

October 25, 2018

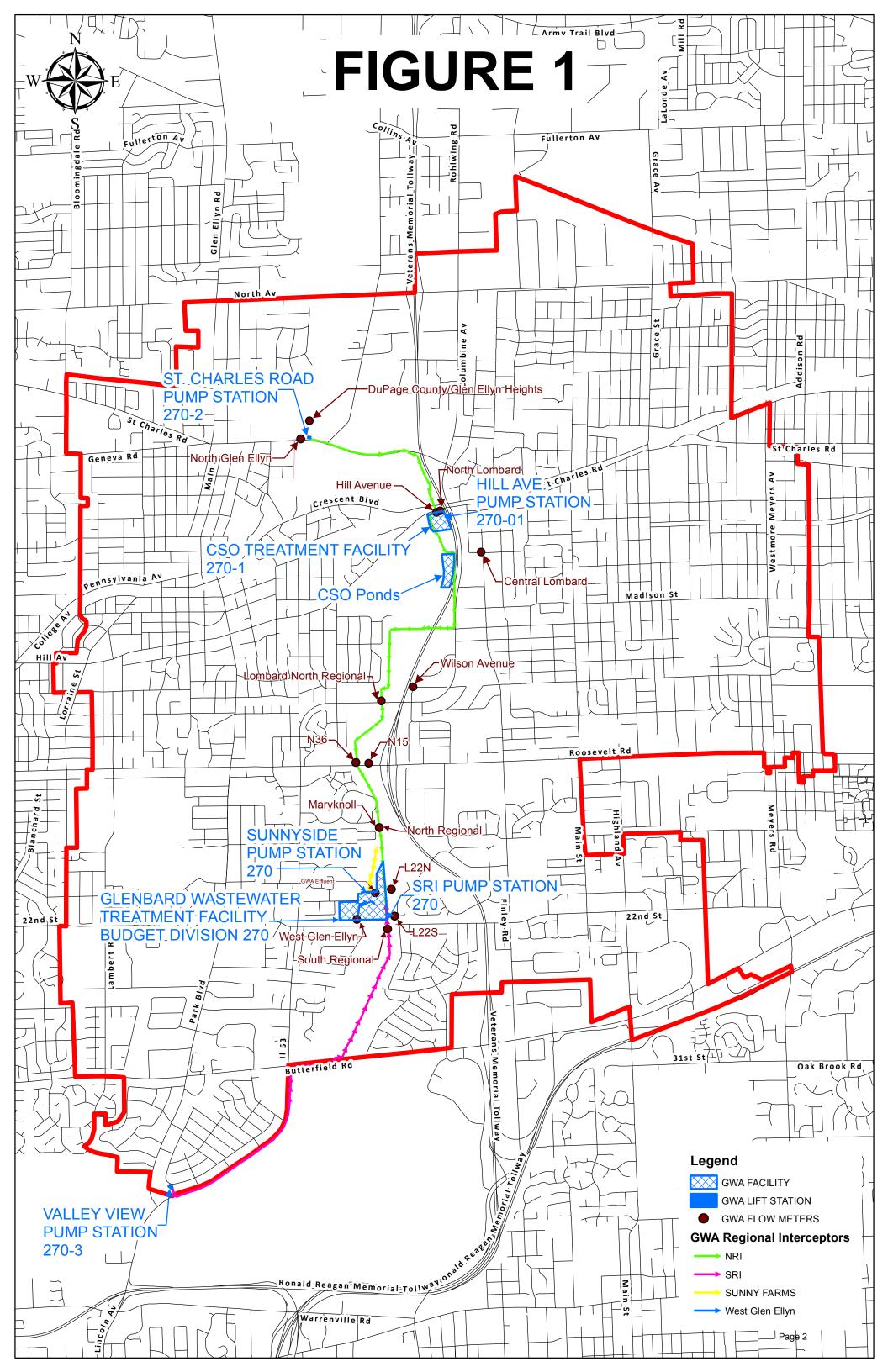
President Keith Giagnario and Members of the Glenbard Wastewater Authority Board Lombard, Illinois 60148

Subject: January 1, 2019 - December 31, 2019 Glenbard Wastewater Authority Budget (CY2019)

I am pleased to present for your review and consideration the proposed Glenbard Wastewater Authority (Authority) CY2019 Budget. The Glenbard Team, with the help of the Village Managers, Public Works Directors, and Finance Directors developed the proposed budget that is being recommended for approval to the Glenbard Wastewater Authority Board. The proposed CY2019 partner allocation shows an overall increase of \$89,241 or 1.1% compared to the approved CY2018 budget. The budget reflects a substantial capital improvement plan with the continuation of the Facility Improvements Project construction. The most significant moderate-sized project is the design engineering for the new electrical distribution grid. Smaller projects include equipment rehabilitation and replacement, small capital projects, and minor infrastructure upgrades. The Facility Improvements Project construction expenses are scheduled to be offset with a loan through the IEPA Clean Water Initiative supported by Governor Rauner at a low interest rate of 1.75%. The proposed budget includes funding that will assure continued plant operation that exceeds regulatory standards resulting in improved water quality of the East Branch of the DuPage River.

BACKGROUND

REGIONALIZATION -- The Illinois Pollution Control Board required regionalization of wastewater treatment facilities in 1974 by creating Facility Planning Areas (FPA). The Glenbard FPA, Region IV-B, originally contained 14,000 acres or 22 square miles and has been amended several times by Glen Ellyn and Lombard and now appears to contain approximately 14,157 acres or 22 \(^{1}\)4 square miles. Recommendations for FPA amendments are made to the Villages by the EOC and are usually done to add small adjacent areas. On occasion small adjacent areas are lost to other FPA's. As of October 2018, the Glenbard FPA contains a population equivalent (P.E.) of 107,708 which is an increase of 1,056 (P.E.) from October, 2017. The FPA is projected to contain a P.E. of 109,125 when fully developed. Figure 1 shows the FPA map with the individual components of the Authority.



<u>FACILITIES</u> -- The Glenbard Wastewater Authority was created in 1977 by an intergovernmental agreement between the Village of Lombard and the Village of Glen Ellyn for the purpose of jointly constructing and operating advanced wastewater treatment facilities. The new facilities opened in 1982 and operate 24 hours per day 365 days per year.

The major components of the Authority, as depicted in Figure 1, are the 16.02 MGD (Million Gallons per Day) Glenbard Advanced Wastewater Treatment Facilities, the SRI Lift Station, the Sunnyside Lift Station, the 58.0 MGD Stormwater Plant, the Hill Avenue Lift Station, the North Regional Interceptor (NRI), the St. Charles Road Lift Station, the South Regional Interceptor (SRI), and the Valley View Lift Station.

The Glenbard Advanced Wastewater Treatment Facility is designed to provide Wastewater Treatment to an average flow of 16.02 MGD of domestic wastewater utilizing activated sludge with High Pure Oxygen. The plant utilizes a Supervisory Control and Data Acquisition (SCADA) system which enables the plant to run unmanned during off hours.

The Glenbard Wastewater Authority Stormwater Plant is an excess flow treatment plant that accepts combined sanitary and storm sewer from the Village of Lombard.

In addition to receiving flow from Glen Ellyn and Lombard the Authority also treats flow from the Illinois-American Water Company, a private utility company in the Valley View/Butterfield area, and from DuPage County, in the Glen Ellyn Heights area.

COST -- The grant eligible planning, design and construction costs of the new facilities totaled \$42.6 million dollars in 1982. The individual components and costs are the Glenbard Advanced Treatment Facility at \$27.2 million dollars, the Glenbard Wastewater Authority Stormwater Plant at \$5.6 million dollars, the North Regional Interceptor (NRI) at \$7.2 million dollars, and the South Regional Interceptor (SRI) at \$2.6 million dollars. The design grant was applied for in 1974, and the construction grant was awarded in 1977. The United States Environmental Protection Agency (USEPA) contributed \$32.0 million dollars toward construction. Lombard and Glen Ellyn contributed \$10.6 million. Glen Ellyn, as lead agency, was the recipient of the USEPA funds and administered the federal grant application, processing, and close out. The USEPA grant was closed-out in January of 1990.

<u>REGULATION</u> -- The Glenbard Wastewater Treatment Plant treats approximately 3.5 - 5.5 billion gallons of wastewater (depending on the amount of rain) annually which is discharged to the East Branch of the DuPage River. The Illinois Environmental Protection Agency (IEPA), through a National Pollutant Discharge Elimination System (NPDES) permit, regulates the discharge parameters.

<u>AUTHORITY ORGANIZATION</u>

<u>AUTHORITY BOARD</u> - The Board of Trustees from the Villages of Lombard and Glen Ellyn govern the Authority. The primary tasks of the Authority Board are to approve an annual budget and audit. Other major responsibilities are to amend the 2014 Intergovernmental Agreement and pass other resolutions as needed. The Board generally meets once a year.

EXECUTIVE OVERSIGHT COMMITTEE - The Executive Oversight Committee (EOC) was formed in 1984. The EOC is currently composed of the Village Presidents of Lombard and Glen Ellyn, a Trustee from each Village who is appointed by the respective Village President, the Village Managers from Lombard and Glen Ellyn, and the Public Works Director from each village. The EOC meets once a month or when necessary and has the primary responsibilities to set the strategic vision, review and approve all borrowing, contracts and expenditures, recommend FPA amendments, review the audit, and recommend an annual budget.

OPERATING "LEAD" AGENCY - The Village of Glen Ellyn is the operating or "lead" agency for the Authority and provides overall supervision, accounting, personnel, and other management services on a contractual basis for the Authority.

<u>PERSONNEL</u> – The day-to-day operation of the facilities is overseen by the Authority's Executive Director who is appointed and approved by the Executive Oversight Committee. A preliminary budget allotment of 18.75 highly qualified individuals who are employed with the Authority. Seventeen (17) employees work full-time while another six (6) work part-time. Eleven employees are certified by the Illinois Environmental Protection Agency in wastewater treatment operations, and seven (7) of those eleven (11) employees hold Class I certificates, the highest certification possible within the State of Illinois.

BUDGET ORGANIZATION

The Authority has adopted a calendar year budget to coincide with a January 1st to December 31st budget year consistent with the lead agency, the Village of Glen Ellyn. Most of the revenues for Authority operations are derived through monthly payments from the two Villages. Additional revenue is realized from connection fees collected on new structures built in the service area, landfill leachate treatment, cellular tower land lease agreements and interest income. There are two major funds: Operations and Maintenance (Fund 270) and the Capital Fund (Fund 40).

Div. 270 - Glenbard Plant (SRI Lift Station & Sunnyside Lift Station) includes:

270-1 – Glenbard Stormwater Plant (Hill Avenue Lift Station)

270-2 – North Regional Interceptor (St. Charles Lift Station)

270-3 – South Regional Interceptor (Valley View Lift Station)

The following is the fund allocation of the Capital fund:

Fund 40 - Equipment Replacement Fund

OPERATION AND MAINTENANCE (O&M) DIVISION

The O&M division records those transactions that are related to the daily operation and maintenance of the Authority. Operations are defined as the control of the treatment processes and equipment that make up the treatment works. This includes personnel management, equipment operation and monitoring, record keeping, laboratory, process control, solids handling, safety and emergency operation planning.

Maintenance is defined as the preservation of functional integrity of equipment and structures. This includes preventive, predictive, and corrective maintenance. The Operations and Maintenance Budget Revenue is allocated to Division 270 with Operations and Maintenance Budget Expenses tracked as follows:

	Estimated CY2018	Proposed CY2019	
Division			
270 - Glenbard Plant	\$3,836,541	\$4,248,691	
SRI L.S			
Sunnyside L.S			
270-1 - Stormwater Plant	\$ 129,375	\$ 142,100	
Hill Ave. L.S			
270-2 - N. Reg. Int.	\$ 25,010	\$ 32,950	
St. Charles Rd. L.S			
270-3 - S. Reg. Int.	\$ 12,001	\$ 22,200	
Valley View L.S			
	\$4,002,927	\$4,445,941	

Cash Reserves / Working Cash

CY 2018

Cash Reserves at January 1, 2018	1,220,060	
CY18 Projected Surplus/(Deficit)	493,988	
Projected Cash Reserves at December 31, 2018	1,714,048	
Less: Estimated Encumbrances at December 31, 2018	-	
Projected Working Cash at December 31, 2018 Less: CY2018 Required Minimum Working Cash	1,714,048 (1,096,600)	*
Projected Working Cash Surplus at December 31, 2018 Cash Reserves / Working Cash	617,448	
<u>CY 2019</u>		
Projected Cash Reserves at December 31, 2018	1,714,048	
CY2019 Projected Surplus/(Deficit)	-	
Projected Cash Reserves at December 31, 2019	1,714,048	
Less: Estimated Encumbrances at December 31, 2019	-	
Projected Working Cash at December 31, 2019	1,714,048	
Less: FY2019 Required Minimum Working Cash	(1,110,160)	**
Projected Working Cash Surplus at December 31, 2019	603,888	

^{25%} of CY2018 Operating Expenses of \$4,386,400 25% of CY2019 Operating Expenses of \$4,440,641 *

^{**}

The seven most significant cost centers in the proposed CY2019 O&M budget are as follows:

1. Personnel: The CY2019 proposed GWA team level is at 18.75 full time equivalents (FTE). Personnel costs for the past twenty years of full time equivalent staff are shown below. SY14 figures indicate expenses for only 8 months due to transitioning to a calendar year in 2015. The figures are indicative of the efficiencies realized through the elimination of multiple shifts, automation and monitoring, and other optimization measures:

	Budget	Actual	<u>FTE</u>
FY98	\$1,433,080	\$1,212,197	27.5
FY99	\$1,286,970	\$ 981,950	25.0
FY00	\$1,074,863	\$ 837,826	20.0
FY01	\$ 897,041	\$ 720,472	18.3
FY02	\$ 882,500	\$ 806,680	17.9
FY03	\$ 936,000	\$ 919,780	17.0
FY04	\$ 979,600	\$ 974,996	16.8
FY05	\$1,065,500	\$1,120,334	15.9
FY06	\$1,163,100	\$1,127,850	15.9
FY07	\$1,219,100	\$1,140,272	15.9
FY08	\$1,254,550	\$1,112,348	14.9
FY09	\$1,197,300	\$1,102,174	14.3
FY10	\$1,235,100	\$1,188,486	15.8
FY11	\$1,328,200	\$1,308,850	15.8
FY12	\$1,372,900	\$1,314,985	15.8
FY13	\$1,368,150	\$1,306,959	15.8
FY14	\$1,410,000	\$1,373,903	15.8
SY14	\$1,066,800	\$1,012,932	17.8
CY15	\$1,555,700	\$1,545,123	17.8
CY16	\$1,619,400	\$1,570,000	18.8
CY17	\$1,647,000	\$1,635,200	18.8
CY18	\$1,612,000	\$1,648,790	18.8 (Estimated)
CY19	\$1,728,690		

2. <u>O&M:</u> Expenses are budgeted in the amount of \$700,525. This includes electrical, mechanical, operational, laboratory and administrative operation and maintenance of plant equipment and the maintenance of buildings and grounds. It is imperative that the capital investment that the Villages have made in their wastewater facility be operated and maintained appropriately. These funds, coupled with those in Fund 40 allocated to Plant Equipment Rehabilitation, provide an excellent plan to operate and maintain the Glenbard Plant process equipment. Maintenance funds cover both routine and non-routine repairs.

3. <u>Utilities</u>: Electric power, natural gas, water, and telecommunications comprise Utilities, the third largest cost center in the O&M budget. The sum of these utility costs is shown below. The largest component of the utility bill is electrical power used for pumping systems, mixing, and various in-plant processes.

```
Actual
FY05
         $606,375
FY06
         $588,400
         $693,128
FY07
FY08
        $1,194,869
FY09
         $769,137
FY10
         $873,093
FY11
         $976,915
FY12
        $1,163,751
FY13
         $752,600
         $799,084
FY14
SY14
         $560,071 (8 Month Budget)
CY15
         $760,826
         $1,023,100
CY16
CY17
         $645,708
CY18
         $634,653 (Estimated)
CY19
         $607,800
```

- 4. <u>Support Services:</u> The following are budgeted as support for each of the specific disciplines; Operations, Maintenance, Maintenance Building and Grounds, and Electrical. The CY2019 budget is proposed at a cumulative amount of \$405,350. This includes the cost of specialized support services that are more effectively and/or efficiently purchased or contracted than completed internally. Support Services range from \$200 per year for software support to \$122,000 per year which includes upgraded flow meters, data analysis and meter maintenance fees.
- **Insurance:** Expenses are budgeted in the amount of \$373,100 for Liability and Health. This number represents all insurance required for the Authority's daily business.
- **Liquid Oxygen:** The newer process of having liquid oxygen delivered versus producing it onsite provides the Authority with flexibility to operate the biological process with lower dissolved oxygen levels which translate into saving cost on liquid hauling. The budget amount for this line item is \$345,000.
- **Fees:** Expenses are budgeted in the amount of \$285,476. Fees include payments for service, memberships, or regulatory fees during CY2019.

CAPITAL FUND

This fund records those transactions that are related to the capital expenditures of the Authority. Capital can be spent on replacing "like for like" equipment at its useful life or for upgrading old processes to new technology.

The revenue for the capital plan is funded via the following components: equipment replacement fund, interest earned in the Capital and O&M funds, sanitary sewer/GWA connection fees paid to both Villages, landfill leachate treatment, cell tower revenues, miscellaneous revenues and borrowing.

	Estimated CY2018	Proposed CY2019	
Fund 40 – Equip. Replacement			
Debt Payment	\$ 637,001	\$ 637,001	
Project Expenses	\$ 8,511,591	\$ 8,116,000	
Property Acquisition	\$ 169,000	\$ 150,000	
Total	\$ 9,317,592	\$ 8,903,001	

Proposed CY2019 capital expenses of \$8,903,001 are 4.45% or \$414,591 lower than the CY2018 estimated capital expenses. The decrease reflects the projects that were deferred or removed from the budget due to the construction and engineering of the Facility Improvements Project per the Equipment Replacement Plan presented to you within the Capital Equipment Replacement Fund 40 Footnotes, as well as the shift of the personnel costs for the Assistant Director from Fund 40 to Fund 270.

ALLOCATION OF EXPENSES

The Villages of Lombard and Glen Ellyn split the expenses for system operation and maintenance according to wastewater flows contributed by each partner based on the previous five (5) year average.

A total of 17 remote meters are located at key points in the Authority's system to enable the Authority to monitor flows which are allocated for billing purposes between the Villages of Lombard and Glen Ellyn. The Flow Meters also identify the flows associated with non-member entities such as DuPage County located on the North side of the GWA Facility Planning Area, and Illinois American Water Company located on the South side of the GWA Facility Planning Area.

In CY2019 a five-year average flow split of 42.56% (Glen Ellyn) and 57.44% (Lombard) is being utilized to estimate the expense allocations for the Wastewater Treatment Facilities. The true ups during the budget year will adjust the members budgeted portions as the flow splits become actual.

The CY2018 budget is inclusive of O&M Division 270 with expense allocation tracking for all facilities. Glen Ellyn recoups some of their operating costs through billings to DuPage County and Illinois-American Water Company.

The *Total O&M Budget Allocation* estimates are as follows:

	Budgeted	Proposed
	CY2018	CY2019
Village of Lombard	\$2,433,686	\$2,548,004
Village of Glen Ellyn	\$1,947,532	\$1,887,936
Total	\$4,381,400	\$4,435,941

The overall O&M contribution by the two Villages has increased by \$89,541 or 1.1% more than the CY2018 budget. The allocation to the Villages for the support of the O&M portion of the budget is \$4,435,941. The allocation to the Villages for support of the proposed Capital Fund is \$3,535,000.

