.42	6.9 7.2
FEBRUARY 2019	232.1	250.0	48	79	92,868	154,571	7.4	10.0	1.4	14,311	19,980	2,763	30	10.0 19,327	110.0 19,858	2.0 3,299	5.5	0.42	6.8 7.2
MARCH 2019	206.7	249.9	71	110	120,755	184,740	6.9	8.0	1.9	12,129	13,726	3,202	28	7.0 12,074	8.0 16,393	2.0 3,883	6.6	0.40	6.6 7.0
APRIL 2019	207.8	250.0	66	101	112,431	171,580	6.4	8.0	1.2	11,088	13,531	2,116	31	7.0 13,060	9.0 16,885	2.0 2,790	6.7	0.30	6.7 7.2
MAY 2019	219.9	250.0	59	89	105,357	158,357	5.0	7.0	1.0	8,981	13,113	1,834	6	6.0 12,344	9.0 17,796	1.0 2,017	7.4	0.42	6.7 7.1
JUNE 2019	216.5	250.0	54	119	97,264	214,489	6.0	10.0	1.0	10,308	18,458	1,863	12	6.0 11,037	13.0 24,565	1.1 1,995	7.0	0.44	6.7 7.2
JULY 2019	227.1	250.0	41	88	75,549	162,017	4.6	7.0	1.0	8,619	13,193	1,952	11	5.2 15,487	8.0 15,487	1.1 2,040	7.1	0.44	6.8 7.2
AUGUST 2019	189.8	223.5	63	108	98,765	170,548	4.1	7.0	1.1	6,431	10,715	1,685	10	4.2 6,608	8.0 13,283	1.2 1,887	7.4	0.35	6.8 7.1
SEPTEMBER 2019	172.9	249.4	70	122	98,924	174,422	4.1	7.0	1.0	6,030	9,495	1,442	9	5.4 9,244	7.0 10,206	1.0 1,701	7.4	0.37	6.8 7.1
ANNUAL AVERAGE	215.8	250.0	57	96	100,749	169,407	6	9	1.2	10,553	16,060	2,160	22	13,684	19,882	2,610	5.5	0.40	7.2

BOD5 - FIVE DAY BIOCHEMICAL OXYGEN DEMAND

CBOD5 - FIVE DAY CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND

TSS - TOTAL SUSPENDED SOLIDS

DO - DISSOLVED OXYGEN

FECAL COL. - FECAL COLIFORM * Permit limit for period of May 1 to October 31

NH3-N - AMMONIA-NITROGEN

Shading represents permit exceptions

New NPDES Permit effluent limitations effective January 1, 2019.

Appendix B

Proposed Authorized Positions

ALCOSAN
SUMMARY OF AUTHORIZED POSITIONS
(as Proposed in 2020 Budget)

	Management Employees		Union Employees	
	<u>Budgeted</u>	<u>Actual</u>	<u>Budgeted</u>	<u>Actual</u>
Executive Director's Office	5	1	--	--
Contract Administration	7	5	--	--
Public Relations	9	7	2	2
Scholastic Programs	12	6	19	13
Municipal Outreach	7	4	--	--
Finance & Administration				
Director's Office	2	2	--	--
Accounting	3	2	4	4
Customer Service & Billing	3	3	21	20
Human Resources	5	5	--	--
Training & Development	2	2	--	--
Loss Control	6	6	15	14
MIS	2	2	18	18
Purchasing	3	3	8	6
Operations & Maintenance				
Director's Office	3	3	--	--
Operations	12	11	65	64
Mechanical Maintenance	10	7	70	61
Electrical Maintenance	5	5	22	21
Environmental Affairs				
Director's Office	3	2	--	--
Residuals	4	3	1	1
Industrial Waste	3	2	18	13
Laboratory	3	3	15	15
ECM Systems	4	2	--	--
Engineering & Construction				
Director's Office	4	3	5	6
Capital Projects	11	9	2	1
OR/CD Administration	1	1	--	--
Regional Conveyance				
Director's Office	15	10	--	--
Wet Weather Programs	8	5	9	7
Interceptor Systems	10	8	55	39
Interceptor - Outside Municipalities	2	0	5	0
TOTAL	164	122	354	305

