

DuPage Water Commission

600 E. Butterfield Road, Elmhurst, IL 60126-4642

(630)834-0100 Fax: (630)834-0120

NOTICE IS HEREBY GIVEN THAT THE RESCHEDULED NOVEMBER/DECEMBER 2005 ENGINEERING COMMITTEE MEETING OF THE DUPAGE WATER COMMISSION WILL BE HELD AT 7:00 P.M. ON TUESDAY, NOVEMBER 29, 2005, AT ITS OFFICES LISTED BELOW. THE AGENDA FOR THE RESCHEDULED NOVEMBER/DECEMBER 2005 REGULAR COMMITTEE MEETING IS AS FOLLOWS:

AGENDA
ENGINEERING COMMITTEE
TUESDAY, NOVEMBER 29, 2005
7:00P.M.

600 EAST BUTTERFIELD ROAD
ELMHURST, IL 60126

COMMITTEE MEMBERS

G. Wilcox, Chair
R. Benson
W. Mueller
R. Ferraro

- I. Roll Call
- II. Approval of Minutes for Committee Meeting of August 11, 2005

RECOMMENDED MOTION: To approve the Minutes of the August 11, 2005 Engineering Committee meeting.

- III. Report of Status of Construction/Operations
- IV. Partial Pay Requests

- A. QR6-014A (Quick Response Contract): Cathodic Test Station Installation
\$123,973.75
- B. QR6-018A (Quick Response Contract): Repair Pavement & Adjust Valve Vault Frame & Lid **\$12,726.83**

RECOMMENDED MOTION: To recommend to the Commission approval of progress payments in the total amount of \$136,700.58 as part of the Accounts Payable, subject to submission of all contractually required documentation.

- V. Resolution No. R-64-05: A Resolution Approving a First Amendment to Task Order No. 5 Under the Master Contract with Consoer Townsend Envirodyne Engineers, Inc.
- VI. Adjournment

Board Agendas/Engineering/Eng0511.doc

All visitors must present a valid drivers license or other government-issued photo identification. sign in at the reception area and wear a visitor badge while at the DuPage Pumping Station

**MINUTES OF A MEETING OF THE
ENGINEERING & CONSTRUCTION COMMITTEE
OF THE DuPAGE WATER COMMISSION
HELD ON AUGUST 11, 2005
600 EAST BUTTERFIELD ROAD
ELMHURST, ILLINOIS**

The meeting was called to order at 7:06 P.M.

Committee members in attendance: R. Benson, W. Mueller, G. Wilcox and M. Vondra Ex Officio.

Committee members absent: R. Ferraro

Also in attendance: T. McGhee, C. Bostick, John Schori, and F. Frelka

Commissioner Mueller moved to approve the Minutes of the July 14, 2005 Engineering Committee. Motion seconded by Commissioner Benson and passed unanimously as follows:

Aye: R. Benson, W. Mueller, and G. Wilcox
Nay: None
Absent: R. Ferraro

Commissioner Benson requested that the monthly water level in USGS of Lake Michigan be included in the Status of Operations Report.

Commissioner Benson moved to recommend to the Commission approval of Resolution No. R-47-05: A Resolution Approving and Ratifying Certain Work Authorizations Orders Under Quick Response Contract QR-6/02 at the August 11, 2005, DuPage Water Commission Meeting during the Super/Special Omnibus Vote Agenda. Motion seconded by Commissioner Mueller and passed unanimously as follows:

Aye: R. Benson, W. Mueller, and G. Wilcox
Nay: None
Absent: R. Ferraro

Commissioner Mueller moved to recommend to the Commission approval of Resolution No. R-48-05: A Resolution Approving and Ratifying Certain Contract Change Orders at the August 11, 2005, DuPage Water Commission Meeting during the Super/Special Omnibus Vote Agenda. Motion seconded by Commissioner Benson. Commissioner Benson inquired as to why Change Order No. 17, the final balancing change order for Contract BOV-1/02, was for such a large credit. Staff informed the Commissioner that the contractor was able to repair some of the valves with minimum excavation and was able to work through a mild winter. The motion passed unanimously as follows:

Minutes 08/11/05 Engineering Meeting

Aye: R. Benson, W. Mueller, and G. Wilcox
Nay: None
Absent: R. Ferraro

Commissioner Benson moved to recommend to the Commission approval of Resolution No. R-49-05: A Resolution Awarding Quick Response Contract (QR-7/05) during the Super/Special Omnibus Vote Agenda. Motion seconded by Commissioner Mueller and passed unanimously as follows:

Aye: R. Benson, W. Mueller, and G. Wilcox
Nay: None
Absent: R. Ferraro

Commissioner Benson asked if there were any problems with any of the work currently being performed by the Commission. Staff informed him that all work was progressing with no problems.

