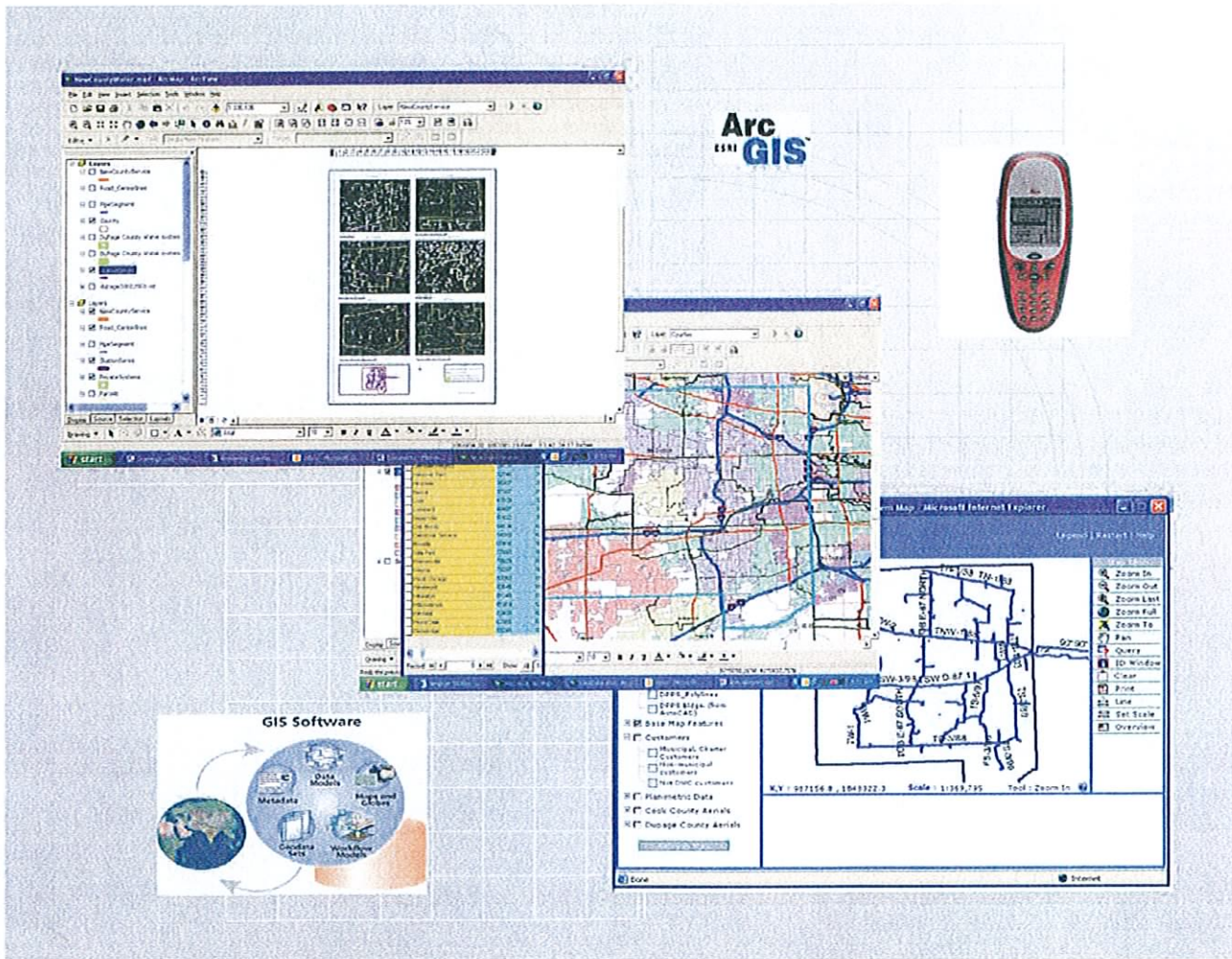


# DUPAGE WATER COMMISSION 2004-2005 ANNUAL REPORT



**FISCAL YEAR 2004 – 2005**  
**ANNUAL REPORT**  
**OF THE**  
**DUPAGE WATER COMMISSION**  
**COOK, DUPAGE AND WILL COUNTIES, ILLINOIS**  
**BOARD OF COMMISSIONERS**

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Richard P. Thorn, Treasurer

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DISTRICT 3

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John K. Vrdolyak, County

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R. Christopher Bostick	-	Facilities Construction Supervisor
Frank J. Frelka	-	Geographic Information Systems Coordinator
Edward J. Kazmierczak	-	Pipeline Supervisor
Terrance McGhee	-	Operations Supervisor
John W. Schori	-	Instrumentation/Remote Facilities Supervisor

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Cover picture depicts GIS products.





## DU PAGE WATER COMMISSION

600 E. BUTTERFIELD ROAD • ELMHURST, IL • 60126-4642  
(630) 834-0100 • FAX: (630) 834-0120

October 13, 2005

Chairman Vondra and Commissioners  
DuPage Water Commission  
600 E. Butterfield Road  
Elmhurst, IL 60126

Dear Chairman Vondra and Commissioners:

Fiscal year 2004-2005 saw an increase in staff (one in the Operations Department, two in the Instrumentation & Remote Facilities Department and a GIS Coordinator). These positions were filled to implement a preventative maintenance program.

In response to the County of DuPage's request to become a subsequent customer, the Commission's Staff Attorney has prepared a draft Water Purchase Agreement. The Staff Attorney is also responsible for the preparation of the resolutions and ordinances considered by the Commissioners at their monthly board meetings.

In addition to the Operations Department continuing its preventative maintenance program, the Commission increased its security effort by becoming a member of the Water Information Sharing and Analysis Center. The Operations Department also had a pipe loop pilot plant constructed to evaluate the aluminum phosphate deposits in its pipelines.

The Instrumentation and Remote Facilities Department added two technicians. The additional staff allowed the creation of two maintenance teams responsible for the proper operation and regular calibration of all instrumentation within the DuPage Pump Station and all remote facilities, and the maintenance of the electrical, mechanical and structural systems at the remote facilities. In addition to improved maintenance of the remote facilities, there were improvements to the computer technology at the Commission.

This year, the Commission implemented a geographical information system (GIS) which included the hiring of a GIS Coordinator. The GIS Coordinator, using a comprehensive plan prepared for the Commission in 2004, began purchasing the necessary hardware and software. GIS is an evolving technology that combines computerized mapping with a database management system and

a means for distributing maps and data through hard copy output, web based and stand-alone applications and mobile devices.

The Facilities Construction Supervisor oversaw the commencement of the design of the electrical generation facility and the reservoir for the DuPage Pumping Station. The electrical generation facility design was halted at the 30% mark as the Commission re-evaluated the need for backup electrical generation. Additional assessments were prepared as the Commission debated this important issue. In addition to backup electrical generation at the DuPage Pumping Station, the Commission has directed staff to work with the Chicago Water Department for the installation of backup electrical generation at the Lexington Pumping Station.

The Pipeline Department completed the repair of blow-off valves throughout the Commission's distribution system. This year also saw the continued construction of Contract TIB-1, a 72" transmission main between two major transmission lines. This project is designed to provide system-wide redundancy in the event of a break in any of the Commission's major transmission mains. The Pipeline Department also developed and implemented a preventative maintenance program.

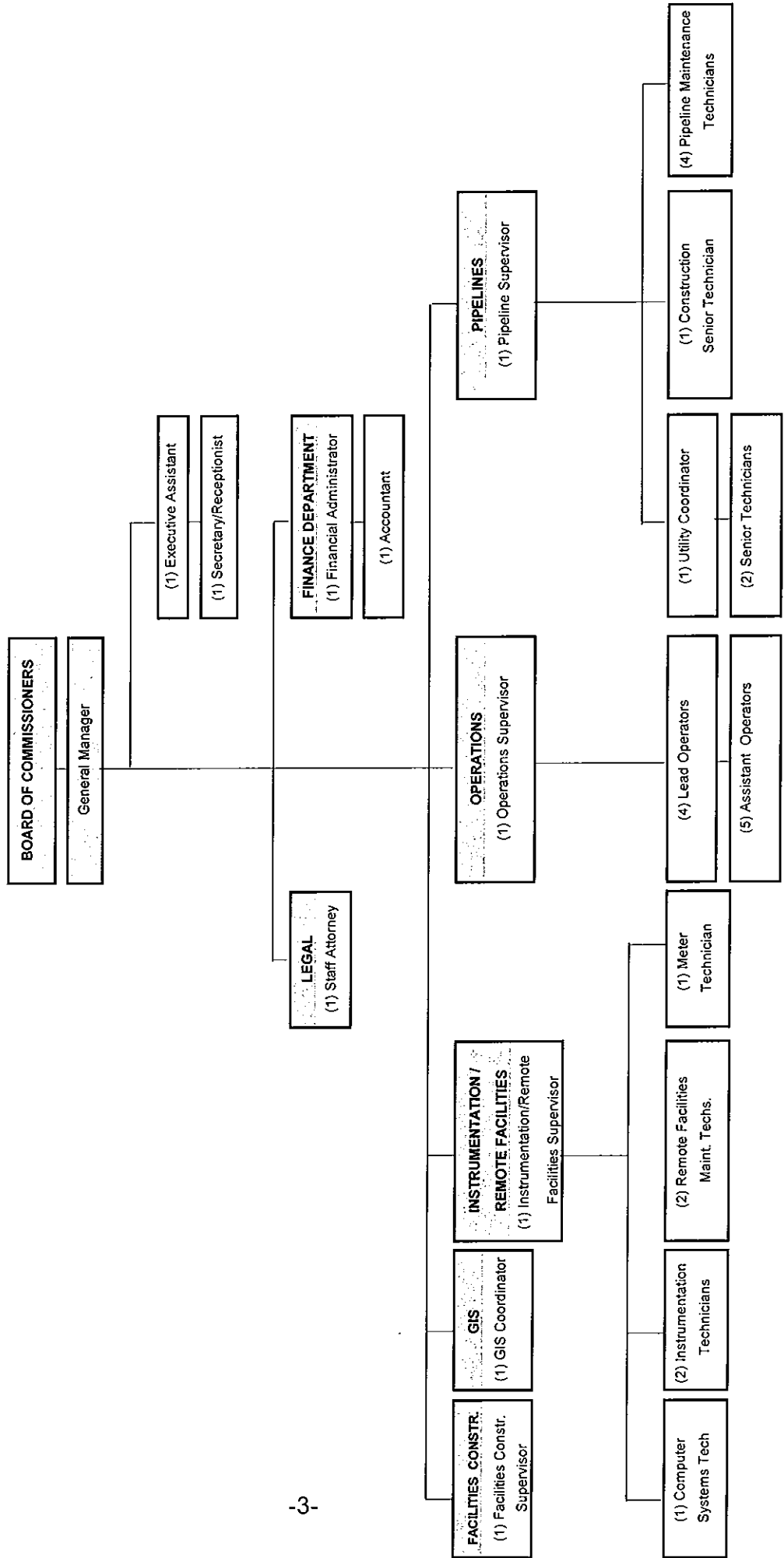
For fiscal year 2004-2005, total revenues were 2.2% less than budget and total operating expenditures were 8.7% below budget. The Commission continued with a Charter Customer water rate of \$1.65 per 1,000 gallons for the fiscal year.

Very truly yours,

A handwritten signature in black ink, appearing to read "Robert L. Martin". The signature is fluid and cursive, with a large, sweeping flourish at the end.

Robert L. Martin, P.E.  
General Manager

**DUPAGE WATER COMMISSION  
ORGANIZATIONAL CHART  
FISCAL YEAR 2004-2005**





## DU PAGE WATER COMMISSION

600 E. BUTTERFIELD ROAD • ELMHURST, IL • 60126-4642  
(630) 834-0100 • FAX: (630) 834-0120

October 13, 2005

Mr. Robert L. Martin, P.E.  
General Manager  
DuPage Water Commission  
600 E. Butterfield Road  
Elmhurst, IL 60126

Dear Mr. Martin:

For the period May 1, 2004, through April 30, 2005, the Commission incurred \$64,018.50 in General Counsel fees and \$21,300.00 in Special Counsel fees, representing a significant reduction from the \$267,208.50 in General Counsel fees and \$125,296.00 in Special Counsel fees incurred in the prior fiscal year.

With the advent of the Staff Attorney position, the General Counsel services relate primarily to litigation or potential litigation work, with the remainder being comprised mostly of labor and employment work. Almost 50% of the Special Counsel fees incurred in the 2004-05 fiscal year relate to non-legal governmental relation services in connection with the C-Factor matter, with the balance being fairly evenly split between the new Subsequent Customer pricing methodology and potential litigation work (second opinion).