**ALCOSAN
AUTHORIZED POSITIONS**

Cost Center	Department	Position Title	Actual	Budget
110	Executive Director's Office			
	Arletta Williams	Executive Director	1	1
	Vacant	Executive Assistant	0	1
	Vacant	Administrative Specialist	0	1
	Vacant	Administrative Specialist	0	1
	Vacant	Director	0	1
		Total FTES	1	5
430	Contract Administration			
	Suzanne Thomas	Procurement Officer	1	1
	Elizabeth Bowers	Contract Administrator	1	1
	Beth Mellinger	Records and Documents Manager	1	1
	Vacant	Administrative Secretary	0	1
	Vacant	Contract Administrator	0	1
	Candace Coston	Administrative Specialist II	1	1
	Marye Zoe Young	Administrative Assistant - Procurement	1	1
		Total FTES	5	7
115	Public Relations			
	Joseph Vallarian	Director of Communications	1	1
	Vacant	Manager of Communications	0	1
	Sean Biagi	Web Administrator/Designer	1	1
	Stephanie Conley	Administrative Secretary	1	1
	Vacant	Public Relations Specialist	0	1
	Derek Evan	Public Relations Specialist	1	1
	Peggy Croom	Sr. Adm Specialist II	1	1
	Mary Kay Meanor	Admin Specialist II	1	1
	Lisa George	Internal Events	1	1
		Total FTES	7	9
	Graphic Clerk		2	2
		Total FTES	2	2
116	Municipal Outreach			
	Jeanne Clark	Director of Governmental Affairs	1	1
	Vacant	Administrative Assistant/Government Relations	0	1
	Kimberly Slater Wood	Manager Municipal Relations	1	1
	Jillian Sanchioli	Municipal Relations & Outreach Admin Assistant	1	1
	Joseph Day	Municipal Relations Coordinator	1	1
	Vacant	Administrative Support Specialist	0	1
	Vacant	Administrative Specialist	0	1
		Total FTES	4	7
117	Scholastic Programs			
	Erica LaMar	Manager of Scholastic Programs & Ed Services	1	1
	Vacant	Administrative Supervisor I	0	1
	Vacant	Administrative Supervisor I	0	1
	Tiffany Davis	Administrative Supervisor I	1	1
	Denee Cabbagestalk	Scholastic Outreach Supervisor	1	1
	Vacant	Administrative Specialist I	0	1
	DeShelle Taylor	Scholastic Support Specialist	1	1
	Vacant	Scholastic Support Specialist	0	1
	Vacant	Scholastic Support Specialist	0	1
	Vacant	Scholastic Outreach Program Administrator	0	1
	Sherry Greb	Scheduling Assistant	1	1
	Roneice Freeman	Scholastic Outreach Coordinator	1	1
		Total FTES	6	12
	Scholastic Outreach Representatives		12	18
	Scholastic Outreach Clerk		1	1
		Total FTES	13	19

AUTHORIZED POSITIONS				
130	Finance and Administration			
	William Inks	Director of Finance and Administration	1	1
	Vicki Crowe	Administrative Assistant	1	1
		Total FTES	2	2
	<u>Accounting Department</u>			
	Karen Fantoni	Manager of Accounting	1	1
	Lori McKay	Accounting Supervisor	1	1
	Vacant	Payroll Supervisor	0	1
		Total FTES	2	3
	Chief Accounting Clerk		1	1
	Payroll Clerk		1	1
	Accounts Payable Clerk		2	2
		Total FTES	4	4
300	Customer Service and Billing			
	Daniel Thornton	Manager of CS & B	1	1
	Leslie Sanford	Administrative Supervisor II	1	1
	Dawn Havrilla	Administrative Supervisor II	1	1
		Total FTES	3	3
	Secretary to Manager		1	1
	Clerk Receptionist/Switchboard Oper.		1	1
	<u>Billing and Investigations</u>			
	Field Inspector		2	2
	<u>Data Entry</u>			
	Group Leader Data Entry		1	1
	Data Entry Processor		8	8
	<u>Cashiering</u>			
	Group Leader Cashiering		1	1
	Cashier & Controls Clerk		0	1
	<u>Processing</u>			
	Group Leader Processing		1	1
	Account Adjustor		2	2
	Lump Sum Coordinator		1	1
	Systems Control Coordinator		1	1
	Customer Service Representative		1	1
		Total FTES	20	21
120	Human Resources Department			
	Donna Skundrich	Manager of Human Resources	1	1
	Shelly King	Administrative Specialist (Benefits)	1	1
	Sue Martire	Administrative Assistant	1	1
	Hannah Martorelli	Health & Wellness Advisor	1	1
	Raymond Mroch	Compensation Analyst	1	1
		Total FTES	5	5
122				
	Robert Stimmler	Sr. Training & Development Specialist	1	1
	Matthew Griener	E-Learning Developer	1	1
		Total FTES	2	2
125	Loss Control			
	Lisa Cortazzo	Manager of Loss Control (Safety)	1	1
	Bernard Spada	Administrative Specialist I Safety	1	1
	Stacy DeMasi	Manager of Security	1	1
	Darryl Adams	Administrative Supervisor I Security	1	1
	Lou Mellinger	Assistant Supervisor Security	1	1
	Dylan Thomas	Safety Specialist	1	1
		Total FTES	6	6

