

**GLENBARD  
WASTEWATER  
AUTHORITY**



**FY 2009  
ANNUAL  
BUDGET**

**OPERATIONS, MAINTENANCE**

**AND**

**CAPITAL PLAN**

**MAY 1, 2008 – APRIL 30, 2009**

Erik Lanphier  
Wastewater Manager  
April, 2008



## GLENBARD WASTEWATER AUTHORITY

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April 17, 2008

President Vicky Hase and  
Members of the Glenbard Wastewater Authority Board  
Glen Ellyn, Illinois 60137

Subject: May 1, 2008 - April 30, 2009 Glenbard Wastewater Authority Budget  
(FY 2009)

I am pleased to present for your review and consideration the proposed Glenbard Wastewater Authority (Authority) FY 2009 Budget. The Glenbard Staff developed the proposed budget that was recommended for approval by the Executive Oversight Committee (EOC) at the regularly scheduled EOC meeting March 13, 2008. The proposed FY 2009 Budget shows a moderate ~~0.58%~~ <sup>- .37.</sup> increase in the overall contribution from the Villages. The budget reflects a substantial capital improvement plan continuing the upgrading of the plant and equipment that has been a major focus at the Authority in recent years. The proposed budget includes funding that will assure continued plant operation meeting regulatory standards, and improving the water quality of the East Branch 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 ¼ 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. The Glenbard FPA contains a current population equivalent (P.E.) of 103,046 and 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.

**FACILITIES** -- 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

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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 million gallons per day Glenbard Advanced Wastewater Treatment Facilities, the 58.0 million gallons per day Lombard Combined Sewage Treatment Facility (LCSTF), the North Regional Interceptor (NRI), the South Regional Interceptor (SRI), the Valley View Pump Station and the St. Charles Road Pump Station.

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

The Lombard Combined Sewage Treatment Facility is an excess flow treatment plant that accepts combined sanitary and storm sewer discharges from the Village of Lombard. This facility operates only under high rain conditions and is funded solely by 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 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 Lombard Combined Sewage Treatment Facility (LCSTF) 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 finally closed-out in January of 1990.

REGULATION -- 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.

# GLENBARD FACILITIES PLANNING AREA

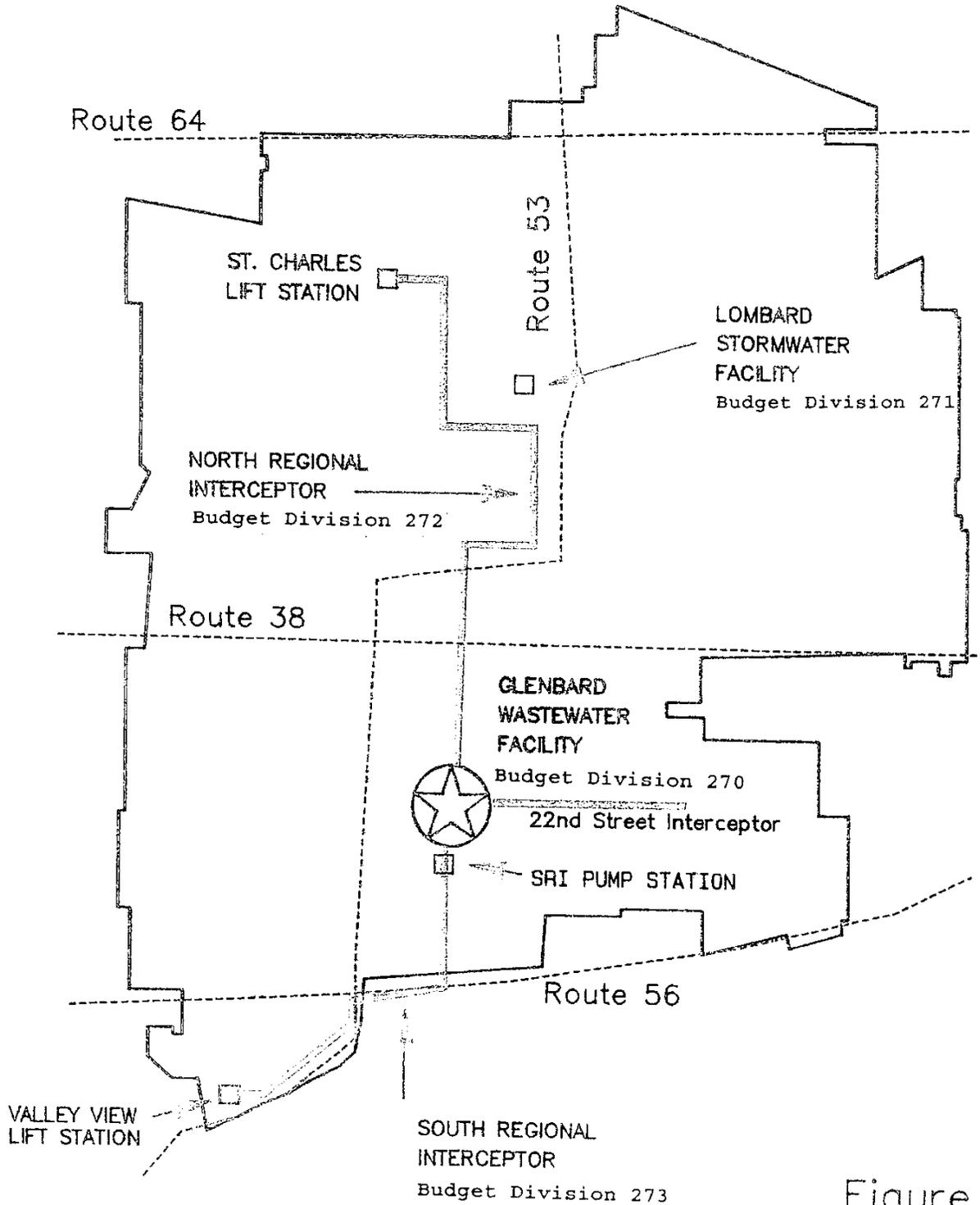


Figure 1

## **AUTHORITY ORGANIZATION**

**AUTHORITY BOARD** -- 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 1977 Intergovernmental Agreement, approve all borrowing, 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 Glen Ellyn and Lombard, 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 and has the primary responsibilities to set the strategic vision, review and approve 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.

**STAFF** -- The day-to-day operation of the facilities is under a Wastewater Manager who is appointed and approved by the Executive Oversight Committee. A preliminary budget allotment of 14.3 highly qualified individuals staff the Authority. Thirteen employees work full-time while another 7 work part-time. Eleven employees are certified by the Illinois Environmental Protection Agency in wastewater treatment operations, and 6 of those 10 employees hold Class I certificates, the highest certification possible within the State of Illinois.

## **BUDGET ORGANIZATION**

The Authority has adopted a May 1 to April 30 fiscal year to be consistent with Glen Ellyn, the lead agency. 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 and interest income. All revenue except the payments from the individual Villages is placed in the Capital Fund (Fund 40) and used solely on capital projects. There are two major funds: Operations and Maintenance (Fund 27) and the Capital Fund (Fund 40).

## **OPERATIONS AND MAINTENANCE (O&M) FUND**

This fund 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 is divided into four divisions with budgeted expenses as follows:

	<b>Actual FY 2007</b>	<b>Approved FY 2008</b>	<b>Proposed FY 2009</b>
Div. 270 - Glenbard Plant	\$2,979,441	\$3,780,350	\$3,660,500
Div. 271 - Stormwater Plant	166,155	186,000	189,000
Div. 272 - N. Reg. Int.	16,463	34,250	34,900
Div. 273 - S. Reg. Int.	14,708	26,350	27,800
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	\$3,176,767	\$4,026,950	\$3,912,200

Proposed FY 2009 operating expenses of \$5,712,200 as allocated to Glen Ellyn and Lombard, are 0.58 % (\$33,062) higher than the approved FY 2008 budget. I consider this to be a flat budget with a decrease in personnel. Staffing will be evaluated during this Fiscal year with a pay and class study that will incorporate the entire Village Of Glen Ellyn. If the pay and class study, and the Glenbard Wastewater Authority feel that more staffing is necessary we will need to request approval from the Village of Glen Ellyn, and the EOC and proceed to make an amendment to the budget to reflect the need for appropriately positioned staff.

The six most significant cost centers in the proposed FY 2009 O&M budget are as follows:

1. **Personnel:** The FY 2009 proposed staff level is at 14.3 full time equivalents (FTE). Personnel costs for the past thirteen years showing the number of full time equivalent staff are shown below. The figures are indicative of the efficiencies realized through the elimination of multiple shifts, automation and monitoring, and other optimization measures:

	<u>Budget</u>	<u>Actual</u>	<u>FTE</u>
FY95	\$1,517,300	\$1,468,000	32.5
FY96	\$1,568,000	\$1,477,458	31.5
FY97	\$1,587,600	\$1,493,096	31.5
FY98	\$1,433,080	\$1,212,197	27.5
FY99	\$1,286,970	\$ 981,950	25

FY00	\$1,074,863	\$ 837,826	20
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 (Estimated)
FY09	\$1,127,500	\$	14.3

2. **Utilities:** Electric power, natural gas, water, and telecommunications comprise Utilities, the second largest cost area 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 oxygen generation, pumping systems, mixing and various in-plant processes. Following deregulation of the electrical industry as of January 1, 2007, the Authority has experienced a surge in pricing for electricity approaching 25%

FY94	\$780,900
FY95	\$457,181
FY96	\$503,800
FY97	\$500,319
FY98	\$530,624
FY99	\$521,427
FY00	\$578,844
FY01	\$654,662
FY02	\$570,103
FY03	\$582,232
FY04	\$617,574
FY05	\$606,375
FY06	\$588,400
FY07	\$923,219
FY08	\$979,500 (Estimated)
FY09	\$1,112,300 (Budgeted)

3. **Contract Services** are separated and budgeted as Operations, Maintenance and Electrical. The FY 2008 contract services budget was \$293,500 and the FY 2009 budget is proposed at a cumulative amount of \$347,400. This includes the cost of specialized services that are more effectively and/or efficiently contracted out than completed internally. Contracts range from \$150 per year for elevator inspections to \$30,000 per year for vehicle service and maintenance fees. Contract service details are listed on pages 24, 26, 28 and 30 of the budget.

4. **Maintenance** expenses are budgeted in the amount of \$171,200. This includes both electrical and mechanical 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 maintained appropriately. These funds, coupled with those in Fund 40 allocated to Plant Equipment Rehabilitation, provide an excellent plan to maintain the Glenbard Plant process equipment. Maintenance funds cover both routine and non-routine repairs.
  
5. **Sludge (Biosolids) Disposal-Land Applied** is budgeted in the amount of \$180,000. There are two products that are created during treatment through a wastewater facility. The first of the products is the clean water discharged to the river. The processes utilized to degrade the organic compounds in the wastewater generate sludge that is further treated then land applied as a beneficial re-use. The industry term "Biosolids" was coined for the product. Livestock feed is grown on the land and the sludge acts as a fertilizer. The Glenbard sludge is particularly amenable to farm field application because the heavy metal content of the sludge is extremely low as the plant only has one significant industrial discharger.
  
6. **Chemical Costs** are budgeted in the amount of \$140,000. Different types of chemicals are used for sludge dewatering, odor control, Cryo water treatment, dechlorination, pH adjustment and other needs.

**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: sinking fund, interest earned in the Capital and O&M funds, sanitary sewer/GWA connection fees paid to both Villages, and borrowing.

The budgeted expenses for the capital fund for this year and the past two are as follows:

	<b>Actual</b>	<b>Estimated</b>	<b>Proposed</b>
	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>
Debt Payment	\$ 447,125	\$ 450,000	\$ 448,000
Project Expenses	<u>\$3,477,833</u>	<u>\$3,864,000</u>	<u>\$9,366,000</u>
Total	\$3,924,958	\$4,312,000	\$9,814,000

Proposed FY 2009 capital expenses of \$9,814,000 are 30.6% (\$3,003,000) greater than the FY 2008 approved budget. The increase reflects a plan to begin the Anaerobic Digester Project, St. Charles Road Lift Station Improvement Project, and complete the Lombard Plant Upgrade Project which began in FY08.

**ALLOCATION OF EXPENSES**

The Villages of Lombard and Glen Ellyn split the expenses for system operation, maintenance, and equipment replacement and capital according to wastewater flows contributed to each of the divisions as depicted in Table 1 and Table 2 in the Appendix.

A total of 12 remote meters are located at key points in the Authority’s system to enable the Authority to monitor these flows and allocate wastewater flows for billing purposes between the Villages of Glen Ellyn and Lombard.

A two-year average flow split of 48.997 % (Glen Ellyn) and 51.003 % (Lombard) was used to estimate the FY 2009 expense allocation for the Glenbard Plant. A two-year average flow split of 39.405 % (Glen Ellyn) and 60.595 % (Lombard) was used to estimate the FY 2009 expense allocation for the North Regional Interceptor.

Lombard pays 100% of the costs associated with the Lombard Stormwater Facility. Glen Ellyn pays 100% of the costs associated with the South Regional Interceptor, which Glen Ellyn then bills to Illinois-American Water Company. The total allocation estimates are as follows.

	<b>Approved FY 2008</b>	<b>Proposed FY 2009</b>
Village of Lombard	\$3,092,410	\$3,067,190
Village of Glen Ellyn	<u>\$2,586,728</u>	<u>\$2,595,010</u>
Total	\$5,679,138	\$5,662,200

The overall contribution by the two Villages is less by \$16,938 or - 0.30 % than the FY08 budget. The allocation to the Villages that support the O&M portion of the budget is \$3,862,200. The allocation to the Villages for support of the proposed Capital Fund is \$1,800,000 an amount that is equal to the approved FY 2008 budget.

**CONCLUSION**

The total proposed FY 2009 budget and comparisons are as follows:

	<b>Actual FY 2007</b>	<b>Approved FY 2008</b>	<b>Estimated FY 2008</b>	<b>Proposed FY 2009</b>
O&M	\$3,176,767	\$4,026,950	\$3,628,115	\$3,912,200
Capital	\$6,907,901	\$6,811,000	\$4,312,000	\$9,814,000
<b>Total</b>	<b>\$10,084,668</b>	<b>\$10,837,950</b>	<b>\$7,940,115</b>	<b>\$13,726,200</b>

**ACKNOWLEDGMENTS**

I would like to express my gratitude to the Executive Oversight Committee and the Villages of Glen Ellyn and Lombard for their continued support and stewardship in the rebuilding and updating of our aging infrastructure.