The Legal Department was principally responsible for conceiving, and then negotiating, the very favorable settlement of the multi-million dollar utility relocation dispute with BP Pipelines on the Contract TIB project, which achievement may soon be followed by a global settlement of a similar dispute with West Shore Pipeline. The Legal Department also prepared the initial draft of the Subsequent Customer Contract with DuPage County that incorporated the new Subsequent Customer Pricing Methodology adopted by the Commission as well as several complex service provisions unique to the County's disparate service areas. Besides addressing refund claims from a variety of sources, on the more mundane side, the Legal Department was responsible for the more than 100 ordinances and resolutions adopted by the Board, including negotiating and drafting more than 21 engineering agreements and amendments, 17 intergovernmental and miscellaneous agreements and amendments, and bidding and contract documents for 10 separate projects.

Very truly yours,

  
Maureen A. Crowley  
Staff Attorney





## DU PAGE WATER COMMISSION

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(630) 834-0100 • FAX: (630) 834-0120

October 13, 2005

Mr. Robert L. Martin, P.E.  
General Manager  
DuPage Water Commission  
600 E. Butterfield Road  
Elmhurst, IL 60126

Dear Mr. Martin:

The Operations Department continues to maintain and operate the DuPage Pump Station at the required level to provide the highest quality of service to our customers.

During the past year, all the equipment at the Pump Station was inspected, cleaned, and maintained on a weekly, monthly, quarterly, and annual basis. The annual pump and motor rehabilitation program started last year continued this year with the replacement of two pump bearings and four pump seals.

As required by the Illinois Environmental Protection Agency (IEPA), the Commission collected monthly and quarterly samples for water quality and field all required paperwork with no violations. As part of the Commission's increased security effort, we have become a member of the Water Information Sharing and Analysis Center, an Internet-based, rapid notification system concerning threats to America's drinking water. The Commission also joined the Association of Metropolitan Water Agencies (AMWA) which is a professional organization for large water utilities.

The Operations Department developed the new position of Control Room Operator, whose duties include assisting the shift operators while monitoring the SCADA system throughout the day.

Finally, the Operations Department is in the process of running a pipe loop pilot plant to evaluate the aluminum phosphate deposits in Commission pipelines. The initial results of the evaluation are expected in the first quarter of 2006.

Very truly yours,

Terrance McGhee  
Operations Supervisor

## CUSTOMER USAGE

	FY 2005 TOTAL (1,000 GAL) (1)	% OF TOTAL	ALLOCATION (1,000 GAL)	% OF ALLOCATION	2005 ALLOCATION (MGD)	2004 ALLOCATION (MGD)
ADDISON	1,362,044	4.48%	1,659,075	82.10%	4.561	4.494
ARGONNE NAT'L LAB	186,155	0.61%	277,428	67.10%	0.758	0.758
BENSENVILLE	875,072	2.88%	988,134	88.56%	2.704	2.694
BLOOMINGDALE	925,225	3.04%	1,019,166	90.78%	2.803	2.759
CAROL STREAM	1,402,392	4.61%	1,647,942	85.10%	4.531	4.463
CLARENDON HILLS	287,458	0.95%	261,291	110.01%	0.716	0.711
DARIEN	773,876	2.54%	1,013,103	76.39%	2.781	2.750
DOWNERS GROVE	2,177,726	7.16%	2,487,885	87.53%	6.823	6.762
ELMHURST	1,575,913	5.18%	1,711,836	92.06%	4.683	4.669
GLEN ELLYN	1,012,061	3.33%	1,076,640	94.00%	2.950	2.930
GLENDALE HEIGHTS	942,189	3.10%	1,110,885	84.81%	3.049	3.016
HINSDALE	947,699	3.12%	970,812	97.62%	2.655	2.649
IAWC-ARROWHEAD	59,053	0.19%	71,736	82.32%	0.196	0.196
IAWC-COUNTRY CLUB	34,595	0.11%	42,822	80.79%	0.117	0.117
IAWC-DU PAGE/LISLE	175,605	0.58%	218,868	80.23%	0.598	0.598
IAWC-LIBERTY RIDGE EAST	10,885	0.04%	18,513	58.80%	0.051	0.050
IAWC-LIBERTY RIDGE WEST	103,885	0.34%	126,969	81.82%	0.349	0.344
IAWC-LOMBARD HEIGHTS	25,165	0.08%	26,352	95.50%	0.072	0.072
IAWC-VALLEY VIEW	235,899	0.78%	256,200	92.08%	0.700	0.700
ITASCA	547,328	1.80%	642,258	85.22%	1.764	1.742
LISLE	1,015,130	3.34%	1,174,230	86.45%	3.225	3.185
LOMBARD	1,535,551	5.05%	1,791,492	85.71%	4.909	4.875
NAPERVILLE	6,061,237	19.93%	7,383,864	82.09%	20.534	19.674
OAK BROOK	1,355,387	4.46%	1,508,241	89.87%	4.133	4.104
OAKBROOK TERRACE	49,576	0.16%	80,274	61.76%	0.221	0.217
ROSELLE	749,958	2.47%	813,693	92.17%	2.237	2.204
VILLA PARK	696,544	2.29%	773,172	90.09%	2.115	2.109
WESTMONT	948,613	3.12%	1,053,708	90.03%	2.884	2.872
WHEATON	1,910,757	6.28%	2,142,939	89.17%	5.873	5.830
WILLOWBROOK	411,481	1.35%	487,959	84.33%	1.342	1.321
WINFIELD	326,802	1.07%	410,340	79.64%	1.127	1.113
WOOD DALE	547,703	1.80%	603,069	90.82%	1.654	1.639
WOODRIDGE	1,141,049	3.75%	1,162,806	98.13%	3.208	3.134
<b>TOTAL</b>	<b>30,410,013</b>	<b>100.00%</b>	<b>35,013,702</b>	<b>86.85%</b>	<b>96.323</b>	<b>94.751</b>

(1) Includes meter adjustment billings.

**CUSTOMER WATER STORAGE**

CUSTOMER	EXISTING STORAGE (MG)	2005 ALLOCATION (IN MGD)	% OF SYSTEM	REQUIRED STORAGE (MG)	SHALLOW WELL ALLOWANCE (MG)	% OF DWC STORAGE (MG)	STORAGE ABOVE OR (BELOW) REQ (MG)
ADDISON	6.75	4.561	4.74%	9.12	0.91	2.96	1.50
ARGONNE NAT'L LAB	1.02	0.758	0.79%	1.52	0.15	0.49	0.14
BENSENVILLE	3.55	2.704	2.81%	5.41	0.00	1.75	(0.10)
BLOOMINGDALE	4.80	2.803	2.91%	5.61	0.56	1.82	1.57
CAROL STREAM	6.50	4.531	4.70%	9.06	0.91	2.94	1.28
CLARENDON HILLS	1.25	0.716	0.74%	1.43	0.14	0.46	0.43
DARIEN	2.75	2.781	2.89%	5.56	0.56	1.80	(0.45)
DOWNERS GROVE	8.00	6.823	7.08%	13.65	1.36	4.43	0.15
ELMHURST	15.00	4.683	4.86%	9.37	0.94	3.04	9.61
GLENDALE HEIGHTS	4.20	3.049	3.17%	6.10	0.61	1.98	0.69
GLEN ELLYN (4)	3.17	2.950	3.06%	5.90	0.59	1.91	(0.23)
HINSDALE	4.50	2.655	2.76%	5.31	0.53	1.72	1.44
IAWC-ARROWHEAD	0.40	0.196	0.20%	0.39	0.04	0.13	0.17
IAWC-COUNTRY CLUB	0.20	0.117	0.12%	0.23	0.02	0.08	0.07
IAWC-DUPAGE/LISLE (1)	0.91	0.598	0.62%	1.20	0.12	0.39	0.22
IAWC-LOMBARD HEIGHTS (2)	0.08	0.072	0.07%	0.14	0.01	0.05	0.00
IAWC-LIBERTY RIDGE EAST (4)	0.07	0.051	0.05%	0.10	0.01	0.03	0.01
IAWC-LIBERTY RIDGE WEST (3)	0.40	0.349	0.36%	0.70	0.07	0.23	(0.00)
IAWC-VALLEY VIEW	0.88	0.700	0.73%	1.40	0.14	0.45	0.07
ITASCA	3.50	1.764	1.83%	3.53	0.35	1.14	1.47
LISLE (1)	4.79	3.225	3.35%	6.45	0.65	2.09	1.08
LOMBARD (2)	6.14	4.909	5.10%	9.82	0.98	3.19	0.49
NAPERVILLE	43.90	20.534	21.32%	41.07	4.11	13.32	20.26
OAK BROOK	8.00	4.133	4.29%	8.27	0.83	2.68	3.24
OAKBROOK TERRACE	0.50	0.221	0.23%	0.44	0.00	0.14	0.20
ROSELLE	1.75	2.237	2.32%	4.47	0.00	1.45	(1.27)
VILLA PARK	3.80	2.115	2.20%	4.23	0.42	1.37	1.37
WESTMONT	4.50	2.884	2.99%	5.77	0.58	1.87	1.18
WHEATON	7.26	5.873	6.10%	11.75	1.17	3.81	0.50
WILLOWBROOK	4.00	1.342	1.39%	2.68	0.00	0.87	2.19
WINFIELD (3)	1.60	1.127	1.17%	2.25	0.23	0.73	0.30
WOOD DALE	3.35	1.654	1.72%	3.31	0.33	1.07	1.45
WOODRIDGE	6.15	3.208	3.33%	6.42	0.64	2.08	2.46
CUSTOMER TOTAL	163.67	96.323	100.00%	192.65	17.96	62.50	51.49
COMMISSION TOTAL	62.50						
TOTAL	226.17						

(1) LISLE CONTRACTED STORAGE TO IAWC DUPAGE/LISLE  
(2) LOMBARD CONTRACTED STORAGE TO IAWC LOMBARD  
(3) WINFIELD CONTRACTED STORAGE TO IAWC LIBERTY RIDGE WEST  
(4) GLEN ELLYN CONTRACTED STORAGE TO IAWC LIBERTY RIDGE EAST

**MONTHLY WATER PUMPAGE**

MONTH	AVERAGE DAILY FLOW	MAXIMUM DAILY FLOW MGD	MINIMUM DAILY FLOW MGD	AVERAGE AIR TEMPERATURE °F
MAY, 2004	86.4	98.4	78.3	76
JUNE, 2004	93.5	113.9	82.2	82
JULY, 2004	104.2	122.6	84.7	85
AUGUST, 2004	100.0	120.6	84.5	82
SEPTEMBER, 2004	103.3	114.7	92.6	83
OCTOBER, 2004	83.5	98.8	75.0	67
NOVEMBER, 2004	74.9	81.4	69.5	54
DECEMBER, 2004	76.3	82.7	70.3	40
JANUARY, 2005	77.6	82.1	70.6	36
FEBRUARY, 2005	75.8	80.6	69.2	44
MARCH, 2005	75.2	80.5	70.3	48
APRIL, 2005	78.9	87.3	70.8	68
AVERAGE	85.8	97.0	76.5	64
MAXIMUM	104.2	122.6	92.6	85
MINIMUM	74.9	80.5	69.2	36

AVERAGE DAILY PUMPAGE                      85.8 MGD  
HIGHEST DAILY PUMPAGE                      122.6 MGD  
LOWEST DAILY PUMPAGE                      69.2 MGD