AUTHORIZED POSITIONS				
	Safety and Training Technician		1	1
	Security Clerk		1	1
	Group Leader Guards		1	1
	Guards		11	12
	Total FTES		14	15
200	MIS Department			
	Jack Tallon	Manager of MIS	1	1
	Robert Hoffman	MIS supervisor	1	1
	Total FTES		2	2
	Secretary		1	1
	Analyst Programmer		9	9
	Computer & Peripheral Operator		2	2
	Microcomputer Specialists		4	4
	Telecommunications Specialist		2	2
	Total FTES		18	18
140	Purchasing Department			
	Raymond Meyer	Manager of Purchasing	1	1
	Rita Stone	Administrative Supervisor (Storeroom)	1	1
	Ben Heilman	Administrative Supervisor (Contracts)	1	1
	Total FTES		3	3
	Clerk/Messenger		1	1
	Purchasing Clerk		1	2
	File Clerk/Typist Purchasing		1	1
	Storekeeper		1	1
	Assistant Storekeeper		2	3
	Total FTES		6	8
705	Operations and Maintenance			
	<i>Director's Office</i>			
	Douglas Jackson	Director of Operations and Maintenance & Deputy Exec. Director	1	1
	David Brown	Manager of Operations Training	1	1
	Pamela Arthur	Administrative Assistant	1	1
	Total FTES		3	3
799	Operations Department			
	John Regan	Manager of Operations	1	1
	Peter Guggenheimer	Solid Process Superintendent	1	1
	Shana Marciniak	Liquid Process Superintendent	1	1
	Michael Gavulic	Shift Superintendent	1	1
	Justin Burrell	Shift Superintendent	1	1
	Scott Wolfe	Shift Superintendent	1	1
	Keith Brown	Shift Superintendent	1	1
	Jason Stritmatter	Shift Supervisor	1	1
	Vacant	Shift Supervisor	0	1
	Robb Merry	Shift Supervisor	1	1
	Megan Green	Shift Supervisor	1	1
	Michael Priore	Operations Training Specialist	1	1
	Total FTES		11	12
	<u>Liquid Process</u>			
	Liquid Proc. Control Rm/Field Operators		20	20
	Liquid Process Utility Operators		4	5
	<u>Dewatering</u>			
	Dewatering Control Rm/Field Operators		12	12
	Dewatering Utility Operators		4	4
	<u>Energy Recovery</u>			
	ERF Control Rm/Field Operators		12	12
	ERF Utility Operators		4	4