Respectfully Submitted,



Erik Lanphier  
Wastewater Manager  
Glenbard Wastewater Authority

**Glenbard Wastewater Authority  
Budget 2008-2009  
All Funds  
Expense allocation to partners**

**APPROVED FY2008 EXPENSES ALLOCATED TO PARTNERS**

	LOMBARD	GLEN ELLYN	TOTAL
Div. 270 -- Glenbard Plant	1,857,535	1,775,003	3,632,538
Div. 271 -- Storm Plant	186,000	0	186,000
Div. 272 -- North Reg. Int.	20,629	13,621	34,250
Div. 273 -- South Reg. Int.	0	26,350	26,350
Sinking Fund Capital	1,028,246	771,754	1,800,000
<b>TOTAL</b>	<b>3,092,410</b>	<b>2,586,728</b>	<b>5,679,138</b>

**ESTIMATED ACTUAL FY2008 EXPENSES ALLOCATED TO PARTNERS**

	LOMBARD	GLEN ELLYN	TOTAL
Div. 270 -- Glenbard Plant	1,758,029	1,679,918	3,437,947
Div. 271 -- Storm Plant	149,648	0	149,648
Div. 272 -- North Reg. Int.	14,377	9,493	23,870
Div. 273 -- South Reg. Int.	0	16,650	16,650
Sinking Fund Capital	1,028,246	771,754	1,800,000
<b>TOTAL</b>	<b>2,950,300</b>	<b>2,477,815</b>	<b>5,428,115</b>
<b>FY2008 BUDGET OVER (UNDER)</b>	<b>(142,110)</b>	<b>(108,913)</b>	<b>(251,023)</b>

**PROPOSED FY2009 PARTNERS ALLOCATION**

	LOMBARD	GLEN ELLYN	TOTAL
Div. 270 -- Glenbard Plant (page 2)	1,841,463	1,769,037	3,610,500
Div. 271 -- Storm Plant (page 44)	189,000		189,000
Div. 272 -- North Reg. Int. (page 48)	21,148	13,752	34,900
Div. 273 -- South Reg. Int. (page 52)		27,800	27,800
Sinking Fund Capital (page 56)	1,015,579	784,421	1,800,000
<b>TOTAL</b>	<b>3,067,190</b>	<b>2,595,010</b>	<b>5,662,200</b>

<b>Proposed FY 2009 Partners Allocation Compared to Approved Expenses Allocated to Partners FY 2008:</b>	<b>\$</b>	<b>(25,220)</b>	<b>8,282</b>	<b>(16,938)</b>
	<b>%</b>	<b>-0.82%</b>	<b>0.32%</b>	<b>-0.30%</b>

Budget 2008-2009		REVENUE				
Operations & Maintenance						
Division 270						
Glenbard Plant		Actual	Actual	Approved	Estimated	Proposed
		Revenues	Revenues	FY 2008	Revenues	FY 2009
		2006	FY 2007		FY 2008	
<b>Operation/Maintenance</b>						
450010	Glen Ellyn Share (1)	1,280,601	1,409,899	1,775,003	1,775,003	1,769,037
450015	Lombard Share	1,372,221	1,529,392	1,857,535	1,857,535	1,841,463
	<b>IRMA Reimbursement (2)</b>	<b>49,000</b>	<b>73,000</b>	<b>97,812</b>	<b>97,812</b>	<b>0</b>
460100	Interest Income - O&M Fund			50,000	50,000	50,000
	<b>Use of Available Cash</b>	<b>38,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>DIVISION 270</b>		<b>2,739,822</b>	<b>3,012,291</b>	<b>3,780,350</b>	<b>3,780,350</b>	<b>3,660,500</b>

NOTE: The flow splits used to calculate partner payments for FY 2009 are as follows:

Flow split for Glen Ellyn: 48.997%  
Flow split for Lombard: 51.003%

(for 2 yrs. average ending 12/31/07, see Appendix page 76)

The flow splits used to calculate the partner payments for FY 2008 are as follows:

Flow split for Glen Ellyn: 48.864%  
Flow split for Lombard: 51.136%

(for 2 yrs. average ending 12/31/06)

**Operations/Maintenance Fund - Available Cash Analysis**

Available Cash May 1, 2007		1,243,098
FY 08 Revenue Supplement		0
FY 08 Inflow/(Outflow) (3)		377,721
Available Cash April 30, 2008		1,620,819
25% Minimum Reserve (4)		(978,050)
Projected Available Cash Above Minimum Reserve		<b>\$642,769</b>
<b>Projected Available May 1, 2009</b>		<b>\$642,769</b>

(1) Includes Citizens Utilities and Dupage County systems.

(2) Reimbursement of accumulated reserves since termination of membership on 12/31/02.

(3) Projected rebates for Fiscal YR07 due from Lombard \$70,353 due from Glen Ellyn \$3,368 net \$73,721 inflow, projected budget overage \$304,000 results in net inflow of \$377,721.

(4) 25% minimum reserve based on \$3,912,200 Total Operating Expenditures Budgeted FY 09 (All Divisions). **\$978,050**

Budget 2008-2009		EXPENSES				
Operations and Maintenance						
Division 270		Actual	Actual	Approved	Estimated	Proposed
Glenbard Plant		FY 2006	FY 2007	FY 2008	FY 2008	FY 2009
<b>Personnel Services</b>						
510100	Salaries - Regular (1)	752,269	864,692	868,000	849,000	843,000
510110	Salaries - Part-Time Ops.(2)	37,437	32,841	46,000	31,700	40,000
510200	Salaries - Overtime (3)	82,831	89,572	100,000	77,000	100,000
510300	Salaries - Temporary/Seasonal	21,152	19,593	21,500	13,000	21,500
510400	FICA	71,994	74,037	68,450	68,000	66,500
510500	IMRF (4)	30,243	41,200	150,600	45,000	56,500
510600	State Unemployment Tax	692	0	0	0	0
	<b>Total</b>	<b>996,618</b>	<b>1,121,935</b>	<b>1,254,550</b>	<b>1,083,700</b>	<b>1,127,500</b>
<b>Contractual Services and Commodities</b>						
520305	Recognition and Awards	2,014	933	800	800	800
520600	Dues/Subs./Fees	7,380	9,016	9,000	8,000	8,800
520615	Recruiting/Testing	63	117	1,500	0	0
520620	Employee Education	26,376	20,205	16,000	14,000	25,000
520625	Travel (Mileage)	384	239	500	500	500
520700	Pro. Serv.-Legal	0	813	5,000	3,000	5,000
520750	Legal Notices	258	197	1,000	0	1,000
520775	Regulatory Fees (5)	109,763	52,500	55,000	52,500	55,000
520776	TMDL Commitment (6)	25,730	25,758	28,400	26,000	30,000
520806	Pro. Serv.-Lab.	8,537	19,683	43,500	48,437	17,500
520816	Pro. Serv.-Eng. (7)	689	0	15,000	15,000	15,000
520825	Pro. Serv.-Acct.	12,000	9,300	10,000	9,600	13,000
520885	Ins-Liab (All) (8)	67,964	101,867	100,000	82,800	90,000
520895	Ins-Health (9)	100,100	110,200	140,500	140,500	123,400
520970	Maint. - Bldg.& Grds.	7,341	14,654	11,000	12,000	11,900
520971	Bldg. & Grounds - Contractual	28,170	38,846	51,500	31,200	51,300
520975	Maint. - Equipment (10)	56,545	57,222	51,800	33,960	44,700
520976	Maint. - Contractual (11)	66,570	79,465	126,300	106,900	106,900
520980	Maint. - Electronics (12)	56,984	69,397	75,100	78,000	78,000
520981	Elect. - Contractual (13)	95,910	93,347	41,300	105,900	117,200
520990	Operations - Supplies	17,842	8,202	30,900	15,000	20,000
520991	Operations - Contractual (14)	70,909	26,027	74,400	74,000	72,000
521130	Service Charge	205,300	213,400	227,000	227,000	234,700
521150	Sludge Disposal - Land Applied (15)	61,544	66,528	180,000	170,000	180,000
521152	Sludge Disposal - Landfill (16)	0	0	0	0	0
521195	Telecommunications	34,652	40,712	40,000	45,000	46,000
521201	Electric Power (17)	345,125	434,445	840,000	740,000	840,000
521202	Natural Gas (18)	135,226	145,273	140,000	125,000	147,000
521203	Water (19)	77,679	51,224	60,000	55,800	50,000
521204	Self-Gen Gas	6,473	21,474	8,000	9,500	8,000
530100	Office Expenses	13,658	25,664	16,000	15,200	16,000
530106	Operating Supplies - Lab	18,945	20,300	15,000	15,000	21,000
530225	Safety	13,593	18,458	19,800	15,250	21,300
530440	Chemicals (20)	63,879	75,914	87,500	73,400	75,000
530445	Uniforms	5,601	6,126	4,000	5,000	7,000
	<b>Total</b>	<b>1,743,204</b>	<b>1,857,506</b>	<b>2,525,800</b>	<b>2,354,247</b>	<b>2,533,000</b>
<b>TOTAL DIVISION 270</b>		<b>2,739,822</b>	<b>2,979,441</b>	<b>3,780,350</b>	<b>3,437,947</b>	<b>3,660,500</b>

**OPERATIONS AND MAINTENANCE- DIVISION 270  
BUDGET FOOTNOTES**

- (1) **SALARIES: (\$869,000)** - Provides for a total of 13 full-time staff members. Staff's time is split among four activities including the Glenbard Plant, Lombard CSO Plant, South Regional Interceptor and North Regional Interceptor with the allocations for FY 09 as follows:

270-Glenbard Plant	\$843,000
271-Lombard CSO	17,400
272-North Regional Interceptor	4,300
273-South Regional Interceptor	<u>4,300</u>
 Total All Divisions	 \$869,000

The full-time equivalent for all staff is approximately 14.3 including part-time operators and seasonal staff, a figure that continues to be below the 16 to 18 range sought when reorganization began 7 years ago. The budget contains an itemized staffing summary on page 74.

- (2) **SALARIES-PART-TIME OPERATORS: (\$40,000)**

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 8 years we have used Part-Time Operators to provide solids processing on weekends and holidays. The use of (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 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 a full time 40 hour per week employee or 2080 hours per year.

- (3) **SALARIES - OVERTIME: (\$100,000)** - Overtime has historically been budgeted at approximately 11% of regular wages. This year the budget number is at 11.5 % of regular wages. A break down of the overtime allocation is shown on page 8.
- (4) **IMRF (\$56,500):** This year's budget is less the one time ERI Liability payment paid in December, 2006 of \$110,000. FY09 includes a staff contribution rate increase from 5.2% to 6.5%.

- (5) **REGULATORY FEES (\$55,000)** - The State of Illinois implemented permit fees in June 2003.
- (6) **TMDL COMMITMENT (\$30,000)** - Salt Creek and the East/West Branch of the DuPage River have been subject to a Total Maximum Daily Load (TMDL) analysis by the USEPA. The establishment of a TMDL for this receiving water has the potential to impose more stringent discharge standards on the Authority. Dissolved Oxygen and Chloride are water quality parameters of concern. The IEPA has made an estimate of \$18 million for improvements to facilities discharges; this is for discharges to Salt Creek only. Other costs for both direct discharge and storm water discharges to the East/West Branch of the DuPage River are not finalized, but indications are they could be significantly higher than \$18 million. Because of these high costs and future needs to meet discharge mandates of the TMDL, a local workgroup is being established in an adaptive management approach to assess the implementation of the TMDL. Increased stream monitoring and a better assessment of the water quality limitations of the water body are the targeted goal of the group. All communities or jurisdictional/operating areas were contacted for funding commitments as stakeholders related to this issue. These funds will be used to match Illinois EPA financial assistance, with local funds providing 40 percent of total project costs to conduct stream sampling and analysis. A breakdown is as follows; VGE- \$2,700, VL- \$3,900 and GWA \$23,400 based on the workgroup budget. GWA will have access to water quality monitoring data that will be helpful to our Permit conditions.
- (7) **PROFESSIONAL SERVICES - ENGINEERING (\$15,000)**  
This item covers the cost to hire a consulting engineer for small specific tasks required to implement equipment changes, operational changes or general consultation. The current organization does not include personnel that can provide these specialized services.
- (8) **INSURANCE LIABILITY (ALL): (\$90,000)** – 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 FY 09 and an excess liability policy. Line item saw no increase from FY08 to FY 09.

- (9) **INSURANCE - HEALTH: (\$123,400)** - Health care is provided through the Village of Glen Ellyn plan. The budget for FY 09 represents an approximate decrease of 12.2% from FY08.
- (10) **MAINTENANCE - EQUIPMENT: (\$44,700)** – Budget amounts for this line item were reduced in FY 05 with the creation of a new line item “Maintenance – Contractual” ( see below). Projected expenses for FY 09 indicate a slight decrease from FY 08. A detailed breakdown by area of projected maintenance equipment expenses is listed on page 25.
- (11) **MAINTENANCE - CONTRACTUAL: (\$106,900)** – This line item reflects work previously budgeted in the Maintenance-Equipment line item. The most significant expenses included in this item in FY 09 are the Cryo annual turnaround and maintenance costs (\$28,600), the engine service agreement on the Co-Gen (\$18,500), and vehicle maintenance costs (\$29,800) provided by the Village of Glen Ellyn’s Equipment Services Division. Every five years an in-depth maintenance procedure is done on the cryogenic system and the costs expensed to the Capital budget. A five-year turnaround was completed in FY 05. Proposed Oxygen facility upgrade costs continue in the O & M budget in FY 09.
- (12) **MAINTENANCE - ELECTRONICS: (\$78,000)** – This line item provides resources for the continued maintenance, repair, and improvement to the electrical system and electronic controls at the plant. A detailed breakdown by area of projected expenses is listed on page 27.
- (13) **ELECTRONICS - CONTRACTUAL: (\$117,200)** - This line item includes a variety of services provided by various vendors with regard to the electrical and electronic needs at the Glenbard Plant. Increase due to reinstating the funding necessary to continue flow metering utilized by both of the Villages and GWA for billing purposes.
- (14) **OPERATIONS - CONTRACTUAL: (\$72,000)** – The annual contracted expenses incurred by the Operations division were moved from the former “Contract Services” line item to this item in FY 05. Significant costs include residuals disposal (\$25,800), liquid oxygen purchase for the cryo turnaround (\$12,000) and contracted cryo training services (\$20,000).