**ILLINOIS DEPARTMENT OF NATURAL RESOURCES  
LAKE MICHIGAN WATER ALLOCATIONS  
(Million Gallons Per Day) (1)**

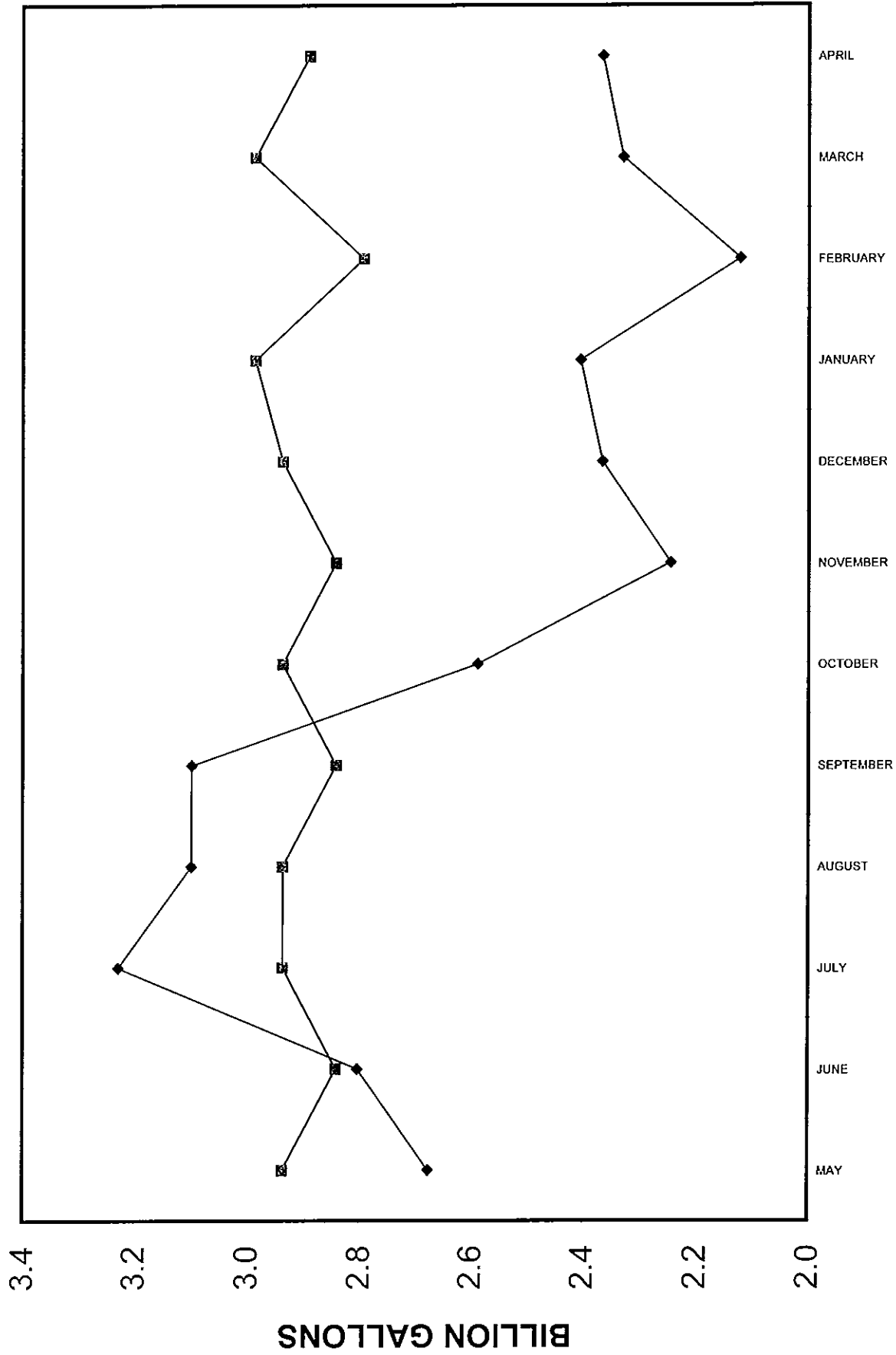
	2000	2010	2020
ADDISON	4.225	4.769	5.009
ARGONNE NAT'L LAB (2)	0.758	0.758	0.758
BENSENVILLE	2.654	2.754	2.858
BLOOMINGDALE	2.581	3.024	3.488
CAROL STREAM	4.191	4.871	5.565
CLARENDON HILLS	0.691	0.740	0.792
DARIEN	2.627	2.934	3.254
DOWNERS GROVE	6.516	7.129	7.751
ELMHURST	4.610	4.756	4.906
GLENDALE HEIGHTS	2.850	2.985	3.164
GLEN ELLYN	2.887	3.211	3.540
HINSDALE	2.626	2.684	2.739
IAWC-ARROWHEAD	0.196	0.196	0.196
IAWC-COUNTRY CLUB	0.117	0.117	0.117
IAWC-DUPAGE/LISLE	0.598	0.613	0.644
IAWC-LOMBARD HEIGHTS	0.046	0.055	0.063
IAWC-LIBERTY RIDGE EAST	0.320	0.386	0.440
IAWC-LIBERTY RIDGE WEST	0.072	0.072	0.072
IAWC-VALLEY VIEW	0.700	0.700	0.700
ITASCA	1.650	1.879	1.907
LISLE	3.023	3.426	3.841
LOMBARD	4.738	5.081	5.430
NAPERVILLE	16.234	21.167	22.432
OAK BROOK	3.984	4.282	4.585
OAKBROOK TERRACE	0.102	0.293	0.293
ROSELLE	2.072	2.401	2.739
VILLA PARK	2.085	2.146	2.206
WESTMONT	2.823	2.945	3.069
WHEATON	5.656	6.090	6.530
WILLOWBROOK	1.235	1.397	1.508
WINFIELD	1.058	1.197	1.341
WOOD DALE	1.576	1.733	1.894
WOODRIDGE	2.840	3.576	4.331
<b>TOTALS</b>	<b>88.341</b>	<b>100.367</b>	<b>108.162</b>

(1) State Water allocations are expressed in terms of average quantity per day. Actual use in a day may exceed average daily use.

(2) The State of Illinois has determined that no water allocation permit is required for Argonne National Laboratory to draw water from Lake Michigan. The figures set forth in this table for Argonne National Laboratory represent the maximum amount of water the Commission is obligated to sell to it.

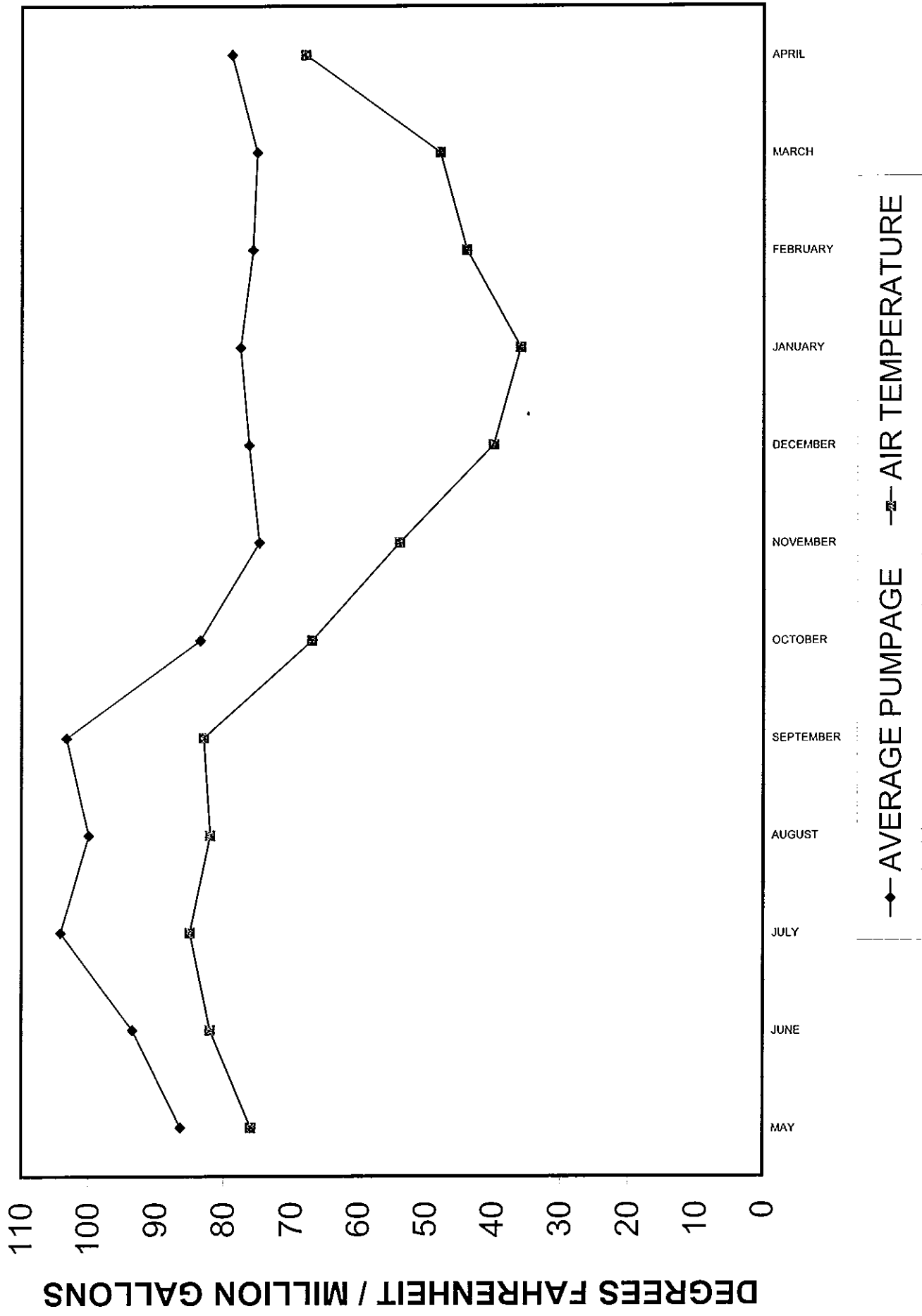


# WATER PUMPAGE VS. ALLOCATION

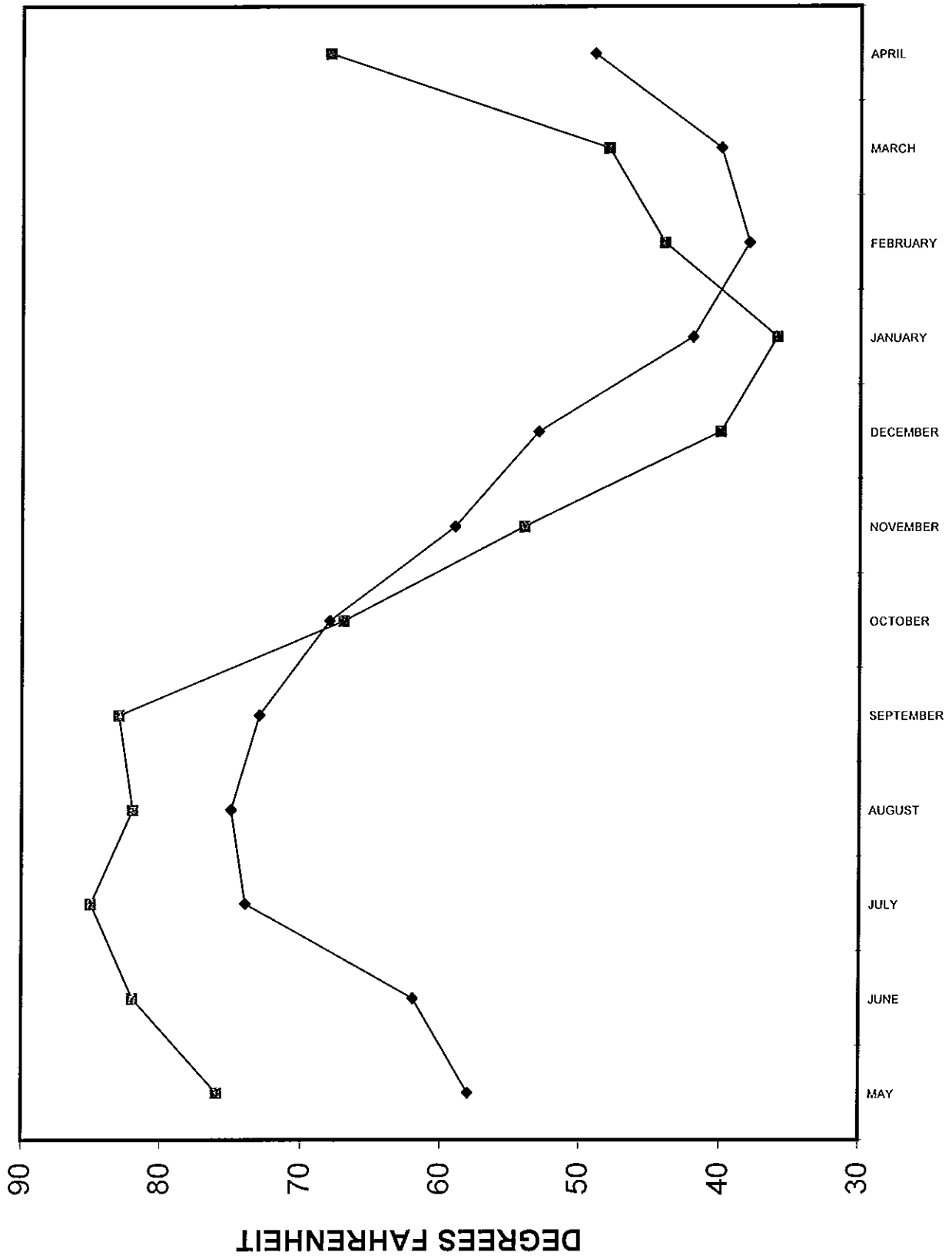


◆ ACTUAL PUMPAGE      □ ALLOCATION

# WATER PUMPAGE VS. AVERAGE AIR TEMPERATURE



# WATER TEMPERATURE VS. AVERAGE AIR TEMPERATURE



WATER TEMPERATURE
  AIR TEMPERATURE



## DU PAGE WATER COMMISSION

600 E. BUTTERFIELD ROAD • ELMHURST, IL • 60126-4642  
(630) 834-0100 • FAX: (630) 834-0120

October 13, 2005

Mr. Robert L. Martin, P.E.  
General Manager  
DuPage Water Commission  
600 E. Butterfield Road  
Elmhurst, IL 60126

Dear Mr. Martin:

The Instrumentation and Remote Facilities Department added two technicians in the Fall of 2004 and created two teams of two technicians to work mainly at the 123 different remote facilities. The two instrumentation technicians primarily maintain and calibrate all the instrumentation within the pump station and remote facilities. The two maintenance technicians primarily maintain the electrical, mechanical and structural systems at the remote facilities. At times, however, their duties overlap and they will work together when needed.