CONCLUSION

The total proposed CY2019 budget and comparisons are as follows:

	Budgeted CY2018	Proposed CY2019		
O&M	\$ 4,386,400	\$ 4,445,941		
Capital	\$ 8,984,337	\$ 9,023,000		
Total	\$13,370,737	\$13,468,641		

Respectfully Submitted,

Matt Streicher, P.E. BCEE

Executive Director

Glenbard Wastewater Authority

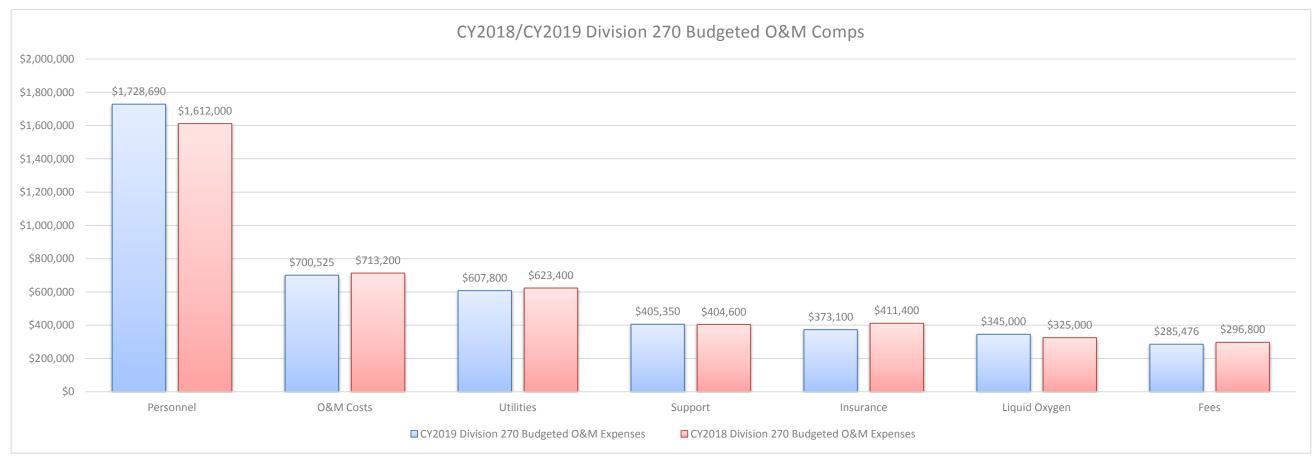
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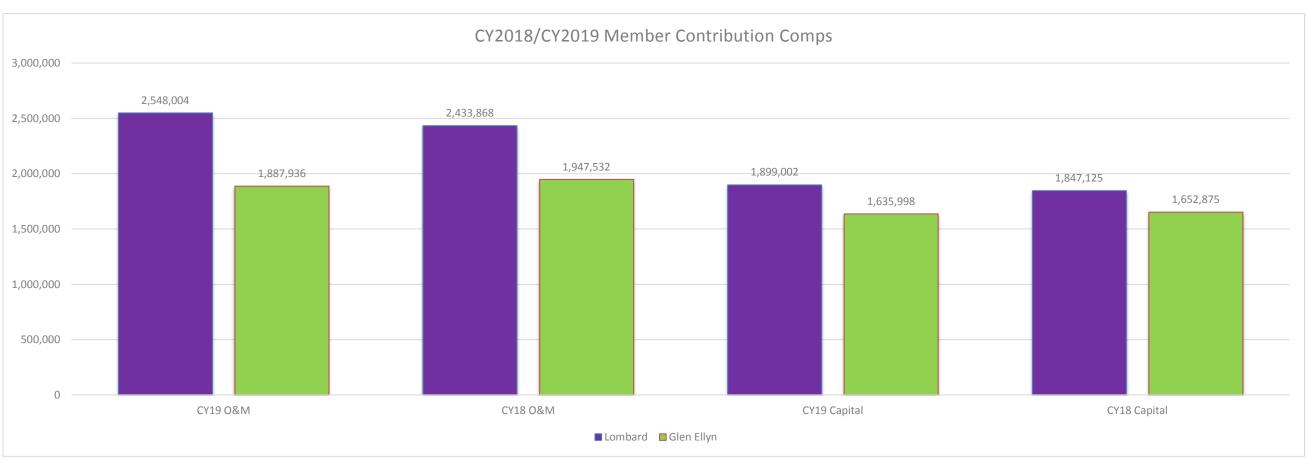
APPROVED CY2018 EXPENSES ALLOCATED TO PARTNERS					
		LOMBARD	GLEN ELLYN	TOTAL	
Fund 27 Operation & Maintenance Fund		2,433,868	1,947,532	4,381,400	
TOTAL O&M BUDGET	=	2,433,868	1,947,532	4,381,400	
		, ,			
CAPITAL EQUIPMENT REPLACEMENT FUND		1,847,125	1,652,875	3,500,000	
TOTAL O&M AND CAPITAL BUDGETS		4,280,993	3,600,407	7,881,400	
ESTIMATED ACTUAL CY2018 EXPENSES ALLOCATED TO PARTNERS					
		LOMBARD	GLEN ELLYN	TOTAL	
Div. 270 Glenbard Plant / SRI L.S. / Sunnyside L.S.		2,100,506	1,736,035	3,836,541	
270-1 Stormwater Plant / Hill Ave L.S.		70,833		129,375	
270-2 North Reg. Int. / St. Charles Rd. L.S.		13,693	11,317	25,010	
270-3 South Reg. Int. / Valley View L.S.	_	6,571	5,431	12,001	
TOTAL O&M BUDGET	_	2,191,603	1,811,325	4,002,927	
CAPITAL EQUIPMENT REPLACEMENT FUND		1,780,750	1,619,250	3,400,000	
TOTAL O&M AND CAPITAL BUDGETS		3,972,353	3,430,575	7,402,927	
CY2018 BUDGET OVER (UNDER)		(308,640)	(169,832)	(478,473)	
PROPOSED CY2019 PARTNERS ALLOCATION					
		LOMBARD	GLEN ELLYN	TOTAL	
Fund 27 Operation & Maintenance Fund		2,548,004	1,887,936	4,435,941	
TOTAL O&M BUDGET	=	2,548,004	1,887,936	4,435,941	
CAPITAL EQUIPMENT REPLACEMENT FUND		1,899,002	1,635,998	3,535,000	
TOTAL O&M AND CAPITAL BUDGETS		4,447,006	3,523,934	7,970,941	
Proposed CY2019 Partners Allocation Compared					
to Approved Expenses Allocated to Partners CY2018:					
Operation & Maintenance	\$	\$114,136	(\$59,596)	\$54,541	
	%	4.7%	-3.1%	1.2%	
Capital Improvements	\$	\$51,877	-\$16,877	\$35,000	
Capital improvements	%	2.8%	-1.0%	1.0%	
Capital improvements	/0			<u>k</u>	
Total O&M and Capital Budgets	\$	166,013	-76,473	89,541	

Glenbard Wastewater Authority				
Budget CY2019	SUMMARY BY DIV	/ISION		
Operations & Maintenance				
Expense Allocation to Partners	Actual	Budgeted	Estimated	Budgeting
REVENUES	CY2017	CY2018	CY2018	CY2019
Div. 270 Glenbard Wastewater Authority	4,021,656	4,381,400	4,174,500	4,435,941
Interest O&M Fund	12,609	5,000	3,000	10,000
Miscellaneous Revenue	4,915	0	0	0
IRMA Reimbursement	0	0	0	0
Total Revenues	4,039,180	4,386,400	4,177,500	4,445,941

	Actual	Budgeted	Estimated	Budgeting
EXPENSES	CY2017	CY2018	CY2018	CY2019
Div. 270 Glenbard Plant / SRI L.S. / Sunnyside L.S.	3,886,357	4,187,600	3,836,541	4,248,691
270-1 Stormwater Plant / Hill Ave L.S.	119,473	142,700	129,375	142,100
270-2 North Reg. Int. / St. Charles Rd. L.S.	20,647	33,900	25,010	32,950
270-3 South Reg. Int. / Valley View L.S.	12,703	22,200	12,001	22,200
Total O&M Expense:	4,039,181	4,386,400	4,002,927	4,445,941
Village of Glen Ellyn O&M Expenditures	1,827,729	1,949,755	1,779,301	1,892,192
Village of Lombard O&M Expenditures	2,211,451	2,436,645	2,223,626	2,553,748
Budget (Over) Under	(1)	0	174,573	0
Use of Available Cash				

Glenbard Wastewater Authority CY2018 Total Budget				
	Actual CY2017	Budgeted CY2018	Estimated CY2018	Budgeting CY2019
Operations & Maintenance	\$4,039,181	\$4,386,400	\$4,002,927	\$4,445,941
Capital Costs (Expenses & Debt Repayment)	\$3,212,289	\$8,984,337	\$9,440,291	\$9,023,000
TOTAL	\$7,251,469	\$13,370,737	\$13,443,218	\$13,468,941





DIVISION 270 GLENBARD PLANT and THE SRI LIFT STATION and SUNNYSIDE LIFT STATION O&M NARRATIVE

Division 270 is the main treatment facility. The facility treats, on average, 12 million gallons per day (MGD). The flow is conveyed via two interceptors:

- ~The North Regional Interceptor (SRI)
- ~The South Regional Interceptor (NRI)

These interceptors end at a junction chamber that is located on the eastern property line. Once they have reached the junction chamber, one 60" sewer conveys the flow under the East Branch of the DuPage River and into the GWA Treatment Facility. The 22nd Street sewer pipe also conveys flow to the junction chamber, but is not considered an interceptor since it is the property of the Village of Lombard.

The SRI Lift Station is located on the southeastern corner of the Glenbard Plant. The station was built in 1992 to alleviate the overpowering flow of wastewater from the NRI that created sanitary sewer overflows of the South Regional Interceptor. The wastewater that is pumped through the SRI Lift Station is conveyed to the station by the South Regional Interceptor which receives flow exclusively from collection systems operated and maintained by Illinois-American Water, a private utility company regulated by the Illinois Commerce Commission. Glenbard provides wastewater treatment for Illinois-American Water, who pays a user charge for this service to the Village of Glen Ellyn.

The Sunnyside Lift Station which was built in 1979 as part of the re-aligning of the North Regional Interceptor (NRI) during the construction of the new Glenbard Wastewater Authority Treatment Facility. The NRI at the time was on the west side of the East Branch of the DuPage River. The construction of the new Glenbard plant re-aligned the NRI to the east side of the East Branch of the DuPage River. The homeowners that had laterals leading directly to the NRI needed to be serviced, so the creation of the Sunnyside Lift Station came to be. The lift station serves less than twelve residents along Sunnybrook Road.

Flow through the Glenbard Plant is billed to both the Village of Lombard and the Village of Glen Ellyn based on monthly flow billing.

Budget CY2019

Operations & Maintenance

Division 270

Expense Allocation to Partners

REVENUE

		Actual CY2017	Budgeted CY2018	Estimated CY2018	Budgeting CY2019
Operation/	/Maintenance				
450010	Glen Ellyn Share - 42.56%	1,715,437	1,947,532	1,926,949	1,887,936
450015	Lombard Share - 57.44%	2,306,219	2,433,868	2,247,551	2,548,004
	Partners Allocation	4,021,656	4,381,400	4,174,500	4,435,941
	Interst Income - O&M Fund	12,609	5,000	3,000	10,000
	Misc. Revenue	4,915	0	0	0
	IRMA Reimbursement	0	0	0	0
DIVISION 2	270	4,039,180	4,386,400	4,177,500	4,445,941

NOTE: The flow splits used to calculate partner payments for CY2019 are as follows:

Flow Split for Glen Ellyn: 42.56% Flow Split for Lombard 57.44%

(for 5 yrs. Average ending 12/31/17)

NOTE: The flow splits used to calculate partner payments for CY2018 are as follows:

Flow Split for Glen Ellyn: 44.45% Flow Split for Lombard 55.55%

(for 5 yrs. Average ending 12/31/16)

NOTE: The flow splits used to calculate partner payments for CY2017 are as follows:

Flow Split for Glen Ellyn: 45.25% Flow Split for Lombard 54.75%

(for 5 yrs. Average ending 12/31/15)

Budget C		Footnotes		EXPENSES				
Division 2	s and Maintenance	ţ	Actual	Budgeted	Estimated	Budgeting	% Difference	\$ Difference
	Allocation to Partners	ρ	CY2017	CY2018	CY2018	CY2019	CY18-CY19	CY18-CY19
Personne			1	1	1	0.20.0		
	Salaries - Regular	1	1,243,772	1,250,000	1,286,186	1,392,000	11.4%	142,000
	Salaries - Part-Time Ops.	2	54,704	45,000	58,108	60,000	33.3%	15,000
	Salaries - Overtime	3	53,301	51,000	62,470	51,000		0
	Salaries - Temporary/Seasonal		1,578	25,000	4,000	7,000		(18,000)
510400			100,172	108,000	103,926	115,515		· · · · · · · · · · · · · · · · · · ·
510500		4	129,700	133,000	134,100	103,175		
	Total		1,583,225	1,612,000	1,648,790	1,728,690	7.2%	116,690
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Contractu	al Services and Commodities							
520305	Employee Recognition		558	1,000	251	1,000	0.0%	0
520600	Dues/Subs./Fees		15,362	15,900	4,902	15,750	-0.9%	(150)
520615	Recruiting/Testing		1,501	1,000	5,111	1,000	0.0%	0
	Employee Education	5	12,352	20,700	15,784	19,000	-8.2%	(1,700)
	Travel (Mileage)		0	500	53	750	50.0%	250
	Pro. ServLegal Support	6	20,681	15,000	20,798	15,000	0.0%	0
	Legal Notices		581	500	627	500		0
	Regulatory Fees		52,741	55,000	52,735	53,000	-3.6%	(2,000)
	DuPage River Salt Creek Work Group Fee	7	25,278	31,300	31,242	33,600		2,300
	Pro. ServLab Support		23,594	30,000	19,528	27,500	-8.3%	(2,500)
	External Consulting Fees	8	13,616	30,000	14,067	20,000		· · · · · · · · · · · · · · · · · · ·
	Audit Fees / Pro. Serv Acct.	9	10,800	14,300	11,100	11,400	-20.3%	(2,900)
	Bank Charges		25	0	0	0		
	Insurance - Liability (MICA)	10	167,443	154,000	144,016	160,000		·
	Insurance - Health	11	233,495	257,400	209,530	213,100		· · · · · · · · · · · · · · · · · · ·
	Maint Bldg. & Grds.		4,557	11,000	14,387	12,000		1,000
	Bldg. & Grounds - Support		41,436	61,100	51,317	56,550		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Maint Equipment		99,064	157,600	50,589	157,825		225
	Maint Support	12	46,216	61,900	39,868	62,500		600
	Maint Electronics		54,893	70,000	47,127	66,000		(4,000)
	Elect Support	13	197,476	206,900	188,700	219,900	6.3%	13,000
	Operations - Supplies		9,394	15,900	14,252	14,100		(1,800)
	Operations - Support		4,567	15,000	3,994	7,000		(8,000)
	Professional Services - Other Support		1,904	2,000	1,741	4,000		2,000
	Overhead Fees	14	128,372	129,300	129,270	131,726		·
	Sludge Disposal - Land Applied	15	179,218	220,000	119,041	195,000		(25,000)
	Telecommunications		29,685	31,400	27,884	31,800		400
	Electric Power	16	427,921	435,000	448,171	400,000		(35,000)
	Natural Gas	17	66,567	45,000	53,357	60,000		15,000
521203			50,009	20,000	28,454	25,000		5,000
	Self-Gen Gas		4,436	6,000	4,917	6,000		0
	Office Expenses		15,236.86	20,000	12,450	16,500		(3,500)
	Operating Supplies - Lab		15,010.37	20,000	10,249	20,000		0
	Pretreatment Expenses		0.00	5,500	0	4,500		(1,000)
	Administrative Purchases		182.20	3,500	14 202	500		(3,000)
530225		10	17,951.59	16,900	14,302	17,500	3.6%	600
	Chemicals	18	90,653.36	65,000	42,206	90,000		25,000
	Liquid Oxygen	19	236,854.77	325,000	352,883	345,000		20,000
550445	Uniforms		3,501.82	5,000	2,847	5,000	0.0%	0
	Total		2,303,131	2,575,600	2,187,751	2,520,001	-2.2%	(55,599)
	TOTAL DIVISION 270		3,886,357	4,187,600	3,836,541	4,248,691	1.5%	61,091

CY2018 DIVISION 270 O&M FOOTNOTES

(1) **SALARIES** (\$1,392,000):

This budget number includes salaries provided for seventeen (17) full-time staff members. The full-time equivalent for all staff is approximately 18.8 including part-time operators and seasonal staff.

(2) SALARIES - PART-TIME OPERATORS (\$60,000):

The Glenbard Plant operates 24 hours per day, 7 days per week. The SCADA System monitors the plant while it is not manned. Work *is* required on weekends and holidays to assure continued treatment and processing to meet stream discharge standards. Most of this work involves solids processing that must be done 7 days per week. For approximately seventeen (17) years we have used Part-Time Operators to provide operational inspections and solids processing on weekends and holidays. The use of five (5) part-time operations staff has allowed the full-time operations staff to work a regular work week without needing to work swing shifts or weekend work unless a situation arises. This has worked out well, and has resulted in not only better working arrangements for the full-time operations staff, but also utilizes an expanded pool of operators who can be called upon to help with the plant operations. This item is based on the equivalent of one (1) full time 40 hour per week employee.

(3) <u>SALARIES – OVERTIME (\$51,000):</u>

GWA continues to trend overtime and manage this expense with best management practices in mind.

(4) IMRF (\$103,175):

This represents a \$29,825 reduction compared to the CY2018 budget number of \$133,000.

(5) **EMPLOYEE EDUCATION (\$19,000)**:

The employee education line item this year includes but not limited to the following:

Illinois Public Sector Institute (IPSI) Training	\$6,000
WEF Technical Conference	\$2,000
IWEA, CSWEA, IAWA Technical & Annual Conf.	\$4,000
NACWA Pretreatment Conference	\$1,000

(6) PROFESSIONAL SERVICE LEGAL (\$15,000):

This item had no increase from CY2018 and is used for legal needs regarding projects and contract reviews, lease agreements, access, and all other legal consultation.

(7) DUPAGE RIVER SALT CREEK WORK GROUP (\$33,600):

The increase in the work group dues is a direct correlation to the support we provide as members to keep the administrative functions in tact as we continue to collaborate with the IEPA with regard to our NPDES permits. The project initiatives that the East / West Branch DuPage River & Salt Creek watersheds are providing to the IEPA are imperative to the impacts of the nutrient standards relating to point source dischargers. The work group has been recognized by the IEPA as a leader in developing remediation to stream standards particularly relating to habitat improvements. The work group believes that stream remediation is the path to healthier streams and rivers versus costly implementation of nutrient discharge limits at treatment plants for phosphorus and total nitrogen. Educating communities about chloride utilization, storm water best management practices, and the discontinued use of coal tar sealants have also been important functions provided by this group. The IEPA has granted the Authority with two permit cycles (10 years) without impending NPDES limits for phosphorus, and is currently in negotiations to get another permit cycle (5 years) included onto the exemption.

(8) External Consulting Fees (\$20,000):

This item covers the cost to hire a consulting engineer for small specific tasks required to implement equipment changes, operational changes or general consultation. In CY2019 the Authority anticipates needing to use external consultants for a number of small jobs or studies.

(9) **AUDIT FEES (\$11,400)**:

The Audit fees for the Authority cover the cost of the Village of Glen Ellyn as the "Operating Agency" to hire a third-party financial firm to provide an Audit of the CY2018 financials.

(10) INSURANCE LIABILITY (\$160,000):

This item represents the annual premium cost of our coverage with Municipal Insurance Cooperative Agency (MICA), a pooled insurance program, which provides a protected self-insured plan. Included in this expense line is the annual premium payment to MICA for CY2019 and an excess liability policy. This Line item is the is a \$6,000 increase from the number that was utilized for the CY2018 budget number of \$154,000. Liability insurance consists of 2/3's Workman Comp costs and 1/3 Property insurance costs.

(11) INSURANCE HEALTH (\$213,100):

Health care is provided through the Village of Glen Ellyn insurance plan. This line item reflects a \$44,300 decrease over the CY2018 budget number of \$257,400.

(12) MAINTENANCE SUPPORT (\$62,500):

This line item reflects work previously budgeted in the Maintenance-Contractual line item. This represents a \$600 increase from the CY2018 budget number of \$61,900. A few of the most significant expenses included in this item in CY2018 are:

Vehicle Maintenance (Provided by VGE) Costs	\$36,700
Miscellaneous Equipment Maintenance	\$15,700
Maintenance Garage	\$1,500
Combined Heat & Power	\$8,000

(13) **ELECTRICAL SUPPORT (\$219,900)**

This line item reflects a increase in CY2019 compared to CY2018 budget number of \$206,900. The increase is attributed to increased costs in annual service contract increases.

(14) **OVERHEAD FEES (\$131,276)**:

Overhead fees per the Intergovernmental Agreement (IGA) are based on the annually published CPI-U Chicago increase of 1.9% for the CY2019 budget. In 2015 the administrators for the member Villages reviewed the demands of the Authority regarding the Operating Agency's responsibility for oversight and felt that after three years (per the IGA) the review of workload allocation and the cost to support the Authority is acceptable until the next review due this year.

(15) SLUDGE DISPOSAL FEES (195,000):

Sludge disposal fees have been calculated based the new bid price that was obtained in CY2018 for a 3-year contract, and estimated volume of sludge produced. This cost includes the costs of hauling sludge off plant site daily in order to better mitigate odors.