- (15) **SLUDGE DISPOSAL - LAND: (\$180,000)** – FY09 continues with the budgeted amount allocated in FY08. This represents all twelve (12) months of routine Operation of the Biosolids Treatment Systems for the Fiscal Year. No monies will be budgeted as Capital expense for the Anaerobic Digester Project as was previously done during the Biosolids Improvement Project.
- (16) **SLUDGE DISPOSAL - LANDFILL: (\$0)** – This item has historically been budgeted to cover upset conditions. With the plant stabilized and no foreseeable need to landfill sludge we have opted to proceed through a second fiscal year in a row without a budget for this line item.
- (17) **ELECTRIC POWER: (\$840,000)** –With deregulation GWA entered into an agreement with Exelon for power at a demand weighted average of just under \$.06/KWH. Com Ed will also deliver electricity at costs that are estimated at approximately \$.02/KWH. Deregulation is then effectively doubling GWA's electric costs in FY08, then stabilizing for FY09.
- (18) **NATURAL GAS: (\$147,000)** - GWA utilizes a broker to purchase gas on the open market. GWA will soon be putting online the **second** larger capacity boiler during the Anaerobic Digester Improvement project therefore usage is expected to increase in FY09.
- (19) **WATER: (\$50,000)** - Potable water used at GWA is purchased from the Village of Glen Ellyn. FY2009's proposed expenses, as shown, are for water charges only, assessed at "Non-Residential" average rate of (\$7.38/1000 gal.) for an estimated total consumption amount of approximately 6,000,000 gallons for the year. Plant consumption has decreased in FY08 by approximately 1,859,000 gallons or 24% due to staff efforts to use non-potable water wherever possible.
- (20) **CHEMICALS: (\$75,000)** - Chemicals used in the daily operation of the plant are included in this section at expense levels consistent with our recent history. Different chemicals are used for sludge dewatering, odor control, acid wash, and struvite control. Struvite is a mineral deposit caused by the addition of chemicals to Lake Michigan water by the City of Chicago. Its presence causes sludge dewatering problems that require a special chemical to combat.

Glenbard Wastewater Authority  
 FY 2009 Personnel Budget  
 Division 270 -- 510100-510500

ITEM	RECOMMENDATIONS	FY 08 APPROVED	FY 09 PROPOSED
510100	Salaries-Regular	868,000	843,000
510110	Part-Time Operations	46,000	40,000
510200	Laboratory Overtime	16,000	16,000
510200	Ops. Reg. Overtime	15,000	15,000
510200	High Flow Overtime	7,000	7,000
510200	Ops. Call-In Overtime	20,000	20,000
510200	Ops. SCADA Monitoring Overtime	14,000	18,000
510200	Maint. Regular Overtime	6,000	6,000
510200	Maint. Call-In Overtime	2,000	2,000
510200	Elec. Reg. Overtime	15,000	11,000
510200	Elec. Call-In Overtime	5,000	5,000
510300	Seasonal Labor	21,500	21,500
	.5 Full Time Equivalent		
	Salaries	985,100 Regular, PT Ops & Seasonal	935,500
	Salaries	100,000 Overtime (3)	100,000
	<b>Salaries</b>	<b>\$1,085,100 Total</b>	<b>\$1,035,500</b>
510400	FICA	81,409	68,450
510500	IMRF(4)	42,580	150,600
510600	State Unemployment Tax	0	0
	<b>Personnel Services</b>	<b>\$1,209,089 Total</b>	<b>\$1,254,550</b>
			<b>\$1,127,500</b>

(1) - Increase in IMRF rate from 5.2% to 6.5%.

Budget footnotes 1, 2,3 & 4 found on pages 4 and 5 further detail the personnel budget.

**Glenbard Wastewater Authority  
 FY 2009 Recognition/Awards Budget  
 270 520305**

<b>Item</b>	<b>Recommendation</b>	<b>FY 08 Approved</b>	<b>FY 09 Proposed</b>
Recognition/Awards	Miscellaneous (Manager's Discretion)	800	800
<b>Total</b>		<b>\$800</b>	<b>\$800</b>

**Glenbard Wastewater Authority**  
**FY 2009 Dues/Fees/Subscriptions Budget**  
**270 520600**

ITEM	RECOMMENDATIONS	FY 08 Approved	Total	FY 09 Proposed	Total
Dues/Fees/Subs.	Water Environment Federation - Memberships	900		900	
	WEF - Publications	250		300	
	Assoc. for Facilities Engineering	250		0	
	Int. Maint. Institute - Memberships (5)	400		400	
	IAWA	6,675		6,675	
	Lab Meeting Registrations	200		0	
	Fox Valley Operators Association	0		200	
	Miscellaneous (Manager's Discretion)	325		325	
		<b>\$9,000</b>		<b>\$8,800</b>	

**Glenbard Wastewater Authority  
 FY 2009 Recruit/Test Budget  
 270 520615**

Item	Recommendation	FY 08 Approved	Total	FY 09 Proposed	Total
Recruiting/Testing	Chicago Tribune	400			
	Daily Herald	200			
	Coply Newspapers	200			
	Liberty Publications (Glen Ellyn News)	300			
	WEF	400			
	OMNI - Employment Physicals	0			
			<b>\$1,500</b>		<b>\$0</b>

**Glenbard Wastewater Authority**  
**FY 2009 Employee Training/Education Budget**  
**270 520620**

Administration	FY 08 Approved	FY 09 Proposed
<b>Employee Education - Administration</b>		
WEFTEC (Chicago) -- 1 attendee	0	500
Engineering seminars	500	0
Cryogenic Oxygen Conference -- 1 attendee in FY 09	0	2,000
IPSI - Illinois Public Sector Institute Training	0	1,000
<b>Operations</b>		
<b>Employee Education - Operations (6 Operators)</b>		
Cryogenic Oxygen Conference -- 1 attendee in FY 09	0	2,000
MRO Maximo CMMS Training	1,000	
WEFTEC Attendance (Chicago) -- Operations Division -- 5 attendee's	1,300	1,300
Misc Tech Seminars	0	0
Central States WEA, IAWA State Conferences	1,000	1,500
<b>Maintenance</b>		
<b>Employee Education - Maintenance</b>		
Cryogenic Oxygen Conference -- 1 attendee in FY 09	1,000	2,000
WEFTEC -- 3 attendee's	1,000	1,000
Central States State Conference (Madison, WI) -- 1 attendee	1,000	1,500
Facilities Maintenance Show -- G. Scott & 2 Maint Mech (Chicago)	100	100
Maintenance Based Courses/Seminars	500	500
ISA CIMM Certification Seminar --H. Altotti/A. Robertson	1,000	4,000
<b>Employee Education - Electrical</b>		
Cryogenic Oxygen Conference -- 1 attendee in FY 09	1,000	2,000
IBM Maximo World Conference	0	2,000
Network Certification Course--P. Dzielwior	4,000	
Facilities Maintenance, ISA Shows -- R. Freeman & P.Dzielwior (Chicago)	100	100
WEFTEC Attendance (Chicago) -- Electrical Division -- 2 attendee's	0	500
GE Fanuc (SCADA) Users Conference - R.Freeman	2,500	2,500
<b>Employee Education - Laboratory</b>		
Misc Tech Seminars	0	500
		<b>\$16,000</b>
		<b>\$25,000</b>

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**  
**FY 2009 Mileage Reimbursement Budget**  
**270 520625**

Item	Recommendation	FY 08 Approved	Total	FY 09 Proposed	Total
Travel	Travel for Seminars\Training Manufacturing Trade Shows	500		500	
		<u>\$500</u>		<u>\$500</u>	

Glenbard Wastewater Authority  
 FY 2009 Pro. Svc. Legal Budget  
 270 520700

Item	Recommendation	FY 08 Approved	Total	FY 09 Proposed	Total
Pro. Svc. Legal	Contracted Legal Assistance	5,000		5,000	
<b>Total</b>			<b>\$5,000</b>		<b>\$5,000</b>

Glenbard Wastewater Authority  
 FY 2009 Legal Notices  
 270 520750

Item	Recommendation	FY 08 Approved	Total	FY 09 Proposed	Total
Legal Notices	Chicago Tribune	500		500	
	Daily Herald	500		500	
			<b>\$1,000</b>		<b>\$1,000</b>

Glenbard Wastewater Authority  
 FY 2009 Regulatory Fees  
 270 520775  
 Recommendation

Item	FY 08 Approved	Total	FY 09 Proposed	Total
IEPA Regulatory Fees associated with all NPDES permits and sludge disposal permit as legislated by State.	55,000		55,000	
		<u>\$55,000</u>		<u>\$55,000</u>

See budget footnote #5 on page 5.

**Glenbard Wastewater Authority  
FY 2009 TMDL Commitment  
270 520776**

**Recommendation**

	FY 08 Approved	Total	FY 09 Proposed	Total
Work Group Membership fees (Mar to Feb)				
GWA	\$22,680		\$23,000	
Glen Ellyn	\$2,323		\$3,000	
Lombard	\$3,397		\$4,000	
		<u>\$28,400</u>		<u>\$30,000</u>

In response to the recent approval of TMDL (Total Max. Daily Load) reports which address the water quality of the local streams and rivers relative to their Dissolved Oxygen and Chloride levels, the IEPA has directed all wastewater treatment facilities in DuPage County to reserve funds for the efforts to improve water in Salt Creek and the East/West Branches of the DuPage River. This proposed funding is based on Work Group method established on January 26, 2005 and represents contribution for the Villages of Glen Ellyn and Lombard.

**See budget footnote #6 on page 5.**

Glenbard Wastewater Authority  
 FY 2009 Prof. Svc. Lab. Budget  
 270 520806

Item	Recommendation	FY 08 Approved	Total	FY 09 Proposed	Total
Cont. Testing	Suburban Laboratories (Process)	10,300		0	
	Suburban Laboratories (Metals)	3,200		17,500	
	NPDES Contract Samples	30,000		0	
			<b>\$43,500</b>		<b>\$17,500</b>

Glenbard Wastewater Authority  
 FY 2009 Prof. Svc. Eng. Budget  
 270 520816

Item	Recommendation	FY 08 Approved	Total	FY 09 Proposed	Total
Pro. Serv. Engr.	Engineering Fees - Contracted Expenses include electrical design engineering for Arc Flash Hazard Analysis and High Voltage Distribution System PM Development (Proposed in FY 06; projected to be done in FY 07) Funding for anticipated in-house gate installation & unforeseen repair in FY08	15,000	<b>\$15,000</b>	15,000	<b>\$15,000</b>

See budget footnote #7 on page 5.

Glenbard Wastewater Authority  
 FY 2009 Prof. Svc. Acct. Budget  
 270 520825

Item	Recommendation	FY 08 Approved	Total	FY 09 Proposed	Total
Pro. Svc. Acct. Contracted Audit/Acct. Fees		10,000		13,000	
			<u>\$10,000</u>		<u>\$13,000</u>

(1) Reduction in FY08 - FY 07 included additional costs for IEPA loan work.

**Glenbard Wastewater Authority  
 FY 2009 Ins-Liab (All) Budget  
 270 520885**

<b>Item</b>	<b>Recommendation</b>	<b>FY 08 Approved</b>	<b>Total</b>	<b>FY 09 Proposed</b>	<b>Total</b>
Ins.-Liability	Fees for Liability Insurance Coverage -- all facilities	100,000		90,000	
		<b>\$100,000</b>		<b>\$90,000</b>	

**(1) There was no increase for FY08 and No increase forecasted for FY09**

Includes annual MICA premium payment  
 and an excess liability policy.

**See budget footnote #8 on page 6.**

**Glenbard Wastewater Authority**  
**FY 2009 Health Insurance Fees Budget**  
**270 520895**

Item	Recommendation	FY 08 Approved	Total	FY 09 Proposed	Total
Ins. - Health	Fees for Employee Health Insurance Coverage	140,500		123,400	
		<b>\$140,500</b>		<b>\$123,400</b>	

Total Health Insurance Amount: \$127,200

97% - Division 270

2% - Division 271

.5% - Division 272

.5% - Division 273

**See budget footnote #9 on page 6.**

**Glenbard Wastewater Authority  
FY 2009 - Buildings and Grounds Budget  
Maintenance  
270 520970**

Designation	Recommendations	FY 08 Approved	Total	FY 09 Proposed	Total
GWA Building/Grounds	Janitorial Supplies for Village Custodians	1,000		1,000	
	Ceiling Repairs (replace tiles Lab/Offices)			500	
	Door/Lock/Misc Repairs	400		1,200	
	Yard Hydrant Replacements (2)				
	Bldg./Equipmt. Painting Supplies (Non-Contract)	4,000		4,000	
	Misc. Repair parts	1,500		1,500	
	Window Repairs	1,500		1,200	
	Planting Beds	400		500	
	Topsoil	2,200		2,000	
			<b>\$11,000</b>		<b>\$11,900</b>

**Glenbard Wastewater Authority**  
**FY 2009 - Buildings and Grounds - Contractual Budget**  
**Maintenance**

**270 520971**

**DESIGNATION**  
 Glenbard Plant

<b>RECOMMENDATIONS</b>	<b>FY 08 Approved</b>	<b>Total</b>	<b>FY 09 Proposed</b>	<b>Total</b>
Roofing Systems Survey	4,300		4,800	
Roofing Repairs (from Roofing Survey)	6,200		7,000	
Contractor Door/Lock Repairs	2,500		3,000	
Contracted Hydrant Excavation	1,000		1,000	
Spoil Removal	3,000		3,000	
Shop Towel Service			1,000	
Fire Extinguisher Service/Repairs	3,000		3,500	
Elevator Service/Repairs	2,000		2,000	
Elevator Inspections - Lombard	100		150	
Landscape Maintenance	18,000		18,000	
Pest Control	800		650	
Tru-Green Chemlawn - Turf/Shrub Disease Control	4,500		5,200	
Contracted Window Repairs	4,300		1,000	
Unanticipated Contracted Building/Grounds Repairs	1,800		1,000	
		<b>\$51,500</b>		<b>\$51,300</b>

**Glenbard Wastewater Authority**  
**FY 2009 Equipment Maintenance Budget**  
**270 520975**

Building	Designation	FY 08 Approved	FY 09 Proposed
A	Bar Screen	500	300
B	Raw Pump	4,200	4,200
C	Grit Removal	450	250
D	Primary Pump	50	850
E	Primary Scum	500	1,800
F	Unox	3,000	2,900
H	Screw Pump	500	500
I	Final Clarifiers	250	800
J	Pump/Meter	750	0
K	Thickener	0	0
L	Sand Filter	1,800	2,100
N	Warehouse	250	250
O	UV	500	0
P	Press	4,400	4,400
Q	Cryo	6,700	4,200
R	Administration	750	750
S	Maint. Garage	6,000	750
T	CRAS	0	1,150
U	Digester	1,300	800
V	Co-Gen	250	250
	Int. Clarifiers	50	0
	Electrical Shop	250	0
	Miscellaneous	19,350	18,450
	<b>TOTAL</b>	<b>\$51,800</b>	<b>\$44,700</b>

See budget footnote #10 on page 6.

**Glenbard Wastewater Authority**  
**FY 2009 Equipment Maintenance - Contractual Budget**  
**270-520976**

Building	Designation	FY 08 Proposed	FY 09 Proposed
B	Raw Pump	1,000	1,000
C	Grit	0	0
D	Primary Pump	0	1,050
F	Unox	12,500	0
I	Final Clarifiers	0	0
L	Sandfilters	1,700	500
Q	Cryo	28,600	28,600
R	Administration	2,000	2,000
S	Maint. Garage	5,750	6,700
T	CRAS	0	0
	Electric Shop	300	100
U	Digester	7,650	1,650
V	Co-Gen	18,500	18,500
	Vehicle Maintenance	27,800	29,800
	Miscellaneous	20,500	17,000
	<b>TOTAL</b>	<b>\$126,300</b>	<b>\$106,900</b>

See budget footnote #11 on page 6.