In March of 2005, the meter shop technician left the Commission before completing the annual meter testing program. A replacement was hired, trained, and successfully completed the program before the end of the fiscal year. The meter testing program found only one meter that was over-registering causing a credit of \$248.26. No meters were found that were under-registering.

The Instrumentation and Remote Facilities Department has maintained the proper operation and regular calibration of all instrumentation within the pump station and all remote facilities. The department also repairs, maintains, and tests quarterly the pump station security system, which includes perimeter doors with proximity card access, monitored doors, hatches, skylights, windows, and surveillance video cameras.

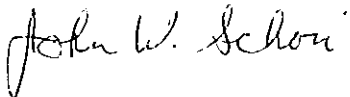
The Lexington Pump Station discharge flow meters used by Chicago Water Department to measure the amount of water purchased by the Commission were calibrated monthly by the instrumentation technicians and witnessed by representatives of the Chicago Water Department Maintenance and Operational Methodology (MOM) group.

In addition, the following list briefly describes several systems upgraded, changed, or added during this fiscal year to improve reliability or to stay current with technology.

- The Exchange Server hardware and software for E-mail was upgraded in June 2004.
- A new visitor badge system was implemented in June 2004.
- The meter shop test bench modifications were completed in September 2004.
- The hardware and software for the SCADA host servers and control room workstations were upgraded in December 2004.
- The meter shop test bench control system upgrade was completed in February 2005.
- The telephone system was upgraded in February 2005.
- Remote access for managers to the administrative network was implemented in February 2005.
- The Uninterruptible Power Supply (UPS) system was redesigned and bid out for replacement. Construction began in April 2005 and was completed in June 2005.

The Department also manages and maintains the SCADA network and the Administrative LAN, which involves user support for Internet, E-mail, workstation, and program applications problems.

Very truly yours,



John W. Schori  
Instrumentation and Remote Facilities Supervisor



**INSTRUMENTATION AND REMOTE FACILITIES  
INFORMATION**

REMOTE FACILITIES:

Location	Meter Stations	Remotely Operated Valves	Standpipes	Cathodic Protection Rectifiers	Pump Station
Addison	5	1			
Argonne	1				
Bensenville	1	1			
Bloomingtondale	2				
Carol Stream	2				
Clarendon Hills	2				
Darien	2	1			
Downers Grove	6	3			
Elmhurst	3	3			
Glen Ellyn	2	1			
Glendale Heights	3	1	1		
Hinsdale	1				
Illinois American Water	7				
Itasca	3	1			
Lisle	3		2		
Lombard	4	2			
Naperville	8	4	1		
Oak Brook	3	1			
Oakbrook Terrace	2	1			
Roselle	3	1	1		1
Villa Park	3	1			
Westmont	2				
Wheaton	3	2			
Willowbrook	1	1			
Winfield	1				
Wood Dale	2				
Woodridge	3	1			
Cicero				1	
Bellwood		1			
Broadview		1		1	
Forest Park		1		2	
Hillside				1	
Lexington Pump Station		3			
Maywood				1	
Warrenville		1			
<b>Totals</b>	<b>78</b>	<b>33</b>	<b>5</b>	<b>6</b>	<b>1</b>

TURBINE WATER METERS:

Size	Quantity	Location	Calibration Schedule
6"	40	Meter Stations	Annual
6"	15	Spares	Annual
8"	103	Meter Stations	Annual
8"	13	Spares	Annual
10"	60	Meter Stations	Annual
10"	18	Spares	Annual

PRESSURE TRANSMITTERS:

Location	Quantity	Calibration Schedule
Meter Stations	151	Annual
ROV's	29	Annual
Pump Station	2	Quarterly

LEVEL TRANSMITTERS:

Location	Quantity	Calibration Schedule
Pump Station	2	Quarterly
Standpipes	5	Quarterly
NaOCI Tanks	4	Annual

FLOW TRANSMITTERS:

Location	Quantity	Calibration Schedule
Pump Station 90" Supply	2	Quarterly
Pump Station 72" Supply	2	Quarterly
Pump Station East Discharge	2	Quarterly
Pump Station West Discharge	2	Quarterly
Lexington Discharge	2	Monthly

ON-LINE WATER QUALITY INSTRUMENTATION:

Device	Location	Calibration Schedule
Cl <sub>2</sub> Analyzer	90" Supply	Quarterly *
Cl <sub>2</sub> Analyzer	72" Supply	Quarterly *
Cl <sub>2</sub> Analyzer	Discharge	Quarterly *
Cl <sub>2</sub> Analyzers	5-Standpipes	Quarterly **
Turbidity	90" Supply	Quarterly
Turbidity	72" Supply	Quarterly
Turbidity	Discharge	Quarterly
pH Analyzer	90" Supply	Quarterly
Temperature	90" Supply	Quarterly
Temperature	Discharge	Quarterly

\* Checked Weekly      \*\* Checked Monthly

WORK ORDERS:

Type	Quantity
Scheduled PM or Cal. Completed	1,823
Scheduled PM or Cal. Not Completed	29
Corrective Completed	305
Corrective Not Completed	172

**METER STATION INFORMATION**

<u>CUSTOMER</u>	<u>METER STATION</u>	<u>NUMBER OF METERS</u>	<u>METER SIZE (INCHES)</u>	<u>CUSTOMER</u>	<u>METER STATION</u>	<u>NUMBER OF METERS</u>	<u>METER SIZE (INCHES)</u>
Village of Addison	1a	2	10	Village of Itasca	25a	2	6
	1b	2	10		25b	2	6
	1c	2	6		25c	2	8
	1d	2	10	Village of Lisle	13a	3	8
	1e	2	6		13b	3	8
Argonne Nat'l Laboratory	28a	2	8	13c	2	10	
Village of Bensenville	2a	5	8	Village of Lombard	14a	3	8
					14b	2	8
Village of Bloomingdale	3a	3	8		14c	2	6
	3b	3	6		14d	3	10
Village of Carol Stream	4a	3	8	City of Naperville	15a	3	10
	4b	3	8		15b	5	10
Village of Clarendon Hills	6a	2	6		15c	5	8
	6b	2	6		15d	3	6
City of Darien	7a	3	8	15e	3	10	
	7b	2	8	15f	5	8	
Village of Downers Grove	8a	3	8	Village of Oak Brook	16a	3	10
	8b	2	8		16b	2	8
	8c	2	10		16c	3	10
	8d	3	10	City of Oakbrook Terrace	17a	2	6
	8e	3	8		17b	2	8
	8f	2	8		Village of Roselle	18a	2
City of Elmhurst	10a	3	8	18b		2	8
	10b	3	8	18c		2	8
	10c	3	8	Village of Villa Park	19a	2	8
Village of Glen Ellyn	26a	2	10		19b	2	6
	26b	5	8		19c	2	8
Village of Glendale Heights	11a	2	8	Village of Westmont	20a	3	8
	11b	3	6		20b	3	8
	11c	2	6	City of Wheaton	21a	3	10
Village of Hinsdale	12a	5	8		21b	3	10
					21c	3	8
Illinois American Water Co	5a	2	6	Village of Willowbrook	22a	3	10
	5b	2	6		Village of Winfield	27a	2
	5c	2	6	City of Wood Dale		23a	2
	5d	2	6		23b	2	10
	5e	2	6		Village of Woodridge	24a	2
	5f	1	8	24b		2	10
	5g	1	6	24c		2	10
Total Meter Stations					78		
Total Meters In Service					203		



## DU PAGE WATER COMMISSION

600 E. BUTTERFIELD ROAD • ELMHURST, IL • 60126-4642  
(630) 834-0100 • FAX: (630) 834-0120

October 13, 2005

Mr. Robert Martin P.E.  
General Manager  
DuPage Water Commission  
600 E. Butterfield Road  
Elmhurst, IL 60126

Dear Mr. Martin:

I was hired for the newly created position of GIS Coordinator last November to begin the process of implementing a geographic information system for the DuPage Water Commission. My roadmap for the job is the needs analysis and comprehensive plan prepared for the Commission by Patrick Engineering in 2004. The analysis identifies key issues affecting data management within the Commission organization and provides a multi-year blueprint and budget for developing a viable and useful GIS for the long term. The analysis identified 17 "critical action items" necessary for a successful GIS implementation. As will be discussed in more detail below, over half of these 17 items are complete or in progress.

GIS is an evolving technology that combines computerized mapping with a database management system and a means for distributing maps and data through hard copy output, web based and stand-alone applications and mobile devices. A GIS allows users to combine layers of data in new ways and to accurately locate physical assets and related attribute information about those assets. When properly designed and implemented, GIS produces tangible and intangible benefits that enhance productivity and allow for better decision making based on more accurate and accessible information. The primary focus of our efforts for the Commission's GIS has been to collect and combine into a single database all relevant information about the pipeline water distribution system and to integrate it with the mapping capability. The goal of this is to enable a two way flow of information – from maps to data and data to maps – and empower staff with the information technology tools they need to be more effective in their jobs.

My first task upon reporting to work at the Commission was to read the Patrick Engineering GIS report. This quickly lead to purchase orders for GIS software and establishment of a Master Contract with Patrick to provide professional engineering services as required relating to GIS projects. The software was purchased from Environmental Systems Research Institute (ESRI), the world's leading GIS software company, and included ArcINFO, ArcIMS Internet Mapping Software, ArcSDE Spatial



Database Engine and program extensions such as 3D Analyst that provide additional cartographic and analysis functionality.

Patrick Engineering conducted a hardware review of our then existing servers to ensure we had adequate computing power for the GIS software. This resulted in the purchase and installation of a new, more powerful data server and a web server along with a robust database management system, Microsoft SQL Server. All the new equipment and software were installed and configured by the end of March and the Commission's essential GIS system architecture as defined the Patrick Engineering study was in place. This positioned us to begin full fledged development of the map and attribute data to be included in the system.

The Patrick Engineering report identified a significant reliance on undocumented "corporate knowledge", a general "lack of confidence" in the accuracy and integrity of important data sets, "redundant information" collection and storage, "prevalence of paper-based information" gathering including the use of Street Finder Atlases with hand-drawn pipeline features used by staff to locate assets in the field and a "lack of access to vital information" sources in the field. The problem was illustrated by the fact that there existed no one single engineering drawing that showed the entire DuPage Water Commission system.

To address this, and establish a baseline map for further development, I began transferring pipeline location information from approximately 1,400 engineering drawings using the "eyeball" method to manually place pipelines in the GIS with an AutoCAD schematic hydraulic model map as a guide. This was a valid approach because for one, it filled the down-time I experienced waiting for software and hardware to arrive and two, the line locations would later be "snapped" to global positioning system points being collected by Alvord, Burdick & Howson (AB&H) using high-end, survey grade global positioning system (GPS) equipment. AB&H has been working for months to collect GPS points to mark locations every 500 feet along the centerlines to include all tees and bends of more than 11.5 degrees. They are also capturing related structures such as valves, manholes, test sites, electrical cabinets, etc. When complete, we will have data of sub-centimeter accuracy thereby enabling us to produce maps and locate assets with a high degree of confidence and precision.


We have made significant progress in implementing the recommendations in the Patrick Engineering report. The Commission now has a GIS staff with one full time Coordinator and part time Intern and a steering committee as a governance structure. Our system architecture is complete along with all necessary software. We have data sharing agreements with Cook and DuPage Counties to obtain essential data layers such as digital orthorectified aerial photos, street centerlines, topographic data, parcel boundaries and ownership information and others. These cooperative relationships save the Commission money by eliminating the need to develop our own base map data and enabling us to focus on Commission specific assets. There is an internal GIS website available to staff for browsing and plans are in place to improve the site and train staff on its use. The GPS project is over 70% done. The data collected so far has

been converted to GIS format and used to accurately georegister pipeline features within the GIS. Also, since we now have most valve GPS points, we are able to start populating valve number attribute fields and link the mapped data to the existing maintenance management system.

Ahead of us are the remaining action items needed to make GIS an essential part of the day-to-day operations of the Commission. These include a logical and physical database design based on an industry-standard data model to help ensure consistency and data integrity in GIS. We are researching products and preparing or have prepared Requests for Proposals for a new work order and asset management system and a document management system. Both of these systems will be integrated with GIS to provide staff with the two-way flow of information mentioned previously.

Open questions surround the issues of establishing standards for geographic information distribution and submission; appropriate and secure field applications for attribute data gathering and two way communications for work orders and JULIE locate requests; and documentation with metadata of the data and standards of accuracy within the GIS. I'm confident that answers to these questions will become clearer as we continue to build our GIS database, select a work order software vendor and increase staff knowledge and experience with GIS.