(16) ELECTRIC POWER (\$400,000):

In CY2017 The Authority signed a four (4) year agreement which began in CY2018 (February) with Direct Energy for a Fixed Fee of \$0.04436/KWH (reduction from previous 3-year contract with Dynegy Energy for \$.0478/KWH.) Our power consumption is directly impacted by wet weather conditions impacting our facilities. The Authority originally estimated this cost to be much lower (\$300,000) due to the potential electricity being produced by Combined Heat & Power (CHP) engine generators, however due to the digester upset, conservative numbers have been reinserted into the budget keeping in mind the uncertainty of the co-digestion/HSW program, and it's affect on the ability to generate more electricity. The \$400,000 budget number for CY2019 is based on past trends and predicted CHP Electricity production, as well as normal operating parameters for the plant.

(17) NATURAL GAS (\$60,000):

In CY2017 The Authority signed a four (4) year agreement which began in CY2018 (April 1) with Constellation Energy Services for a Fixed Fee of \$2.78 per dekatherm (reduction from previous 3-year contract with Integrys Energy for a Fixed Fee of \$4.19 per dekatherm) The Authority is looking to continue to reduce our natural gas costs with the CHP process which as a secondary savings driver will reduce the need for natural gas as a fuel for our 1.5 million BTU boilers used

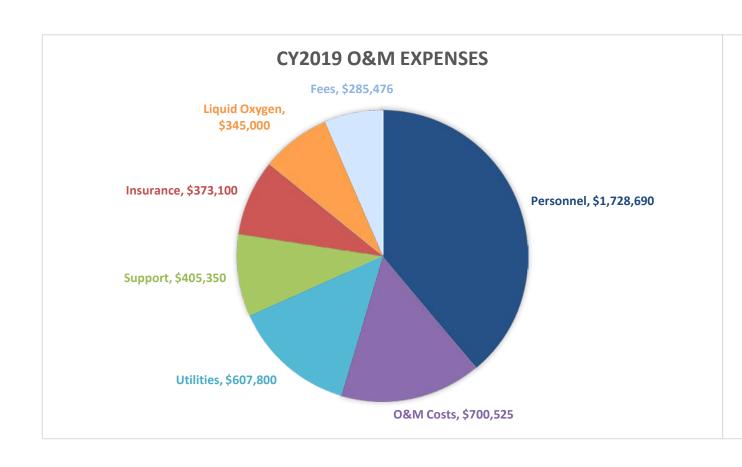
to heat the digester which lowers the temperature of the water as it recirculates back through the engine and gets reheated. The hydronic process of the CHP system is complicated due to the needs of two processes, the anaerobic digester heating demands and the CHP engine cooling demands. The two must work together to successfully regulate the temperatures each one specifically needs. The hot water if not needed by the boilers, will be cooled by the radiators to keep the CHP's from overheating.

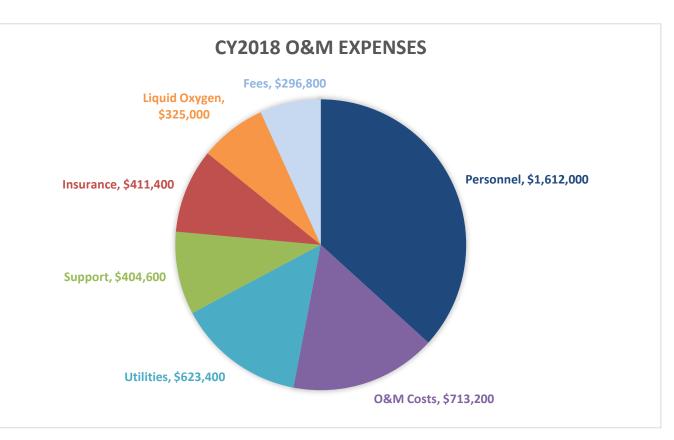
(18) CHEMICALS (\$90,000):

Chemicals used in the daily operation of the plant are included in this section at expected levels consistent with our recent history. Different chemicals are used for sludge dewatering, odor control, acid wash, and mineral deposition throughout the plant. Polymer production costs continue to increase annually due to the product being petroleum based. This item saw a significant increase from CY2018 due to higher hauling costs, as well as the additional of a chemical system related to the Facility Improvement Project

(19) <u>Liquid Oxygen (\$345,000)</u>

In CY2018 the Authority began to haul in pure oxygen from an outside provider. The transition to hauling it from an outside provider has allowed us to start using less energy, while still operating the high purity oxygen system, and gave us the ability to fine tune our operations prior to converting to a biological nutrient removal processes. Performing the transition could avoid shocks to the biological components of the overall treatment process as a result of moving directly from High Purity Oxygen (HPO) Activated Sludge process to Biological Nutrient Removal (BNR). The transition to liquid hauling would also consume less staff time since the cryogenic plant would no longer be in operation, and would reduce overall operational costs. This line item has a \$20,000 increase from CY2018 due to trying to refine actual numbers based on historical usage. Since this is still a relatively new process, we continue to refine the number as we have more historical data to base it off of.





Glenbard Wastewater Authority CY2019 Personnel Budget Division 270 -- 510100-510500

	Item	Comments	CY18 Budgeted		CY19 Budgeting	
510100	Salaries - Regular		1,250,000		1,392,000	
510110	Part - Time Operations	= 1.0 Full Time Equivalent	45,000		60,000	
510200	Laboratory Overtime		2,000		2,000	
510200	Ops. Reg. Overtime		3,000		3,000	
510200	High Flow Overtime		3,000		3,000	
510200	Ops. Call-In Overtime		10,000		10,000	
510200	Ops. SCADA Monitoring Overtime		21,000		21,000	
510200	Maint. Regular Overtime		4,000		4,000	
510200	Maint. Call-In Overtime		2,000		2,000	
510200	Elec. Reg. Overtime		4,000		4,000	
510200	Elec. Call-In Overtime		2,000		2,000	
510300	Part Time Labor	= .5 Full Time Equivalent	25,000		7,000	
		Salaries R	egular, PT Ops & Seasonal	1,320,000		1,459,000
		Salaries O	vertime (3)	51,000		51,000
		Salaries		1,371,000		1,510,000
510400	FICA - 7.65%			108,000		115,515
510500	IMRF - 7.15%			133,000		103,175
		Personnel Services		\$1,612,000		\$1,728,690

Glenbard Wastewater Authority CY2019 Recognition/Awards Budget 270 520305

Item	Recommendation		CY18 Budgeted	Total	CY19 Budgeting	Total
Recognition/Awards	Miscellaneous (Manager's Discretion)		1,000		1,000_	
		Total	<u> </u>	\$1,000		\$1,000

Glenbard Wastewater Authority CY2019 Dues/Fees/Subscriptions Budget 270 520600

Item	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Dues/Fees/Subs.	Water Environment Federation - Memberships	1,200		1,200	
	WEF - Publications	500		500	
	NACWA	5,600		5,600	
	IAWA	7,200		7,200	
	NFPA Membership	150		150	
	American Public Works Associaton - Memberships	150		0	
	Fox Valley Operators Association	300		300	
	Julie - Locating Services	300		300	
	Miscellaneous (Managers Discretion)	500		500	
			\$15,900		\$15,750

Glenbard Wastewater Authority CY2019 Recruit/Test Budget 270 520615

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Recruiting/Testing	Daily Herald	1,000_		1,000	
			1000		1000

Glenbard Wastewater Authority CY2019 Employee Training/Education Budget 270 520620

		CY18 Budgeted	CY19 Budgeting
Administration	Employee Education - Administration	-	
	WEFTEC Chicago, IL		_
	Streicher	2,500	1,000
	Romza	0	1,000
	CSWEA. IWEA, IAWA (Meetings/Conferences) - Streicher, Asst. Dir & Frieders		
	Streicher - CSWEA Ed & Annual, IAWA Tech & Mini Annual, IWEA Tech & Annual	1,000	2,000
	Frieders - IWEA Tech & Annual, IAWA Tech	500	500
	Asst - CSWEA Tech & Annual, IAWA Tech & Annual, IWEA Tech & Annual	2,000	2,000
	NACWA Pretreatment Conference - Frieders	1,000	1,000
	Opworks Database Training - Worksheet Creation	2,500	0
	ESRI - ArcGIS Training	1,700	0
	IPSI - Illinois Public Sector Institute Training:	0	0
	Asst. Director - Year 1 of 3 year training program	0	1,500
	Frieders - Year 3 of 3 year training program	1,500	1,500
	Streicher - Year 2 of 3 year training program	1,500	1,500
Operations	Employee Education - Operations (5 Operators)		
	WEFTEC	0	0
	Misc Tech Seminars	1,000	1,000
	College Reimbursement	0	0
	Central States WEA, IAWA State Conferences	1,000	1,000
Maintenance	Employee Education - Maintenance		
	WEFTEC	0	0
	Facilities Maintenance Show 4 Maint Mech (Chicago)	500	500
	Maintenance Based Courses/Seminars (APWA Snow and Ice)	500	500
	IPSI - Illinois Public Sector Institute Training	0	0
	Braga - Year 2 of 3 year training program	1,500	1,500
	Misc Tech Seminars	1,000	1,000
Electrical	Employee Education - Electrical		
	Misc Tech Seminars	0	1,000
	Facilities Maintenance, ISA Shows R. Freeman, P. Dziewior & J. Solita (Chicago)	500	0
Lab	Employee Education - Laboratory		
	Misc Tech Seminars	500	500
		\$20,700	\$19,000
		φ20,700	φι3,000

This fund is inclusive of all costs associated with each Training/Education item, including transportation(non-mileage), hotel, rental car, and meals.

Glenbard Wastewater Authority CY2019 Mileage Reimbursement Budget 270 520625

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Travel	Travel for Seminars/Training				
	Manufacturing Trade Shows	250		250	
	I-Pass	250		500	
		=	\$500	=	\$750

Glenbard Wastewater Authority CY2019 Pro. Svc. Legal Budget 270 520700

ltem	Recommendation		CY18 Budgeted	Total	CY19 Budgeting	Total		
Pro. Svc. Legal	Contracted Legal Assistance		15,000		15,000 15,00		15,000)
		Total	=	\$15,000	=	\$15,000		

Glenbard Wastewater Authority CY2019 Legal Notices 270 520750

ltem	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Legal Notices	Chicago Tribune Daily Herald	500	500		500
			\$500		\$500

Glenbard Wastewater Authority CY2019 Regulatory Fees 270 520775

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Glenbard Plant	IEPA Regulatory Fees associated with the NPDES permit and sludge disposal permit as legislated by State.	55,000		53,000	
			\$55,000		\$53,000

Glenbard Wastewater Authority CY2019 DuPage River Salt Creek Work Group Commitment 270 520776

	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
GWA	Workgroup Membership Dues	31,000		33,600	
reports what streams a Chloride I treatment for the eff East/West funding is on Januar	the approval of TMDL (Total Max. Daily Load) hich address the water quality of the local and rivers relative to their Dissolved Oxygen and Levels, the IEPA has directed all wastewater a facilities in DuPage County to reserve funds forts to improve water in Salt Creek and the at Branches of the DuPage River. This proposed a based on Work Group method established ary 26, 2005 and represents Contribution for the Wastewater Authority by Million Gallons per Day.				
is showing	c group research has found that habitat improvement g positive signs after multiple dam removal efforts. G is working with the IEPA to help promote scientific mproved watershed quality.				

\$31,000

\$33,600

Glenbard Wastewater Authority CY2019 Prof. Svc. Lab. Budget 270 520806

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Cont. Lab Testing	Suburban Laboratories (Metals) Digester Testing Monthly Process Testing Monthly Sludge Fecal Testing	30,000		24,000	
	Bio-Monitoring Services per NPDES Permit	0		3,500	
			\$30,000		\$27,500

Glenbard Wastewater Authority CY2019 Prof. Svc. Eng. Budget 270 520816

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Pro. Serv. Engr.	External Consulting Fees	30,000		20,000	
			\$30,000	-	\$20,000

Glenbard Wastewater Authority CY2019 Prof. Svc. Accnt. Budget 270 520825

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Pro. Svc. Acct.	Contracted Audit/Accnt. Fees	11,100		11,400	
	Single Audit for SRF Disbursements	3,200		0	
				_	
			\$14,300		\$11,400

Glenbard Wastewater Authority CY2019 Insurance Liability Budget 270 520885

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
InsLiability	Fees for Liability Coverage	154,000	\$154,000	160,000	\$160,000
	All Facilities included - Property Portion Equals 1/3 of Total Portion				
	Total Liability Insurance Amount: \$175,815 is a 3.8% increase compared to the estimated actual \$150,000 billed for CY2018				

Glenbard Wastewater Authority CY2019 Health Insurance Fees Budget 270 520895

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Ins Health	Fees for Employee Health Insurance Coverage	257,400		213,100	
	Total Health Insurance amount reflects a 8.7% decrease over estimated actual billed (\$233,495) for CY2017		\$257,400	_	\$213,100
	Increase only includes 20% of the O&M cost for the Engineer/Assistant Director.				
	The other 80% is captured in Capital Fund 40 in the amount of \$8,000				

Glenbard Wastewater Authority CY2019 - Buildings and Grounds Budget Maintenance 270 520970

Description	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
GWA Building/Grounds	Janitorial Supplies for Custodians	2,000		2,500	
	Door/Lock/Misc Repairs	1,000		1,500	
	Bldg./Equipment. Painting Supplies (Non-Contract)	500		500	
	Misc. Repair Parts	1,000		2,000	
	Mulch	1,000		500	
	Planting Beds	500		500	
	Grass Seed	1,000		500	
	Topsoil	4,000		4,000	
			\$11,000		\$12,000

Glenbard Wastewater Authority CY2019 - Buildings and Grounds - Support Budget Maintenance 270 520971

DESIGNATION	RECOMMENDATIONS	CY18 Budgeted	Total	CY19 Budgeting	Total
Glenbard Plant	Roofing Systems Survey	4,500		0	
	Contractor Door/Lock Repairs	1,000		1,500	
	Spoil Removal	0		0	
	Shop Towel Service	2,100		2,500	
	Fire Extinguisher Service/Repairs	4,000		4,000	
	Elevator Services/Repairs	2,000		0	
	Elevator Press Tests	500		750	
	Elevator Inspections	2,300		2,300	
	Landscape Maintenance	21,200		21,200	
	Pest Control	700		700	
	Mosquito Spraying	0		600	
	Tru-Green Chemlawn - Turf/Shrub Disease Control	5,200		5,200	
	Contracted Window Repairs	2,000		2,000	
	Contracted Janitorial Service	12,300		12,300	
	Unanticipated Contracted Building/Grounds Repairs	2,300		2,500	
	Admin Window Cleaning Contract	1,000_		1,000	
		_	\$61,100		\$56,550

Glenbard Wastewater Authority CY2019 Equipment Maintenance Budget 270 520975

Building	Designation	CY18 Budgeted	CY19 Budgeting
Α	Bar Screen	2,100	4,300
В	Raw Pump	1,500	2,050
С	Grit Removal	1,500	2,550
D	Primary Pump	1,600	2,150
E	Primary Scum	4,000	2,125
F	Unox	8,300	6,300
Н	Screw Pump	8,500	8,500
I	Final Clarifiers	900	1,200
J	Pump & Metering	1,500	2,350
L	Sand Filter	500	1,250
N	Warehouse	500	500
Р	Press	5,300	4,700
Q	Cryo.	2,800	2,100
R	Administration	1,500	2,500
S	Maint. Garage	3,000	3,750
Т	Electrical Shop	3,200	3,050
U	Digester	3,000	3,150
V	Co-Gen	8,500	6,500
Υ	Combined Heat and Power	75,800	75,800
Z	SRI Lift Station	4,000	3,500
	Miscellaneous	19,600	19,500
	TOTAL	\$157,600	\$157,825

Glenbard Wastewater Authority CY2019 Equipment Maintenance Budget Maintenance 270 520975

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Bldg A - Bar Screen	Bar Screen/Rag Washer Wear Plates, Seals	1,900		0	
	Bar Screen PM/Repairs	0		1,000	
	Rag Washer PM/Repairs	0		3,000	
	Isolation Gate PM/Repair	0		100	
	Potable Water System PM/Repairs	0		100	
	Non-Potable Water System PM/Repairs	0		100	
	Oil and Grease	200		0	
			\$2,100		\$4,300
Bldg B - Raw Pump	Oil and Grease	900		0	
Blug B - Naw Fullip	Potable Water System PM/Repair	0		100	
	Non-Potable Water System PM/Repair	0		1,500	
	Raw Pump PM/Repair	0		150	
	Parco System PM/Repair	0		200	
	Isolation Gate PM/Repair	0		100	
	Pump Spare Parts	600		0	
	Wet Well Lid Rings (Plant Wide Usage)	0		0	
			\$1,500		\$2,050
Bldg C - Grit	Oil and Grease and Pump Seals	1,000		0	
Blug C - GIR	Potable Water System PM/Repairs	0		100	
	Non-Potable Water System PM/Repairs	0		100	
	Grit Collection System PM/Repairs	0		200	
	Grit Pump System PM/Repairs	0		1,000	
	Grit Washer System PM/Repairs	0		750	
		ŭ		. 00	

	Blower System PM/Repairs Odor Control PM/Repair Blower Drive Belts	0 0 500	\$1,500	200 200 0	\$2,550
Bldg D - Primary Pump	Compressor Filters Potable Water System PM/Repairs Non-potable Water System PM/Repairs Sludge Pump System PM/Repairs Scum System PM/Repairs Pump Parts Oil and Grease	200 0 0 0 0 1,000 400	-	0 50 100 1,000 1,000 0	
			\$1,600		\$2,150
Bldg E - Primary Scum	Odor Control Parts Potable Water System PM/Repairs Non-Potable Water System PM/Repairs Scum Compation System PM/Repairs Odor Control System PM/Repairs Pump Parts Compressor Filters/Oil	3,000 500 500	\$4,000	0 50 75 500 1,500 0 0	\$2,125
Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Bldg F - Unox	Unox Control System Parts/Misc. Parts Emergency Repair Parts Seal Antifreeze Unox System PM/Repairs Mixer PM/Repairs	700 3,000 300		0 0 100 200 5,000	

	Valve Repair/Replacement Mixer Oil	4,300	\$8,300	1,000	\$6,300
Bldg H - Screw Pump	V-Belts Grease Drive Oil	2,000 4,000 2,500	\$8,500	2,000 4,000 2,500	\$8,500
Bldg I - Final Clarifiers	Enclosure Insulation Final Clarifier PM/Repair Valve PM/Repair Grease	400 0 500	\$900	200 500 500 0	\$1,200
Bldg J - Pump and Metering	Pump Parts Sludge Pumping System PM/Repair Potable Water System PM/Repair Nitro Waste System PM/Repair Non-Potable Water System PM/Repair	1,500 0 0 0	\$1,500	0 1,500 100 500 250	\$2,350
Bldg L - Disc Filter	Potable Water System PM/Repair Non-Potable Water System PM/Repair (NEW) Disc Filter Consumables Disc Filter PM/Repair	0 0 500	\$500	250 500 0 500	\$1,250

Bldg N - Warehouse	Shelving Rehab	500	\$500	500	\$500
Decimation.	December detions	OV40 Budgeted	Tatal	OV40 Dudantin n	Tatal
Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Bldg P - Press	Oil and Grease	1,500		0	
	Sludge Press System PM/Repair			2,000	
	FOG System PM/Repair			2,000	
	Non-Potable Water System PM/Repair			100	
	Polymer System PM/Repair			500	
	Potable Water System PM/Repair			100	
	Pump Parts	3,000		0	
	Press Seal	800		0	
			\$5,300		\$4,700
Plda O. Crus	Oil and Filters	900		0	
Bldg Q - Cryo	Misc. Parts	400		0	
	Instrument Air System PM/Repair	400		2,000	
	Potable Water System PM/Repair			100	
	Replacement PRV's	1,000		0	
	Emergency Repair/Parts	500		0	
	Emorgonoy respaint and		\$2,800		\$2,100
			φ2,000		φ2,100
Bldg R - Admin	Lavatory Repair Parts	750		750	
-	Laboratory Systems PM/Repair			1,000	

	Washer/Dryer Parts	750	\$1,500	750	\$2,500
Bldg S - Maintenance Garage	Welding Supplies Potable Water System PM/Repair Compressed Air System PM/Repair	3,000	\$3,000	2,500 250 1,000 0	\$3,750
Bldg T - CRAS/Electric Shop	Compressor Filters Check Valve Parts Compressed Air System PM/Repair Potable Water System PM/Repair Non-Potable Water System PM/Repair Carbo Pumping System PM/Repair Carbo Piping PM/Repair Filters Pump Seals	100 1,000 0 0 0 0 0 100 2,000	\$3,200	0 0 250 250 150 2,300 100 0	\$3,050
Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Bldg U - Digester	Boiler Parts / Cleaning Non-Potable Water System PM/Repair Potable Water System PM/Repair Boiler PM/Repair Recirculation Pump PM/Repair Mixing Pump PM/Repair Digester PM/Repair Bio-gas System PM/Repair	1,000 0 0 0 0 0 0		0 250 150 1,000 750 500 250 250	