**Glenbard Wastewater Authority  
FY 2009 Electrical Budget Details  
270 520980**

<b>Building</b>	<b>Designation</b>	<b>FY 08 Approved</b>	<b>FY 09 Proposed</b>
A	Bar Screen	4,000	4,000
B	Raw Pumps	10,350	10,350
C	Grit	2,800	2,800
D	Primary Clarifier	500	500
E	Primary Pump	2,300	2,300
F	Unox Deck	7,300	7,300
G	ATAD	800	800
H	Screw Pump	2,500	2,500
I	Final Clarifier	2,300	2,300
J	Pump /Meter	2,400	2,400
K	Thickener	600	600
L	Sandfilter	4,100	4,100
N	Warehouse	1,300	1,300
O	UV	8,800	8,800
P	Press	3,100	3,600
Q	Cryo	2,800	2,800
R	Administration	3,700	3,700
S	Maint. Garage	1,300	1,300
T	CRAS	2,600	2,600
U	Digester	4,000	5,000
V	Co-Gen	3,000	4,000
	Elec. Supplies	4,550	4,950
		<b>\$75,100</b>	<b>\$78,000</b>

See budget footnote #12 on page 6.

**Glenbard Wastewater Authority**  
**FY 2009 Electrical/Electronics - Contractual Budget**  
**270 520981**

Recommendations	FY 08 Proposed	Total	FY 09 Proposed	Total
Network\Communications Consulting	6,500		6,500	
Intellution iFIX Global Support	7,000		8,000	
Fire\Security Alarm Sytems Monitoring	400		400	
Software Support Agreements(Veritas, Watchguard)	1,600		1,700	
Software Support Agreement MRO (Maximo)	5,100		5,300	
ADS Flow Meter Maintenance\Data Analysis Training			90,000	
Site Lighting Tri-annual Service	7,000		0	
HVAC Service	5,000		5,300	
Administration Chiller				
Co-Gen Rooftop A/C Unit				
CRAS Rooftop A/C Unit				
Maintenance Garage H/AC Wall Unit				
Cryogenics Control Room H/AC Wall Unit				
Sandfilter Dehumidifiers/Rooftop Condensers				
UV Dehumidifiers/Rooftop Condensers				
Sandfilter Control Room Condenser				
Co-Gen Switchgear Bi-Annual PM (Due FY 08)	5,000		0	
Co-Gen Protection Relay Bi-Annual Calibration (Due FY 08)	3,700		0	
		<b>\$41,300</b>		<b>\$117,200</b>

See budget footnote #13 on page 6.

**Glenbard Wastewater Authority  
 FY 2009 Operations - Supplies Budget  
 270 520990**

Item	Recommendations	FY 08 Proposed	Total	FY 09 Proposed	Total
Operating Supplies	Operational Supplies	20,450			
	Misc. Supplies			15,000	
	Home Depot				
	Blue Book				
	McMaster-Carr				
	McCann Equipment				
	Ace Hardware				
	Carbit Paint				
	Hose Replacements	10,450		5,000	
			<b>\$30,900</b>		<b>\$20,000</b>

**Glenbard Wastewater Authority**  
**FY 2009 Operations - Contractual Budget**  
**270 520991**

BUILDING	Designation	Recommendations		FY 08 Proposed	Total	FY 09 Proposed	Total
			Ford Hall Company - Final Brush Service Contract	5,000		2,500	
C	Grit		Crown Disposal -- Grit Disposal	24,600		25,800	
			Wetwell Cleaning	7,500		6,000	
R	Admin		Crown Disposal - Recycling	800		1,000	
Q	Cryo		Prax-Air Gases -- Oxygen Purchase for Turnaround	12,000		12,000	
			Mixing & Mass Transfer - Cryo Training	20,000		20,000	
			Geen -- Cooling Water Conditioning Consultation	4,500		4,700	
			Recycle fees for replaced UV lamps (done every 4-6 years)	0		0	
					<b>\$74,400</b>		<b>\$72,000</b>

See budget footnote #14 on page 7.

**Glenbard Wastewater Authority  
FY 2009 Service Charge Budget  
270 521130**

Item	Recommendation	FY 08 Proposed	Total	FY 09 Proposed	Total
Service Charge	Village of Glen Ellyn -- Administration fees	227,000		234,700	
		<u>\$227,000</u>		<u>\$234,700</u>	

Total Service Charge Amount: \$242,000  
 97% - Division 270  
 2% - Division 271  
 0.5% - Division 272  
 0.5% - Division 273

**Glenbard Wastewater Authority  
 FY 2009 Sludge Disposal - Land App. Budget  
 270 521150**

Item	Recommendation	FY 08 Proposed	Total	FY 09 Proposed	Total
Sludge Disposal	Stewart Spreading -- Trucking fees for Sludge Removal	180,000		180,000	
<b>Total</b>			<b>\$180,000</b>		<b>\$180,000</b>

See Budget Footnote # 15 on Page 7.

**Glenbard Wastewater Authority**  
**FY 2009 Sludge Disposal - Land Fill Budget**  
**270 521152**

Item	Recommendation	FY 08 Proposed	Total	FY 09 Proposed	Total
Sludge Disposal	Fees for disposal of In-House Pressed Waste Activated Sludge	0		0	
		<u>\$0</u>		<u>\$0</u>	

**See Budget Footnote # 16 on page 7.**

Glenbard Wastewater Authority  
 FY 2009 Telecomm Budget  
 270 521195

Item	Recommendations	FY 08 Prop.	Total	FY 09 Prop.	Total
Glenbard	Att - Long Distance	1,700		500	
	Att - SCADA 800 Lines	3,200		400	
	RG-1	280		320	
	EF-1	270		320	
	Admin - 790-1901	11,950		13,200	
	Main Phone Lines (1901, 1902, 1903, 1904)				
	SCADA Dial-up Lines (0459, 0689, 2097)				
	SCADA Pager/Redundant Pager (0958, 4487)				
	SCADA 800 Service (Operator Home Monitoring)				
	Office Private Lines (1960, 1974, 1975, 1995, 1996)				
	ComEd Rider 27 Alarm (1486)				
	Brokered Nat. Gas Meter Reader (0407)				
	ADS Modem (1482), E-911-DID #s				
	Fax - 858-8119	300		360	
	Internet Service Provider\DSL	900		900	
	Nextel Cellular Service (includes scada aircards)	5,400		8,000	
	SCADA Polling Network	16,000		22,000	
			<b>\$40,000</b>		<b>\$46,000</b>

**Glenbard Wastewater Authority  
FY 2009 Electrical Power Budget  
270 521201**

Item	Recommendation	FY 08 Proposed	Total	FY 09 Proposed	Total
Electrical Power	Fees for purchase of Electric Power & ComEd Delivery Services	840,000		840,000	
			<u>\$840,000</u>		<u>\$840,000</u>

See Budget Footnote # 17 on page 7.

Glenbard Wastewater Authority  
 FY 2009 Natural Gas - Brokered - Budget  
 270 521202

Item	Recommendation	FY 08 Proposed	Total	FY 09 Proposed	Total
Nat. Gas - Brokered	Fees for Direct and Brokered purchase of Natural Gas	140,000		147,000	
		<u>\$140,000</u>			<u>\$147,000</u>

See budget footnote #18 on page 7.

Glenbard Wastewater Authority  
 FY 2009 Water Budget

270 521203

Recommendation

Item		FY 08 Proposed	Total	FY 09 Proposed	Total
Water	Fees for purchase of Potable Water - Village of Glen Ellyn	60,000		50,000	
			<u>\$60,000</u>		<u>\$50,000</u>

**Glenbard Wastewater Authority**  
**FY 2009 Natural Gas - Non-Brokered - Budget**  
**270 521204**

Item	Recommendation	FY 08 Proposed	Total	FY 09 Proposed	Total
Nat. Gas - Non-Brokered	Fees for purchase of Natural Gas (Co-Generation Unit)	8,000		8,000	
			<u>\$8,000</u>		<u>\$8,000</u>

**Glenbard Wastewater Authority  
FY 2009 Office Supplies Budget  
270 530100**

Item	Recommendation	FY 08 Proposed	Total	FY 09 Proposed	Total
Office Supplies	Supplies for Administrative Management functions (I.e. Office Supplies, Federal Express, postage, printer/fax, copier supplies, printing)	10,300		10,300	
	Minolta Bus. Sys. Support (copy machine)	2,200		2,200	
	Savin Fax Support	400		400	
	Office Machine Repair Parts/Services	1,200		1,200	
	Coffee Machine Services/Supplies	1,900		1,900	
	<b>Total</b>	<b>\$16,000</b>		<b>\$16,000</b>	

Glenbard Wastewater Authority  
 FY 2009 Laboratory Supplies Budget  
 270 530106

Item	Recommendation	FY 08 Proposed	Total	FY 09 Proposed	Total
Laboratory Supplies	Laboratory Consumables and Glassware	15,000		21,000	
		<u>\$15,000</u>		<u>\$21,000</u>	

**Glenbard Wastewater Authority**  
**FY 2009 Safety Budget**  
**270 530225**

Item	Recommendation	FY 08 Approved	Total	FY 09 Proposed	Total
Admin	Portable Gas Detection Meter Cal Gas	1,000		1,000	
	Portable Gas Detection Meter Repair Parts	1,400		2,750	
	Confined Space Equip. Repairs/Replacement	1,400		1,750	
	Safety Shoes (\$140 max. allowance)	2,600		2,650	
	Prescription Safety Glasses	300		300	
	Defibrillator Battery and Service Check	300		300	
	Respond (First Aid Kit Supplies)	350		350	
	OSHA 500 Course (emp @ 700)	0		750	
	Safety Supplies from Vendors	6,450		6,450	
	Safety Program Consultations & Training	3,500		2,500	
	Safety Suggestion Awards (monthly gift cards + safety sug)	1,500		1,500	
	Site Safety and Signage	1,000		1,000	
	<b>Total</b>		<b>\$19,800</b>		<b>\$21,300</b>

**Glenbard Wastewater Authority  
FY 2009 Chemical Supplies Budget  
270 530440**

Item	Recommendation	FY 08 Proposed	Total	FY 09 Proposed	Total
Treatment Costs	Chemicals that are utilized through daily operation. Polymer, odor control, struvite control, ammonia meter chemicals, acid wash, and odor control chemicals Odor Management -- Odor Chemicals High PSI - Sludgehammer - Press Bldg. Cleaning Polydyne - Polymer Schaners - Struvite Control Ulrich Chemicals - Potassium Permanganate	72,000		75,000	
		15,500	<u>\$87,500</u>		<u>\$75,000</u>

Glenbard Wastewater Authority  
 FY 2009 Uniforms Budget  
 270 530445

Item	Recommendation		FY 08 Proposed	Total	FY 09 Proposed	Total
Uniforms	Uniform Replacements		4,000	<u>\$4,000</u>	7,000	<u>\$7,000</u>
Total			4,000	<u>\$4,000</u>	7,000	<u>\$7,000</u>

<b>Budget 2008-2009</b>						
<b>Operations &amp; Maintenance</b>						
<b>Division 271</b>						
<b>Stormwater Plant &amp; 22nd St. Interceptor</b>						
		<b>Actual</b>	<b>Actual</b>	<b>Approved</b>	<b>Estimated</b>	<b>Proposed</b>
		<b>FY 2006</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 08</b>	<b>FY 2009</b>
<b>Operation/Maintenance</b>						
4712	Lombard Share	132,399	166,155	186,000	149,648	189,000
ASOOL						
<b>DIVISION 271</b>		<b>132,399</b>	<b>166,155</b>	<b>186,000</b>	<b>149,648</b>	<b>189,000</b>

NOTE: Stormwater plant operates only in high flow conditions.  
 Lombard discharges only flow to plant, pays all costs.  
 Plant handles stormwater from Lombard's combined sewers.  
 Plant is located at Hill Avenue and Interstate 355.

<b>Budget 2008-2009</b>		<b>EXPENSES</b>				
<b>Operations &amp; Maintenance</b>						
<b>Division 271</b>						
<b>Lombard Stormwater Plant</b>		<b>Actual</b>	<b>Actual</b>	<b>Approved</b>	<b>Estimated</b>	<b>Proposed</b>
		<b>FY 2006</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2008</b>	<b>FY 2009</b>
<b>Personnel Services</b>						
510100	Salary-Regular	12,979	6,110	18,000	15,000	17,400
510200	Overtime	2,775	5,222	7,000	5,000	7,000
510400	FICA	1,158	838	1,500	1,148	1,800
510500	IMRF	495	477	3,100	800	2,100
	<b>Total</b>	<b>17,407</b>	<b>12,647</b>	<b>29,600</b>	<b>21,948</b>	<b>28,300</b>
<b>Contractual Services</b>						
520806	Pro. Serv.-Lab	0	0	7,000	2,000	0
520970	Maint.-Bldgs.& Grnds.	5,698	6,235	15,600	8,400	13,200
520975	Maint.-Equipment	2,431	8,025	5,300	2,200	3,400
520980	Maint.-Electronics	4,205	5,053	5,300	2,300	5,400
530105	Operations	4,788	458	1,000	500	2,000
521130	Service Charge	4,100	4,400	4,600	4,600	4,900
521195	Telecommunications	1,639	1,993	2,000	2,400	2,400
521125	Leased Equipment	0	0	0	0	0
521201	Electric Power	14,736	11,572	24,000	26,200	28,000
521202	Natural Gas	6,051	5,380	6,500	4,000	6,800
521203	Water	456	2,816	4,000	2,000	4,000
520816	Design Engineering	0	0	0	0	0
520895	IFT-InsFnd(Hlth)	2,100	2,300	3,100	3,100	2,600
520775	Regulatory Fees (See #4 on page 5 )	47,065	22,500	23,000	20,000	23,000
	<b>Total</b>	<b>93,269</b>	<b>70,732</b>	<b>101,400</b>	<b>77,700</b>	<b>95,700</b>
<b>Commodities</b>						
530440	Chemicals	21,723	82,776	55,000	50,000	65,000
	<b>Total</b>	<b>21,723</b>	<b>82,776</b>	<b>55,000</b>	<b>50,000</b>	<b>65,000</b>
<b>Total Division 271</b>		<b>132,399</b>	<b>166,155</b>	<b>186,000</b>	<b>149,648</b>	<b>189,000</b>