Very truly yours,

A handwritten signature in black ink that reads "Frank J. Frelka". The signature is written in a cursive, slightly slanted style.

Frank J. Frelka  
GIS Coordinator



## DU PAGE WATER COMMISSION

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October 13, 2005

Mr. Robert L. Martin, P.E.  
General Manager  
DuPage Water Commission  
600 E. Butterfield Rd.  
Elmhurst, IL 60126

Dear Mr. Martin:

In continuation of requirements of the Public Health Security and Bioterrorism Act, the Emergency Response Plan was reviewed biannually and updated with current information.

Camp Dresser & McKee Engineers commenced design of the Electrical Generation Facility for the DuPage Pumping Station. Design was halted at the 30% mark as the Commission had questions about the necessity of the facility. In an effort to answer these questions, Staff conducted numerous surveys and provided data regarding the availability and readiness of Customer Utilities in the event of loss of utility power. The Commission directed staff to have performed a Reliability Assessment of the Commonwealth Edison electric utility as well as a Benchmark Analysis of water utilities similar in mission to the Commission. Consolidated Consulting Corporation was hired to perform the Reliability Assessment and Camp Dresser & McKee, with assistance of Patrick Engineering, performed the Benchmark Analysis. The findings were presented to the Commission on January 12, 2005. There were questions about the practicality of back-up electrical generation at the DuPage Station without back-up electrical generation at the Lexington Pumping Station. Staff was directed to begin discussions with the City of Chicago regarding construction and financing of a facility at Lexington. As a result, the Electrical Generation Facility for the DuPage Pumping Station project remains on hold.

Consoer Townsend Envirodyne commenced design of the additional reservoir facilities along with equipment and material storage facilities. With design virtually complete, the Commission raised questions about the necessity of the reservoirs versus stand-by electrical generation. This resulted in the reservoir project being pushed back in the Five-Year Capital Improvement Plan, with potential construction in FY 10-11. Recognizing the need for additional storage space and other needs, Staff segregated portions of the reservoir project into Divisions A, B and C. Divisions A & B relate to equipment & material storage and

the re-alignment of Cadwell Avenue. These items are budgeted for FY 05-06. Division C is the reservoir structure.

Due to concerns and a legal filing by the City of Darien regarding drainage problems potentially associated with construction of the Commission's transmission main system, Consoer Townsend Envirodyne Engineers were retained to provide a study and potential solutions. The outcome is the design and contract known as TS-6.

As part of the ongoing evaluation of the adequacy of the Commission's main system, Consoer Townsend Envirodyne Engineers were retained to provide a hydraulic study on transmission system regarding existing pipelines, proposed pipelines and pipelines under construction.

The Village of Lombard initiated discussions on a fifth connection point to the Commission's transmission main system. Designs by Lombard's consultant, Christopher B. Burke, are ongoing.

Contract MS-13/00 was closed out after reaching a settlement agreement approved by the Circuit Court.

Ongoing facility improvements included negotiation with the business entity adjacent to Tank Site #1 in Roselle. The Commission had an unimproved access easement with this entity dating back to original tank construction. Staff had previously investigated improving the easement for vehicular access but found it cost prohibitive. With the expansion of the business facility, Staff negotiated an agreement where the business entity's contractor would build the access driveway in conjunction with their work, thereby reducing costs due to economies of scale.

To assist in development of a Draft Customer Contract with the County of DuPage, planning level cost estimates, exhibits and past actual construction costs associated with connection facilities, were provided as back-up documentation.

A survey was performed in an effort to determine the actual population served with lake water inside the boundaries of DuPage County. The survey result indicated that approximately 94.5% of the County's population receives lake water.

Very truly yours,



R. Christopher Bostick  
Facilities Construction Supervisor





## DU PAGE WATER COMMISSION

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October 13, 2005

Mr. Robert L. Martin, P.E.  
General Manager  
DuPage Water Commission  
600 E. Butterfield Road  
Elmhurst, IL. 60126

Dear Mr. Martin,

The single most defining milestone that has occurred within the Department over the course of the last fiscal year has undoubtedly been the development and implementation of the Department's preventative maintenance program. The successful development and launch of this program could not have been accomplished without the contributions of each and every individual within the Department.

We realize that this is only the beginning. The program is in its infancy, and as such, there is still much to be done. With that in mind, one of the Department's goals for the future, in conjunction with the GIS Department, is to build and improve upon our accomplishments of the past.


In addition to the preventative maintenance work, the Pipeline Department has, over the course of the last fiscal year, been responsible for:

- The Construction supervision, management and close out of Contract BOV-1.
- Construction management for Contract TIB-1. This project, though not significant in length, is particularly challenging in its scope. Existing site conditions, including the predominance of utilities, subsurface soil conditions, limited work site access, together with efforts to keep disruption to the homes, schools, and businesses along the route to a minimum, have all combined to create one of the most difficult projects the Commission has ever undertaken. This project is expected to be closed out within fiscal year 2005/2006.



- Coordination of work with Cathodic Protection Management (CPM) under their contract with the Commission to provide field investigation, and to assess, identify and report on corrosion potentials of Commission owned facilities. Pipeline personnel have assisted in the prosecution of the contract by installing test leads on numerous structures as required for the purpose of field data collection, and by providing traffic control for CPM's personnel when necessary.
- Performed monthly bacteriological samples as required by IEPA.
- Supervision of Contract QR-6 pipeline repair work. This work includes the supervision and documentation of routine maintenance work, in addition to emergency response type work.
- Received and screened 57,767 J.U.L.I.E. locate requests. Of these, 4,984 requests required field locating of Commission facilities.
- Reviewed and responded to 74 sets of plans submitted by outside agencies for the purpose of determining potential conflicts between the proposed improvements and existing Commission facilities.

Very truly yours,



Edward Kazmierczak  
Pipeline Supervisor

**TYPE AND SIZE OF VALVES IN SERVICE**

<b>TYPE OF VALVE</b>	<b>SIZE OF VALVE</b>	<b>NUMBER</b>
BUTTERFLY	90"	1
BUTTERFLY	84"	17
BUTTERFLY	72"	17
BUTTERFLY	60"	4
BUTTERFLY	54"	11
BUTTERFLY	48"	10
BUTTERFLY	42"	6
BUTTERFLY	36"	31
BUTTERFLY	30"	30
BUTTERFLY	24"	32
BUTTERFLY	20"	32
BUTTERFLY	16"	38
BUTTERFLY OR GATE	12"	20
BLOW-OFF	6" TO 18"	<u>374</u>
	TOTAL	623

**TYPE AND SIZE OF PIPES IN SERVICE**

<b>TYPE OF PIPE</b>	<b>SIZE OF PIPE</b>	<b>FEET OF PIPE</b>
PRESTRESSED CONCRETE CYCLINDER PIPE	16" THROUGH 90"	473,989
STEEL	16" THROUGH 84"	204,971
DUCTILE IRON	12" THROUGH 42"	166,249

MONTHLY J.U.L.I.E. REPORTS 2004/2005

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS

MONTH	03/04 REQUESTS	04/05 REQUESTS	03/04 LOCATES	04/05 LOCATES	03/04 PLAN REVIEWS	04/05 PLAN REVIEWS
MAY	6,210	6501	554	432	7	8
JUNE	5,976	6598	653	410	5	7
JULY	5,490	6193	568	433	5	7
AUGUST	4,894	5647	486	495	4	5
SEPTEMBER	4,926	5877	577	454	5	5
OCTOBER	5,586	5440	690	465	6	5
NOVEMBER	3,416	4281	551	390	6	6
DECEMBER	2,717	2845	439	368	6	5
JANUARY	1,607	1972	164	302	4	5
FEBRUARY	1,760	2160	172	273	6	7
MARCH	4,095	4115	301	481	8	7
APRIL	6,878	6138	361	481	5	7
<b>TOTAL</b>	<b>53,555</b>	<b>57,767</b>	<b>5,516</b>	<b>4,984</b>	<b>67</b>	<b>74</b>



## DU PAGE WATER COMMISSION

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October 13, 2005

Mr. Robert L. Martin, P.E.  
General Manager  
DuPage Water Commission  
600 E. Butterfield Road  
Elmhurst, IL 60126

Dear Mr. Martin:

In June 1999, the Governmental Accounting Standards Board (GASB) adopted Statement 34, which requires that a "Management Discussion and Analysis" (MD&A) be included in the annual audited financial statements. Items found in the MD&A include analyses of changes in net assets, revenues and expenditures, capital assets and debt administration. This report tries not to duplicate information found in the MD&A and should be read in conjunction with the MD&A to fully understand the financial operations of the Commission.

### **FINANCIAL OPERATIONS OVERVIEW**

In Fiscal Year 2004-05, the Commission served 25 municipal utilities, 7 private utility service areas and Argonne National Laboratory. The current state statute requires the Commission's Fiscal Year 2002-03 Charter Customer water rate of \$1.65 per 1,000 gallons not to be increased until 2008.

With revenues of \$88.6 million and expenses of \$68.4 million, the Commission's net assets increased by \$20.2 million in fiscal year 2004-05 to \$326.1 million. Restricted net assets and net assets invested in property, plant and equipment were \$31.6 million and \$213.5 million, respectively.

### **BUDGETARY ANALYSIS**

The table below compares actual fiscal year 2004-05 revenues and expenses to budget. Total revenues were 2.2% less than budget. Total operating expenditures were below budget by 8.7%. All significant dollar variances will be discussed.

Water operations and maintenance revenues were \$51.4 million, \$3.6 million (6.5%) less than budget. Last summer's cool, wet weather is the reason total water sales, 30.43 billion gallons, were under budgeted water sales of 32.91 billion gallons.

Sales tax collections rose substantially over last year. Collections for the fiscal year were \$34.4 million, \$2.3 million (7.1%) over budget. The Commission's general obligation bond payment was fully funded by sales tax receipts. In addition, \$7.1 million of sales tax revenue was used to reduce the customers' water revenue bond fixed cost payment for fiscal year 2004-05 by 50%.

Market fluctuations caused a decrease in investment market values over the course of the fiscal year resulting in investment income below budget. The budgeted average rate of return was 2.0% for fiscal year 2004-05. At the end of the fiscal year, the portfolio was earning 3.173% based on market yield and 2.878% based on original purchase price, up from 1.21% and 2.02% the previous fiscal year.

Overall direct water supply costs were \$45.0 million, \$4.5 million (9.0%) under budget. The overall direct water supply costs are directly related to total water sales. Therefore, because last summer's cool, wet weather slowed sales, it also slowed costs.

Depreciation expense was below budget because not as many capital assets were constructed as anticipated.

All Other Expenses, specifically insurance costs, were significantly less than the current fiscal year budget. The Commission has a self-insurance reserve of 1.0 million, which had no charges incurred.

	BUDGET	ACTUAL	VARIANCE FAVORABLE (UNFAVORABLE)	% OF BUDGET
<b>REVENUES</b>				
Water Sales - All Categories	\$ 54,954,943	\$ 51,399,278	\$ (3,555,665)	93.5%
Sales Tax	32,113,126	34,384,906	\$ 2,271,780	107.1%
Investment Income	3,600,000	2,856,461	\$ (743,539)	79.3%
All Other Revenues	6,300	6,393	\$ 93	101.5%
<b>Total Revenue</b>	<b>90,674,369</b>	<b>88,647,038</b>	<b>(2,027,331)</b>	<b>97.8%</b>
<b>EXPENSES</b>				
Water Supply Costs	49,479,642	45,018,872	4,460,770	91.0%
Depreciation	6,969,232	6,668,013	301,219	95.7%
Personnel Services	5,604,604	5,355,811	248,793	95.6%
Bond Interest	9,262,719	9,262,718	1	100.0%
All Other Expenses	3,658,099	2,129,165	1,528,934	58.2%
<b>Total Expense</b>	<b>74,974,296</b>	<b>68,434,579</b>	<b>6,539,717</b>	<b>91.3%</b>
<b>NET FUND TRANSACTIONS</b>	<b>\$ 15,700,073</b>	<b>\$ 20,212,459</b>	<b>(4,512,386)</b>	<b>N/A</b>

### **CONTINUING BOND DISCLOSURE**

The Commission is in full compliance with all requirements of its general obligation and revenue bond ordinances. By issuing the 2001 general obligation bonds, the Commission is obligated to provide continuing disclosure of updated information provided in the bond prospectus. This resulted in the addition of charts showing the Commission's sales tax revenue and equalized assessed valuation history as well as state water allocations for its customers. Certain updated statistics from DuPage County's financial reports, used in the bond prospectus, also appear in this report. Other required disclosures have been reported in the annual audited financial statements.

The Commission is required to levy property taxes on real property within its territory without limitation as to rate or amount, in amounts sufficient to pay, when due, the principal of and interest on the Commission's general obligation bonds, including the Series 2001 Bonds. However, since sales tax revenues have been sufficient to date, all such levies have been abated through the 2004 levy year.