AUTHORIZED POSITIONS				
	Non-Shift Personnel			
	Operations Clerk		1	1
	Mobile Equipment Operators		3	3
	Dispatchers		2	2
	Operator Tri-axle Truck		2	2
		Total FTES	64	65
799	<i>Mechanical Maintenance Department</i>			
	John Laird	Manager of Mechanical Maintenance	1	1
	Wayne Dubel	Maintenance Supervisor	1	1
	Anthony Cihal	Expeditor/Planner	1	1
	Eric Jenkins	Maintenance Supervisor	1	1
	Vacant	Maintenance Supervisor	0	1
	Vacant	Maintenance Labor Supervisor	0	1
	Roseann Berg	Maintenance Supervisor	1	1
	Petrosky, William	Maintenance Supervisor I Interceptor Systems	1	1
	Vacant	Maintenance Labor Supervisor	0	1
	LaTanya Brown	Maintenance Labor Supervisor	1	1
		Total FTES	7	10
	Auto Mechanics/Apprentices		5	6
	Maintenance Clerk		1	1
	Mechanics/Apprentices		18	25
	Welders/Apprentices		4	4
	Lubrication Mechanics		4	3
	Group Leader Lubrication		1	1
	Building/Construction Mechanic/Apprentice		8	9
	General Maintenance Laborers		10	10
	Maintenance Utility		0	1
	Custodians		10	10
		Total FTES	61	70
799	<i>Electrical Maintenance Department</i>			
	Mark Shaffer	Manager of Electrical Maintenance	1	1
	Bill Martin	Control Systems Superintendent	1	1
	Joshua Florentine	Instrument Repair Supervisor	1	1
	Andrew Devite	Electrical Maintenance Supervisor	1	1
	Dave Rich	HVAC Supervisor	1	1
		Total FTES	5	5
	Electricians/Apprentices		10	10
	Instrument Repair Technicians/Apprentices		7	8
	HVAC Mechanic/Apprentices		4	4
		Total FTES	21	22
505	<i>Environmental Compliance</i>			
	<i>Director's Office</i>			
	Michelle Buys	Director of Environmental Compliance	1	1
	Kimberly Marunczak	Environmental Audit Specialist	1	1
	Vacant	Administrative Assistant	0	1
		Total FTES	2	3
530	<i>Residuals Department</i>			
	Robert Martire	Residuals Program Manager	1	1
	Megan Cieslak-Mazza	Residuals Specialist	1	1
	Vacant	Residuals Specialist	0	1
	Lorna Shea	Agronomist	1	1
		Total FTES	3	4
	Residuals Clerk		1	1
		Total FTES	1	1
520	<i>Industrial Waste Department</i>			
	Tina Dean	Manager of Industrial Waste	1	1
	Ronald Stevenson	Sampling & Compliance Supervisor	1	1
	Vacant	Sampling & Compliance Supervisor	0	1
		Total FTES	2	3

AUTHORIZED POSITIONS				
	Clerk Typist Industrial Waste		1	2
	Sampler/Investigator		12	16
		Total FTES	13	18
510	Laboratory Department			
	Betty Kindle	Manager of Laboratory	1	1
	Kimberly Crisi	Laboratory Supervisor	1	1
	Maureen Dobransky	Quality Control Officer	1	1
		Total FTES	3	3
	Laboratory Chemist		11	9
	Laboratory Technician		2	4
	Laboratory Clerk		1	1
	General Maint. Laboratory		1	1
		Total FTES	15	15
540	ECM Systems			
	Anne Donahue	ECM Manager	1	1
	Jacqueline Graham	Administrative Secretary	1	1
	Vacant	Administrative Specialist I	0	1
	Vacant	Administrative Specialist II	0	1
		Total FTES	2	4
405	Engineering and Construction			
	<i>Director's Office</i>			
	Kimberly Kennedy	Director of Engineering & Construction	1	1
	Angel Allen	Administrative Assistant	1	1
	Vacant	Manager Program Management	0	1
	Steve Miller	Drafting/CADD Supervisor	1	1
		Total FTES	3	4
	Designers		2	2
	Contract Clerk		3	2
	Clerk Typist/Engineering		1	1
		Total FTES	6	5
420	Capital Projects			
	Daniel Lockard	Manager of Capital Projects	1	1
	Vacant	Project Engineer II	0	1
	Elizabeth Joyce	Project Engineer II	1	1
	John Findley	Project Engineer III	1	1
	Raymond Stasny	Construction Supervisor	1	1
	Jeffrey Mazza	Project Engineer III	1	1
	Dustin Copenhaver	Civil Engineer I	1	1
	Shah Haque	Electrical Engineer	1	1
	Joseph Wagner	Project Engineer II	1	1
	Cody Edgell	Civil Engineer	1	1
	Vacant	Engineer	0	1
		Total FTES	9	11
	Surveyor		1	1
	Department Clerk		0	1
		Total FTES	1	2
410	OR/CD Administrator			
	Denise Macellaro	Administrative Assistant	1	1
		Total FTES	1	1
605	Regional Conveyance			
	<i>Director's Office</i>			
	Jan Oliver	Director of Regional Conveyance	1	1
	Natalie Mielke	Administrative Secretary	1	1
	Joseph Sparbanie	Civil Engineer - RC	1	1
	Shawn McWilliams	Civil Engineer	1	1
	Geraldine Walker	GIS Specialist	1	1
	Benjamin Reynolds	GIS Specialist	1	1
	Vacant	GIS Analyst	0	1
	Michael Lichte	Manager of Planning	1	1