**Glenbard Wastewater Authority**  
**FY 2009 Budget -- Div 271 -- Lombard**

Item	Recommendations	FY 08 Approved Total	FY 09 Proposed Total
510100	Regular	18,000	17,400
510200	Overtime	7,000	7,000
510400	FICA	1,500	1,800
510500	IMRF	3,100	2,100
		<b>29,600</b>	<b>28,300</b>
520806	Prof. Svc. Lab.(1)	7,000	0
		<b>7,000</b>	<b>0</b>
520970	Building/Grounds		
	Bldg/Grnds - Contract		
	Misc. Repairs	2,000	1,500
	Sidewalk Repairs	0	0
	Door/Lock/Window Repairs	3,000	2,000
	Landscape Maintenance	6,000	6,000
	Pest Control	400	250
	Fire Extinguisher Service/Repairs	400	450
	Tru-Green Chemlawn	1,200	1,200
	Roof Inspection	600	300
	Roof Repairs	1,000	1,000
	Sidewalk Repairs	1,000	500
		<b>15,600</b>	<b>13,200</b>
520975	Maintenance		
	Unanticipated Equipment Repairs	2,000	2,000
	Truck Wheel Stops	200	
	Yard Hydrant Replacement	800	
	Peristaltic Pump Replacement Hose	700	600
	Unanticipated Equipment Repairs	600	525
	Tree Trimming to Lagoon	0	0
	RPZ Inspections	1,000	275
		<b>5,300</b>	<b>3,400</b>
520980	Elect. Maintenance		
	Control Panel PM/Repairs	200	200
	Electrical Distribution PM/Repairs	2,000	2,000
	HVAC Equipment PM/Repairs	300	300
	Instrumentation PM/Repairs	800	800



Operation/Maintenance		REVENUE				
		Actual FY 2006	Actual FY 2007	Approved FY 2008	Estimated FY 2008	Proposed FY 2009
USD 04711	Glen Ellyn Share	6,662	6,502	13,621	9,493	13,752
USD 04712	Lombard Share	10,371	9,961	20,629	14,377	21,148
<b>Total</b>		<b>17,034</b>	<b>16,463</b>	<b>34,250</b>	<b>23,870</b>	<b>34,900</b>
<b>DIVISION 272</b>		<b>17,034</b>	<b>16,463</b>	<b>34,250</b>	<b>23,870</b>	<b>34,900</b>

NOTE: The North Regional Interceptor (NRI) begins at the St. Charles Lift Station, located next to Ackerman Park in Glen Ellyn. An 18 inch diameter force main exits the lift station and runs east down St. Charles Road to the I-355 Tollway, where the line 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 inches as trunk sewers from both 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, which means they carry both sanitary sewage and stormwater runoff. The three combined sewers have "regulators" before they enter the NRI. The purpose of these regulators is to limit the amount of stormwater that is treated at the Glenbard Plant. This is done by diverting any flow above 2.5 times the dry weather flow to the Lombard Stormwater Facility. These regulators were converted to Vortex Regulators as part of the Lombard Plant upgrade in 2002.

The NRI moves about 65% of the total flow to the Glenbard Plant.

NRI flow split for Glen Ellyn: 39.769% 39.405%  
 NRI flow split for Lombard: 60.231% 60.595%

The flow splits used for FY 09 partner allocation are the 2 year average detailed in the appendix on page 77.

**Budget 2008-2009**  
**Operations & Maintenance**  
**Division 272**  
**North Regional Interceptor (NRI)**

**EXPENSES**

		<b>Actual FY 2006</b>	<b>Actual FY 2007</b>	<b>Approved FY 2008</b>	<b>Estimated FY 2008</b>	<b>Proposed FY 2009</b>
<b>Personnel Services</b>						
510100	Salary-Regular	2,625	2,411	4,300	2,500	4,300
510200	Overtime	91	0	1,200	600	1,200
510400	FICA	199	177	850	350	400
510500	IMRF	93	101	200	100	400
	<b>Total</b>	<b>3,008</b>	<b>2,689</b>	<b>6,550</b>	<b>3,550</b>	<b>6,300</b>
<b>Contractual Services</b>						
520970	Maint.-Bldgs. & Grnds.	105	150	800	500	700
520975	Maint.-Equipment	2,046	1,576	1,800	3,500	2,000
520980	Maint.-Electronics	696	654	3,000	1,500	3,200
521130	Service Charge	800	1,100	1,100	1,100	1,200
521195	Telecommunications	728	814	800	920	900
521125	Leased Equip.	0	0	0	0	0
521201	Electric Power	9,250	8,880	19,400	12,000	20,000
520895	IFT-InsFnd(Hlth)	400	600	800	800	600
	<b>Total</b>	<b>14,025</b>	<b>13,774</b>	<b>27,700</b>	<b>20,320</b>	<b>28,600</b>
<b>Total Div. 272</b>	<b>Total</b>	<b>17,033</b>	<b>16,463</b>	<b>34,250</b>	<b>23,870</b>	<b>34,900</b>



521195	Telecomm	St. Charles Lift Station Phone NRI-1 858-9672	300 250 250	300 300 300
		<b>Telecom</b>	<u>800</u>	<u>900</u>
521125	Leased Equipment		0	0
521201	Electricity		19,400	20,000
520895	IFT-Ins Fund		800	600
		<b>Div 272 Total</b>	<u>\$34,250</u>	<u>\$34,900</u>

<b>Budget 2008-2009</b>		<b>REVENUE</b>				
<b>Operations &amp; Maintenance</b>						
<b>Division 273</b>						
<b>South Regional Interceptor</b>		<b>Actual</b>	<b>Actual</b>	<b>Approved</b>	<b>Estimated</b>	<b>Proposed</b>
		<b>FY 2006</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2008</b>	<b>FY 2009</b>
<b>Operation/Maintenance</b>						
4711	Glen Ellyn Share	13,715	14,708	26,350	16,650	27,800
15000						
<b>DIVISION 273</b>		<b>13,715</b>	<b>14,708</b>	<b>26,350</b>	<b>16,650</b>	<b>27,800</b>

NOTE: The South Regional Interceptor (SRI) begins at the Valley View Lift Station, located at the corner of Shagbark and Arbor in the Valley View Subdivision. The Valley View Subdivision is south of Route 56, and lies between Route 53 and Park Boulevard. A 10 inch force main exits the Valley View Lift Station and runs north along Route 53 for about 1.0 mile, where it becomes a gravity sewer. The SRI then runs about 1.5 miles to the SRI Pump Station which pumps the wastewater to the Glenbard facility. During the 1.5 miles the diameter changes to 18 inches and 30 inches as three additional sewers enter the SRI.

The sewage in the SRI is exclusively from collection systems operated and maintained by Illinois-American, a private utility company regulated by the Illinois Commerce Commission. Glenbard provides sewage treatment for Illinois-American, who contracts for this service through Glen Ellyn. The Glen Ellyn portion of the Glenbard bill includes treatment costs for Illinois-American flow.

The SRI moves about 7% of the total Glenbard flow.

<b>Budget 2008-2009</b>						
<b>Operations &amp; Maintenance</b>						
<b>Division 273</b>						
<b>South Regional Interceptor (SRI)</b>						
<b>EXPENSES</b>						
		<b>Actual</b>	<b>Actual</b>	<b>Proposed</b>	<b>Estimated</b>	<b>Proposed</b>
		<b>FY 2006</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2008</b>	<b>FY 2009</b>
<b>Personnel Services</b>						
510100	Salary-Regular	2,669	2,411	4,300	2,500	4,300
510200	Overtime	129	278	1,200	300	1,200
510400	FICA	205	197	850	200	400
510500	IMRF	94	115	200	150	400
	<b>Total</b>	<b>3,097</b>	<b>3,001</b>	<b>6,550</b>	<b>3,150</b>	<b>6,300</b>
<b>Contractual Services</b>						
520970	Maint.-Bldgs.&Grnds.	23	375	1,300	500	1,000
520975	Maint.-Equipment	4,632	1,369	3,500	2,500	4,500
520980	Maint.-Electronics	0	0	3,000	1,500	3,200
521130	Service Charge	800	1,100	1,100	1,100	1,200
521195	Telecommunications	1,511	1,796	1,800	2,100	2,500
521125	Leased Equipment	0	0	0	0	0
521201	Electric Power	3,252	6,467	8,300	5,000	8,500
520895	IFT-InsFnd(Hlth)	400	600	800	800	600
	<b>Total</b>	<b>10,618</b>	<b>11,707</b>	<b>19,800</b>	<b>13,500</b>	<b>21,500</b>
<b>Total Division 273</b>		<b>13,715</b>	<b>14,708</b>	<b>26,350</b>	<b>16,650</b>	<b>27,800</b>

**Glenbard Wastewater Authority  
FY 2009 Budget -- Div 273 -- SRI**

DESIGNATION	Item	Recommendation	FY 08 Proposed	Total	FY 09 Proposed	Total
510100	Payroll	Regular	4,300		4,300	
510200		Overtime (Includes Snow Removal)	1,200		1,200	
510400	FICA		850		400	
510500	IMRF		200		400	
		<b>Personnel</b>		<b>6,550</b>		<b>6,300</b>
520970	Building and Grounds	Misc	300		0	
	Bldg./Grnds - Contracted	Landscape Maintenance	1,000		1,000	
				<b>1,300</b>		<b>1,000</b>
520975	Maint. Equip. Valley View Lift Station SRI Lift Station Equipmt. Maint. - Contract	Seal Water Filters Pump Maintenance Patten Generator Service	2,000 1,500		100 2,900 1,500	
				<b>3,500</b>		<b>4,500</b>
520980	Elec. Maintenance	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 Safety Equipment PM/Repairs SCADA System PM/Repairs Telecommunications PM/Repairs	400 500 200 800 100 100 200 0 500 200		400 500 200 1,000 100 100 200 0 500 200	
				<b>3,000</b>		<b>3,200</b>
521130	Svc. Charge			<b>1,100</b>		<b>1,200</b>
521195	Telecom	Valley View Lift Station Phone DC-1 N-15	225 225 225		315 315 315	

N-36	225	315	
NGE-1	225	310	
MK-1	225	310	
S-3	225	310	
WGE-1	225	310	
	<u>1,800</u>	<u>2,500</u>	
521125	Leased Equipment	0	0
521201	Electricity	8,300	8,500
520895	IFT-Ins Fund	800	600
		<u>\$26,350</u>	<u>\$27,800</u>



REVENUE in Thousands\$	FY(2005)		FY(2006)		FY(2007)		FY(2008)		FY(2009)		FY(2010)		FY(2011)		FY(2012)		FY(2013)		FY(2014)		FY(2015)		FY(2016)		FY(2017)			
	Actual	Budget	Actual	Estimated																								
Proceeds from Borrowing (A)	1653		672	2125	0	0	0	0	4800	1300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Income	106		245	155	310	155	214	85	60	59	97	157	153	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
Glen Ellyn Conn Fees	27		81	90	76	90	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
Lombard Conn Fees	157		160	266	266	50	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
Miscellaneous Revenue (B)	6		38	10	68	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O&M Sinking Fund (C)	1942		2078	1800	2000	1800	1800	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
CoGen Payback	0																											
<b>TOTAL REVENUE</b>	<b>3891</b>		<b>3274</b>	<b>4230</b>	<b>2740</b>	<b>4230</b>	<b>7004</b>	<b>3585</b>	<b>2460</b>	<b>2659</b>	<b>2897</b>	<b>3157</b>	<b>3353</b>	<b>3380</b>	<b>3402</b>													
<b>EXPENSES in Thousands\$</b>																												
<b>Debt Service Payments:</b>																												
CSC Project Debt Payment (Principle & Interest)	37		37	74	374	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74
BIP Project Debt Payment (Principle & Interest)			187	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374
Ana Digester Project Debt Payment (Principle & Interest)																												
<b>Debt Service Subtotal</b>	<b>37</b>		<b>224</b>	<b>448</b>																								
<b>Projects:</b>																												
Ads Flow Meter Upgrades																												
Bar Screen Study																												
Bar Screen Project (1)					426																							
Bioreactor for Odor Control																												
Digester Improvement Project Construction Interest																												
Digester Improvement Project Construction (2)																												
Biosolids Improvement Project (BIP)	2625		292	2125	1081	2125	4800	200																				
A. Landfill/Hauling Fees for Bio Project (3)	297		222	96	96																							
B. Complete Existing Work (4)			175	100	528	100																						
C. Legal Fees (5)			14		11																							
D. SCADA Programming (6)																												
Resident Engineering Fees																												
Clarifier Drive Purchase (7)	37				84	50																						
Clarifier Trough Repl/Painting																												
Computerized Maint Mgmt (8)	3		4		4																							
CRAS Waste Pump System (9)	29																											
Cycle 5 Yr Maintenance	42																											
Elect. Distribution Maint (11)	45				236	75																						
Elect. Distribution Upgrade (U), Sandfilter Bldg (12)	154		18																									
Facilities Plan Update (13)			81		35																							
A. Raw Pumps/Wet Weather (14)																												
B. Odor Control (15)																												
C. Phosphorus Removal (16)																												
Grit Removal Equipment Evaluation	62																											
Grit Removal Process Improvements (17)	6		1314		96																							
Infrastructure Upgrades (18)	131		155		114	167	201	150	150	300	150	150	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Lab Fire Suppression System Replacement (19)																												
Lift Station Conveyance Systems (D), (20)	288		27	250	97	250	3000	50	50	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700
Lombard Clarifier Replacement																												
Lombard Upgrades (21)																												
Nitro Ph Adjustment System																												
Oxygen System Rehabilitation Plan (22)																												
Plant Equipment Rehabilitation (23)	146		270	250	98	250	249	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
Resident Engineering																												
Rolling Stock (24)																												
Roof Replacements (25)	66		60		27		20	33	20	49	49	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Sandfilter Project Study																												
Sludge Pail Upgrade (26)																												
Small Capital Projects (27)	53		69		91	72	142	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
<b>Project Total</b>	<b>3987</b>		<b>2757</b>	<b>3864</b>	<b>3031</b>	<b>3864</b>	<b>9366</b>	<b>2673</b>	<b>1396</b>																			
<b>DEBT SERVICES / PROJECTS TOTAL EXPENSES</b>	<b>4024</b>		<b>2981</b>	<b>4312</b>	<b>3479</b>	<b>4312</b>	<b>9814</b>	<b>4143</b>	<b>2466</b>	<b>1833</b>	<b>1596</b>	<b>3251</b>	<b>2751</b>	<b>2903</b>	<b>3871</b>													
Cash on Hand 5/1	5323		5190	4744	5483	4744	4662	1852	1295	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288
Gain/Loss FY	(133)		293	(82)	(739)	(82)	(2810)	(556)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
Cash on Hand 4/30	5190		5483	4744	4744	4662	1852	1295	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288	1288