### **FUND BALANCE MONITORING**

In April 1992, the Commission established a policy regarding what portion of its fund balance should be kept available for emergency repairs and other contingencies. A balance of 5% of the original construction costs (\$413,500,000 including facilities to be owned by the City of Chicago) adjusted annually by the Engineering News Record (ENR) construction index was established to handle system emergencies. In July 2003, the Commission adopted a resolution reducing the Emergency Repairs and Contingencies Reserve from 5% to 2% of the construction values as adjusted annually by the construction index. Based on these criteria, the targeted balance available for emergency repairs was \$28.1 million as of April 30, 2004. Balance for the Emergency Repairs and Contingencies Reserve was \$12.3 million at April 30, 2005.

### **ANALYSIS OF EQUITY**

GASB Statement 34 requires the delineation of net assets (fund balances) as follows:

- Capital Investments;
- Restricted Funds;
- Unrestricted Funds.

"Capital Investments" represent funds that have been used to acquire the pipelines, pump station, storage facilities and meter stations constructed and operated by the DuPage Water Commission. Also included in this category are a pump station and water tunnel constructed by the Commission for the City of Chicago. The Commission is being reimbursed for these construction costs with a 20% credit against the water bill



from the City of Chicago to the Commission until the amount has been satisfied. Netted against these assets are the long-term general obligation and revenue bond liabilities that will be funded from future revenues of the Commission.

The category "Restricted Funds" includes all of the restricted cash, investments and other assets in accounts required by the revenue bond ordinance as well as amounts held for paying the debt service on the Commission's general obligation bonds. Netted against these assets are items that are appropriately payable under the bond ordinances from these funds. Balances held in revenue bond trust and reserve accounts in excess of revenue bond ordinance requirements are treated as "unrestricted". Though presently being held in restricted accounts, such assets may be immediately transferred by Commission directive to non-restricted accounts.

Within "Unrestricted Funds," the Commission expands the GASB Statement 34 reporting requirements to better explain its financial position. Unrestricted funds are reported in several subcategories to identify the purpose of these holdings. These subcategories are:

Operating Designations

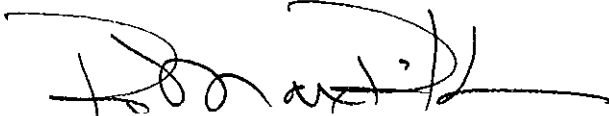
- for emergency repairs and other contingencies;
- for water rate stabilization;
- for the acquisition of capital assets;

Non-operating Designations

- for water quality loans;
- for prior pension costs.

These subcategories include unrestricted Commission assets, other than infrastructure, less both current and long-term liabilities payable from those balances. The amount to be held for emergency repairs and other contingencies is determined using the methodology explained in the *Fund Balance Monitoring* section above. The remaining amounts have been reserved by resolution of the Board of Commissioners as follows: Amounts generated by water rates not needed for emergency repairs and other contingencies are reserved for water rate stabilization. Sales tax proceeds not required for emergency repairs and other contingencies are reserved for the acquisition of capital assets: new additions or retirement of debt on existing facilities including full general obligation bond funding and partial funding of the annual revenue bond requirements.

Very truly yours,



R. Max Richter  
Financial Administrator

**DUPAGE WATER COMMISSION  
NET ASSET ANALYSIS (1)  
Last Ten Fiscal Years Ended April 30,**

	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
<u>UNRESTRICTED FUNDS</u>										
DESIGNATED FOR EMERGENCY REPAIRS AND CONTINGENCIES (2)	\$ 12,300,000	\$ 11,700,000	\$ 28,100,000	\$ 27,300,000	\$ 26,500,000	\$ 25,800,000	\$ 25,100,000	\$ 25,000,000	\$ 24,200,000	\$ 23,200,000
DESIGNATED FOR WATER RATE STABILIZATION (3, 5)	43,769,940	44,223,356	45,005,162	46,471,406	38,960,224	28,833,359	20,670,215	9,159,725	16,068,495	10,099,590
DESIGNATED FOR THE ACQUISITION OF CAPITAL ASSETS (4, 5)	14,971,963	14,282,480	49,512,314	53,471,628	47,687,798	38,768,625	37,408,184	36,500,625	-	4,128,773
UNDESIGNATED	-	-	-	-	-	280,397	-	388,117	12,198,948	11,349,338
<b>TOTAL UNRESTRICTED OPERATING FUNDS</b>	<b>71,041,903</b>	<b>70,205,836</b>	<b>122,617,476</b>	<b>127,243,034</b>	<b>113,148,022</b>	<b>93,692,381</b>	<b>83,178,399</b>	<b>71,048,467</b>	<b>52,467,443</b>	<b>48,777,701</b>
DESIGNATED FOR WHOLESALE CUSTOMER WATER QUALITY LOANS	9,937,000	9,937,000	10,000,000	-	-	-	-	-	-	-
DESIGNATED TO FUND ILLINOIS MUNICIPAL RETIREMENT FUND PRIOR SERVICE PENSION COSTS	-	2,605,192	3,805,524	-	-	-	-	-	-	-
<b>TOTAL UNRESTRICTED NON-OPERATING FUNDS</b>	<b>9,937,000</b>	<b>12,542,192</b>	<b>13,805,524</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL UNRESTRICTED FUNDS</b>	<b>80,978,903</b>	<b>82,748,028</b>	<b>136,423,000</b>	<b>127,243,034</b>	<b>113,148,022</b>	<b>93,692,381</b>	<b>83,178,399</b>	<b>71,048,467</b>	<b>52,467,443</b>	<b>48,777,701</b>
RESTRICTED FUNDS	31,551,651	40,940,010	51,202,190	48,906,283	46,893,951	42,361,844	42,329,739	42,531,917	49,036,266	43,216,886
CAPITAL INVESTMENTS	213,534,114	182,164,171	181,152,491	171,558,854	155,797,266	144,049,731	125,529,944	109,135,921	102,154,443	94,255,494
<b>TOTAL NET ASSETS</b>	<b>\$326,064,668</b>	<b>\$ 305,852,209</b>	<b>\$ 368,777,681</b>	<b>\$ 347,708,171</b>	<b>\$ 315,839,239</b>	<b>\$ 280,103,956</b>	<b>\$ 251,038,082</b>	<b>\$ 222,716,305</b>	<b>\$ 203,658,152</b>	<b>\$ 186,250,081</b>

(1) FY 1995 through FY 2001 restated for implementation of GASB Statement #34 during FY 2002.

(2) Established in FY 1994 at 5% of original construction costs as of May 1, 1992; increased annually by Engineering New Record Construction Index. Changed to 2% of original construction costs as of July 31, 2003.

(3) Established in FY 1996 with sales tax revenues not required for emergency repairs.

(4) In FY 1994, committed \$32 million of sales tax funds to construct a second supply main from the City of Chicago.

(5) In FY 1998, committed sales tax revenues not required for emergency repairs to facilities construction. Rate Stabilization Reserve re-established using water revenues only.

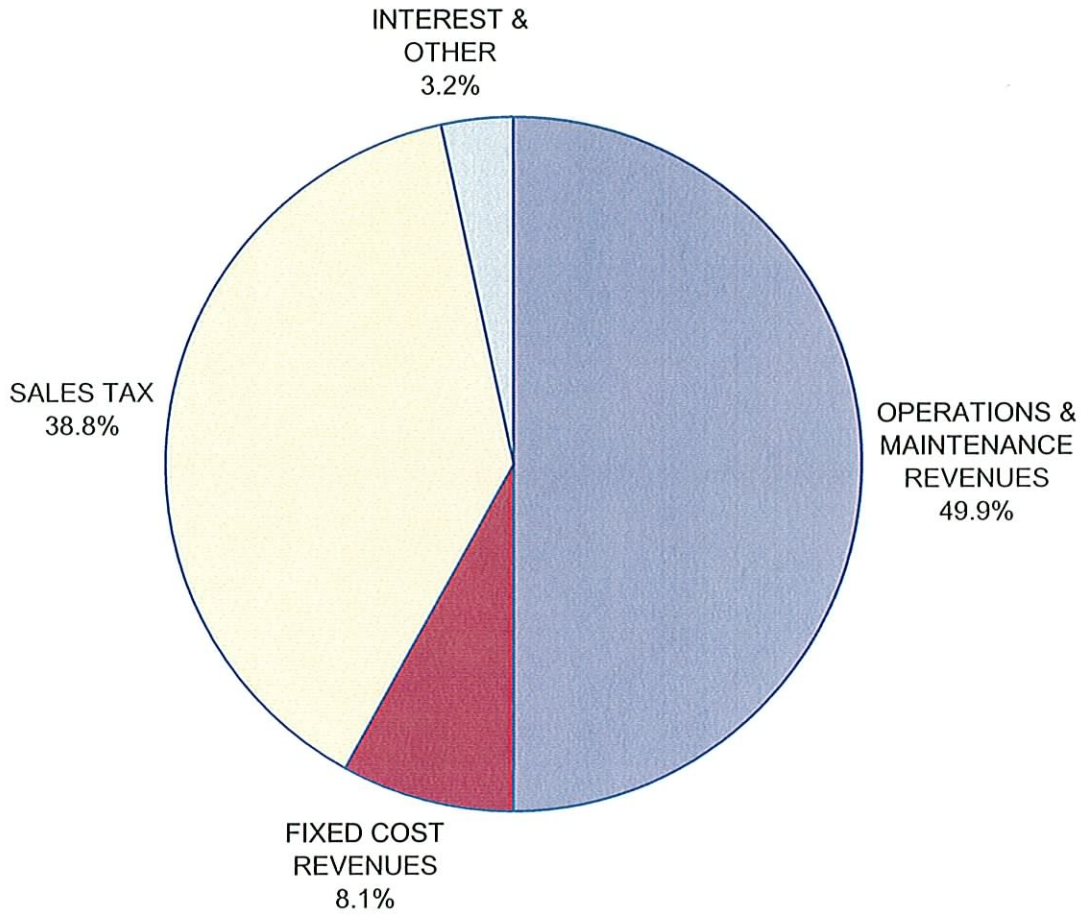
**DUPAGE WATER COMMISSION**  
**INCOME STATEMENT BUDGET COMPARISON**  
**For Fiscal Year Ending April 30, 2005**

<u>REVENUE</u>	Y-T-D ACTUAL	Y-T-D BUDGET	BUDGET VARIANCE (UNFAVORABLE)	% BUDGET VARIANCE
OPERATIONS & MAINTENANCE REVENUES	\$ 43,486,319	\$ 47,065,418	\$ (3,579,099)	-7.6%
FIXED COST REVENUES	7,143,969	7,143,969	-	0.0%
SUBSEQUENT CUSTOMER DIFFERENTIALS	768,990	745,556	23,434	3.1%
SALES TAXES	34,384,906	32,113,126	2,271,780	7.1%
INVESTMENT INCOME	2,856,461	3,600,000	(743,539)	-20.7%
OTHER INCOME	6,393	6,300	93	1.5%
<b>TOTAL REVENUE</b>	<b>\$ 88,647,038</b>	<b>\$ 90,674,369</b>	<b>\$ (2,027,331)</b>	<b>-2.2%</b>
<u>EXPENSES</u>				
DIRECT WATER DISTRIBUTION COSTS	\$ 45,018,872	\$ 49,479,642	\$ 4,460,770	-9.0%
BOND INTEREST	9,262,718	9,262,719	1	0.0%
DEPRECIATION	6,668,013	6,969,232	301,219	-4.3%
PERSONAL SERVICES	5,355,811	5,604,604	248,793	-4.4%
INSURANCE	946,298	2,095,778	1,149,480	-54.8%
PROFESSIONAL & CONTRACTUAL SERVICES	1,023,829	1,384,835	361,006	-26.1%
ADMINISTRATIVE COSTS	156,004	172,491	16,487	-9.6%
LAND AND RIGHT OF WAY	3,034	4,995	1,961	-39.3%
<b>TOTAL OPERATING EXPENSES</b>	<b>68,434,579</b>	<b>74,974,296</b>	<b>6,539,717</b>	<b>-8.7%</b>
<b>NET OPERATING INCOME</b>	<b>\$ 20,212,459</b>	<b>\$ 15,700,073</b>	<b>\$ 4,512,386</b>	<b>28.7%</b>
<b>BEGINNING NET ASSETS</b>	<b>\$ 305,852,209</b>			
<b>ENDING NET ASSETS</b>	<b>\$ 326,064,668</b>			