	Oil and Belts	2,000	\$3,000	0	\$3,150
Bldg V - Co-Gen	Coolant (Completed in 2017) Oil Filters (Air/Oil) Gauges Miscellaneous (Plugs,Coils, etc.)	0 5,000 1,500 1,000 1,000	\$8,500 ⁼	0 5,000 1,500 0 0	\$6,500
Bldg Y - CHP	600 Hour Service Interval (17 Intervals per engine) 1200 Hour Service Interval (6 Intervals per engine) 7500 Hour Service Interval (1 Interval per engine) 12000 Hour Service Interval (1 Interval per engine) Recommended Spare Parts	19,500 6,100 7,200 33,000 10,000	\$75,800 ⁼	19,500 6,100 7,200 33,000 10,000	\$75,800
Bldg Z - SRI	Salt/ Brine Parts Pump Parts/Seals	1,000 3,000	\$4,000 ⁼	500 3,000	\$3,500
Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
GWA Facilities	Miscellaneous Paints/Supplies Replacement Tools Oil Analysis Batteries (Cordless Tools) Hardware Bolts/Nuts/Drills/Taps Parts Repair Shipping Costs (Freight)	500 3,000 500 0 6,000 500		250 3,000 500 1,000 5,000 250	

Portable Pump Hose Replacements	500	200
Vacuum Hose Replacment	500	200
Safety Lane Vehicle Inspections	600	600
Hardware PVC Piping	2,000	2,000
Hardware Galvanized Piping	2,000	1,000
Misc. Valves/Repair Clamps	1,000	1,000
Manhole Repair Parts	500	2,500
Unanticipated Equipment Repair Parts	2,000	2,000
	\$19,600	\$19,500

TOTAL	\$157,600	\$157,825

Glenbard Wastewater Authority CY2019 Equipment Maintenance - Support Budget 270-520976

Building	Designation	CY18 Budgeted	CY19 Budgeting
R	Administration	500	600
S	Maint. Garage	1,300	1,500
Т	CRAS/Electric Shop	0	0
U	Digester	0	0
V	Co-Gen	0	0
	Intermediate Clarifiers	0	0
Υ	Combined Heat & Power	8,000	8,000
	Miscellaneous	15,900	15,700
	Vehicle Maintenance Services	36,200	36,700
	TOTAL	\$61,900	\$62,500

Glenbard Wastewater Authority CY2019 Equipment Maintenance - Support Maintenance 270-520976

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Bldg R - Administration	Washer/Dryer Chemicals	500	\$500	600	\$600
Bldg S - Maintenance Garage	Safety Klean Parts Service Torch Gas Cylinder Lease Miscellaneous	0 800 500	\$1,300	0 1,000 500	\$1,500
Bldg T - CRAS/Electrical Shop	Boiler Repairs Pump Repairs Boiler Certification Inspections	0 0 0	\$0	0 0 0	\$ 0
Bldg U - Digester	Boiler Repairs Boiler Tuneup/Inspection/Cleaning/Repairs Boiler Certification Inspections	0 0 0	\$0	0 0 0	\$ 0
Bldg Y - CHP	Support Services (First Year of Two Years)	8,000	\$8,000	8,000	\$8,000
Designation	Recommendations	CY17 Budgeted	Total	CY18 Budgeting	Total

GWA Facilities

Miscellaneous Certifications/Services				
Overhead Crane Inspection/Repairs	2,700		3,000	
State Boiler/Pressure Vessel Certifications	1,500		2,000	
Elevator Service	1,200		1,000	
Elevator Inspections - Lombard	500		0	
RPZ - Lombard	400		500	
RPZ Inspections	1,800		2,000	
Electric Powered Tool Repairs	400		200	
Oil Recycling	1,500		1,000	
Heavy Equipment Rental	2,500		2,500	
Contracted Crane Service	2,400		2,500	
Unanticipated Contracted Repairs	1,000	:	1,000	
		\$15,900		\$15,700
Vehicle Maintenance Services (VGE)	36,200		36,700	
		\$36,200		\$36,700
TOTAL		\$61,900		\$62,500

Glenbard Wastewater Authority CY2019 Maintenance Electronics Budget Details 270 520980

Building	Designation	CY18 Budgeted	CY19 Budgeting
Α	Bar Screen	3,100	3,000
В	Raw Pumps	8,400	8,300
С	Grit	2,750	2,700
D	Primary Clarifier	500	500
E	Primary Pump	2,650	2,600
F	Unox Deck	3,850	3,800
G	ATAD	550	500
Н	Screw Pump	2,150	2,100
1	Final Clarifier	1,450	1,350
J	Pump/Meter	2,900	2,800
K	Thickener	550	550
L	Sandfilter	2,250	2,200
N	Warehouse	900	800
0	UV	3,000	2,900
Р	Press	4,000	3,900
Q	Cryo	3,500	1,100
R	Administration	3,000	3,000
S	Maint. Garage	1,300	1,300
Т	CRAS	2,200	2,200
U	Digester	4,000	3,800
V	Co-Gen	3,000	2,800
Υ	CHP	4,000	3,800
	Elec. Supplies	10,000	10,000
		\$70,000	\$66,000

Glenbard Wastewater Authority CY2019 Maintenance Electronics Budget Details 270 520980

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Bar Screen	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM Repairs	500		500	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	800		800	
	SCADA System PM/Repairs	800		800	
	Telecommunications PM/Repairs	100		0	
	Bar Screen Total		\$3,100		\$3,000
Raw Pumps	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	2,000		2,000	
	HVAC Equipment PM/Repairs	700		700	
	Instrumentation PM/Repairs	2,000		2,000	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	1,000		1,000	
	Safety Equipment PM/Repairs	200		200	
	SCADA System PM/Repairs	2,000		2,000	
	Telecommunications PM/Repairs	100	_	0	
	Raw Pumps Total		\$8,400		\$8,300

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Grit	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	400		400	
	HVAC Equipment PM/Repairs	300		300	
	Instrumentation PM/Repairs	500		500	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	100		100	
	Safety Equipment PM/Repairs	500		500	
	SCADA System PM/Repairs	500		500	
	Telecommunications PM/Repairs	50		0	
	Grit '	Total	\$2,750 ⁼		\$2,700
Primary Clarifier	Control Panel PM/Repairs	0		0	
	Electrical Distribution PM/Repairs	300		300	
	HVAC Equipment PM/Repairs	0		0	
	Instrumentation PM/Repairs	100		100	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	0		0	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	0		0	
	Primary Clarifier	Total	\$500 ⁼		\$500

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Primary Pump	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	100		100	
	HVAC Equipment PM/Repairs	400		400	
	Instrumentation PM/Repairs	100		100	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	500		500	
	SCADA System PM/Repairs	1,000		1,000	
	Telecommunications PM/Repairs	50		0	
	Primary Pump Total		\$2,650		\$2,600
Unox Deck	Control Panel PM/Repairs	500		500	
	Electrical Distribution PM/Repairs	500		500	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM/Repairs	1,000		1,000	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	1,300		1,300	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	50		0	
	Unox Deck Total		\$3,850		\$3,800

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
ATAD	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	100		100	
	HVAC Equipment PM/Repairs	0		0	
	Instrumentation PM/Repairs	0		0	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	100		100	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	50	_	0	
	ATAD	Total	\$550 ⁻		\$500
Screw Pump	Control Panel PM/Repairs				
	Electrical Distribution PM/Repairs	1,000		1,000	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM/Repairs	200		200	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	500		500	
	Safety Equipment PM/Repairs	100		100	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	50		0	
	Screw Pump	Total	\$2,150		\$2,100

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Final Clarifer	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	500		500	
	HVAC Equipment PM/Repairs	0		0	
	Instrumentation PM/Repairs	250		250	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	200		200	
	Telecommunications PM/Repairs	100		0	
	Final Clarifier Total		\$1,450		\$1,350
Pump and Meter	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	100		100	
	HVAC Equipment PM/Repairs	100		100	
	Instrumentation PM/Repairs	1,000		1,000	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	100		100	
	SCADA System PM/Repairs	1,000		1,000	
	Telecommunications PM/Repairs	100		0	
	Pump and Metering Total		\$2,900		\$2,800

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Thickener	Control Panel PM/Repairs	0		0	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM/Repairs	0		0	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	50		50	
	Motor PM/Repairs	100		100	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	0		0	
	Thickener Total		\$550		\$550
Sandfilter	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM/Repairs	300		300	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	1,000		1,000	
	Telecommunications PM/Repairs	50		0	
	Sandfilter Total		\$2,250		\$2,200

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Warehouse	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	100		100	
	Instrumentation PM/Repairs	0		0	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	100		100	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	100		0	
	Warehouse To	otal	\$900 ⁼		\$800
UV	Control Panel PM/Repairs	1,000		1,000	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM/Repairs	300		300	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	100		100	
	SCADA System PM/Repairs	700		700	
	Telecommunications PM/Repairs	100		0	
	UV To	otal	\$3,000		\$2,900

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Press	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	500		500	
	HVAC Equipment PM/Repairs	500		500	
	Instrumentation PM/Repairs	1,000		1,000	
	LAN PM/Repairs	200		200	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	200		200	
	SCADA System PM/Repairs	1,000		1,000	
	Telecommunications PM/Repairs	100		0	
	Press	Total	\$4,000		\$3,900
Cryo	Control Panel PM/Repairs	200		100	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	100		100	
	Instrumentation PM/Repairs	1,000		0	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	400		200	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	1,000		400	
	Telecommunications PM/Repairs	500		0	
			\$3,500 ⁼		\$1,100

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Administration	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	300		300	
	HVAC Equipment PM/Repairs	300		300	
	Instrumentation PM/Repairs	400		400	
	LAN PM/Repairs	300		300	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	200`		200	
	SCADA System PM/Repairs	500		500	
	Telecommunications PM/Repairs	500		500	
	Administration Total		\$3,000		\$3,000
Maintenance Garage	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM/Repairs	0		0	
	LAN PM/Repairs	200		200	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	100		100	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	200		200	
	Maintenance Garage Total		\$1,300		\$1,300

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
CRAS	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	100		100	
	HVAC Equipment PM/Repairs	100		100	
	Instrumentation PM/Repairs	800		800	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	200		200	
	SCADA System PM/Repairs	200		200	
	Telecommunications PM/Repairs	300		300	
	CRA	S Total	\$2,200		\$2,200
Digester	Control Panel PM/Repairs	300		300	
	Electrical Distribution PM/Repairs	300		300	
	HVAC Equipment PM/Repairs	400		400	
	Instrumentation PM/Repairs	500		500	
	LAN PM/Repairs	200		200	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	500		500	
	Safety Equipment PM/Repairs	500		500	
	SCADA System PM/Repairs	1,000		1,000	
	Telecommunications PM/Repairs	200		0	
	Digesto	er Total	\$4,000		\$3,800

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
СНР	Control Panel PM/Repairs	300		300	
	Electrical Distribution PM/Repairs	300		300	
	HVAC Equipment PM/Repairs	400		400	
	Instrumentation PM/Repairs	500		500	
	LAN PM/Repairs	200		200	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	500		500	
	Safety Equipment PM/Repairs	500		500	
	SCADA System PM/Repairs	1,000		1,000	
	Telecommunications PM/Repairs	200		0	
	Digester Total		\$4,000		\$3,800
Co-Gen	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	300		300	
	HVAC Equipment PM/Repairs	300		300	
	Instrumentation PM/Repairs	800		800	
	LAN PM/Repairs	200		200	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	300		300	
	Safety Equipment PM/Repairs	300		300	
	SCADA System PM/Repairs	300		300	
	Telecommunications PM/Repairs	200		0	
	Co-Gen Total		\$3,000		\$2,800
Electrical Supplies	Conduit, wire, enclosures, fittings, switches,				
	batteries, cleaning supplies, contact cleaners				
	electronic components, Pneumatic Tubing &				
	Fittings Thermal Overloads, fasteners, strut				
	wire, nuts, etc.	10,000		10,000	
	Electrical Total		\$10,000 =		\$10,000
	Grand Total	=	\$70,000	=	\$66,000

Glenbard Wastewater Authority CY2019 Electrical/Electronics - Support Budget 270 520981

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Administration	Network/Communications Consulting	10,000		10,000	
	Maximo CMMS Consulting	10,000		10,000	
	Intellution iFIX Global Support	10,500		10,500	
	Software Support agreement Specter (Win-911)	600		600	
	Software Support Agreements Cisco Smartnet	2,500		1,650	
	Software Support Fortinet Firewall Appliance	0		1,400	
	Software Support Agreement IBM (Maximo)	7,000		8,000	
	Software Support Agreement Rockwell (PLC)	1,500		1,250	
	Software Support Ops Works	5,000		0	
	Software Support Hach WIMS	0		5,000	
	Software Support Agreement TimeTrax (Time Clock)	200		200	
	Software Support Symantec (A/V)	600		600	
	Software Support MS Mail A/V	300		300	
	Software Support Symantec Backup Exec	1,100		1,100	
	Servers Hardware Support	3,500		0	
	Telephone System Support Agreement Midco	0		0	
	Fire/Security Alarm Systems Support Agreement Siemens	11,700		12,000	
	Fire/Security Alarm Systems Testing & Monitoring	3,000		3,000	
	Microsoft Server Select Agreement / Client Select Agreement	4,200		4,200	
	Mozy Pro Offsite Backup Service	1,500		1,000	
	Web Hosting & Support	0		400	
	Software Support Agreement ArcGIS (ESRI)	500		800	
Pretreatment	Linko Annual Software License Fee	6,800		6,800	
Flow Metering	RJN Flow Meter Maintenance/Data Analysis	116,000		122,000	
UV	Effluent Ammonia Analyzer Service Contract	5,400		5,600	
Plant Wide	HVAC Refrigeration Repairs	5,000		5,000	
Co-Generation	Switchgear Bi-Annual PM	0		6,000	
	Protection Relay Bi-Annual Calibration	0		2,500	
			\$206,900)	\$219,900

Glenbard Wastewater Authority CY2019 Operations - Supplies Budget 270 520990

ltem	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Operating Supplies	Operational Supplies				
	Misc. Supplies from Various Vendors	3,400		3,400	
	Yard Hose Replacements	2,500		2,500	
	Primary Clarifier Deordorizer Nozzle Replacements	1,000		1,000	
	Grit Deodorizer Nozzle Replacements	0		200	
	Belt Filter Press Replacement Belts	9,000		7,000	
			\$15,900	<u> </u>	\$14,100

Glenbard Wastewater Authority CY2019 Operations - Support Budget 270 520991

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Plant Wide	Solid Waste / Recycle Waste Disposal	7,000		7,000	
	Wetwell Cleaning	8,000		0	
UV	Recycle Fees	0		0	
			\$15,000	-	\$7,000

Glenbard Wastewater Authority CY2019 Professional Services - Other 270 521055

Designation	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
Administration	Temporary labor services are billed to this account	2,000	2,000		
		<u> </u>	\$2,000	. <u>-</u>	\$4,000

Glenbard Wastewater Authority CY2019 Service Charge Budget 270 521130

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Service Charge	Village of Glen Ellyn Overhead fees	129,300		131,726	
			\$129,300		\$131,726

CY2019 Overhead fees at 1.9% CPI-U Chicago increase

Glenbard Wastewater Authority CY2019 Sludge Disposal - Land App. Budget 270 521150

ltem	Recommendation	CY18 B	udgeted	Total	CY19 Budgeting	Total
Sludge Disposal	Trucking fees for Sludge Removal		220,000		195,000	
					_	
		Total		\$220,000		\$195,000

Glenbard Wastewater Authority CY2019 Telecomm Budget 270 521195

Recommendations	CY18 Budgeted Total		CY19 Budgeting	Total
Call One - Admin	15,000		15,000	
Main Phone Lines (1901, 1902, 1903, 1904)				
Hunt Group (1960, 1974, 1975, 1995, 1996)				
SCADA WIN-911 on SCADA 1 & 2 (0958, 0689)				
Fax Line (8119)				
Dedicated Elevator (1486), CSO (2560)				
Brokered Nat. Gas Meter Reader (0407)				
V.V. Lift Station (1242), St.Char. Lift Station (1247)				
Cell Phone Reimbursements (Matt, Asst. Director, Dave P.	1,200		1,800	
AT&T - E-991 DID #'s	2,100		2,200	
Comcast Internet - Primary ISP	2,400		2,700	
AT&T Internet - Secondary ISP (U-Verse)	1,500		1,300	
Verizon Cellular Service - Phones, tablets	5,600		5,800	
Verizon Cellular Service - RTU Radio Network	2,900		3,000	
Comcast - Cable Service	700	.	0	
_		\$31,400		\$31,800

Glenbard Wastewater Authority CY2019 Electrical Power Budget 270 521201

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Electrical Power	Fees for Purchase of Electric Power & ComEd Delivery Services	435,000		400,000	
			\$435,000		\$400,000

Glenbard Wastewater Authority CY2019 Natural Gas - Brokered - Budget 270 521202

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Nat. Gas - Brokered	Fees for Direct and Brokered purchase of Natural Gas	45,000		60,000	
			\$45,000		\$60,000

Glenbard Wastewater Authority CY2019 Water Budget 270 521203

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Water	Fees for Purchase of Potable Water - Village of Glen Ellyn	20,000		25,000	
			\$20,000		\$25,000

Glenbard Wastewater Authority CY2019 Co-Gen Natural Gas Budget 270 521204

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Natural Gas	Fees for Purchase of Natural Gas (Co-Generation Unit)	6,000		6,000	
		<u></u>	\$6,000		\$6,000

Glenbard Wastewater Authority CY2019 Office Supplies Budget 270 530100

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Office Supplies	Supplies for Administrative Management	10,000		10,000	
	functions (I.e. Office Supplies, Federal Express,				
	UPS, printer/fax, copier supplies, printing)				
	Minolta Bus. Sys. Support (copy machine)	5,000		2,000	
	Postage Meter Rental/Postage	2,000		1,500	
	Coffee Machine Services/Supplies	3,000		3,000	
	Tot	al			
			\$20,000	=	\$16,500

Glenbard Wastewater Authority CY2019 Laboratory Supplies Budget 270 530106

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Laboratory Supplies	Laboratory Consumables and Glassware	20,000		20,000	
		=	\$20,000	<u>=</u>	\$20,000

Glenbard Wastewater Authority CY2019 Pretreatment Supplies Budget 270 530107

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Pretreatment Supplies	Sampling, Dyes, Test Kits, Tools	1,000		1,000	
Public Outreach	Flyers/Brochures/Artwork/Magnets	1,000		0	
Testing	Annual Local Limit Baseline Testing	3,500		3,500	
			\$5,500		\$4,500

Glenbard Wastewater Authority CY2019 Administrative Purchasing Budget 270 530200

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Administrative	Admin Vehicle Care	500		0	
	Ipass Charges	1,000		0	
Purchasing	Aerial Photography	1,000		0	
	Celebrating Success	1,000		0	
	Office Decorations	0		500	
		Total		_	
		<u></u>	\$3,500		\$500

Glenbard Wastewater Authority CY2019 Safety Budget 270 530225

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Admin	Portable Gas Detection Meter Cal Gas	1,200		1,200	
	Portable Gas Detection Meter Repair/Replacement	2,500		2,500	
	Confined Space Equip. Repairs/Replacement	1,200		1,200	
	Safety shoes (\$200 max. allowance)	3,500		3,800	
	Cintas (First Aid Kit Supplies)	1,000		3,300	
	Safety Supplies	1,500		1,500	
	Safety Program Consultations & Training	3,000		3,000	
	Safety Suggestiong Awards (monthly gift cards + Safety sug)	2,500		0	
	Site Safety and Signage	500		1,000	
	Total		\$16,900		\$17,500

Glenbard Wastewater Authority CY2019 Chemical Supplies Budget 270 530440

ltem	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Treatment Costs	Chemicals that are utilized through daily operation. Polymer, odor control, struvite control, acid wash, and odor control chemicals	65,000		80,000	
	*Hypo Chlorite for Non-Potable Water System Odor Management Odor Chemicals High PSI - Sludgehammer - Press Bldg. Cleaning Polydyne - Polymer Schaners - Struvite Control Unison - Soda Ash for pH balance in CHP Hydrogen Sulfide Tank			10,000	
	Childrin Codd / Or 101 pri Salando in Orin Trydrogon Gainde Taink		\$65,000		\$90,000

^{*} New process, quantity is estimated.