Budget 2008-2009						
Capital Projects Detail						
		Actual FY 2006	Actual FY 2007	Approved FY 2008	Estimated FY 2008	Proposed FY 2009
40 430020	IEPA BIO SOLIDS LOAN REVENUE	671,968				
40 440600	CONNECTION FEES - GLEN ELLYN	80,817	76,033	40,000	90,000	65,000
40 440601	CONNECTION FEES - LOMBARD	159,995	286,440	180,000	50,000	50,000
40 450025	O & M SINKING FUND	2,077,826	2,000,000	1,800,000	1,800,000	1,800,000
40 460100	INVESTMENT INCOME	244,917	310,416	155,000	155,000	207,000
40 480200	CAPITALIZED INTEREST					
40 480450	PROCEEDS FROM BORROWING			7,000,000	2,125,000	4,800,000
40 489000	MISCELLANEOUS REVENUE	38,196	67,449	10,000	10,000	-
40 489200	G/L ON SALE OF FIXED ASSETS					
<b>REVENUES</b>		<b>3,273,719</b>	<b>2,740,338</b>	<b>9,185,000</b>	<b>4,230,000</b>	<b>6,922,000</b>
40 550050	IEPA CSO LOAN PRINCIPAL	28,976	59,120	60,700	61,000	61,000
40 550900	IEPA CSO LOAN INTEREST EXPENSE	7,829	14,489	12,900	13,000	13,000
40 550100	IEPA BIOSOLIDS LOAN PRINCIPAL	144,669	294,940	302,600	303,000	311,000
40 550950	IEPA BIOSOLIDS LOAN INT EXP	42,089	78,576	71,000	71,000	63,000
40 550110	IEPA DIGESTER PRINCIPAL			324,700	-	-
40 550960	IEPA DIGESTER INTEREST			350,200	-	-
<b>PRINCIPAL &amp; INTEREST TOTALS:</b>		<b>223,563</b>	<b>447,125</b>	<b>1,122,100</b>	<b>448,000</b>	<b>448,000</b>
40 520700 00301	BIOSOLIDS - LEGAL FEES	13,801	10,698			
40 540000	DEPRECIATION EXPENSE					
40 570155	ROLLING STOCK - VEHICLES	60,409	27,200			20,000
40 580120	SMALL CAPITAL PROJECTS	56,414	90,751	72,000	72,000	142,000
40 580140	INFRASTRUCTURE UPGRADES	91,626	107,440	167,000	167,000	201,000
40 580140 <del>00201</del>	ROOF UPGRADES <b>60901</b>					99,000
40 580140 00301	BIOSOLIDS INFRASTR UPGRADES	26,500	2,781			
40 580140 00503	TELEPHONE SYSTEM	36,636				
40 580140 10501	ROADWAY RPRS & RESURFACING		3,946			
40 580150	PLANT EQUIPMENT REHABILITATION	70,591	59,653	250,000	250,000	249,000
40 580150 00501	CRYO R&M AND UPGRADES	61,286				
40 580150 00502	RAW SEWAGE PUMP SEAL	89,974	9,172			
40 580150 00504	SLIDE GATES	48,520				
40 580150 <del>00902</del>	OXYGEN SYSTEM REHABILITATION					255,000
40 580150 00601	SCREW PUMP REHAB		29,363			
40 580220	BAR SCREEN PROJECT		425,538			
40 580231	BIOSOLIDS IMPROVEMENTS				100,000	
40 580231 00301	BIOSOLIDS IMPROVEMENTS	291,896	1,081,164	3,900,000	-	
40 580233	BIO PROJ LANDFILL HAULING FEES	36,839				
40 580233 00301	BIO PROJ LANDFILL HAULING FEES	184,915	96,394			
40 580235	BIO SOLIDS ENGINEER SERVICES					
40 580235 00301	BIO SOLIDS ENGINEER SERVICES	175,219	305,826			
40 580235 00801	BIO SOLIDS ENGINEER SERVICES					
40 580236	BIOSOLIDS IMPROV SCADA PROGRMG					
40 580236 00301	BIOSOLIDS IMPROV SCADA PROGRMG					
40 580237	BIOSOLIDS NTP-1					
40 580237 00301	BIOSOLIDS NTP-1		222,306	100,000		
40 580239	ANAEROBIC DIGESTER IMPROVEMENTS				2,125,000	4,800,000
40 580260	CLARIFIER DRIVE PURCHASE		84,425	50,000	50,000	
40 580280	COMPUTERIZED MAINT MANAGEMENT	3,706	3,706			
40 580290	CRAS WASTE PUMP SYSTEM		0			
40 580360	ELECTRICAL DISTRIBUTION MAINT		236,436	75,000	75,000	
40 580365	ELECT DIST UPRGD UV/SNDFLTR BL					
40 580365 00402	REDUNDANT POWER FEED	18,315				
40 580400	GRIT CHAMBER REBUILD					
40 580405	GRIT REMOVAL PROCESS IMPRVMTS					
40 580405 00302	GRIT REMOVAL PROCESS IMPRVMTS	1,313,515	96,329	43,800	-	
40 580430	LAB FIRE SUPPRESSION SYS REPLC		3,563			
40 580450	LIFT STATION CONVY SYSTM REPAR	13,377	35,805			
40 580450 00401	ST. CHARLES LIFT STATION	9,772	6,367	250,000	250,000	3,000,000
40 580450 00505	SRI MANHOLE PROJECT	4,141	54,410			
40 580470	LOMBARD CLARIFIER/WEIR STUDY		2,742			
40 580475	LOMBARD PLANT UPGRADES			775,000	775,000	400,000
40 580600	FACILITIES PLAN UPDATE	80,607	34,693			
40 580600 <del>00100</del>	ODOR CONTROL <b>00903</b>					200,000
40 580650	SLUDGE PAD UPGRADE					
40 580650 00506	SLUDGE PAD UPGRADE	68,977				
		<b>2,757,035</b>	<b>3,030,708</b>	<b>5,682,800</b>	<b>3,864,000</b>	<b>9,366,000</b>
		<b>2,980,598</b>	<b>3,477,833</b>	<b>6,804,900</b>	<b>4,312,000</b>	<b>9,814,000</b>

**Glenbard Wastewater Authority**  
**Summary of Projected Future Debt Service Payments**  
**As of May 1, 2008**

	<b>Lombard CSO Upgrade</b>	<b>Biosolids Improvement Project</b>	<b>Digester Project</b>	<b>Total Debt Service</b>
FY05	36,805			36,805
FY06	73,610	186,758		260,368
FY07	73,610	373,516		447,126
FY08	73,610	373,516		447,126
FY09	73,610	373,516		447,126
FY10	73,610	373,516	821,871	1,268,997
FY11	73,610	373,516	621,871	1,068,997
FY12	73,610	373,516	621,871	1,068,997
FY13	73,610	373,516	621,871	1,068,997
FY14	73,610	373,516	621,871	1,068,997
FY15	36,805	373,516	621,871	1,032,192
FY16		186,758	621,871	808,629
FY17			621,871	621,871
FY18			621,871	621,871
FY19			621,871	621,871
FY20			621,871	621,871
FY21			621,871	621,871
FY22			621,871	621,871
FY23			621,871	621,871
FY24			621,871	621,871
	<b>736,100</b>	<b>3,735,160</b>	<b>9,528,065</b>	<b>13,999,325</b>

**FINAL                  FINAL                  Estimated**

<b>Sinking Fund</b>							
<b>Division 270 Glenbard Plant</b>		<b>Actual FY06 Bdgt</b>	<b>Actual FY07 Bdgt</b>	<b>Approved FY08 Bdgt</b>	<b>Estimated FY08 Bdgt</b>	<b>Proposed FY09 Bdgt</b>	
5966	Glenbard Plant Sinking Fund	1,758,055	1,692,000	1,492,000	1,492,000	1,522,800	
	<b>Total</b>	<b>\$1,758,055</b>	<b>\$1,692,000</b>	<b>\$1,492,000</b>	<b>\$1,492,000</b>	<b>\$1,522,800</b>	
	Glen Ellyn Flow Split	849,633	821,398	729,051	729,051	746,126	
	Lombard Flow Split	908,422	870,602	762,949	762,949	776,674	
	<b>Total Flow Split</b>	<b>\$1,758,055</b>	<b>\$1,692,000</b>	<b>\$1,492,000</b>	<b>\$1,492,000</b>	<b>\$1,522,800</b>	
<b>Division 271 Lombard Plant</b>							
5966	Lombard Plant Eq.Rpl. Fund	248,865	240,000	240,000	240,000	216,000	
	<b>Total</b>	<b>\$248,865</b>	<b>\$240,000</b>	<b>\$240,000</b>	<b>\$240,000</b>	<b>\$216,000</b>	
<b>Division 272 North Regional Interceptor (NRI)</b>							
5966	NRI-Eq. Rpl. Fund	44,420	42,000	42,000	42,000	37,800	
	<b>Total</b>	<b>\$44,420</b>	<b>\$42,000</b>	<b>\$42,000</b>	<b>\$42,000</b>	<b>\$37,800</b>	
	Glen Ellyn Flow Split	17,383	16,588	16,703	16,703	14,895	
	Lombard Flow Split	27,037	25,412	25,297	25,297	22,905	
	<b>Total Flow Split</b>	<b>\$44,420</b>	<b>\$42,000</b>	<b>\$42,000</b>	<b>\$42,000</b>	<b>37,800</b>	
<b>Division 273 South Regional Interceptor (SRI)</b>							
5966	SRI-Eq. Rpl. Fund	\$26,487	26,000	26,000	26,000	23,400	
	<b>Total</b>	<b>\$26,487</b>	<b>\$26,000</b>	<b>\$26,000</b>	<b>\$26,000</b>	<b>\$23,400</b>	
<b>Total all Sinking Funds Revenue</b>		<b>\$2,077,827</b>	<b>\$2,000,000</b>	<b>\$1,800,000</b>	<b>\$1,800,000</b>	<b>\$1,800,000</b>	
<b>Total Glen Ellyn Sinking Funds Contribution to Reserve:</b>						<b>\$784,421</b>	
<b>Total Lombard Sinking Funds Contribution to Reserve:</b>						<b>\$1,015,579</b>	

**Budget FY 2009**  
**Lombard CSO Upgrade Project** **FINAL**  
**IEPA Loan - Payback Schedule**

**Loan Amount: \$630,360**  
**Interest Rate: 2.6750%**  
**Total Value of Loan (Principal + Interest): \$736,095**

<u>Fiscal Year</u>	<u>Expense</u>	<u>Interest</u>	<u>Principal</u>	<u>Total Loan Payment</u>	<u>Remaining Balance</u>
FY 2004	\$736,095	\$0	\$0	\$0	\$736,095
FY 2005		\$8,589	\$28,216	\$36,805	\$699,290
FY 2006		\$16,040	\$57,570	\$73,610	\$625,680
FY 2007		\$14,489	\$59,121	\$73,610	\$552,070
FY 2008		\$12,898	\$60,712	\$73,610	\$478,460
FY 2009		\$11,263	\$62,347	\$73,610	\$404,850
FY 2010		\$9,582	\$64,028	\$73,610	\$331,240
FY 2011		\$7,860	\$65,750	\$73,610	\$257,630
FY 2012		\$6,088	\$67,522	\$73,610	\$184,020
FY 2013		\$4,270	\$69,340	\$73,610	\$110,410
FY 2014		\$2,404	\$71,206	\$73,610	\$36,800
FY 2015		\$485	\$36,315	\$36,800	\$0
<b>Totals</b>		\$93,968	\$642,127	\$736,095	

The Executive Oversight Committee awarded a \$642,600 contract to J. J. Henderson & Sons in September of 2001 for the rehabilitation of the Lombard CSO Plant. The new chlorine discharge limits, enacted by the IEPA in the early 90s and lowered to 0.75 mg/L in 2001 for the Lombard plant, meant the plant would need dechlorination equipment installed and revisions made to the chlorination system. The revisions would allow for adequate disinfection of the wastewater and compliance with permit requirements for discharged residual chlorine. Prior to the Lombard project, operations personnel would have to be physically at the plant to start up plant processes during a rain event. The rehabilitation work included the addition of automation which enables staff to start the Lombard equipment from either a SCADA system terminal at the main facility or from a remote site via the SCADA on-call laptop. The Authority obtained a ten-year loan from the IEPA State Revolving Loan Fund at 2.6750% interest. The project was completed in February of 2004 with construction costs totaling \$641,000.

<b>Budget FY 2009</b>	
<b>Biosolids Improvement Project</b>	<b>FINAL</b>
<b>IEPA Loan - Payback Schedule</b>	
<b>Current Amount Borrowed:</b>	<b>\$3,275,380</b>
<b>Interest Rate:</b>	<b>2.57%</b>
<b>Total Value of Loan (Principal + Interest):</b>	<b>\$3,735,159</b>

<u>Fiscal Year</u>	<u>Expense</u>	<u>Interest</u>	<u>Principal</u>	<u>Total Loan Payment</u>	<u>Remaining Balance</u>
FY 2006	\$3,735,159	\$42,089	\$144,669	\$186,758	\$3,548,402
FY 2007		\$78,576	\$294,940	\$373,516	\$3,174,886
FY 2008		\$70,948	\$302,568	\$373,516	\$2,801,370
FY 2009		\$63,122	\$310,394	\$373,516	\$2,427,854
FY 2010		\$55,093	\$318,423	\$373,516	\$2,054,338
FY 2011		\$46,857	\$326,659	\$373,516	\$1,680,822
FY 2012		\$38,408	\$335,108	\$373,516	\$1,307,306
FY 2013		\$29,741	\$343,775	\$373,516	\$933,790
FY 2014		\$20,849	\$352,667	\$373,516	\$560,274
FY 2015		\$11,727	\$361,789	\$373,516	\$186,758
FY 2016		\$2,369	\$184,389	\$186,758	\$0
<b>Totals</b>		\$459,779	\$3,275,380	\$3,735,159	\$0

The Executive Oversight Committee awarded the \$5,083,000 BIP contract to Dauro Co. Inc. of Lombard, IL in April of 2003. In June of 2003 the IEPA through its State Revolving Loan program awarded the Authority a loan in the amount of \$5,230,340. The original terms of the loan included a completion date of February 15, 2005 with the first repayment due on August 15, 2005. Due to poor contractor performance and delayed completion an extension was obtained with a completion date of July 1, 2005. In accordance with the new schedule the IEPA initiated closeout of the above amount with the first repayment due December 7, 2005. The \$3,275,380 loan amount includes \$53,112 in accumulated interest.