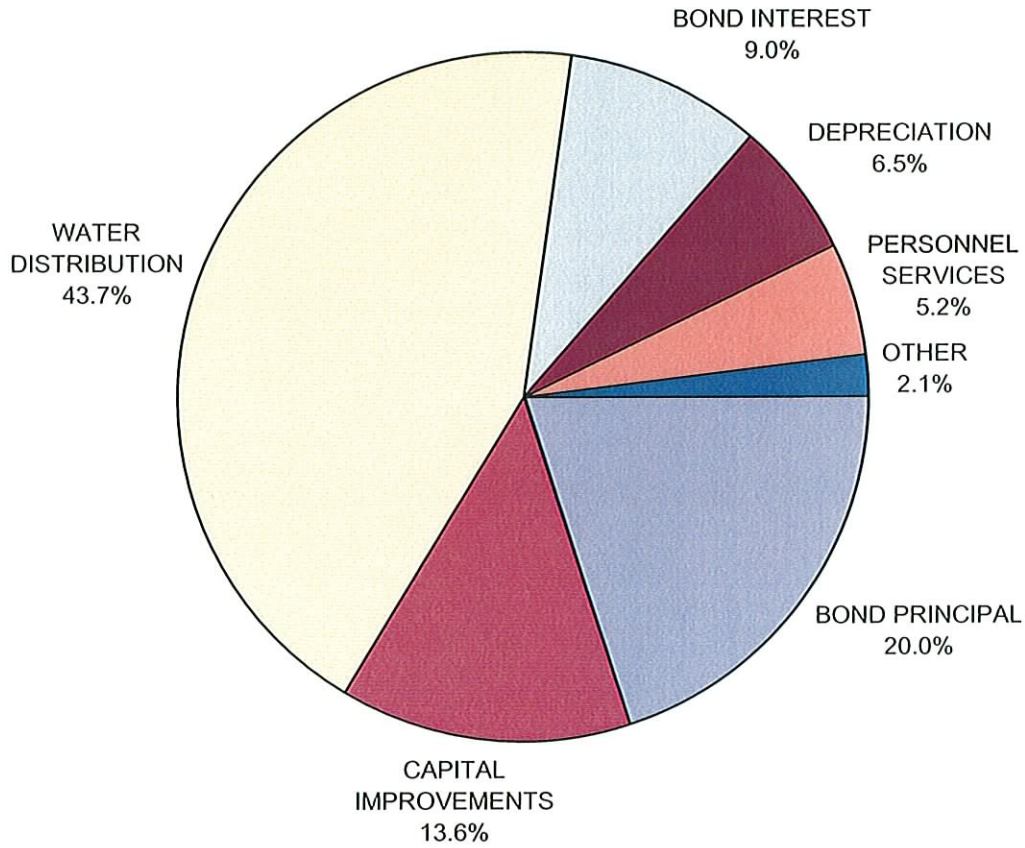
**DUPAGE WATER COMMISSION  
COMPARATIVE USES OF NET INCOME  
For Fiscal Years Ended April 30,**

	2005	2004	INCREASE (DECREASE)	% CHANGE
DESIGNATED FOR EMERGENCY REPAIRS AND CONTINGENCIES	\$ 600,000	\$ (16,400,000)	\$ 17,000,000	-103.7%
DESIGNATED FOR WATER RATE STABILIZATION	(453,416)	(781,807)	328,391	-42.0%
DESIGNATED FOR THE ACQUISITION OF CAPITAL ASSETS	689,483	(35,229,834)	35,919,317	-102.0%
DESIGNATED FOR WHOLESALE CUSTOMER WATER QUALITY LOANS	-	(63,000)	63,000	-100.0%
DESIGNATED TO FUND ILLINOIS MUNICIPAL RETIREMENT FUND PRIOR SERVICE PENSION COSTS	(2,605,192)	(1,200,332)	(1,404,860)	117.0%
RESTRICTED FUNDS	(9,388,359)	(10,262,179)	873,820	-8.5%
CAPITAL INVESTMENTS	31,369,943	1,011,680	30,358,263	3000.8%
<b>TOTAL USES</b>	<b>\$ 20,212,459</b>	<b>\$ (62,925,472)</b>	<b>\$ 83,137,931</b>	<b>-132.1%</b>

DUPAGE WATER COMMISSION  
FY 2004-2005 REVENUES  
\$88,647,038



DUPAGE WATER COMMISSION  
FY 2004-2005 EXPENDITURES\*  
\$102,965,880



\* Expenditures include bond principal and capital improvements, which are not considered as expenses on the combining income statement analysis.

## CUSTOMER ADDITIONS

	NEW CUSTOMER CONTRACT DATE	FIRST SERVED
ARGONNE NAT'L LAB	July-95	January-97
IAWC-ARROWHEAD	October-92	April-95
IAWC-COUNTRY CLUB	October-92	April-95
IAWC-DuPAGE/LISLE	January-96	May-96
IAWC-LIBERTY RIDGE EAST	April-01	December-01
IAWC-LIBERTY RIDGE WEST	December-98	December-99
IAWC-LOMBARD HEIGHTS	October-92	May-95
IAWC-VALLEY VIEW	October-92	April-95
OAKBROOK TERRACE	December-97	October-99
WINFIELD	July-95	October-96



**WATER SALES BY CUSTOMER**  
**Fiscal Year Ended April 30, 2005**

	TOTAL O&M COSTS	PERCENTAGE OF TOTAL O & M COSTS	TOTAL FIXED COSTS	PERCENTAGE OF TOTAL FIXED COSTS	TOTAL SUBSEQUENT CUSTOMER FEES	PERCENTAGE OF TOTAL SUBSEQUENT CUSTOMER FEES	TOTAL WATER REVENUE	PERCENTAGE OF TOTAL WATER REVENUE
ADDISON	\$ 1,947,722.92	4.48%	311,984	4.37%	-	0.00%	2,259,707	4.40%
ARGONNE NAT'L LABORATORY	266,202	0.61%	42,237	0.59%	144,237	20.32%	452,675.16	0.88%
BENSENVILLE	1,251,353	2.88%	205,101	2.87%	-	0.00%	1,456,454.08	2.84%
BLOOMINGDALE	1,323,072	3.04%	211,766	2.96%	-	0.00%	1,534,837.43	2.99%
CAROL STREAM	2,005,421	4.61%	328,895	4.60%	-	0.00%	2,334,315.60	4.55%
CLARENDON HILLS	411,065	0.95%	63,730	0.89%	-	0.00%	474,794.54	0.92%
DARIEN	1,106,643	2.54%	173,278	2.43%	-	0.00%	1,279,920.64	2.49%
DOWNERS GROVE	3,114,148	7.16%	506,588	7.09%	-	0.00%	3,620,736.46	7.05%
ELMHURST	2,253,556	5.18%	374,547	5.24%	-	0.00%	2,628,102.71	5.12%
GLEN ELLYN	1,447,247	3.33%	233,259	3.27%	-	0.00%	1,680,506.11	3.27%
GLENDALE HTS	1,347,330	3.10%	224,928	3.15%	-	0.00%	1,572,258.51	3.06%
HINSDALE	1,355,210	3.12%	218,180	3.05%	-	0.00%	1,573,389.85	3.06%
CUCI-ARROWHEAD	84,446	0.19%	14,912	0.21%	42,326	5.96%	141,683.87	0.28%
CUCI-COUNTRY CLUB	49,471	0.11%	8,581	0.12%	32,634	4.60%	90,685.69	0.18%
CUCI-DP/LISLE	251,115	0.58%	45,152	0.63%	100,876	14.21%	397,143.75	0.77%
CUCI-LIBERTY RIDGE EAST	15,566	0.04%	2,915	0.04%	37,901	5.34%	56,381.23	0.11%
CUCI-LIBERTY RIDGE WEST	148,556	0.34%	24,492	0.34%	75,749	10.67%	248,796.56	0.48%
CUCI-LMBRD HGHTS	35,986	0.08%	5,582	0.08%	29,478	4.15%	71,045.75	0.14%
CUCI-VALLEY VIEW	337,336	0.78%	53,400	0.75%	108,744	15.32%	499,479.33	0.97%
ITASCA	782,679	1.80%	122,211	1.71%	-	0.00%	904,890.04	1.76%
LISLE	1,451,636	3.34%	229,094	3.21%	-	0.00%	1,680,729.54	3.27%
LOMBARD	2,195,838	5.05%	360,385	5.04%	-	0.00%	2,556,222.89	4.98%
NAPERVILLE	8,667,569	19.93%	1,415,215	19.81%	-	0.00%	10,082,784.31	19.64%
OAK BROOK	1,938,203	4.46%	359,052	5.03%	-	0.00%	2,297,255.41	4.47%
OAKBROOK TERRACE	70,894	0.16%	11,413	0.16%	35,772	5.04%	118,078.76	0.23%
ROSELLE	1,072,440	2.47%	189,273	2.65%	-	0.00%	1,261,712.82	2.46%
VILLA PARK	996,058	2.29%	165,364	2.31%	-	0.00%	1,161,421.76	2.26%
WESTMONT	1,356,517	3.12%	231,259	3.24%	-	0.00%	1,587,776.03	3.09%
WHEATON	2,732,383	6.28%	451,689	6.32%	-	0.00%	3,184,071.63	6.20%
WILLOWBROOK	588,418	1.35%	93,720	1.31%	-	0.00%	682,137.95	1.33%
WINFIELD	783,215	1.80%	123,794	1.73%	102,201	14.40%	1,009,209.67	1.97%
WOOD DALE	1,631,700	3.75%	269,664	3.77%	-	0.00%	1,901,363.95	3.70%
WOODRIDGE	467,327	1.07%	72,310	1.01%	-	0.00%	539,637.05	1.05%
<b>TOTALS</b>	<b>\$ 43,486,319</b>	<b>100.00%</b>	<b>7,143,968</b>	<b>100.00%</b>	<b>709,918</b>	<b>100.00%</b>	<b>\$ 51,340,206</b>	<b>100.00%</b>

## WATER SALES ACCOUNTABILITY

AVERAGE GALLONS SOLD TO CUSTOMERS PER DAY

83,375,696

MONTH	SALES TO CUSTOMERS (1) (GALLONS)	PURCHASES FROM CHICAGO (GALLONS)	GALLONS BILLED %	BILLINGS TO CUSTOMERS (1)	BILLINGS FROM CHICAGO
May-04	2,600,130,000	2,676,783,908	97.14%	\$ 3,718,186	\$ 3,370,071
Jun-04	2,721,721,000	2,789,008,356	97.59%	3,892,372	3,511,362
Jul-04	3,133,397,000	3,223,301,033	97.21%	4,480,758	4,058,136
Aug-04	3,007,144,000	3,085,674,758	97.45%	4,301,191	3,884,865
Sep-04	3,009,009,000	3,091,578,157	97.33%	4,302,883	3,892,297
Oct-04	2,514,175,000	2,570,762,145	97.80%	3,615,488	3,236,590
Nov-04	2,184,341,000	2,240,388,753	97.50%	3,123,608	2,820,649
Dec-04	2,303,926,000	2,355,411,517	97.81%	3,294,614	2,965,463
Jan-05	2,343,046,000	2,403,180,116	97.50%	3,350,556	3,119,328
Feb-05	2,062,639,000	2,109,867,797	97.76%	2,949,574	2,738,608
Mar-05	2,262,071,000	2,317,877,242	97.59%	3,234,762	3,008,605
Apr-05	2,290,530,000	2,351,076,764	97.42%	3,275,458	3,051,698
<b>TOTALS</b>	<b>30,432,129,000</b>	<b>31,214,910,546</b>	<b>97.49%</b>	<b>\$ 43,539,448</b>	<b>\$ 39,657,670</b>

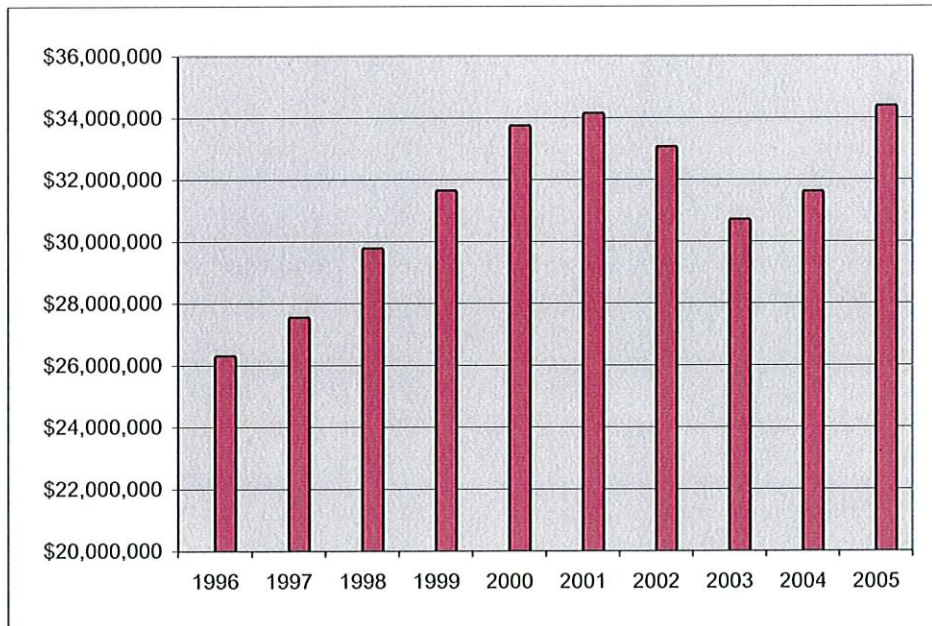
(1) Includes emergency contract customer Village of Schaumburg. Does not include meter adjustments billings.