Glenbard Wastewater Authority CY2019 Liquid Oxygen Supply Budget 270 530443

Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Cryo	Liquid Oxygen	325,000		345,000	
	-		\$325.000		\$345.000

Glenbard Wastewater Authority CY2019 Uniforms Budget 270 530445

Item	Recommendation		CY18 Budgeted	Total	CY19 Budgeting	Total
Uniforms	Uniform Replacements		5,000		5,000	
		Total	=	\$5,000	=	\$5,000

270-1 STORMWATER PLANT and Hill AVENUE LIFT STATION O&M NARRATIVE

The Glenbard Wastewater Authority Stormwater Plant is only utilized for operation during excess flow events. The Stormwater Plant is capable of processing 58 MGD of combined sewer flow.

The Hill Avenue Lift Station is also an integrated part of the Stormwater Plant. The lift station conveys flow to the plant as a result of flows greater than 2.5 times average daily flows through the Hill Avenue Regulator. The lift station only operates during wet weather events as part of the system that protects the Glenbard Plant from excessive high flow situations created in part by the combined sewers in the northern section of the Village of Lombard.

EXPENSES

Budget CY2019 Operations & Maintenance

Division 270-1	Actual	Budgeted	Estimated	Budgeting	% Difference	\$ Difference
Stormwater Plant & Hill Avenue Lift Station	CY2017	CY2018	CY2018	CY2019	CY18-CY19	CY18-CY19
Operations & Maintenance						
520775 Regulatory Fees	20,000	21,000	20,000	20,000	-4.8%	(1,000)
520970 Maint Bldgs. & Grnds. / Support	10,009	12,000	17,562	12,200	1.7%	200
520975 Maint Equipment	4,437	5,200	1,488	5,400	3.8%	200
520980 Maint Electronics	0	4,000	3,630	4,000	0.0%	0
521201 Electric Power	33,664	40,000	34,809	40,000	0.0%	0
521202 Natural Gas	2,837	4,500	4,124	4,500	0.0%	0
521203 Water	3,246	5,500	3,597	5,500	0.0%	0
530105 Operations Supplies	435	500	400	500	0.0%	0
Commodities						0
530440 Chemicals	44,846	50,000	43,765	50,000	0.0%	0
Total 270-1	119,473	142,700	129,375	142,100	-0.4%	(600)

Glenbard Wastewater Authority CY2019 Budget - 270-1 - Stormwater Plant & Hill Avenue Lift Station

	Item	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
520775	IEPA Regulatory Fees		21,000		20,000	
			-	\$21,000	=	\$20,000
520970	Building/Grounds	Misc. Repairs	2,500		2,500	
		Sidewalk Repairs	0		500	
	Bldg/Grnds - Support	Door/Lock/Window Repairs	500		500	
		Landscape Maintenance	6,700		6,700	
		Pest Control	100		100	
		Fire Extinguisher Service/Repairs	100		100	
		Tru-Green Chemlawn	800		800	
		Roof Inspection	300		500	
		Roof Repairs	500		500	
		Sidewalk Repairs	500		0	
				\$12,000		\$12,200
520975	Maintenance	Unanticipated Equipment Repairs	500		500	
		Hill Avenue Submersible Pump Service	1,000		1,000	
		Grease/Oil/Belts	2,500		2,500	
		Riparian Maintenance	700		700	
		Peristaltic Pump Replacement Hose	500		500	
	Equipment - Support	Unanticipated Equipment Repairs	0		0	
		Underground Locates	0		0	
		RPZ Inspections	0		200	
				\$5,200	_	\$5,400

Glenbard Wastewater Authority CY2019 Budget - 270-1 - Stormwater Plant & Hill Avenue Lift Station- (Continued)

	ltem	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
520980	Elect. Maintenance	Control Panel PM/Repairs	200		200	
		Electrical Distribution PM/Repairs	1,200		1,200	
		HVAC Equipment PM/Repairs	300		300	
		Instrumentation PM/Repairs	800		800	
		LAN PM/Repair	0		0	
		Lighting Equipment PM/Repairs	200		200	
		Motor PM/Repairs	500		500	
		Safety Equipment PM/Repairs	0		0	
		SCADA System PM/Repairs	500		500	
		Telecommunications PM/Repairs	300		300_	
			_	\$4,000	_	\$4,000
521201	Electricity			\$40,000		\$40,000
521202	Natural Gas	Building Heaters		\$4,500		\$4,500
521203	Water	Hosing, Lab, Chlor/DeChlor carrying water		\$5,500		\$5,500
530105	Operations	Replacement Tools and Yard Hose	500		500	
				\$500		\$500
530440	Chemicals	Hypochlorite / Sodium Thiosulfate		\$50,000		\$50,000
		Total 270-		\$142,700		\$142,100

270-2 NORTH REGIONAL INTERCEPTOR and ST. CHARLES RD. LIFT STATION O&M NARRATIVE

The North Regional Interceptor (NRI) begins at the St. Charles Lift Station located next to Ackerman Park in Glen Ellyn. An 18" diameter force main exits the lift station and runs east down St. Charles Road to the I-355 Tollway, where the sewer turns south and becomes a gravity sewer. From there the NRI runs south 4.5 miles to the Glenbard Plant. The diameter of the NRI changes from 18" to 66" as collection systems from both member Villages enter and add more flow. Glen Ellyn has five connections to the NRI and Lombard has four. Three of the Lombard connections are from combined sewers. The three combined sewers have "regulators" before they enter the NRI. The purpose of these regulators is to limit the amount of storm water that is treated at the Glenbard Plant. This is done by diverting any flow above 2.5 times the average dry weather flow to the Stormwater Plant. These regulators were converted to Vortex Regulators as part of the Stormwater Plant upgrade in 2002.

The St. Charles Road Lift Station receives flow from the Village of Glen Ellyn and the DuPage County sanitary sewer systems. Flows range from 2 million gallons per day (MGD) to 10 MGD due to Inflow and Infiltration (I&I). The new lift station has been designed to operate cost effectively at low and high flow conditions utilizing variable speed drives. These drives control the speed of the pumps versus the previous method of on/off cycling of the pumps. The lift station also has redundant back-up power provided by onsite generation.

Budget CY2019

EXPENSES

Operations & Maintenance

270-2 NRI / St. Charl	es Road L.S.	Actual CY2017	Budgeted CY2018	Estimated CY2018	Budgeting CY2019
St. Charles Ro	I. Lift Station				
520970 SC	Maint Bldg. & Grnds.	49	400	139	450
520975 SC	Maint - Equipment	1,261	9,000	2,446	9,000
520980 SC	Maint Electronics	2,824	3,000	4,211	3,000
521201 SC	Electric Power	16,513	21,000	18,215	20,000
	Total	20,647	33,400	25,010	32,450
North Regiona	al Interceptor				
520970 NRI	Maint Piping & Grnds.	0	500	0	500
	Total	0	500	0	500
	Total 270-2	20,647	33,900	25,010	32,950

Glenbard Wastewater Authority CY2019 Budget - 270-2 NRI / St. Charles Rd. L.S.

	Item	Recommendations	CY18 Budgeted	Total	CY19 Budgeting	Total
St. Charles L.S.						
520970 SC	Bldg and Grounds	Miscellaneous	150		150	
	9	Annual RPZ Certification	100		150	
		Annual Fire System Certification	150		150	
		·		\$400		\$450
520975 SC	Maint. Equip.					
		Misc Parts/Oils (Post Warranty)	1,500		1,500	
		Submersible Pumps Annual Maintenance	6,000		6,000	
		Generator Service	1,500		1,500	
				\$9,000		\$9,000
520980 SC	Maintenance Electronics	Control Panel PM/Repairs	200		200	
020000 00	Wanterlande Electronics	Electrical Distribution PM/Repairs	400		400	
		HVAC Equipment PM/Repairs	200		200	
		Instrumentation PM/Repairs	500		500	
		Lighting Equipment PM/Repairs	100		100	
		Misc Spare Parts	500		500	
		Motor PM/Repairs	200		200	
		SCADA System PM/Repairs	800		800	
		Telecommunications PM/Repairs	100		100	
		•	=	\$3,000	=	\$3,000
521201 SC	Electric Power		21,000		20,000	
		-		\$21,000	, <u> </u>	\$20,000
NRI						
520970 NRI	Maint Piping and Grounds	Misc. repairs to the exposed manholes	500		500	
0_00.0	mann iping and crounds	Cleaning & Televising Sewer	0		0	
		<u> </u>	-	500		\$500
		Total 270-2		\$33,900		\$32,950

270-3 SOUTH REGIONAL INTERCEPTOR and VALLEY VIEW LIFT STATION O&M NARRATIVE

The South Regional Interceptor (SRI) begins at the Valley View Lift Station which conveys flow approximately 1.0 mile before it becomes a .5 mile gravity sewer that flows into the SRI Pump Station. Through the 1.5 miles the pipe diameter changes from 18" to 30" as three additional sewers enter the SRI. The SRI Pump Station pumps the wastewater a short distance to a junction chamber for the NRI, SRI and 22nd Street flow. The junction chamber combines the three (3) interceptor pipes and conveys the flow through a 60" sewer line to the Glenbard Plant. The wastewater in the SRI is exclusively from collection systems operated and maintained by Illinois-American Water, a private utility company regulated by the Illinois Commerce Commission. Glenbard provides wastewater treatment for Illinois-American Water, who pays a user charge for this service to the Village of Glen Ellyn. This responsibility was acquired by the Village of Glen Ellyn as the Agency" for the Glenbard Wastewater Authority per "Operating Intergovernmental Agreement. This limits the partners of the Glenbard Wastewater Authority to the Village of Glen Ellyn and the Village of Lombard.

The Valley View Lift Station was completely rebuilt during short year 2014 and a portion of calendar year 2015. The project included building a new wet well, valve vault, emergency by-pass pumping capabilities, a new control building that includes a control room, a new generator, and a utility closet. The project also addressed stormwater retention, low cost site maintenance, and site security. The total project cost for the station was \$1,945,190 which is \$32,622 less than the bid award. This project was designed and built with budgeted Capital Improvements Funds.

Budget CY2019

EXPENSES

Operations & Maintenance

270-3		Actual	Budgeted	Estimated	Budgeting
SRI / Valley V	iew L.S.	CY2017	CY2018	CY2018	CY2019
Valley View L	ift Station				
520970 VV	Bldg. & Grnds. Support	49	700	139	700
520975 VV	Maint Equipment	697	5,000	739	5,000
520980 VV	Maint Electronics	1,128	1,000	0	1,000
521201 VV	Electric Power	9,322	13,000	9,626	13,000
521203 VV	Water	1,508	2,000	1,498	2,000
	Total	12,703	21,700	12,001	21,700
South Region	al Interceptor				
520970	Maint Piping & Grnds.	0	500	0	500
	Total	0	500	0	500
	Total 270-3	12,703	22,200	12,001	22,200

Glenbard Wastewater Authority CY2019 Budget - 270-3 - SRI / Valley View L.S.

DESIGNATION	Item	Recommendation	CY18 Budgeted	Total	CY19 Budgeting	Total
Valley View Lift Station						
520970 VV	Bldg./Grnds - Support	Miscellaneous Annual RPZ Certification	500 200_		500 200_	
520975 VV	Maint. Equip.			\$700		\$700
320973 VV	імант. Ециір.	Misc Parts/Oils (Post Warranty) Pump Maintenance Generator Service	1,500 2,000 1,500		1,500 2,000 1,500	
		-	· =	\$5,000	· -	\$5,000
520980 VV 521201 VV	Maint, Electronics Electricity	Control Panel PM/Repairs Electrical Distribution PM/Repairs HVAC Equipment PM/Repairs Instrumentation PM/Repairs LAN PM/Repairs Lighting Equipment PM/Repairs Motor PM/Repairs SCADA System PM/Repairs Telecommunications PM/Repairs	100 100 100 200 100 100 100 100	\$1,000 \$13,000	100 100 100 200 100 100 100 100	\$1,000 \$13,000
	•					
521203 VV	Water			\$2,000		\$2,000
SRI 520970 SRI	Maint Piping and Grounds	Misc. repairs to the exposed manholes Cleaning & Televising Sewers	500 0	\$500	500 0	\$500
		Total 270-3		\$22,200		\$22,200

Capital

GLENBARD WASTEWATER AUTHORITY FUND 40 CAPITAL PLAN

	ote													
REVENUE in Thousands \$] bg	CY(2018)	CY(2019)				CY(2023)							
	<u> </u>		Budgeting		Planning	Planning	Planning		Planning	Planning	Planning	Planning	Planning	Planning
Proceeds from Borrowing		7200 12	2500 15		10	10	6500	8000 10	10	10) 10	10	10	20
Investment Income Glen Ellyn Conn Fees		50			25			25	<u> </u>	+	_			20 25
Lombard Conn Fees		34	40		25	+		25	25	+			+	25
Demand Response Program		36			26	 		20	20		, 20	1 20		
Leachate Revenue	2	126.7	120		117			117	117	117	117	117	117	117
Fats Oil & Grease (FOG) / Industrial Waste Tipping Fees		20	50	75	75	75	75	75	75	75	75	75	75	75
Cell Tower Revenue	3	53.73	53	55	58	60	62	65	67	70	73	76	79	79
Operating Surplus Transfers	4	159	0											
Pretreatment Fines		0	0								10			
Misc. Revenue		6	10		10			10						10
Capital Fund Contribution - Glen Ellyn		1653 1847			1623	 		1672	 	+	_		+	1775
Capital Fund Contribution	5	3500	1899 3535		1983 3606	<u> </u>		2043 3715		+			-	2169 3944
Total Capital Fund Contribution TOTAL REVENUE		11197	6398		3952			12042		4122		-		4295
TOTAL KLVLNOL	1	11197	0390	3913	3932	3991	10330	12042	4001	4122	4103	4204	4240	4233
EXPENSES in Thousands \$		CY(2018)	CY(2019)	CY(2020)	CY(2021)	CY(2022)	CY(2023)	CY(2024)	CY(2025)	CY(2026)	CY(2027)	CY(2028)	CY(2029)	CY(2030)
Debt Service Payments:		_ ` /	, ,				Planning							
Ana Digester Project Debt Payment (P&I)	6	637	637		637	637		637	319		3	<u> </u>		<u> </u>
FIP Debt Payment Actual (P&I)				497	995	+			+	995		995	996	996
Bio P Debt Payment Scheduled (P&I)									969	969	969	969	969	969
Debt Service Payment Subtotal		637	637	1134	1632	1632	1632	1632	2283	1964	1964	1964	1965	1965
Dobt Comics Outstatel	1			445	4000		1 4555	4000		100	1 466	122	100	100-
Debt Service Subtotal		637	637	1134	1632	1632	1632	1632	2283	1964	1964	1964	1965	1965
		1										 		
Capital Improvements		1								-		+	+	
Property Acquisition - DCFPD NRI Easement Purchase		169	150									+	+	
Capital Improvement Projects		109	130			<u> </u>						+		
Vehicle and Equipment Replacement	7	40	n	64	126	71	184	248	137	141	130	130	130	130
Small Capital Projects	8	96.982			100		1 1	100	+	+				100
Infrastructure Improvements	9	108.557			300	 		300	-					300
Roof Replacements - Updated based on Repl. Schedule	10	142.27	144	349	43	172	. 0	0	97	149	175	65	50	34
Plant Equipment Rehabilitation	11	510.415	310	300	300	300	300	300	300	300	300	300	300	300
Cryo Maintenance/Atomospheric Vaporizer Lease		20		20	20	25	25	25						
Facility Plan	12	59						150				<u> </u>	175	
Odor Control Study	10	29												
DuPage River Salt Creek Work Group	13	150 179	265	273	281	289	\							
Assessment Cost for Watershed Projects Odor Control Capital Improvement	15	159.478	200	250	201	269	1				1		+	
Facility Improvements Project	16			230										
Engineering	10	123	120								1			
Construction/(IEPA Loan)		7200												
Sludge Lagoon Cleanout														
North Sludge Lagoon														
South Sludge Lagoon				200										
Bemis Road and Administrative Parking Lot Improvements					400							<u> </u>		
Electric Service Distribution System Rehabilitation Project	17		100									<u> </u>		
Engineering		145.5												
Construction Admin Building HVAC Construction			2500 1000									+	+ +	
Admin Building HVAC Construction Biological Phosphorus Removal			1000									+	1	
Studies & Reports				200								+		
Engineering				200	750	750							†	
Construction						L	6500	8000			<u> </u>			
Grit Building MCC Replacement														
Engineering						29								
Construction						221								
PLC Replacements - Campus Wide														
Purchase & Installation Piosolide Downtoring Equipment Poplacement / Covered Storage					1600									
Biosolids Dewatering Equipment Replacement / Covered Storage				603								+		
Engineering Construction		1		603	2000								+	
Stormwater Plant Barscreen & Grit Collection System Upgrade					2000							+		
Engineering										532	2		†	
Construction											2200	2200		
Anticipated Future Projects per the 20 Year 2013 Facility Plan.														
O&M Manual Updates											380			
Primary Waste Activated Sludge Thickening											1600			
Liquid Biosolids Storage Improvements											1100	1		
												+		
Project Total		8634	8236	2659	5920	2257	7409	9123	934	1522	6285	3095	1055	864
. roject rotar	+	0034	0230	2009	3320	2231	7409	3123	304	1022	. 0200	3090	1000	004
IFT/DEBT SERVICES / PROJ TOTAL	+	9440	9023	3793	7552	3889	9041	10755	3217	3486	8249	5059	3020	2829
IFI/DEDI		+	5525	5,55	. 552	 		. 57 55	<u> </u>	1	1 32.13	 	3320	
IFT/DEBT SERVICES / PROJ TOTAL													•	
Cash on Hand 1/1		4130	5887	3262	3382	(218)	(115)	1373	2660	3525	4161	75	(780)	446
		4130 1757	5887 (2625)	3262 120	3382 (3600)	, ,	(115) 1489	1373 1287	2660 864	3525 636			` '	446 1466

Improvements Removed Due to Planned Decommissioning of the Production Plant and eventual conversion to a Biological Phosphorus Removal Facility

~ UNOX Deck Control Improvements - \$395,000

~ Final Unox Stage Modifications - \$234,000

~ Cryo Building MCC and PLC Replacements - \$306,000

~ Intermediate Pump Station Modifications - Included in the BPR Project - \$1,500,000

~ Chemical Phosphorus Removal - Not needed due to the BPR Project - \$761,000

**TOTAL REDUCTIONS OR OFFSETS IN CAPITAL SPENDING*

\$395,000

\$234,000

\$306,000

\$1,500,000

\$761,000

\$3,196,000

2806

(894)

CY2019 FUND 40 CAPITAL FOOTNOTES

(1) Proceeds From Borrowing (\$2,500,000):

This line item depicts the borrowing needs for CY2019 necessary to fund the Facility Improvements Project (FIP). The total amount being requested to borrow between CY2017 and CY2019 is \$16,725,000. The total estimated 20-year Debt payment scheduled to begin in CY2020 for the FIP is \$19,924,327.

(2) Leachate Revenue (\$120,000):

We have extended the contract to Waste Management to include delivering up to 42,000 gallons per day, five days per week at \$0.025/gallon. The Authority has been averaging 21,000 gallons per day which equates to approximately \$140,000/year in additional revenue. There are a couple reasons to leave a conservative number in for this item; if for any reason the leachate has any ill effects on the treatment process, Waste Management will halt all deliveries until the process recuperates. Also, leachate flow is heavily dependent on rainfall, so if less than average precipitation amounts are experienced, there will be a decrease in leachate revenue.

(3) <u>Cell Tower Revenue (\$53,000):</u>

In CY2016 the Authority and the Village of Glen Ellyn negotiated with TowerCo to build a new tower capable of accepting up to four carriers. The new tower was built in CY2017, and added Verizon as a carrier, therefore adding our anticipated revenue from leasing the land for the cellular tower. The Authority has estimated approximately \$53,000 in revenue for this lease in CY2018. This could be increased if additional carriers sign onto the tower

(4) Operating Surplus Transfers (\$159,000):

The EOC approved the audit reported CY2017 O&M surplus to be transferred to the Capital Fund 40 at the June 14, 2018 meeting. Originally, specific instructions for use of the transfer were approved by the EOC, however due to increased costs related to the FIP these funds were no longer designated to be set aside.

(5) Capital Fund Contributions (\$3,535,000):

The Capital Improvement Fund 40 relies on dedicated contributions from both communities to support GWA capital expenses. Based on Facility Planning efforts during FY2013 and FY2014 the Capital Fund 40 will be increased annually based on project demands for an estimated 20 years.

The current rate of increase for the Capital Fund is calculated at 1% annually which is a 1% increase compared to CY2016 & CY2017.

(6) Anaerobic Digester Improvement Project Debt Payment (\$637,000): This is the principal and interest payment for the IEPA Loan utilized for the 2007-2013 installation of a new 80' digester at the Glenbard Plant. Also included in this project was some cleanup work from the BIP Project. The amount of the loan was \$7,543,026 to be paid back over fifteen (15) years at an interest rate of 2.5%. Substantial completion was awarded near the end of FY2011. Final Completion of the Anaerobic Digester Project was awarded in November 2013.