**Budget FY 2009**  
**Anaerobic Digester**  
**PROJECTED**  
**IEPA Loan - Payback Schedule**  
**Current Amount Borrowed: \$7,700,000**  
**Interest Rate: 2.57%**  
**Total Value of Loan (Principal + Interest): \$9,528,062.09**

<u>Fiscal Year</u>	<u>Expense</u>	<u>Interest</u>	<u>Principal</u>	<u>Total Loan Payment</u>	<u>Remaining Balance</u>
FY 2010	\$ 9,528,062.09	\$ 195,165.91	\$ 426,704.89	\$ 621,870.80	\$ 8,906,191.29
FY 2011		184,129.15	437,741.66	621,870.81	8,284,320.48
FY 2012		172,806.91	449,063.90	621,870.81	7,662,449.67
FY 2013		161,191.81	460,678.99	621,870.80	7,040,578.87
FY 2014		149,276.30	472,594.51	621,870.81	6,418,708.06
FY 2015		137,052.58	484,818.22	621,870.80	5,796,837.26
FY 2016		124,512.70	497,358.11	621,870.81	5,174,966.45
FY 2017		111,648.47	510,222.34	621,870.81	4,553,095.64
FY 2018		98,451.51	523,419.30	621,870.81	3,931,224.83
FY 2019		84,913.20	536,957.60	621,870.80	3,309,354.03
FY 2020		71,024.73	550,846.08	621,870.81	2,687,483.22
FY 2021		56,777.03	565,093.78	621,870.81	2,065,612.41
FY 2022		42,160.81	579,710.00	621,870.81	1,443,741.60
FY 2023		27,166.54	594,704.27	621,870.81	821,870.79
FY 2024		11,784.44	610,086.35	621,870.79	200,000.00
<b>Totals</b>		1,628,062.09	7,700,000.00	9,328,062.09	

The EOC awarded an Anaerobic Digester Engineering Services Contract on August 10, 2005, for the design of an 80' Digester. This projected payback schedule is included to cover the required funding.

**Budget FY 2009**  
**St. Charles Road Pump Station**  
**PROJECTED**  
**IEPA Loan - Payback Schedule**  
**Current Amount Borrowed: \$3,000,000**  
**Interest Rate: 2.57%**  
**Total Value of Loan (Principal + Interest): \$3,421,123**

<u>Fiscal</u> <u>Year</u>	<u>Expense</u>	<u>Interest</u>	<u>Principal</u>	<u>Total Loan</u> <u>Payment</u>	<u>Remaining</u> <u>Balance</u>
FY 2010	\$3,421,123	\$75,397	\$266,715	\$342,112	\$3,079,011
FY 2011		\$68,499	\$273,614	\$342,112	\$2,736,898
FY 2012		\$61,422	\$280,691	\$342,112	\$2,394,786
FY 2013		\$54,162	\$287,951	\$342,112	\$2,052,674
FY 2014		\$46,714	\$295,399	\$342,112	\$1,710,561
FY 2015		\$39,073	\$303,039	\$342,112	\$1,368,449
FY 2016		\$31,235	\$310,877	\$342,112	\$1,026,337
FY 2017		\$23,194	\$318,918	\$342,112	\$684,224
FY 2018		\$14,945	\$327,167	\$342,112	\$342,112
FY 2019		\$6,483	\$335,629	\$342,112	\$0
FY 2020				\$0	
<b>Totals</b>		\$421,123	\$3,000,000	\$3,421,123	\$0

The FY09 budget includes funding for engineering services to design improvements to the St. Charles Rd. pump station. This projected payback schedule is forecasted to be funded through the IEPA and will be impacted by any future rate changes until the loan is secured.

## **Capital Project Description List**

### **(1) Bar Screen Improvement**

The first device used to mechanically separate the debris from the liquid entering the plant is the bar screen. This is critical equipment as removal of the debris in turn protects all downstream equipment. The bar screen collects rags, sticks, plastics and other matter larger than 3/8" from liquid. The debris is mechanically removed, placed in a dumpster and disposed of at the landfill. The GWA bar screen was improved in 1999 through the replacement of the screen from a 3/4" gap to the current 3/8" gap. The existing bar screen is experiencing substantial wear on some of the bearing surfaces of the equipment. In addition low flow results in settling and blocking the screen as the present technology used is a catenary type chain and rake. An in-house study was done during FY06 that identified two potential technologies that could be implemented to make system improvements. Staff has finalized a contract and awarded it to Martin Petersen Inc. in the amount of \$746,000 the work will proceed toward the end of FY07 and be completed in FY08. The budgeted amount includes contingency amounts and Engineering services.

### **(2) Digester Improvement Project (FY 08 - \$8,225,000)**

Wastewater treatment fundamentally produces material called Biosolids. It is a result of microorganisms that treat the waste in process. The plant was originally designed with a thermophilic (high temperature) aerobic digestion process to help stabilize the Biosolids produced. This high temperature process was quickly abandoned in the late 1980's due to the obnoxious odors created in the neighborhood by heating wastewater Biosolids under aerobic conditions; this experience was similar to other applications at many plants across the country. Since that time, the plant has had difficulties wasting the required amount of sludge on a regular basis resulting in high solids inventories and solids washouts that result in discharge excursions of the NPDES permit. Studies conducted since 1990 have recommended expansion of the anaerobic digestion process through added tank capacity. Engineering services were provided in FY07 that have completed the design and contract development for this expansion. The FY08 Planned expenses envision award of a contract to increase digester capacity and start work to complete all systems associated with the BIP work and provide Engineering oversight. Work at this time is anticipated to go through FY09 and carry into FY10.

### **(3) BIP - Landfill/Hauling Fees**

During the course of the Biosolids Improvements Project, all digesters were taken out of service for a short period to clean and inspect. As a result Biosolids can not be treated to the level for the beneficial re-use, that being land application as soil enhancement for farming. Capital monies were therefore expended to cover the increased costs of disposal.

#### **(4) BIP – Complete Existing Work NTP-1 (FY08)**

In FY07 a contract was awarded to Bowen Engineering of Fishers, IN to complete BIP work for NTP-1. This work will be completed in FY08.

#### **(5) BIP – BIP Legal Fees**

This item covered Legal Fees associated with the BIP project.

#### **(6) BIP - SCADA Programming**

This line item captures the anticipated costs of SCADA enhancements related to the Biosolids Improvement Project, which were budgeted in FY 05, but due to project delays this FY07 budget item of \$40,000 was done in house.

#### **(7) Clarifier Drive Purchase (FY08)**

Staff has purchased the drive and contracted for installation in FY08.

#### **(8) Computerized Maintenance Management System**

Computerized Maintenance Management Systems (CMMS) consist of software and associated hardware designed for capital and maintenance intensive entities like the Authority. CMMS provides for the ability to do a more thorough job of scheduling and controlling plant and equipment maintenance and analyzing plant asset requirements.

Staff has initiated the use of the system and continues to make refinement in how it is administered.

#### **(9) CRAS Waste Pump System**

This project envisioned increasing the capacity of the CRAS Wasting System. Ongoing operation has led to operating at 100% of the existing capacity for the last 2 years. This has proven successful and the project is being deferred indefinitely, at this time.

#### **(10) Cryo 5-YR Rehabilitation**

The Authority's cryogenic system process generates pure oxygen that is used in the activated sludge process of plant operations. This system runs from a specialized mechanical system that has specialized operations and maintenance requirements. The cost of the annual maintenance is included in the Operations and Maintenance budget. The last 5-year rehabilitation occurred in

FY02. The next 5-year rehabilitation would normally occur in FY07. Due to the need for emergency repair cost incurred in FY04 caused by a small defective gasket, we moved up the 5-year work to FY05 to reduce the chances of additional emergency unplanned work during future Cryo annual maintenance work. This work was successfully completed. The normal 5-year schedule began starting in FY05 with the next 5-year work scheduled for FY11.

### **(11) Electrical Distribution Maintenance (FY09- \$0)**

Work scheduled for FY08 includes maintenance of site lighting. In FY07 GWA experienced damaged 480V conduits, high voltage switchgear, light poles and underground wiring. Commonwealth Edison supplies the main feed to one location in the plant. The major distribution system serving all of the buildings at GWA are owned and maintained by GWA. The electrical distribution system is aging as well as negatively impacted by ground heaving and water infiltration. Money is not allocated to this maintenance item in FY09, but is forecasted on an every other year basis in the out years.

### **(12) Electrical Distribution Upgrade-UV and Sandfilter Buildings**

This line item captured the cost of new electrical lines into the UV and Sand Filter Buildings in addition to other miscellaneous distribution upgrades. This work was included in the FY 04 budget, but only the design work was completed. Funding to complete the project was budgeted in FY 05.

### **(13) Facilities Plan Update**

The Facility exists in a highly regulated environment where future more stringent standards are almost always being considered. As example the IEPA has proposed possible new standards related to the Total Maximum Daily Limits (TMDL) for the East Branch, DuPage River. These new limits may affect operations at the Glenbard Plant and require new treatment processes or modifications of existing processes. The facility continues to be challenged with high flows due to limited practical plant flow capacity below the Design Maximum Flow (DMF) of 45 MGD. Strand Associates was contracted with in FY06 and this cost is the contract cost projected to be spent on this task to be completed in FY07. The plan has examined alternatives and options that the Authority may consider to meet new standards and update existing processes to reflect new technology, maximize plant throughput and maintain long-term reliability, performance and cost efficient operation. The major result of the plan recommended sustaining the high purity oxygen activated sludge (HPOAS) process rather than changing to air activated sludge

#### **(14) Raw Pumps/Wet Weather**

During February of 2000, the EOC authorized the firm of Walter E. Deuchler Associates Inc. to conduct a study of the physical conditions of the North Regional Interceptor (NRI) and its capacity to convey flow to our wastewater treatment plant. The report concluded that significant volumes of extraneous wet weather flow (up to 23 times normal base flow) enter the NRI from the tributary sub-basins and that the GWA conveyance system is currently not capable of conveying the peak wet weather flow generated during a one year storm event. Several recommendations formulated to mitigate the impacts of wet weather flow are documented in the report. With the ongoing Facility Plan Strand Associates is furthering the possible alternatives to mitigate this peak flow that stresses the plant. At this time monies are projected to be possibly necessary in the out years of the plan.

#### **(15) Odor Control**

Odorous areas of the plant would be evaluated along with alternatives to reduce odor generation. The need of odor control for the East fence line, particularly the junction chamber where the L-22 line, the NRI, and the SRI converge into one chamber that feeds the main line to the plant will need to be addressed in FY09. Future odor control strategies include weir and trough covers for the primary clarifiers, intermediate clarifiers, and the thickener clarifier.

#### **(16) Phosphorus Removal**

Phosphorus is a component of wastewater that can act as a nutrient in the river. The nutrient can enhance the ability of the water to grow algae which in turn causes low dissolved oxygen. For this reason future regulatory requirements are being discussed for limiting the discharge concentration of phosphorus. Wastewater plants have two (2) alternatives to remove phosphorus, either chemically or biologically. Chemical removal utilizes the addition of a metal salt such as Ferric Chloride or Alum. Biological removal utilizes an anaerobic zone in the activated sludge process that would need to be engineered and constructed. This projected item plans for a future possible requirement to meet the phosphorus removal requirement.

#### **(17) Grit Removal Process Improvement**

This work was completed in FY07 successfully and continues to operate efficiently.

### **(18) Infrastructure Upgrades (FY09-\$201,000)**

Although the main portion of the plant is approximately 20 years old, certain portions of the old structure are much older, up to 60 years old. Older infrastructure requiring replacement or rehab is funded through this line item, which generally captures the cost of upgrades from \$25,000-\$100,000. When required, funds from planned projects in this line item can be reallocated to emergency work. A detailed list of the recommendations planned for FY09 can be seen on page 71.

### **(19) Laboratory Fire Suppression System Replacement (FY09-\$0)**

The existing fire suppression system serving our laboratory is a halon gas system that is no longer being specified or certified for fire suppression purposes. Work will include specification of system and installation work. This work is being re-budgeted as staff time and priorities have resulted in the deferment of the work for many years. In FY07 a study was conducted evaluating the existing system and conceptualizing a design for replacement.

### **(20) Lift Station/Conveyance System (FY09-\$3,000,000)**

As discussed in project note # 13 above, an engineering study conducted by Walter E. Deuchler Associates, Inc. concluded that the GWA conveyance system was not capable of conveying the peak wet weather flow generated during a one year storm event. The study of the North Regional Interceptor (NRI) and the South Regional Interceptor (SRI) included recommendations for manhole rehabilitation work, St. Charles Road and Valley View lift station replacement, a flow equalization basin and additional study of the contributory trunk sewers. NRI manhole rehabilitation work was completed during FY03, the SRI was relined during FY05 and SRI Manholes were rehabilitated in FY06 and 07. All these completed projects have been beneficial to the situation; however the plant still receives increased flows during rain and snow melt. A main area of focus is the St. Charles Rd Pump Station serving northern Glen Ellyn that is required to pump approximately 1 MGD on a dry weather day and will increase to a max capacity of approximately 15 MGD on a wet weather day. In addition the pump station is aging and has been observed as structurally shifted with aging mechanical components. GWA has received the Engineering evaluation to re-build the pump station which these projected costs are in place to accomplish. Engineering design at an estimated cost of \$250,000 is expected to be accomplished during FY08. Strand Associates Inc. has provided a more efficient, lower construction cost alternative for the St. Charles Rd. Lift Station reconstruction, than the \$2,000,000 Walter E. Deuchler construction proposal. The proposed cost for the construction is \$1,729,000 plus general condition costs, project contingencies, and technical services for a total opinion of overall project cost of less than \$3,000,000. The Valley View lift station replacement is planned for FY11, as it is of similar age and condition.

### **(21) Lombard Upgrades (FY09-\$400,000)**

Staff is recognizing the following issues at the Lombard Plant, Regulatory, Structural, Mechanical and Electrical. Staff prepared an RFQ/RFP for Engineering to address these general issues. The regulatory concern stems from the previous upgrade project that did not take into account a discovered storm connection from Lombard under route 355 directly into the South Lagoon. The O&M Manual was revised however the NPDES Permit was not successfully modified nor does Staff believe that it is in GWA's interest to operate under the revised conditions of the O&M manual. The change effectively relocated the 002 outfall from a discharge to the river to a discharge to the Lagoons. Structural issues include the final clarifiers aging weir structure. Mechanical issues include the reconstruction of the routine draining of the lagoons after a storm to prevent backwatering of the connected portion of Lombard's storm system and manual pumping. Electrical issues focus on site lighting. The FY08 budgetary cost of \$775,000 breaks down as \$100,000 for engineering, \$450,000 for weirs, \$150,000 for mechanical and \$50,000 for site lighting. The FY09 budget includes a potential second phase of work to, at a minimum, address road conditions and other identified work as a result of evaluation in FY08. The FY08 budgeted schedule will continue through FY09, due to Strand Engineering spending a significant amount of time on the Primary Systems Completion Project, the Anaerobic Digester project, and the completion of the Headworks project.

### **(22) Oxygen System Rehabilitation (FY09-\$255,000)**

Facility planning work completed in FY 07 has resulted in recommending system alterations. Currently in-house planning to assess this is under way. Upgrades to the Cryo control system and oxygen regulating valves is a planned need in FY 09, as well as engineering necessary to plan the implementation of the conversion from pneumatic controls to electrical controls. Within FY10 \$750,000 is budgeted to make continued improvements to maintain system optimization and control future expense of O&M.