**DuPAGE WATER COMMISSION  
CUSTOMER REBATES**

<u>FISCAL YEAR</u>	<u>REBATE AMOUNT</u>
1994	\$13,596,336
1995	21,377,267
1996	13,557,917
1997	10,168,438
1998	7,626,329
TOTAL	<u>\$66,326,287</u>

**DUPAGE WATER COMMISSION  
SALES TAX REVENUE  
LAST TEN FISCAL YEARS**

FISCAL YEAR	AMOUNT
1996	\$ 26,307,748
1997	27,546,843
1998	29,782,379
1999	31,645,779
2000	33,751,634
2001	34,147,121
2002	33,062,484
2003	30,704,457
2004	31,620,982
2005	34,384,906

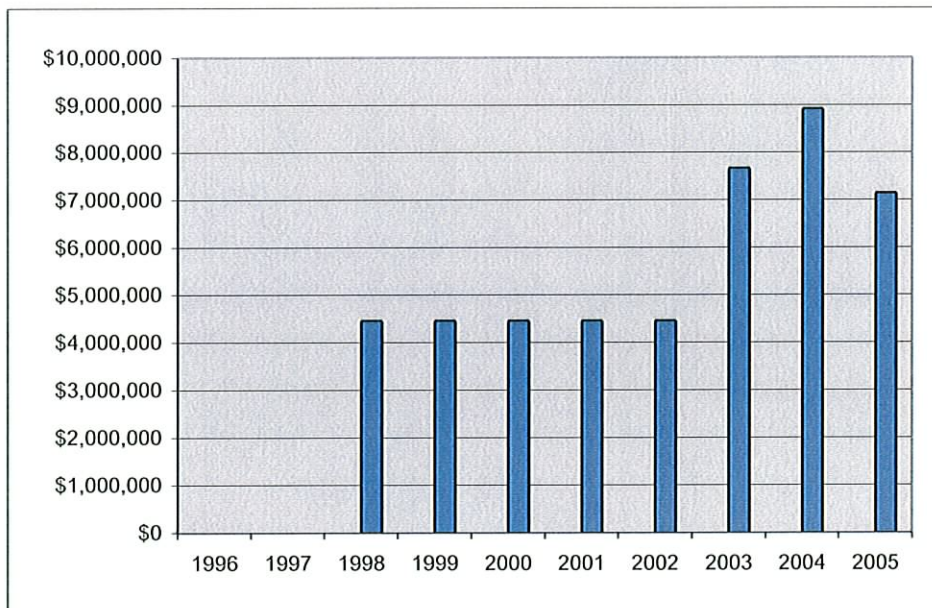


**DuPAGE WATER COMMISSION  
GENERAL OBLIGATION BOND  
PROPERTY TAX ABATEMENTS  
Last Ten Levy Years**

LEVY YEAR	AMOUNT
1995	\$ 14,257,705
1996	14,252,850
1997	14,258,600
1998	14,256,415
1999	14,256,943
2000	14,255,693
2001	13,122,650
2002	13,112,650
2003	13,122,150
2004	13,124,150

**DUPAGE WATER COMMISSION  
REVENUE BONDS PAID BY SALES TAX FUNDS  
Last Ten Fiscal Years**

FISCAL YEAR	AMOUNT
1996	\$0
1997	0
1998	4,458,183
1999	4,458,858
2000	4,457,582
2001	4,458,172
2002	4,458,852
2003	7,668,150
2004	8,916,329
2005	7,144,469



**DUPAGE WATER COMMISSION**  
**EQUALIZED ASSESSED PROPERTY VALUATION**  
**WITHIN DUPAGE COUNTY ONLY**  
 Last Ten Fiscal Years

LEVY YEAR	COLLECTION YEAR	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	FARM	RAILROAD PROPERTY	TOTAL EQUALIZED ASSESSED VALUATION
1995							
1996	1996	\$ 12,101,821,233	\$ 3,426,781,140	\$ 1,312,478,895	\$ 4,948,327	\$ 6,338,329	\$ 16,852,367,924
1997	1997	12,711,249,532	3,578,516,349	1,377,726,716	3,847,361	7,687,916	17,679,027,874
1998	1998	13,310,018,948	3,718,368,112	1,440,152,291	3,786,077	8,192,572	18,480,518,000
1999	1999	13,817,522,384	3,941,972,806	1,524,499,538	3,653,065	9,081,750	19,296,729,543
2000	2000	14,443,828,356	4,182,356,885	1,636,212,570	3,364,221	10,100,806	20,275,862,838
2001	2001	15,148,944,040	4,474,070,124	1,725,892,667	3,059,154	10,283,397	21,362,249,382
2002	2002	16,287,936,204	4,706,568,197	1,939,135,604	2,761,597	10,783,566	22,947,185,168
2003	2003	17,861,614,734	5,073,598,476	2,096,061,645	2,637,103	11,689,521	25,045,601,479
2004	2004	19,772,461,244	5,111,733,784	2,110,768,835	2,228,102	10,291,853	27,007,483,818
2004	2005	21,473,516,492	5,401,426,072	2,255,578,223	2,159,513	10,439,685	29,143,119,985

SOURCE: DuPage County Comprehensive Annual Financial Report for the fiscal year ended November 30, 2004



**DUPAGE COUNTY, ILLINOIS  
PROPERTY TAX LEVIES AND COLLECTIONS  
Last Ten Levy Years**

Levy Year	Levies (1)	Collections (2)(4)	Percent
1995	\$69,853,795	\$68,835,282	98.54%
1996	61,643,533	60,805,119	98.64%
1997	60,305,028	59,902,749	99.33%
1998	60,201,488	59,816,218	99.36%
1999	60,089,130	59,895,854	99.68%
2000	59,999,404	59,821,035	99.70%
2001	59,904,729	59,768,922	99.77%
2002	59,890,523	59,724,648	99.72%
2003	60,035,691	59,868,006	99.72%
2004	59,925,342	(3)	N/A

(1) Property taxes levied in a given year become liabilities and are actually collected in the subsequent year. Levies do not include Special Service Areas.

(2) Tax collection amounts are obtained from the Collector's Annual report.

(3) Tax collections for the 2004 levy will not be made until 2005.

(4) Tax collections are shown net of Court ordered abatements.

Source: DuPage County Comprehensive Annual Financial Report for the fiscal year ended November 30, 2004.

**DUPAGE COUNTY, ILLINOIS  
VALUATION AND SELECTED DEBT RATIOS  
November 30, 2004**

Assessed Value of All Taxable Property in 2004	\$ 32,392,076,686
Estimated 2004 Full Value	\$ 97,176,230,058
2004 Population (1)	935,451

	Direct Only	Direct and Underlying
Ratio of Bonded Debt to Assessed Value	0.630%	7.866%
Ratio of Bonded Debt to Estimated Full Value	0.210%	2.622%
Per Capita Bonded Debt	\$ 218.24	\$ 2,723.88

(1) Estimated by the DuPage County Development Department.

Source: DuPage County Comprehensive Annual Financial Report for the fiscal year ended November 30, 2004.

**DUPAGE COUNTY, ILLINOIS  
PRINCIPAL TAXPAYERS  
November 30, 2004**

Taxpayer	Type of Business	2004 Assessed Valuation (1)	Percentage of Total Assessed Valuation
Hamilton Partners, Inc.	Commercial Development	\$ 150,772,000	0.47%
Katten Muchin & Zavis	Shopping Center Property	90,450,000	0.28%
Lucent Industries	Communications Research and Development	82,304,000	0.25%
Trammel Crow Co.	Commercial Development	72,236,000	0.22%
Dugan/Office LLC	Commercial Property	57,973,000	0.18%
Centerpoint Properties	Industrial Property Development	54,284,000	0.17%
Yorktown Joint Venture	Commercial Property	49,077,000	0.15%
Commonwealth Edison	Utility	47,183,000	0.15%
CNC	Commercial Property	44,626,000	0.14%
McDonald's Corporation	Food Service	42,541,000	0.13%
Crane & Norcross	Commercial Property	39,419,000	0.12%
AML	Commercial Property	39,272,000	0.12%
Total		<u>\$ 770,137,000</u>	<u>2.38%</u>

(1) The assessed valuation is an approximation based on the records maintained by the County. Since most large taxpayers have numerous parcels of real property, it is possible to miss some valuations as well as some of the largest

Source: DuPage County Comprehensive Annual Financial Report for the fiscal year ended November 30, 2004.

**DUPAGE COUNTY, ILLINOIS**  
**PROPERTY TAX RATES PER \$100 ASSESSED AS EXTENDED**  
**ALL DIRECT AND OVERLAPPING GOVERNMENTS**  
 Last Ten Fiscal Years

	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995
DuPage County	\$ 0.1850	\$ 0.1999	\$ 0.2154	\$ 0.2353	\$ 0.2536	\$ 0.2682	\$ 0.2831	\$ 0.2970	\$ 0.3183	\$ 0.3798
Cities & Villages	0.1358	0.5862	0.6046	0.6081	0.6081	0.6152	0.6194	0.6182	0.6318	0.6172
High School Districts	0.9662	1.0086	1.0537	1.0933	1.1137	1.1320	1.1490	1.1443	1.1384	1.1576
Unit School Districts	1.6305	1.6758	1.6688	1.7113	1.6610	1.6070	1.6292	1.6575	1.6526	1.6572
Grade School Districts	1.4977	1.5017	1.4996	1.5212	1.5304	1.5386	1.5481	1.5561	1.5240	1.5057
Junior Colleges	0.2055	0.2154	0.2229	0.1996	0.2028	0.2065	0.2097	0.2112	0.2126	0.2134
Townships	0.1017	0.1068	0.1088	0.1188	0.1224	0.1233	0.1268	0.1311	0.1384	0.1437
Sanitary Districts	0.0025	0.0027	0.0028	0.0029	0.0030	0.0030	0.0030	0.0031	0.0031	0.0031
Park Districts	0.2982	0.3057	0.2962	0.3073	0.3163	0.3154	0.3248	0.3238	0.3219	0.3261
Library Districts	0.5830	0.0583	0.0613	0.0636	0.0640	0.0632	0.0605	0.0613	0.0618	0.0631
Forest Preserve District	0.1358	0.1419	0.1534	0.1654	0.1742	0.1797	0.1849	0.1871	0.1648	0.1692
Fire Protection Districts	0.2288	0.2363	0.2429	0.2416	0.2429	0.2501	0.2510	0.2544	0.2507	0.2551
DuPage Water Commission	-	-	-	-	-	-	-	-	-	-
Special Service Areas	0.0140	0.0150	0.0200	0.0211	0.0236	0.0231	0.0222	0.0220	0.0225	0.0219
Other Special Districts	0.0239	0.0254	0.0267	0.0290	0.0311	0.0326	0.0343	0.0345	0.0361	0.0660
<b>Total</b>	<b>\$ 6.0086</b>	<b>\$ 6.0797</b>	<b>\$ 6.1771</b>	<b>\$ 6.3185</b>	<b>\$ 6.3471</b>	<b>\$ 6.3579</b>	<b>\$ 6.4460</b>	<b>\$ 6.5016</b>	<b>\$ 6.4770</b>	<b>\$ 6.5791</b>

SOURCE: DuPage County Comprehensive Annual Financial Report for the fiscal year ended November 30, 2004

**DUPAGE COUNTY, ILLINOIS  
PROPERTY TAX LEVIES AND COLLECTIONS  
Last Ten Levy Years**

Levy Year	Levies (1)	Collections (2)(4)	Percent
1995	\$69,853,795	\$68,835,282	98.54%
1996	61,643,533	60,805,119	98.64%
1997	60,305,028	59,902,749	99.33%
1998	60,201,488	59,816,218	99.36%
1999	60,089,130	59,895,854	99.68%
2000	59,999,404	59,821,035	99.70%
2001	59,904,729	59,768,922	99.77%
2002	59,890,523	59,724,648	99.72%
2003	60,035,691	59,868,006	99.72%
2004	59,925,342	(3)	N/A

(1) Property taxes levied in a given year become liabilities and are actually collected in the subsequent year. Levies do not include Special Service Areas.

(2) Tax collection amounts are obtained from the Collector's Annual report.

(3) Tax collections for the 2004 levy will not be made until 2005.

(4) Tax collections are shown net of Court ordered abatements.

Source: DuPage County Comprehensive Annual Financial Report for the fiscal year ended November 30, 2004.