(7) Rolling Stock (\$0):

GWA has no anticipated replacement of rolling stock for CY2019

(8) Small Capital Improvements (\$165,000):

This cost center provides for small capital improvements. A few of the planned improvements for CY2019 are listed below:

Thermal Imaging Camera	\$15,000
Grinder Exchange Program	\$20,000
Screw Pump – Lower Bearing Replacement	\$10,000
Electrical Combined Heat & Power Spare Parts	\$10,000
Mechanical Combined Heat & Power Spare parts	\$10,000
Dewatering Truck Bay Overhead Door Replacement	\$15,000
Overhead Door Safety Bumper Replacement	\$30,000
PVC Stock	\$5,000
Metal Stock	\$5,000

(9) <u>Infrastructure Improvements (\$112,000):</u>

This cost center provides for various infrastructure improvements throughout the GWA Facilities. A few of the planned projects for CY2019 are listed below:

Plant Fiber Testing and Repairs	\$30,000
Dewatering Building Rooftop AC/Heater Replacement	\$50,000
Roof Replacement Consulting	\$7,000
High Strength Waste Improvements/Modifications	\$25,000

(10) Roof Replacements (\$144,000):

This year GWA will be performing minor roofing replacements at the Glenbard Plant while we evaluate the updated plan for future needs.

(11) Plant Equipment Rehabilitation (\$310,000):

This cost center provides for various equipment rehabilitations throughout the GWA Facilities. The planned projects for CY2018 are listed below:

Year Two of Three Year Plan to televise and inventory our interceptor	ors \$100,000
Siloxane and Hydrogen Sulfide Media Replacement	\$50,000

Moyno Pumps Spare Parts	\$25,000
Gravity Thickener Mechanism and Bridge Painting	\$40,000
SRI Pump Station Concrete Lining System	\$50,000

(12) Facility Improvements Plan

GWA conducted an equipment related study that will be during CY2018 to identify the GWA needs for the future. The Facility Plan is addressing the needs for repair, upgrades, or replacement pertaining to aging infrastructure and more stringent regulations that would require different types of processes. A significant focus of last year's Facility Plan was to identify any odor control solutions that could be implemented, and their associated costs. The Authority updates its Facility Plan about every 5 years in order to stay current with it's needs to the future, as well as to make sure the anticipated projects stay eligible for State Revolving Loan funds.

(13) DuPage River Salt Creek Work Group (\$265,000):

The project initiatives that the East / West Branch DuPage River & Salt Creek watersheds are providing to the IEPA are imperative to the impacts of the nutrient standards relating to point source dischargers. The work group has been recognized by the IEPA as a leader in developing remediation to stream standards particularly relating to habitat improvements. The work group believes that stream remediation is the path to healthier streams and rivers versus the implementation of overly stringent nutrient discharge limits for phosphorus and total nitrogen. Educating communities about chloride utilization, storm water best management practices, and the discontinued use of coal tar sealants have also been important functions provided by this group. The IEPA has granted the Authority with first of two potential permit cycles (10) years without impending NPDES limits for phosphorus. If the Authority fails to support the assessed fees as agreed to per the commitment agreement with the DRSCWG we may be facing a phosphorus limit as low as .1 mg/l versus a 1.0 mg/l

(14) Odor Control Capital Improvement (\$250,000):

Due to continuing odor issues with neighbors adjacent to the main plant, funds are being inserted into the Capital plan for a larger scale odor control improvement, which will be identified in the Facility Plan

(15) Facility Improvements Project (FIP) (\$3,620,000):

The FIP project had been awarded to Boller Construction Company of Waukegan, IL in the amount of \$16,725,000 and focuses on the aging infrastructure of our Influent Pumping Station, Sand Filters and underground utility replacements of natural gas and non-potable water

lines. The majority of all of these systems are approximately 17 years old with some of the components being original 1977 equipment. The most recent improvement to all of this was to the influent gates for the barscreen and raw pumping station which were replaced in the early 2000's. The main focus at the influent pumping station is to replace the Raw Pumps, Variable Frequency Drives, Motor Control Centers, and Hydraulic Actuators. The station will be updated with pumps that will be able to reduce impacts to the interceptor sewers during high flow events due to their high head loss suction capabilities. The Sand Filters are being replaced with what is called a disk filter in an effort to remove significant recycles flows, and mechanical maintenance demands. Due to recent complications, the overall project cost is now at \$17,701,258,83, and expected to be complete in November 2019

(16) <u>Electric Service Distribution System Rehabilitation Project</u> (\$2,600,000):

Due to recent electrical failures this project had been moved up to be constructed in CY2019. This was identified in our previous 5-year capital project plan in the Facility Plan as being needed. A RFQ/RFP process selected an engineer in CY2018 to perform the design and engineering. This project will be bid in early CY2019 and is anticipated to be \$2.5M with \$100k in construction engineering fees.

The electrical power distribution system is served from a single connection to the local electric utility's distribution system. In the event of loss of utility supply, three on-site 800 kW natural gas generators can produce ample power to serve the facility. The facility has two medium voltage underground distribution circuits, and either circuit can be used to serve all critical plant loads-from the utility or from the generators. However, the two underground circuits share common duct banks and common manholes. Thus, a single event could cause failure of both underground circuits. Alternatives to mitigate these single points of failure will be considered in the analyses. While all the critical plant loads are connected to both medium voltage underground distribution circuits, the Main Cryogenic Compressor and the Administration Building do not have redundant step-down transformers. Thus, a single failure of the step-down transformer to these loads will result in loss of critical power. Alternatives for a redundant transformer or back-up 480 V supply to these two critical loads will be addressed in the analyses. A previous power system study has identified that the protective devices in the supply to the Sludge Dewatering Building and the Digester Building are not appropriately rated to interrupt a worst-case short-circuit event. Appropriate equipment replacement will be addressed in the analyses. As part of the facility's existing maintenance and testing plan, plant staff periodically performs cable testing on the distribution network. The cables being tested must be isolated from the system prior to testing, and the act of cable disconnection (determination) is very time-consuming. Plant staff have expressed an interest in adding disconnect switches to specific circuits to reduce man-hours required to perform the cable testing. Alternatives for more efficient cable testing will be developed in the analyses. The site lighting is aging and appears to be corroding. Replacement of the site lighting will be included in this scope. Any potential incentives or grant funding related to the site lighting or other electrical work shall be explored as well.

	Estimated CY2018	Budgeting CY2019
PROCEEDS FROM BORROWING	7,200,000	2,500,000
INVESTMENT INCOME	12,000	15,000
CONNECTION FEES - GLEN ELLYN	50,000	50,000
CONNECTION FEES - LOMBARD	34,000	40,000
ENERNOC DEMAND RESPONSE PROGRAM	36,000	25,000
LEACHATE REVENUE	126,700	120,000
FATS OIL & GREASE (FOG) / INDUSTRIAL WASTE TIPPING FEES	20,000	50,000
CELL TOWER REVENUE	53,730	53,000
OPERATING SURPLUS TRANSFERS	159,419	0
PRETREATMENT FINES	0	0
MISCELLANEOUS REVENUE	5,500	1,000
EQUIPMENT REPLACEMENT FUND		
GLEN ELLYN - 46.28%	1,652,875	1,635,998
LOMBARD - 53.72%	1,847,125	1,899,002
REVENUES TOTAL:	11,197,349	6,389,000
PRINCIPAL & INTEREST:		
IEPA DIGESTER PRINCIPAL	532,011	545,395
IEPA DIGESTER INTEREST	104,990	91,607
PRINCIPAL & INTEREST TOTALS:	637,001	637,001
CAPITAL IMPROVEMENTS		
PROPERTY ACQUISITION		
SPENT/ESTIMATED TO SPEND	169,000	150,000
CAPITAL IMPROVEMENT PROJECTS		
VEHICLE AND EQUIPMENT REPLACEMENT	40,089	0
SMALL CAPITAL PROJECTS	96,982	165,000
INFRASTRUCTURE UPGRADES	108,557	112,000
ROOF REPLACEMENTS	142,270	144,000
PLANT EQUIPMENT REHABILITATION	510,415	310,000
CRYO MAINTENANCE/ATMOSPHERIC VAPORIZER PURCHASE OR LEASE	20,000	20,000
FACILITIES PLAN UPDATE/ODOR CONTROL STUDY	88,300	C
ADMINISTRATION BUILDING HVAC REHABILITATION CONSTRUCTION/ENGINEERING	0	1,000,000
DUPAGE RIVER SALT CREEK WORKGROUP ASSESSMENT	159,478	265,000
FACILITY IMPROVEMENTS PROJECT	7,200,000	3,500,000
ELECTRIC SERVICE DISTRIBUTION SYSTEM REHABILITATION PROJECT CON. ENG		100,000
ELECTRIC SERVICE DISTRIBUTION SYSTEM REHABILITATION PROJECT	145,500	2,500,000
CAPITAL IMPROVEMENTS TOTALS:	8,511,591	8,116,000
PRINCIPAL & INTEREST / CAPITAL IMPROVEMENTS TOTALS	9,317,592	8,903,001

Glenbard Wastewater Authority CY2019 Small Capital Improvement 40 580120

Designation	Recommendations	CY18 Budgeted	CY19 Budgeting
Administrative	Miscellaneous Office Furniture Upgrades	4,000	4,000
	Health & Wellness- Exercise Equipment Upgrades	2,000	2,000
Electronics	Software Upgrades (OS & Application)	5,000	5,000
	Dewatering Main Exhaust Fan Service	5,000	0
	Workstation Replacements SCADA & LAN	5,000	5,000
	MSA Combustible Gas Detector Sensor Replacement		5,000
	Thermal Imaging Camera		15,000
	Generator Battery Replacement		10,000
Glenbard Plant	Grinder Exchange Program	20,000	20,000
	Dewatering Truck Bay N OH Door & Operator Replacement		15,000
	OH Door Safety Bumper Replacement in-kind or w/Photo-eyes		30,000
	Metal Stock and Metal for Various Projects	5,000	5,000
	PVC Pipe, Fittings and Valves	10,000	5,000
	PRV Covers	4,000	4,000
	Combined Heat & Power Spare Parts	10,000	10,000
	BFP Screw Conveyors & Liner Parts	10,000	0
	Screw Pump - Lower Bearing Replacement	10,000	10,000
	Hot Tank - Tool/Parts Cleaning System	5,000	0
	Berm Reduction/Landscaping at 940 Bemis	0	7,000
	Property Boundary Landscape Clearing/Improvements	0	7,000
CSO Plant	Flygt Pump Replacements - Total of 2	10,000	0
Laboratory	Final Clarifier Sampler Replacement	9,000	6,000
	New Fecal Water Bath	5,000	0
	Grand Total	al \$119,000	\$165,000

Glenbard Wastewater Authority CY2019 Infrastructure Improvement 40 580140

Designation	Recommendations	CY18 Budgeted	CY19 Budgeting
Electronics	UV Building AHU Replacement	40,000	0
	Co-Gen Rooftop AC/Heater Replacment	20,000	0
	SCADA & LAN Server, Firewall Replacement	80,000	0
	Plant Fiber Testing/Repairs & Patch Panel Replacement at PP-U (3 rows of 8)	30,000	30,000
	Dewatering Building GBT Room & Truck Bay AHU Replacement		50,000
Glenbard Plant			
	Telephone System Replacement	40,000	0
	HSW Improvements/Modifications	25,000	25,000
	Roof Replacement Consulting	0	7,000
	HSW Catch Basin Connection To Sewer	0	0
	Campus Wireless Network System	0	0
	Grand Total	\$235,000	\$112,000

Glenbard Wastewater Authority CY2019 Plant Equipment Rehabilitation 40 580150

Designation	Recommendations		CY18 Budgeted	CY19 Budgeting
Glenbard Plant	Admin. Chiller, Coil, Air Handler, & Duct Heater Design		75,000	0
	Digester Cleaning		65,000	0
Glenbard Plant	Moyno Pumps Spare Parts (Total of 10 Moyno Pumps)		25,000	25,000
	Screw Pump Rehab		0	45,000
	Grinder Exchange			
	Televising & Cleaning of NRI & SRI		100,000	100,000
Gravity Thickener	Clarifier Mechanism and Bridge Painting		40,000	40,000
CHP	Siloxane and Hydrogen Sulfide Media Replacement		75,000	50,000
CSO Plant	Grit and Main Building Window Replacements		0	0
	Grit Chamber Rehabilitation - Steel, Redwood, Chain & Sprockets		30,000	0
Dewatering Building	Shaftless Screw Conveyors		15,000	0
SRI Pump Station	Concrete Lining System		50,000	50,000
		Grand Total	\$400,000	\$310,000

Glenbard Wastewater Authority Roof Replacement Schedule CY 2017 -- Roof Replacement Cost Based on \$27/ sq. ft.

Building Code	Building Description	Roof Installation Year	Known Issues	sues Existing Roof Type Sh		Recommended Replacement Type	Square Footage	Warranty Expires	Scheduled Assessment	Scheduled Replacement	Estir	placement mation sq. foot
0	UV	1997		45 mil unreinforced EPDM, ballasted		4 ply, f.g felts, Type VI in asph. w/gravel	4,250	Expired	2018	2019	\$	114,750
Α	Bar Screen	1993		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	3 - 5	Existing Type	1,500	Expired	2019	2022	\$	40,500
L	Filter	1997		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	2 - 3	Existing Type	12,912	Expired	2019	2020	\$	348,624
Z	SRI	1992		Asphalt Shingle		Standing Metal Seam	1,000	Expired	2018	2019	\$	27,000
E	Scum	1997		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	1 - 5	Existing Type	1,050	Expired	2019	2021	\$	28,350
J	Pump & Metering	1996		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	3 - 5	Existing Type	1,224	Expired	2019	2022	\$	33,048
N	Warehouse	1998		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	2 - 3	Existing Type	2,490	Expired	2019	2022	\$	67,230
Т	CRAS / Electronics	1998		4 ply, figerglass felts, Type VI in asphalt w/gravel surface		Existing Type	2,915	Expired	2017	2018	\$	78,705
G	ATAD	1999		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	3 - 5	Existing Type	540	Expired	2019	2021	\$	14,580
Р	Press (Upper Roof)	1997		4 ply, figerglass felts, Type VI in asphalt w/gravel surface		Existing Type	2,750	Expired	2017	2018	\$	74,250
Р	Truck Bay (Lower Roof)	2010		Fully adhered white, TPO		Existing Type	323	Expired	2022	2030	\$	8,721
Р	FOG Tank (Lower Roof)	2010		4 ply, figerglass felts, Type VI in asphalt w/gravel surface		Existing Type	722	2020	2022	2030	\$	19,494
U	Digesters	2005/2008		White, Thermoplastic (TPO) Fully Adhered EPDM	6 - 10	Existing Type	5,500	Expired	2022	2026	\$	148,500
R	Admin	2012		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	5 - 8	Existing Type	6,996	2022	2022	2031	\$	188,892
В	Raw Pump	2008		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	3 - 5	Existing Type	3,575	Expired	2022	2025	\$	96,525
S	Maint. Shop	2008		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	6 - 10	Existing Type	6,460	Expired	2022	2027	\$	174,420
D	Pri. Diversion	2010		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	12 - 15	Existing Type	207	2020	2022	2029	\$	5,589
F	Unox	2010		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	12 - 15	Existing Type	608	2020	2022	2029	\$	16,416
Н	Screw	2010		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	12 - 15	Existing Type	1,020	2020	2022	2029	\$	27,540
Q	Cryo	2010		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	5 - 10	Existing Type	2,400	2020	2022	2028	\$	64,800
С	Grit	2012		4 ply, figerglass felts, Type VI in asphalt w/gravel surface	12 - 15	Existing Type	1,227	2022	2022	2032	\$	33,129
V	CoGen	2012	Leaks	4 ply, figerglass felts, Type VI in asphalt w/gravel surface	10 - 15	Existing Type	2,552	2022	2019	2032	\$	68,904
Υ	СНР	2016		Black/White Fully adhered, TPO		Existing Type	3,948	2026	2022	2034	\$	106,596
CSO-A	A Raw Pump (South Building)	2012		4 ply, figerglass felts, Type VI in asphalt w/gravel surface		Existing Type	3,025	2022	2022	2033	\$	81,675
CSO-B	B Grit (North Building)	2012		4 ply, figerglass felts, Type VI in asphalt w/gravel surface		Existing Type	1,600	2022	2022	2033	\$	43,200
CSO-C	Tin Shed	unknown	Leaks	unknown		Standing Metal Seam	1,024	Expired	2019	2022	\$	27,648
LS-St. Ch	St. Charles Rd LS	2011		Standing Metal Seam		Existing Type	896	2021	2022	2040	\$	24,192
LS-VV	Vallev View LS	2015		Standing Metal Seam		Existing Type	2.500	2025	2022	2040	\$	67.500

Annual Total													
	Ass	essment	Rei	olacement		TOTAL							
Year		Cost		Cost		BUDGET							
2018	\$	400	\$	152,955	\$	154,000							
2019	\$	1,600	\$	141,750	\$	144,000							
2020	\$	-	\$	348,624	\$	349,000							
2021	\$	-	\$	42,930	\$	43,000							
2022	\$	3,200	\$	168,426	\$	172,000							
2023	\$		\$	-	\$	-							
2024	\$	-	\$	-	\$	-							
2025	\$	-	\$	96,525	\$	97,000							
2026	\$	-	\$	148,500	\$	149,000							
2027	\$	-	\$	174,420	\$	175,000							
2028	\$	-	\$	64,800	\$	65,000							
2029	\$	-	\$	49,545	\$	50,000							
2030	\$	5,000	\$	28,215	\$	34,000							
2031	\$	-	\$	188,892	\$	189,000							
2032	\$	-	\$	102,033	\$	103,000							
2033	\$	-	\$	124,875	\$	125,000							
2034	\$	-	\$	106,596	\$	107,000							
2035	\$	-	\$	-	\$	-							
2036	\$	-	\$	-	\$	-							
2037	\$	-	\$	-	\$	-							
2038	\$	-	\$	-	\$	-							
2039	\$	-	\$	-	\$	-							
2040	\$	-	\$	91,692	\$	92,000							
2041	\$	-	\$	-	\$	-							
2042	\$	-	\$	-	\$	-							
2043	\$	-	\$	-	\$	-							
2044	\$	-	\$	-	\$	-							
2045	\$	-	\$	-	\$	-							
2046	\$	-	\$	-	\$	-							
2047	\$	-	\$	-	\$	-							
2048	\$	-	\$	-	\$	-							
2049	\$	-	\$	-	\$	-							
2050	\$	-	\$	-	\$	-							
2051	\$	-	\$	-	\$	-							
2052	\$	-	\$	-	\$	-							
2053	\$	-	\$	-	\$	-							
2054	\$	-	\$	-	\$	-							
2055	\$	-	\$	-	\$	-							
2056	\$	-	\$	-	\$								

Glenbard Wastewater Authority Vehicle and Equipment Replacement Schedule CY2019 -- Annual Appreciation Rate -- 2% per Year

Unit No.	Year	Unit Description	Scheduled Replacement	Purchased Price	Anticipated Sale Income	Appreciated Planned Year Purchase Cost*	Total
628	1985	Bridgeport Vertical Milling Machine	HOLD	\$3,750			
623	1993	MEC Scissor Lift	HOLD	\$3,950			
617	1997	Pace Trailer (Confined Space)	HOLD	\$29,687			
612	1998	Daewoo Fork Lift (CSO)	HOLD	\$30,000			
616	2001	Ingersol-Rand Trailer Air Compressor	HOLD	\$15,000			
618	2003	Miller Trailblazer Welding Machine (Crane Truck)	HOLD	\$6,823			
635	2007	Salt Dog Salt Spreader	HOLD	\$3,456			
638	2009	Bobcat Skid Steer Backhoe Attachment	HOLD	\$6,683			
641	2009	Bobcat Skid Steer Sweeper Attachment	HOLD	\$2,403			
629	2013	Knuth Metal Cutting Lathe	HOLD	\$10,595			
619	2017	Miller Spectrum Plasma Cutting Machine	HOLD	\$1,725		\$2,000	
620*	1993	Miller - Shopmaster 300 Welding Generator (TIG)	2017	\$2,300		\$10,000	
606*		New MIG Welder				\$10,000	
634*	2008	Bobcat Utility Cart	2017	\$18,079		\$23,000	
640*	2009	Bobcat Utility Cart	2017	\$15,924		\$23,000	
							\$68,000
615	2001	Godwin 4" Trailer Mounted Pump	2018	\$17,113		\$23,962	
621	2003	Alladin Hot Water Pressure Washer	2018	\$1,213		\$10,000	
		HOLD ITEM - Or Item moved up/down in schedule	2018			\$0	
							\$33,962
		LIOLD ITEM. Or Hom moved un/down in cohedula	2010			C O	
		HOLD ITEM - Or Item moved up/down in schedule HOLD ITEM - Or Item moved up/down in schedule	2019 2019			\$0 \$0	
		•					
		HOLD ITEM - Or Item moved up/down in schedule HOLD ITEM - Or Item moved up/down in schedule	2019 2019			\$0 \$0	
		TIOLD TIEM - OF Item moved up/down in scriedule	2019			φυ	<u> </u>
							\$ <i>0</i>

^{*} Appreciated Plan Year Purchase Cost adjusted to reflect current rates.