### **(23) Plant Equipment Rehabilitation (FY09-\$249,000)**

The main portion of the Glenbard Plant is 20 years old and various major pumping and treatment systems need major overhauling. Included in the Capital Budget are funds to pay for any major rehab work required. This item provides funds that will be used to restore the equipment or provide upgrades found in new equipment. The equipment should be able to operate without major rehabilitation for at least another ten years once restored. Significant items that need to be addressed during FY 2009 are shown on pages 72.

### **(24) Rolling Stock (FY09-\$20,000)**

No purchases were scheduled for FY07, or FY08. In the FY09 budget we have proposed to purchase two new pieces of rolling stock. The first proposal is a move toward better fuel efficiency and utilization by purchasing a utility cart that staff can utilize all year, as well as the ability to drive on the grass without tearing up the landscaping. There are many manufacturers

that are selling these types of utility carts. For instance; John Deere, Kawasaki, Polaris, and Yamaha are a few of the major manufacturers. These types of carts are being utilized more and more by the local municipalities in an effort to go "green." The second proposed piece of rolling stock we are seeking is a flat bed trailer that will give us the ability to move our bobcat, forklift, scissor lift, and 8" hose from Glenbard to any of our three remote sites that may need to utilize this equipment. The 8" hose for the newly purchased emergency pump is dangerously difficult to load into a truck, or trailer by hand, so staff is anticipating constructing a hose rack for the trailer that will give us the ability to utilize the forklift to load the hose and mobilize.

### **(25) Roof Replacements (FY09-\$99,000)**

The figures reflect the anticipated cost of replacing roofs on various Authority buildings beginning in FY09.

### **(26) Sludge Pad Upgrade**

This line item captures the cost of required repairs to our sludge storage pad system; the fourth and last pad was budgeted at \$48,000 in FY 05 and completed in FY 06. The next projected impact on the budget for this line item would be the construction of a cover for the drying beds that would eliminate the rain and snow from accumulating on dried stored cake sludge. We spend approximately \$100,000 per year on dewatering sludge in order to save hauling costs associated with hauling liquid sludge. After we dewater the "liquid" sludge and convert it to "cake" sludge we then store the cake sludge on drying beds that are not covered, allowing Mother Nature to add liquid to our dewatered cake sludge. FY2014 Forecasts this need and a estimated cost.

### **(27) Small Capital Projects (FY09-\$142,000)**

This line item captures the cost of small capital projects and is used to describe projects that are generally under \$25,000. Detail is shown on pages 73.

**Glenbard Wastewater Authority  
FY 2009 Infrastructure Improvement  
40 580140**

Designation	Recommendations	FY 08 Proposed	FY 09 Proposed
Electronics	HVAC Systems Replacement	5,000	6,000
	Conduit Repair @CSO Barscreen		1,000
	Duct-Bank Rejuvenation\Replacement Infrastructure	25,000	25,000
	Energy Management System	20,000	20,000
	Magnetic Flow Meter Replacement	40,000	40,000
	Stocked spare Co-Gen Tie Breaker	15,000	25,000
	Main Entrance Gate Ground Loop Replacement	10,000	0
	UNOX Sample Pump Replacement		4,000
	CRYO PLC Panel & Alarming		20,000
	Administration	Office Furniture/Equipment Replacements	2,000
Maintenance	Natural Gas Leak Detection/Repairs	10,000	10,000
	Pipeline Video Evaluation (Future Blending Project)	4,000	
	Plantwide Landscaping Rehabilitation		
	Admin Entrance Planting Renovations		8000
	New Tree planting/mulching	1250	1250
	Replacement of diseased trees/shrubs	1250	1250
	Pine Replacements at Grit	0	2,500
	Plant Door/Frame Replacements	3,000	3,000
	Sidewalk Repairs/Jacking	0	1,500
	Cryo Overhead Crane Activation	0	3,000
	Road Repairs		
	Glenbard Road Resurfacing		15,000
	Lombard Road Resurfacing		
	Dock Plate at Sludge Pad	12,000	
	Fire Extinguisher Replacements/Standardization	10,000	5,000
	Sandfilter Basement Drain/Sump Rework	8,000	8,000
	Primary Scum --Pipe Gallery Sump Pump		1,500
<b>Grand Total</b>		<b>\$166,500</b>	<b>\$201,000</b>

**Glenbard Wastewater Authority**  
**FY 2009 Plant Equipment Rehabilitation**  
**40 580150**

Designation	Recommendations	FY 08 Proposed	FY 09 Proposed
UV Sandfilter	UV Lamps/O-rings/Ballasts		62,000
	Spent Backwash Pump Rehab	25,000	
	Backwash Pump Rehab	27,000	
Press	Press Conveyor Replacements	65,000	
Press	Control Room HVAC Design/Replacement		40,000
Press	Catwalk Extension		10,000
Sandfilter	Cell Room HVAC Design Replacement		40,000
Screw Pump	Screw Pump Bearing Rehabilitations (First of 3 year plan thru FY10)		
	Gate Replacement (SS)		
	No. 1 Upper Bearing Eval/Replacemt	21,000	21,000
	No. 1 Gearbox Reconditioning	29,000	29,000
	Remove covers, Inspect, Blast/Paint, Vent Covers (FY!!)		15,000
Cyro	Additional Turnaround Costs Beyond Contracted Services (FY09)		
	Replace Jamesbury Valves and Operators	18,000	
	Repair Turbine Duct Leak	13,000	
	Remove Turbine Cartridge Rehabilitation	12,000	12,000
Unox	Oxy Inlet/Vent Valve Replacement	0	
Raw Pump	Pump Valve Rehabilitation (First of 3 yr plan--40/20/20 thru FY10)	0	
	Inlet/Discharge Valve Repairs	40,000	20,000
<b>Grand Total</b>		<b>\$250,000</b>	<b>\$249,000</b>

**Glenbard Wastewater Authority  
FY 2009 Small Capital Improvement  
40 580120**

Designation	Recommendations	FY 08 Proposed	FY 09 Proposed
Lombard Final Clarifiers Maint Garage	Raw Pump Check Valve Rebuilids (4) Drive Sheds (4) Replace Band Saw Purchase OSHA Rated Man-Basket - 36x36 MIG Reel Gun	15,000	15,000 3,000
Onion Bldg Glenbard Administrative	Sprung Structure Reskin/Relocate SCADA System Upgrades Office Furniture/Equipment Replacements Lunch Room Chairs Filing Cabinets/Shelving	42,000	42,000 10,000
Electronics	Software Upgrades (OS & Application) Effluent Ammonia Analyzer CRYO oxygen Purity Analyzer Replacement Workstation, Server, Firewall Replacements Maximo Software Version Transition/Configuration Thermal Imaging Camera Air Conditioning System installed in New Wheel Loader Bobcat Backhoe Attachment	1,400 600 5,000 7,500	700 600 5,000 20,000 0 10,000 25,000 0
<b>Grand Total</b>		<b>\$71,500</b>	<b>\$141,300</b>

**Position Classification****Number of Employees**

	Salary Range	FY 04	FY 05	FY 06	FY 07	FY 08	Proposed FY 09
Wastewater Manager	18	0	1	1	1	1	1
Utilities Manager (PT FY02-04)	18	1	0	0	0	0	0
Data Tech PT *	10	1	1	1	1	1	0
Administrative Secretary	10	1	1	1	1	1	1
Senior Operator	15	1	1	1	1	1	1
Plant Operator I/ Lab Tech **	12					0	1
Plant Operator I	12	1	1	2	3	4	2
Plant Operator II	11	3	3	2	1	0	0
Plant Operator III	10	0	0	0	0	0	0
Plant Operator IV	9	0	0	1	1	1	0
Operator-in-Training	7	1	1	0	0	0	2
Operator PT		6	6	6	5	5	5
Laboratory Technician*	12	1	1	1	1	0	0
Sr. Maintenance Mechanic	15	1	1	1	1	1	1
Maintenance Mechanic I	12					1	2
Maintenance Mechanic II	11	2	2	2	2	1	0
Maintenance Mechanic III	10					0	0
Seasonal Labor PT		2	2	2	2	2	2
Sr. Electronics Tech.	15	1	1	1	1	1	1
Plant Electrician/Electron. Tech.	13	1	1	1	1	1	1
Total Full Time Employees		14	14	14	14	13	13
Total PT/Seasonal Employees		11	10	9	8	8	7
Total Full Time Equivalent (FTE)		17	15.8	15.9	15.9	14.9	14.3

\* Positions were vacant and not budgeted in FY08, not forecasted to be filled in FY09.

\*\* Lab tech position will be combined with an operator position in FY09

~ Savings will be realized by bringing Fecal coliforms and Bod's back in house.

Glenbard Wastewater Authority  
Salary Table - May 1, 2007 through April 30, 2008

Village of Glen Ellyn  
Salary Tables - May 1, 2008 through April 30, 2009

Range	Annualized			Hourly		
	Min	Mid	Max	Min	Mid	Max
FY08/09 Salary Schedule Adjustment = 3.5%						
1	\$ 26,458	\$ 33,270	\$ 40,082	\$ 12.72	\$ 16.00	\$ 19.27
2	27,456	34,528	41,600	13.20	16.60	20.00
3	28,579	35,942	43,306	13.74	17.28	20.82
4	29,806	37,492	45,178	14.33	18.03	21.72
5	31,179	39,208	47,237	14.99	18.85	22.71
6	32,656	41,070	49,483	15.70	19.75	23.79
7	34,320	43,160	52,000	16.50	20.75	25.00
8	36,109	45,406	54,704	17.36	21.83	26.30
9	38,085	47,913	57,741	18.31	23.04	27.76
10	40,248	50,627	61,006	19.35	24.34	29.33
11	42,661	53,664	64,667	20.51	25.80	31.09
12	45,323	57,002	68,682	21.79	27.41	33.02
PO *	47,965	60,767	73,570	23.06	29.22	35.37
13	48,214	60,642	73,070	23.18	29.16	35.13
14	51,418	64,646	77,875	24.72	31.08	37.44
15	54,912	69,066	83,221	26.40	33.21	40.01
16	58,781	73,934	89,086	28.26	35.55	42.83
17	63,024	79,279	95,534	30.30	38.12	45.93
18	67,704	85,155	102,606	32.55	40.94	49.33
19	72,842	91,614	110,386	35.02	44.05	53.07
20	78,520	98,738	118,955	37.75	47.47	57.19
21	84,739	106,579	128,419	40.74	51.24	61.74
22	91,603	115,201	138,798	44.04	55.39	66.73
23	99,133	124,654	150,176	47.66	59.93	72.20

\* Police Officers / F.O.P. Contract. Rates are effective November 1, 2007.

**TABLE 1. TOTAL WASTEWATER FLOWS AND PERCENTAGES FOR FY 2009 BUDGET**

<b>MONTH</b>	<b>TOTAL AREA METERS (MG)</b>	<b>GLEN ELLYN AREA (MG)</b>	<b>PERCENT OF TOTAL</b>	<b>LOMBARD AREA (MG)</b>	<b>PERCENT OF TOTAL</b>
Jan-06	424.560	210.590	49.602%	213.970	50.398%
Feb-06	310.450	152.570	49.145%	157.880	50.855%
Mar-06	359.670	177.430	49.331%	182.240	50.669%
Apr-06	336.840	163.750	48.614%	173.090	51.386%
May-06	382.550	187.970	49.136%	194.580	50.864%
Jun-06	404.824	201.968	49.890%	202.856	50.110%
Jul-06	322.296	157.724	48.938%	164.572	51.062%
Aug-06	327.841	161.221	49.177%	166.620	50.823%
Sep-06	426.939	211.231	49.476%	215.708	50.524%
Oct-06	567.209	273.461	48.212%	293.748	51.788%
Nov-06	509.363	248.476	48.782%	260.887	51.218%
Dec-06	614.222	291.268	47.421%	322.954	52.579%
Jan-07	410.359	199.21	48.545%	211.149	51.455%
Feb-07	302.039	146.42	48.477%	155.619	51.523%
Mar-07	546.673	265.39	48.546%	281.283	51.454%
Apr-07	498.331	227.950	45.743%	270.381	54.257%
May-07	291.828	148.330	50.828%	143.498	49.172%
Jun-07	238.852	132.940	55.658%	105.912	44.342%
Jul-07	263.944	138.060	52.307%	125.884	47.693%
Aug-07	414.120	199.080	48.073%	215.040	51.927%
Sep-07	241.238	128.370	53.213%	112.868	46.787%
Oct-07	222.007	111.350	50.156%	110.657	49.844%
Nov-07	216.309	105.198	48.633%	111.111	51.367%
Dec-07	326.154	149.520	45.843%	176.634	54.157%
<b>AVERAGE</b>	<b>373.276</b>	<b>182.895</b>	<b>48.997%</b>	<b>190.381</b>	<b>51.003%</b>

**TABLE 2. NORTH REGIONAL INTERCEPTOR -- GLEN ELLYN / LOMBARD SPLIT**

<b>MONTH</b>	<b>N.R.I. SUM TOTAL</b>	<b>GLEN ELLYN (MG)</b>	<b>% OF N.R.I.</b>	<b>LOMBARD (MG)</b>	<b>% OF N.R.I.</b>
Jan-06	287.708	116.522	40.500%	171.186	59.500%
Feb-06	205.057	83.657	40.797%	121.400	59.203%
Mar-06	245.641	99.539	40.522%	146.102	59.478%
Apr-06	230.532	91.761	39.804%	138.771	60.196%
May-06	260.504	105.327	40.432%	155.177	59.568%
Jun-06	274.929	112.599	40.956%	162.330	59.044%
Jul-06	216.091	82.312	38.091%	133.779	61.909%
Aug-06	218.194	86.986	39.866%	131.208	60.134%
Sep-06	283.282	113.973	40.233%	169.309	59.767%
Oct-06	381.067	147.440	38.691%	233.627	61.309%
Nov-06	341.207	134.539	39.430%	206.668	60.570%
Dec-06	388.205	148.501	38.253%	239.704	61.747%
Jan-07	272.832	112.028	41.061%	160.804	58.939%
Feb-07	199.607	80.281	40.220%	119.326	59.780%
Mar-07	344.513	123.650	35.891%	220.863	64.109%
Apr-07	338.858	126.435	37.312%	212.423	62.688%
May-07	192.619	77.914	40.450%	114.705	59.550%
Jun-07	137.062	54.909	40.061%	82.153	59.939%
Jul-07	134.484	57.453	42.721%	77.031	57.279%
Aug-07	254.279	89.039	35.016%	165.240	64.984%
Sep-07	124.454	55.459	44.562%	68.995	55.438%
Oct-07	125.417	53.017	42.273%	72.400	57.727%
Nov-07	124.858	52.004	41.651%	72.854	58.349%
Dec-07	203.809	74.320	36.466%	129.489	63.534%
<b>AVERAGE</b>	<b>241.050</b>	<b>94.986</b>	<b>39.405%</b>	<b>146.064</b>	<b>60.595%</b>