AUTHORIZED POSITIONS				
	Jeffrey Livezey	Environmental Construction Supervisor	1	1
	Adam Kidane	GIS Asset Management Specialist	1	1
	Uzair (Sam) Shamsi	Hydraulic Hydrologist Analyst	1	1
	Vacant	Manager Regionization	0	1
	Vacant	Property Acquisition Specialist	0	1
	Vacant	Engineer	0	1
	Vacant	Civil Engineer	0	1
		Total FTES	10	15
440	Wet Weather Programs (CSO)			
	Timothy Prevost	Manager of Wet Weather Programs	1	1
	Vacant	Engineer II	0	1
	Joseph Fedor	Environmental Scientist II	1	1
	Milton Lenhart	Civil Engineer II	1	1
	Brandon Anderson	Supervisor Environmental Monitoring	1	1
	Vacant	Supervisor Environmental Monitoring	0	1
	Vacant	Grants Administrative Assistant	0	1
	Julia Spicher	Civil Engineer	1	1
		Total FTES	5	8
	Clerk Wet Weather Program		1	1
	Environmental Monitoring Technician		6	8
		Total FTES	7	9
690	Interceptor Systems			
	John Garofalo	Manager of Interceptor Systems	1	1
	Dennis Banks	Interceptor Systems Superintendent	1	1
	Mike Altimore	Supervisor I Interceptor Systems	1	1
	Vacant	Supervisor I Interceptor Systems	0	1
	Charles Simone	Supervisor I Interceptor Systems	1	1
	Mark Argenas	Supervisor I Interceptor Systems	1	1
	Lawrence Waibel	Supervisor I Interceptor Systems	1	1
	Stanton, Brian	Supervisor I Interceptor Systems	1	1
	Jakubowski, Matthew	Supervisor I Interceptor Systems	1	1
	Vacant	Supervisor I Interceptor Systems Video Crew	0	1
		Total FTES	8	10
	Boat Operator		2	2
	Assistant Boat Operator		1	1
	Crew Leader Interceptor Maint. Pump Station		1	2
	Crew Leader Interceptor Video Inspection		3	3
	Pump Station Driver/Assistant Operator		1	2
	Laborer Operator Maint. Truck Driver		4	5
	Laborer Interceptor Structures		4	6
	Interceptor Systems Inspector/Spotter		3	5
	Regional Conveyance Clerk		1	1
	Hi-Velocity Combo Unit Driver		5	6
	Crew Leader Interceptor Maint. Structures		4	5
	Video Inspection Driver/Assistant		3	3
	Laborer Interceptor Pump Stations		1	2
	Laborer Interceptor Video Truck		3	3
	IS Welder		0	1
	Building & Construction Mechanic - IS		0	1
	Laborer (Construction)		0	1
	Interceptor Systems Helper		3	6
		Total FTES	39	55
660	Regionalized Facilities			
	Vacant	Supervisor I Interceptor Systems	0	1
	Vacant	Municipal Coordinator	0	1
		Total FTES	0	2
	Crew Leader Interceptor Maint. Structures		0	1
	Laborer Operator Maint. Truck Driver		0	1
	Laborer Interceptor Structures		0	1
	Laborer Interceptor Pump Stations		0	1
	Hi-Velocity Combo Unit Driver		0	1
		Total FTES	0	5
		All FTES	427	518