Unit No.	Year	Unit Description	Scheduled Replacement	Purchased Price	Anticipated Sale Income	Appreciated Planned Year Purchase Cost*	Total
642	2010	Dodge Grand Caravan	2020	\$19,916		\$24,277	
627	2005	Ford Utilimaster Low Cube (Electrical - orig. 2017)	2020	\$29,300		\$39,434	
		HOLD ITEM - Or Item moved up/down in schedule	2020			\$0	
		HOLD ITEM - Or Item moved up/down in schedule	2020			\$0	
		HOLD ITEM - Or Item moved up/down in schedule	2020			\$0	
		HOLD ITEM - Or Item moved up/down in schedule	2020			\$0	
							\$63,711
610	2002	John Deere Wheel Loader	2021	\$86,500		\$126,014	
632	2006	Doosan/Daewoo Fork Lift (GWA Plant)	2021	\$27,200		\$36,608	
002	2000	HOLD ITEM - Or Item moved up/down in schedule	2021	Ψ2.,200		\$0	
						40	\$162,622
643	2012	F250 Pick Up w/plow (Fuel Truck)	2022	\$29,799		\$36,325	
645	2012	Transfer Flow Fuel Tanks (Unleaded/Diesel on 643)	2022	\$2,443		\$2,978	
648	2015	Explorer (Director's Vehicle - 7 year cycle)	2022	\$27,659		\$31,771	
							\$71,074
644	2012	Crane Truck	2023	\$122,375		\$152,158	
637	2009	Bobcat Skidsteer	2023	\$24,018		\$31,691	
							\$183,849
TBN	2017	Polaris Gem eM1400 (Dump Bed Cart)	2024	\$14,532		\$16,693	
TBN	2017	Polaris Gem eM1400 (Cart)	2024	\$14,831		\$17,036	
611	2004	Volvo Semi-Tractor	2024	\$76,425		\$113,564	
646	2014	F350 Maintenance Truck	2024	\$62,816		\$76,572	
647	2014	F450 Dump Truck with Plow	2024	\$47,052		\$57,356	
							\$247,492
625	2016	Vac-Tron Vacuum Trailer with Jetter	2025	\$77,497		\$92,616	
649	2015	F350 with Utilimaster Body (Electric)	2025	\$35,875		\$43,731	
		HOLD ITEM - Or Item moved up/down in schedule	2025	. ,		\$0	
		·					\$136,348
605	2016	C-Max Hybrid (Pretreatment)	2026	\$24,294		\$29,614	
630	2016	Tandem Dump Trailer	2026	\$24,294 \$37,181		\$55,249	
633	2006	Godwin 8" Trailer Mounted Pump	2026	\$37,181 \$37,181		\$55,249 \$55,249	
000	2000	Codwin o Trailei Mounteu Fump	2020	ψυ, ισι		ΨΟΟ,ΔΨΘ	\$140,112

^{*} Appreciated Plan Year Purchase Cost adjusted to reflect current rates.

					ANNUAL PURCHASES 2018	\$33,962
						\$25,861
620	2017	Miller TIG/Stick Dynasty 350	2032	\$8,946	\$12,040	
606	2017	Millermatic 350P w/Gun Push-Pull XR-A Aluma-Pro	2032	\$5,699	\$7,670	
600	2017	Bobcat 250 EFI (Mounted on Crane Truck)	2032	\$4,570	\$6,151	

^{*} Appreciated Plan Year Purchase Cost adjusted to reflect current rates.

Appendix

CY2019 GLENBARD WASTEWATER AUTHORITY EQUIPMENT REPLACEMENT FUND

	Actual	Approved	Estimated	Budgeting
FUND 40	CY17 Bdgt	CY18 Bdgt	CY18 Bdgt	CY19 Bdgt
5966 Equipment Replacement Flow Split - Total = Half of the Whole	1,700,000	1,750,000	1,750,000	1,767,500
* Glen Ellyn Flow Split - 42.56%	769,250	777,875	777,875	752,248
* Lombard Flow Split - 57.44%	930,750	972,125	972,125	1,015,252
Equipment Replacement Split in Equity - Total = Half of the Whole	1,700,000	1,750,000	1,750,000	1,767,500
Glen Ellyn Flow Split - 50%	850,000	875,000	875,000	883,750
Lombard Flow Split - 50%	850,000	875,000	875,000	883,750
Total	3,400,000	3,500,000	3,500,000	3,535,000

				lotal	Percentage by
				Contributions	Contribution
Total Glen Ellyn Equipment Replacement Fund Contribution:	1,619,250	1,652,875	1,652,875	1,635,998	46.28%
Total Lombard Equipment Replacement Fund Contribution:	1,780,750	1,847,125	1,847,125	1,899,002	53.72%

^{*} Indicates Current 5 Year Avg. Flow Split for CY2018

Original Fund 27 & 28 FY1986 through FY1997

Glenbard Wastewater Authority Equipment Replacement Fund

* Fund 27 was defined as the Operation & Maintenance Account * Fund 28 was defined as the Capital Account

						Fund 27 Stormwater							1							
Fiscal	Fund 27 Glen	bard 84.6%	Total Budgeted	IFT Transfers	Glenbard	12%	IFT Transfers	Fund 27 N	IRI 2.1%	Total Budgeted	IFT Transfers	NRI	Fund 27 SRI 1.3%	IFT Transfers	Actual	Total	Fund 28	Total	Total	Accumulated
<u>Year</u>	<u>Glen Ellyn</u>	<u>Lombard</u>	Contribution	<u>to Fund 28</u>	<u>Flowsplits</u>	<u>Lombard</u>	<u>to Fund 28</u>	Glen Ellyn	<u>Lombard</u>	Contribution	to Fund 28	<u>Flowsplits</u>	<u>Glen Ellyn</u>	<u>to Fund 28</u>	Contributions	to Fund 28	% Increase	Glen Ellyn	<u>Lombard</u>	<u>Funding</u>
FY(1986)	\$ 28,027.13		\$ 28,027.13			\$ 3,975.48		\$ 238.00	\$ 458.00	\$ 696.00			\$ 430.68		\$ 33,129.29	0.00	0%	\$ 28,695.81 \$	4,433.48	\$ -
FY(1987)	486,027.00		486,027.00			68,940.00		4,129.00	7,936.00	12,065.00			7,468.50		574,500.50	0.00	0%	497,624.50	76,876.00	-
FY(1988)	242,987.00	282,256.00	525,243.00	520,200.00		73,800.00	73,700.00	4,418.00	8,493.00	12,911.00	13,750.00		7,992.40	7,150.00	619,946.40	614,800.00	100%	255,397.40	364,549.00	614,800.00
FY(1989)	242,987.00	282,256.00	525,243.00	556,600.00		79,000.00	78,950.00	4,496.00	9,138.00	13,634.00	14,000.00		8,551.40	8,475.00	626,428.40	658,025.00	7%	256,034.40	370,394.00	1,272,825.00
FY(1990)	243,519.00	323,236.00	566,755.00	596,000.00	43.4/56.6	84,444.00	85,000.00	4,832.00	9,945.00	14,777.00	15,000.00	32.7/67.3	9,148.10	9,000.00	675,124.10	705,000.00	7%	257,499.10	417,625.00	1,977,825.00
FY(1991)	308,090.00	371,910.00	680,000.00	637,200.00	44/56	90,372.00	90,200.00	5,061.00	10,754.00	15,815.00	16,100.00	32/68	9,790.30	9,600.00	795,977.30	753,100.00	6%	322,941.30	473,036.00	2,730,925.00
FY(1992)	253,884.00	296,485.00	550,369.00	533,000.00	44/56	75,600.00	75,600.00	4,128.00	9,104.00	13,232.00	13,400.00	32/68	8,191.30	8,100.00	647,392.30	630,100.00	-20%	266,203.30	381,189.00	3,361,025.00
FY(1993)	256,274.00	268,331.00	524,605.00	560,192.00	45/55	79,500.00	79,400.00	4,380.00	9,524.00	13,904.00	14,000.00	32/68	8,607.20	8,500.00	626,616.20	662,092.00	5%	269,261.20	357,355.00	4,023,117.00
FY(1994)	265,659.00	341,029.00	606,688.00	588,000.00	45.2/54.8	83,400.00	83,400.00	4,736.00	9,859.00	14,595.00	14,700.00	32.5/67.6	9,035.00	8,900.00	713,718.00	695,000.00	5%	279,430.00	434,288.00	4,718,117.00
FY(1995)	243,431.00	348,656.00	592,087.00	617,600.00	46/54	87,600.00	87,600.00	5,212.00	10,118.00	15,330.00	15,500.00	34/66	9,490.00	9,300.00	704,507.00	730,000.00	5%	258,133.00	446,374.00	5,448,117.00
FY(1996)	256,157.00	335,727.00	591,884.00	648,500.00	44.5/55.5	92,000.00	92,000.00	5,312.00	10,785.00	16,097.00	16,200.00	33/67	9,964.50	9,800.00	709,945.50	766,500.00	5%	271,433.50	438,512.00	6,214,617.00
FY(1997)	278,157.00	369,235.00	647,392.00	681,000.00	42.92/57.08	96,600.00	96,200.00	5,692.00	11,213.00	16,905.00	17,100.00	31.21/68.79	10,465.00	9,800.00	771,362.00	804,100.00	5%	294,314.00	477,048.00	7,018,717.00
TOTALS	\$ 3,105,199.13	\$ 3,219,121.00	\$ 6,324,320.13	\$ 5,938,292.00		\$ 915,231.48	\$ 842,050.00	\$ 52,634.00	\$ 107,327.00	\$ 159,961.00	\$ 149,750.00		\$ 99,134.38	\$ 88,625.00	\$ 7,498,646.99	\$ 7,018,717.00		\$ 3,256,967.51 \$	4,241,679.48	

Original Fund 40 FY1998 through FY2010

Fiscal	Glenbard	I 84.6%	Glenbard	Stormwater 12%	NRI	2.1%	NRI	SRI 1.3%	Actual	Percentage	Total	Total	Accumulated
<u>Year</u>	Glen Ellyn	Lombard	Flowsplits	<u>Lombard</u>	Glen Ellyn	Lombard	Flowsplits	Glen Ellyn	Contributions	Increase	Glen Ellyn	Lombard	<u>Funding</u>
FY(1998)	\$ 237,362.00	\$ 476,938.00	44.48/55.52	\$ 101,400.00	\$ 5,733.00	\$ 12,012.00	32.31/67.69	\$ 10,985.00	\$ 845,000.00	5%	\$ 254,080.00	\$ 590,350.00	\$ 7,863,717.00
FY(1999)	331,337.00	418,463.00	44.19/55.81	106,440.00	6,190.00	12,437.00	33.23/66.77	11,531.00	887,000.00	5%	\$ 349,058.00	\$ 537,340.00	\$ 8,750,717.00
FY(2000)	401,631.00	491,876.00	43.10/56.90	126,720.00	7,236.00	14,940.00	32.63/67.37	13,728.00	1,056,000.00	16%	\$ 422,595.00	\$ 633,536.00	\$ 9,806,717.00
FY(2001)	516,247.00	632,245.00	44.95/55.06	161,300.00	9,416.00	18,808.00	33.36/66.64	17,472.21	1,344,016.00	21%	\$ 543,135.21	\$ 812,353.00	\$ 11,150,733.00
FY(2002)	608,349.00	698,803.00	46.54/53.46	185,411.00	10,477.00	21,970.00	32.29/67.71	20,086.26	1,545,097.00	13%	\$ 638,912.26	\$ 906,184.00	\$ 12,695,830.00
FY(2003)	674,746.00	814,429.00	45.31/54.69	211,230.00	11,958.00	25,007.00	32.35/67.65	22,883.30	1,760,254.00	12%	\$ 709,587.30	\$ 1,050,666.00	\$ 14,456,084.00
FY(2004)	718,811.00	816,454.00	46.82/53.18	217,770.00	12,996.00	25,114.00	34.10/65.9	23,591.54	1,814,734.00	3%	\$ 755,398.54	\$ 1,059,338.00	\$ 16,270,818.00
FY(2005)	786,524.00	849,663.00	47.87/52.13	233,000.00	15,297.00	25,483.00	37.51/62.49	25,244.62	1,941,894.00	7%	\$ 827,065.62	\$ 1,108,146.00	\$ 18,212,712.00
FY(2006)	849,633.00	908,422.00	48.328/51.672	249,400.00	17,075.00	26,559.00	39.133/60.867	27,011.75	2,077,827.00	7%	\$ 893,719.75	\$ 1,184,381.00	\$ 20,290,539.00
FY(2007)	821,398.00	870,602.00	48.546/51.454	240,000.00	16,588.00	25,412.00	39.496/60.504	26,000.00	2,000,000.00	-4%	\$ 863,986.00	\$ 1,136,014.00	\$ 22,290,539.00
FY(2008)	729,051.00	762,949.00	48.864/51.136	216,000.00	15,033.00	22,767.00	32.769/60.231	23,400.00	1,800,000.00	-11%	\$ 767,484.00	\$ 1,001,716.00	\$ 24,090,539.00
FY(2009)	746,126.32	776,674.00	48.997/51.003	216,000.00	14,895.00	22,905.00	39.405/60.595	23,400.00	1,800,000.00	0%	\$ 784,421.32	\$ 1,015,579.00	\$ 25,890,539.00
FY(2010)	826,237.44	865,762.56	48.832/51.168	264,000.00	16,634.31	26,059.32	37.954/62.046	26,000.00	2,000,000.00	10%	\$ 868,871.75	\$ 1,155,821.88	\$ 27,890,539.00
TOTALS	\$ 8,247,452.76	\$ 9,383,280.56		\$ 2,528,671.00	\$ 159,528.31	\$ 279,473.32		\$ 271,333.68	\$ 20,871,822.00		\$ 8,678,314.75	\$ 12,191,424.88	

Intermediate Capital Funding FY2011 through FY2013

	Division 40	Division 41	Fund 42	Fund 43	Fund 44	Fund 45	Fund 46	Fund 47					
Fiscal	Glenbard	Stormwater			St. Charles Rd	Valley View	SRI	Sunnyside	Actual	Percentage	Total	Total	Accumulated
<u>Year</u>	Plant 66.7%	<u>Plant 12%</u>	NRI 6.9%	SRI 3.1%	L.S 6.7%	L.S 2%	L.S 2%	L.S .5%	Contributions	<u>Increase</u>	Glen Ellyn	<u>Lombard</u>	<u>Funding</u>
FY(2011)	1,467,400.00	264,000.00	151,800.00	68,200.00	147,400.00	45,100.00	45,100.00	11,000.00	2,200,000.00	9%	\$ 1,625,800.00	\$ 377,300.00	\$ 30,090,539.00
FY(2012)	1,467,400.00	264,000.00	151,800.00	68,200.00	147,400.00	45,100.00	45,100.00	11,000.00	2,200,000.00	0%	\$ 1,067,340	\$ 1,132,660	\$ 32,290,539.00
FY(2013)	1,600,800.00	288,000.00	165,600.00	74,400.00	160,800.00	49,200.00	49,200.00	12,000.00	2,400,000.00	8%	\$ 1,160,788	\$ 1,239,212	\$ 34,690,539.00
TOTALS	\$ 3,068,200.00	\$ 552,000.00	\$ 317,400.00	\$ 142,600.00	\$ 308,200.00	\$ 94,300.00	\$ 94,300.00	\$ 23,000.00	\$ 4,600,000.00		\$ 2,228,127.76	\$ 2,371,872.24	

Fund 40 FY2014 through CY2025

Fiscal	Glen Ellyn	Lombard		Glen Ellyn	Lombard	% Flow Split	1/2 Half of	Actual	Percentage	Total		Total	1	Accumulated
<u>Year</u>	<u>Split 50/50</u>	<u>Split 50/50</u>	1/2 Half of Actual	Split By Flow	Split By Flow	By Partner	<u>Actual</u>	<u>Contributions</u>	Increase		Glen Ellyn	<u>Lombard</u>		<u>Funding</u>
FY(2014)	675,000.00	675,000.00	1,350,000.00	642,600.00	707,400.00	47.60 / 52.40	1,350,000.00	2,700,000.00	11%	\$	1,317,600.00	\$ 1,382,400.00	\$	37,390,539.00
SY(2014)	490,050.00	490,050.00	980,100.00	459,666.90	520,433.10	46.90 / 53.10	980,100.00	1,960,200.00	-38%	\$	949,716.90	\$ 1,010,483.10	\$	39,350,739.00
CY(2015)	816,750.00	816,750.00	1,633,500.00	766,111.50	867,388.50	46.90 / 53.10	1,633,500.00	3,267,000.00	40%	\$	1,582,861.50	\$ 1,684,138.50	\$	42,617,739.00
CY(2016)	832,500.00	832,500.00	1,665,000.00	768,564.00	896,436.00	46.16 / 53.84	1,665,000.00	3,330,000.00	2%	\$	1,601,064.00	\$ 1,728,936.00	\$	45,947,739.00
CY(2017)	850,000.00	850,000.00	1,700,000.00	769,250.00	930,750.00	45.25 / 54.75	1,700,000.00	3,400,000.00	2%	\$	1,619,250.00	\$ 1,780,750.00	\$	49,347,739.00
CY(2018)	875,000.00	875,000.00	1,750,000.00	777,875.00	972,125.00	44.45 / 55.55	1,750,000.00	3,500,000.00	3%	\$	1,652,875.00	\$ 1,847,125.00	\$	52,847,739.00
CY(2019)*	883,750.00	883,750.00	1,767,500.00	752,248.00	1,015,252.00	42.56 / 57.44	1,767,500.00	3,535,000.00	1.0%	\$	1,635,998.00	\$ 1,899,002.00	\$	56,382,739.00
CY(2020)	892,587.50	892,587.50	1,785,175.00	714,070.00	1,071,105.00	40/60	1,785,175.00	3,570,350.00	1.0%	\$	1,606,657.50	\$ 1,963,692.50	\$	59,953,089.00
CY(2021)	901,513.38	901,513.38	1,803,026.75	721,210.70	1,081,816.05	40/60	1,803,026.75	3,606,053.50	1.0%	\$	1,622,724.08	\$ 1,983,329.43	\$	63,559,142.50
CY(2022)	910,528.51	910,528.51	1,821,057.02	728,422.81	1,092,634.21	40/60	1,821,057.02	3,642,114.04	1.0%	\$	1,638,951.32	\$ 2,003,162.72	\$	67,201,256.54
CY(2023)	919,633.79	919,633.79	1,839,267.59	735,707.04	1,103,560.55	40/60	1,839,267.59	3,678,535.18	1.0%	\$	1,655,340.83	\$ 2,023,194.35	\$	70,879,791.71
CY(2024)	928,830.13	928,830.13	1,857,660.26	743,064.11	1,114,596.16	40/60	1,857,660.26	3,715,320.53	1.0%	\$	1,671,894.24	\$ 2,043,426.29	\$	74,595,112.24
CY(2025)	938,118.43	938,118.43	1,876,236.87	750,494.75	1,125,742.12	40/60	1,876,236.87	3,752,473.73	1.0%	\$	1,688,613.18	\$ 2,063,860.55	\$	78,347,585.97
CY(2026)	947,499.62	947,499.62	1,894,999.23	757,999.69	1,136,999.54	40/60	1,894,999.23	3,789,998.47	1.0%	\$	1,705,499.31	\$ 2,084,499.16	\$	82,137,584.44
CY(2027)	956,974.61	956,974.61	1,913,949.23	765,579.69	1,148,369.54	40/60	1,913,949.23	3,827,898.45	1.0%	\$	1,722,554.30	\$ 2,105,344.15	\$	85,965,482.89
CY(2028)	966,544.36	966,544.36	1,933,088.72	773,235.49	1,159,853.23	40/60	1,933,088.72	3,866,177.44	1.0%	\$	1,739,779.85	\$ 2,126,397.59	\$	89,831,660.33
CY(2029)	976,209.80	976,209.80	1,952,419.61	780,967.84	1,171,451.76	40/60	1,952,419.61	3,904,839.21	1.0%	\$	1,757,177.65	\$ 2,147,661.57	\$	93,736,499.55
CY(2030)	985,971.90	985,971.90	1,971,943.80	788,777.52	1,183,166.28	40/60	1,971,943.80	3,943,887.61	1.0%	\$	1,774,749.42	\$ 2,169,138.18	\$	97,680,387.15
TOTALS	\$ 10,914,261.74	\$10,914,261.74		\$ 10,087,284.49	\$13,636,238.23			\$ 62,989,848.15		\$	40,382,250.77	\$ 49,671,896.40	Г	

* Indicates Actual 5 Year Flow Split

Comments Pertaining to the Historical Value of the Equipment Replacement Fund

- ~ As a condition of Grant funding, the United States Environmental Protection Agency required that an equipment replacement fund be established. The purpose of the replacement fund is to be sure adequate funds are in place to replace equipment and make improvements as they are needed.
- ~ The 1985 Fred P. Johnson and Associates study recommended that a seven percent (7%) Sinking Fund be set up for equipment replacement. That meant that the fund would grow by seven percent (7%) each year. The Johnson study projected the Sinking Fund through FY 1991.
- ~ In FY1986 the O&M Sinking Fund was established with contributions being made to Fund 27, Glenbard Wastewater Authority Operations and Maintnance Fund.
- ~ In 1988 a new Fund was created based off of the Johnson Study recommendations. This was Fund 28, Glenbard Wastewater Authority Capital Equipment Replacement Fund. Fund 27 was the depository for Fund 28 with Inter Fund Trasfers (IFT's) being the vehicle to transfer needed funds into Fund 28. The Equipment Replacement Fund spreadsheet illustrates the deposits, transfers, splits and accumulations of the money.
- ~ In FY1992, after analyzing likely FY1992 FY1997 equipment replacement needs, Glenbard Staff and the Executive Oversight Committee concluded that a five percent (5%) sinking fund will be adequate. It took four fiscal years between FY1992 and FY1996 to return to the contribution level of 1991. The Sinking Fund is shown as growing by five percent (5%) from FY1992 FY1999.
- ~ A Facility Plan developed in FY(1998) caused the Glenbard Staff and the Executive Oversight Committee to commit to increasing the Sinking Fund to the Fred Johnson calculated values by FY2004.
- ~ The Sinking Fund was re-evaluated during the FY2007 budget discussions with Village Managers and Finance Directors when it was decided to no longer follow the recommended seven percent (7%) annual increase, but to evaluate the contribution on an annual basis. The Managers agreed to return to the seven percent (7%) annual increase in FY2008.
- ~ The Sinking Fund was again evaluated during budget planning for FY2008 when the decision by Village Managers and Finance Directors moved the Authority away from dedicated annual contributions, but to evaluate the contribution annually. At this time Village Managers and Finance Directors agreed to reduce the annual contribution to the Sinking Fund. It took three fiscal years between FY2008 and FY2010 to return to the contribution level of FY2007.
- ~ FY2011 was the first year that the EOC agreed to change the budget format without an executed IGA. The change to the percentages regarding how the Regional Treatment System was constructed did nothing more than devalue the Glenbard Plant to create arbitrary funds and increase value in others.
- ~ FY 2013 is the third year the budget has been formatted without a supporting IGA. Both Village presidents agreed at the December 2011 EOC meeting that this would be the last budget formatted without a supporting IGA. If an agreeable funding mechanism cannot be achieved by November 2012 the budget will revert back to the 1998 IGA supporting the FY10 budget format.
- ~ Beginning with the FY2013 Facility Plan the Capital Equipment Replacement Fund shall be funded with a mandatory ten percent (10%) increase from fiscal year to fiscal year through the 10 year plan as agreed to by the EOC. The increase to the Fund for FY2014 is actually eleven percent (11%). With this figure the period between FY2000 & FY2014 averages seven percent (7%) contribution.
- ~ FY2014 The Capital Equipment Replacement Fund 40 is utilizing a unique revenue split approved by both partners. The revenue split shall divide the agreed contribution in half, of which the first half shall be split 50% between partners. The second half of the agreed contribution will be split by the flow utilized to calculate the partners payments. A single Capital Fund (40) shall be used to expense all projects with the approval of the Executive Oversight Committee.
- ~ SY2014, contribution which was originally the FY2015 contribution was scheduled to be \$2,970,000 based on a 12 month fiscal year. With the change to a calendar year format FY2015 was modified to a Stub Year (SY) due to the 8 month budget. The scheduled contribution for capital improvements for FY2015 of \$2,970,000 was reduced by 33% or 829,800 for a total contribution of \$1,960,200. This is shown as a 38% reduction on the schedule above. The following year CY2015 the contribution continues as scheduled indicating a \$1,306,800 or 40% increase over SY2014.
- ~ CY2016 The Capital Equipment Replacement Fund 40 continues utilizing the unique revenue split approved by both partners. The revenue split shall divide the agreed contribution in half, of which the first half shall be split 50% between partners. The second half of the agreed contribution will be split by the flow utilized to calculate the partners payments. A single Capital Fund (40) shall be used to expense all projects with the approval of the Executive Oversight Committee.
- ~ CY2018 Proposed 1% increase has been requested to reflect an increase due to Forecasted Capital Improvement Projects as well as slowly building a larger reserve

Glenbard Wastewater Authority Summary of Projected Future Debt Service Payments As of January 1, 2019

	Digester Project	Facility Improvements	Biosolids & Dewatering	Biological Phosphorus	Total Debt Service
	,	Project	Improvements	Removal	
		-	•		
CY19*	637,001				637,001
CY20	637,001	995,684			1,632,685
CY21	637,001	995,684			1,632,685
CY22	637,001	995,684	134,000		1,766,685
CY23	637,001	995,684	134,000		1,766,685
CY24	637,001	995,684	134,000		1,766,685
CY25	318,501	995,684	134,000	969,000	2,417,185
CY26		995,684	134,000	969,000	2,098,684
CY27		995,684	134,000	969,000	2,098,684
CY28		995,684	134,000	969,000	2,098,684
CY29		995,684	134,000	969,000	
CY30		995,684	134,000	969,000	2,098,684
CY31		995,684	134,000	969,000	2,098,684
CY32		995,684	134,000	969,000	2,098,684
CY33		995,684	134,000	969,000	
CY34		995,684	134,000	969,000	2,098,684
CY35		995,684	134,000	969,000	
CY36		995,684	134,000	969,000	2,098,684
CY37		995,684	134,000	969,000	2,098,684
CY38		995,684	134,000	969,000	2,098,684
CY39		995,684	134,000	969,000	2,098,684
CY40			134,000	969,000	1,103,000
CY41			134,000	969,000	1,103,000
CY42			134,000	969,000	1,103,000
CY43			134,000	969,000	1,103,000
CY44			134,000	969,000	1,103,000
CY45			134,000	969,000	1,103,000
CY46			134,000	969,000	1,103,000
CY47			134,000	969,000	1,103,000
CY48			134,000	969,000	1,103,000
CY49			134,000	969,000	1,103,000
CY50			134,000	969,000	
CY51			134,000		
CY52			134,000	969,000	1,103,000
CY53			134,000	969,000	1,103,000
CY54			134,000	969,000	1,103,000
CY55			134,000	969,000	1,103,000
	4,777,508	19,913,680			39,539,504

Budget CY2019 Anaerobic Digester Loan # L17-287400 IEPA Loan - Payback Schedule Interest Rate: 2.5%

Total Value of Loan (Principal + Interest): \$9,242,026.30

Fiscal	Due	Beginning	Principal	Interest	Interest	Total	Ending
<u>Year</u>	<u>Date</u>	<u>Balance</u>	<u>Payment</u>	<u>Payment</u>	Rate %	<u>Payment</u>	<u>Balance</u>
FY 2011	7/29/2010	\$7,167,105.82	\$179,436.51	\$81,035.93	2.50	\$260,472.44	\$6,987,669.31
	1/29/2011	\$6,987,669.31	\$181,679.47	\$78,792.97	2.50	\$260,472.44	\$6,805,989.84
FY 2012	7/29/2011	\$6,805,989.84	\$183,950.46	\$76,521.98	2.50	\$260,472.44	\$6,622,039.38
	1/29/2012	\$6,622,039.38	\$207,577.05	\$82,721.72	2.50	\$290,298.77	\$6,414,462.33
FY 2013	7/29/2012	\$6,575,454.33	\$210,171.76	\$80,127.01	2.50	\$290,298.77	\$6,365,282.57
	1/29/2013	\$6,365,282.57	\$218,352.18	\$79,522.32	2.50	\$297,874.50	\$6,146,930.39
FY 2014	7/29/2013	\$6,146,930.39	\$221,081.58	\$76,792.92	2.50	\$297,874.50	\$5,925,848.81
	1/29/2014	\$5,925,848.81	\$223,845.10	\$74,029.40	2.50	\$297,874.50	\$5,702,003.71
SY 2014	7/29/2014	\$6,077,402.76	\$226,643.16	\$71,231.34	2.50	\$297,874.50	\$5,850,759.60
CY 2015	1/29/2015	\$5,850,759.60	\$245,366.14	\$73,134.50	2.50	\$318,500.64	\$5,605,393.46
	7/29/2015	\$5,605,393.46	\$248,433.22	\$70,067.42	2.50	\$318,500.64	\$5,356,960.24
CY 2016	1/29/2016	\$5,356,960.24	\$251,538.64	\$66,962.00	2.50	\$318,500.64	\$5,105,421.60
	7/29/2016	\$5,105,421.60	\$254,682.87	\$63,817.77	2.50	\$318,500.64	\$4,850,738.73
CY 2017	1/29/2017	\$4,850,738.73	\$257,866.41	\$60,634.23	2.50	\$318,500.64	\$4,592,872.32
	7/29/2017	\$4,592,872.32	\$261,089.74	\$57,410.90	2.50	\$318,500.64	\$4,331,782.58
CY 2018	1/29/2018	\$4,331,782.58	\$264,353.36	\$54,147.28	2.50	\$318,500.64	\$4,067,429.22
	7/29/2018	\$4,067,429.22	\$267,657.77	\$50,842.87	2.50	\$318,500.64	\$3,799,771.45
CY 2019*	1/29/2019	\$3,799,771.45	\$271,003.50	\$47,497.14	2.50	\$318,500.64	\$3,528,767.95
	7/29/2019	\$3,528,767.95	\$274,391.04	\$44,109.60	2.50	\$318,500.64	\$3,254,376.91
CY 2020	1/29/2020	\$3,254,376.91	\$277,820.93	\$40,679.71	2.50	\$318,500.64	\$2,976,555.98
	7/29/2020	\$2,976,555.98	\$281,293.69	\$37,206.95	2.50	\$318,500.64	\$2,695,262.29
CY 2021	1/29/2021	\$2,695,262.29	\$284,809.86	\$33,690.78	2.50	\$318,500.64	\$2,410,452.43
	7/29/2021	\$2,410,452.43	\$288,369.98	\$30,130.66	2.50	\$318,500.64	\$2,122,082.45
CY 2022	1/29/2022	\$2,122,082.45	\$291,974.61	\$26,526.03	2.50	\$318,500.64	\$1,830,107.84
	7/29/2022	\$1,830,107.84	\$295,624.29	\$22,876.35	2.50	\$318,500.64	\$1,534,483.55
CY 2023	1/29/2023	\$1,534,483.55	\$299,319.60	\$19,181.04	2.50	\$318,500.64	\$1,235,163.95
	7/29/2023	\$1,235,163.95	\$303,061.09	\$15,439.55	2.50	\$318,500.64	\$932,102.86
CY 2024	1/29/2024	\$932,102.86	\$306,849.35	\$11,651.29	2.50	\$318,500.64	\$625,253.51
	7/29/2024	\$625,253.51	\$310,684.97	\$7,815.67	2.50	\$318,500.64	\$314,568.54
CY2025	1/29/2025	\$314,568.54	\$314,568.54	\$3,932.10	2.50	\$318,500.64	\$0.00
Totals			\$7,703,496.87	\$1,538,529.43		\$9,242,026.30	

The EOC awarded an Anaerobic Digester Engineering Services Contract on August 10, 2005, for the Anaerobic Digester Improvement Project. This projected payback schedule is included to cover the required funding.

Calendar Year 2019 Position Classification

ADMINISTRATION	Salary Range	CY15	CY 16	CY 17	CY 18	CY 19
Executive Director	S	1	1	1	1	1
Engineering, Assistant Executive Director	Q	0	1	1	1	1
Enviromental Resources Coordinator	ı	1	1	1	1	1
Seasonal Admin Secretary - FTE = .25		1	1	1	1	1
Administrative Secretary	F	1	1	1	1	1
FT Employee Totals		3	4	4	4	4
PT Employee Totals		1	1	1	1	1
FTE Totals		3.25	4.25	4.25	4.25	4.25
Operations						
Operations Superintendent	N	1	1	1	1	1
Plant Operator I	I	3	2	2	2	3
Plant Operator II	Н	0	0	0	0	0
Plant Operator III	G	0	0	0	0	0
Plant Operator IV	F	2	2	2	2	1
Operator-in-Training	E	0	0	0	0	0
Operator PT - FTE = 1.0	E	5	5	5	5	5
Laboratory Services Coordinator	K	N/A	N/A	N/A	1	1
Wastewater Laboratory Technician	1	1	1	1	0	0
PT Laborer - FTE = .50	D	1	1	1	1	1
FT Employee Totals		7	6	6	6	6
PT Employee Totals		6	6	6	6	6
FTE Totals		8.5	7.5	7.5	7.5	7.5
MECHANICAL MAINTENANCE						
Mechnical Maintenance Superintendent	N	1	1	1	1	1
Maintenance Mechanic I		1	1	1	1	1
Maintenance Mechanic II	G	0	2	2	1	1
Maintenance Mechanic III	F	1	0	0	1	1
FT Employee Totals		3	4	4	4	4
PT Employee Totals		0	0	0	0	0
FTE Totals		3	4	4	4	4
ELECTRICAL MAINTENANCE						
Electrical Superintendent	N	1	1	1	1	1
Electronic Technician	J	1	1	1	1	1
Plant Electrician	J	1	1	1	1	1
FT Employee Totals		3	3	3	3	3
PT Employee Totals		0	0	0	0	0
FTE Totals		3	3	3	3	3
TOTAL OF ALL CATEGORIES		-	-	-		-
Total Full Time Employees		16	17	17	17	17
Total PT/Seasonal Employees		7	7	7	7	7
Total Full Time Equivalent (FTE)		17.75	18.75	18.75	18.75	18.75

Glenbard Wastewater Authority Salary Schedule - January 1, 2019 through December 31, 2019

		Annualized			Hourly			
Range	Min	Mid	Max	Min	Mid	Max		
	CY19 Sal	ary Schedule	Adjustment = 2% Ir	ncrease to Salary R	anges from	CY18		
Α	36,767	46,310	55,832	17.68	22.26	26.84		
В	38,563	48,604	58,624	18.54	23.37	28.18		
С	40,511	51,071	61,632	19.48	24.55	29.63		
D	42,523	53,581	64,640	20.44	25.76	31.08		
Е	44,666	56,308	67,951	21.47	27.07	32.67		
F	46,916	59,143	71,370	22.56	28.43	34.31		
G	49,297	62,108	74,919	23.70	29.86	36.02		
Н	51,764	65,224	78,663	24.89	31.36	37.82		
I	54,339	68,492	82,623	26.12	32.93	39.72		
J	57,022	71,868	86,713	27.41	34.55	41.69		
K	59,900	75,503	91,106	28.80	36.30	43.80		
L	62,930	79,268	95,607	30.25	38.11	45.96		
M	66,025	83,185	100,325	31.74	39.99	48.23		
N	69,336	87,340	105,345	33.33	41.99	50.65		
Ο	72,885	91,863	110,842	35.04	44.16	53.29		
Р	76,520	96,408	116,295	36.79	46.35	55.91		
Q	80,264	101,125	121,986	38.59	48.62	58.65		
R	84,354	106,297	128,219	40.55	51.10	61.64		
S	88,552	111,599	134,624	42.57	53.65	64.72		

TABLE 1. TOTAL WASTWATER FLOWS AND PERCENTAGES FOR CY2019 BUDGET

	MONTH	TOTAL AREA METERS (MG)	GLEN ELLYN AREA (MG)	PERCENT OF TOTAL	LOMBARD AREA (MG)	PERCENT OF TOTAL
	Jan-13	329.627	152.609	46.30%	177.018	53.70%
	Feb-13	384.706	172.768	44.91%	211.938	55.09%
Υ	Mar-13	472.827	218.299	46.17%	254.528	53.83%
е	Apr-13	619.351	303.384	48.98%	315.967	51.02%
а	May-13	431.200	201.647	46.76%	229.553	53.24%
r	Jun-13	361.166	162.553	45.01%	198.613	54.99%
•	Jul-13	260.487	117.489	45.10%	142.998	54.90%
^	Aug-13	228.944	99.808	43.59%	129.136	56.41%
0	_					
n	Sep-13	229.706	100.114	43.58%	129.592	56.42%
е	Oct-13	258.677	108.512	41.95%	150.165	58.05%
	Nov-13	306.145	134.647	43.98%	171.498	56.02%
	Dec-13	277.820	125.681	45.24%	152.139	54.76%
	Jan-14	343.023	153.652	44.79%	189.371	55.21%
	Feb-14	316.547	138.954	43.90%	177.593	56.10%
	Mar-14	520.731	228.751	43.93%	291.98	56.07%
Υ	Apr-14	441.060	201.787	45.75%	239.273	54.25%
е	May-14	553.185	257.255	46.50%	295.93	53.50%
	•					
a	Jun-14	512.987	225.33	43.93%	287.657	56.07%
r	Jul-14	436.204	187.492	42.98%	248.712	57.02%
	Aug-14	420.414	167.406	39.82%	253.008	60.18%
T	Sep-14	318.223	134.549	42.28%	183.674	57.72%
W	Oct-14	309.155	132.35	42.81%	176.805	57.19%
0	Nov-14	266.985	115.666	43.32%	151.319	56.68%
	Dec-14	293.723	127.548	43.42%	166.175	56.58%
	Jan-15	313.002	130.025	41.54%	182.977	58.46%
Υ	Feb-15	260.791	112.78	43.25%	148.011	56.75%
е	Mar-15	403.033	166.466	41.30%	236.567	58.70%
а	Apr-15	398.814	173.456	43.49%	225.358	56.51%
r	May-15	443.926	187.303	42.19%	256.623	57.81%
•	•					
_	Jun-15	540.440	240.244	44.45%	300.196	55.55%
T	Jul-15	335.868	155.714	46.36%	180.154	53.64%
h	Aug-15	312.778	136.548	43.66%	176.23	56.34%
r	Sep-15	336.494	144.547	42.96%	191.947	57.04%
е	Oct-15	258.499	112.427	43.49%	146.072	56.51%
е	Nov-15	442.929	185.084	41.79%	257.845	58.21%
	Dec-15	624.384	274.565	43.97%	349.819	56.03%
	Jan-16	448.026	198.793	44.37%	249.233	55.63%
	Feb-16	353.109	159.869	45.27%	193.240	54.73%
Υ	Mar-16	463.285	192.650	41.58%	270.635	58.42%
е	Apr-16	404.293	180.648	44.68%	223.645	55.32%
а	•		253.696		223.645 353.045	
r	May-16	606.741		41.81%		58.19%
	Jun-16	359.676	154.490	42.95%	205.186	57.05%
F	Jul-16	328.681	138.818	42.23%	189.863	57.77%
0	Aug-16	330.953	139.356	42.11%	191.597	57.89%
	Sep-16	252.565	109.721	43.44%	142.844	56.56%
u	Oct-16	323.385	136.770	42.29%	186.615	57.71%
r	Nov-16	280.226	124.145	44.30%	156.081	55.70%
	Dec-16	333.522	150.090	45.00%	183.432	55.00%
	Jan-17	384.403	156.180	40.63%	228.223	59.37%
Υ	Feb-17	283.491	121.309	42.79%	162.182	57.21%
e						
	Mar-17	428.291	163.067	38.07%	265.224	61.93%
a	Apr-17	498.452	192.400	38.60%	306.052	61.40%
r	May-17	524.012	218.211	41.64%	305.801	58.36%
	Jun-17	309.589	115.265	37.23%	194.324	62.77%
F	Jul-17	313.630	112.004	35.71%	201.626	64.29%
i	Aug-17	228.498	84.021	36.77%	144.477	63.23%
	Sep-17	201.378	75.029	37.26%	126.349	62.74%
V	•	577.263	187.698	32.52%	389.565	67.48%
	Oct-17	000				
v e	Nov-17	391.068	136.452	34.89%	254.616	65.11%
				34.89% 34.04%	254.616 182.656	65.11% 65.96%