Mary Dickson, Attorney for the Bensenville Park District, along with other Bensenville Park District representatives attended the meeting to request the Commission's assistance in procuring an alternative source of supply of water for the White Pines Golf Course. The Park District representatives expressed their preference for becoming the first retail customer of the Commission without a Subsequent Customer Contract. The Committee will recommend to the Commission that staff be directed to investigate all options available to the Commission for supplying water to the golf course, including retail sales with or without a Subsequent Customer Contract and wheeling water to the Park District through the Village of Bensenville.

Commissioner Benson moved to adjourn the meeting at 7:28 P.M. Motion seconded by Commissioner Mueller and unanimously approved by voice vote.

All voted aye. Motion carried.

BOARD/MINUTES/ENG0508.doc



DuPage Water Commission

MEMORANDUM

TO: Robert Martin General Manager

FROM: Terry McGhee Operations Supervisor
Ed Kazmierczak Pipeline Supervisor
Chris Bostick Facilities Construction Supervisor
John Schori Instrumentation Supervisor
Frank Frelka GIS Coordinator

DATE: November 18, 2005

SUBJECT: Status of Operations

Operations Overview

The Commission's sales for the month of October were a total of 2.553 billion gallons. This represents an average day demand of 82.4 million gallons per day (MGD), which is higher than the October 2004 average day demand of 80.4 MGD. The maximum day demand was 90.4 MGD on October 2, 2005, which is lower than the October 2004 maximum day demand of 95.9 MGD. The minimum day flow was 75.8 MGD. The Commission recorded a total precipitation for the month of October of 1.28 inches compared to 1.85 inches for October 2004. The level of Lake Michigan for October 2005 is 577.8 (Feet IGLD 1985) compared to 577.9 (Feet IGLD 1985) for October of 2004.

Operations Construction Overview

Contract PSD-6 Reservoir Addition

Division A – Equipment and Material Storage: On hold until determination of size and type of structure (if any) to be added for Pipe Storage.

Division B – Cadwell Avenue Re-alignment: Staff and Consoer Townsend Envirodyne Engineers have received comments back from the City of Elmhurst. Staff is reviewing the agreements relating to the 1999 property annexation and its effects on construction.

Contract PSD-7 DPPS Electrical Generation

The electrical generation project is currently on hold.

Pipe Storage Facility

Staff is currently developing a site use plan, investigating leasing options for commercial storage facilities, and developing preliminary cost estimates for temporary storage facilities.

Pipe Loop Pilot Plant

The initial results of the study are expected in the first quarter of 2006.

Tank # 4 Mixing System

Consoer Townsend Envirodyne is currently preparing the documents required to put the project out for bid.

Back-up Telemetry

A bid opening is scheduled for 1:00 pm on Tuesday December 20, 2005.

GIS

Patrick Engineering is ready to install the engineering drawing viewer application on the Commission's server. The project should be complete by the end of November.

Patrick Engineering submitted a draft conceptual pipeline database design based on an industry standard data model provided by ESRI. The database will include all the pipelines and related features such as valves, tees, metering stations, etc. as separate GIS feature classes linked to each other through topology and relationship classes. The final design will be a hybrid that combines primarily pipeline data model features with water distribution data model features to reflect the unique nature of the Commission.

Work continues on a replacement for the JULIE map book used by operators to determine if the Commission is required to respond to emergency JULIE locate requests after hours. A prototype version was completed in October and a revised version will be ready soon.

Staff is reviewing a proposal to upgrade from the Datastream MP2 work order and asset management system to Datastream 7i. The new version of the asset management package is web based and will allow integration with GIS and other Commission information systems.

Pipeline Construction Overview**CONTRACT TIB-1/03 INNER BELT TRANSMISSION MAIN**

The main is in service and the roadway restoration has been completed. Additional restoration work and other contract related items are on going.

Lost Time Accidents To Date 11/18/05 0 Days

CONTRACT QR-7

Contract QR-7/05 commenced on August 30.

Lost Time Accidents to Date: 11/18/05 0 Days

CONTRACT CP-3 CORROSION IDENTIFICATION AND ASSESSEMENT

All remaining work under this contract is expected to be completed by the end of the year.

Lost Time Accidents to Date: 11/18/05 0 Days

CONTRACT BOV-2/04 90" BLOW OFF VALVE IMPROVEMENTS

A condensed invitation for bids has been sent out to potential bidders and was published in the Dodge Report the week of October 24. Publication in the Chicago Tribune is scheduled for November 21 and 22. A mandatory pre-bid meeting is scheduled for November 29, and the bid opening is scheduled for December 20

CONTRACT TS-6/04 SOUTH TRANSMISSION MAIN—PLAINFIELD ROAD

Project was completed on October 18.

The following are attachments to this memorandum:

1. DuPage Laboratory Bench Sheet for October, 2005
2. Water Sales Analysis 01-May-03 to 30-October-05
3. Chart showing Commission sales versus allocations
4. Chart showing Commission sales versus historical averages

DUPAGE WATER COMMISSION LABORATORY BENCH SHEET
MONTHLY REPORT FOR OCTOBER 2005

LEXINGTON SUPPLY

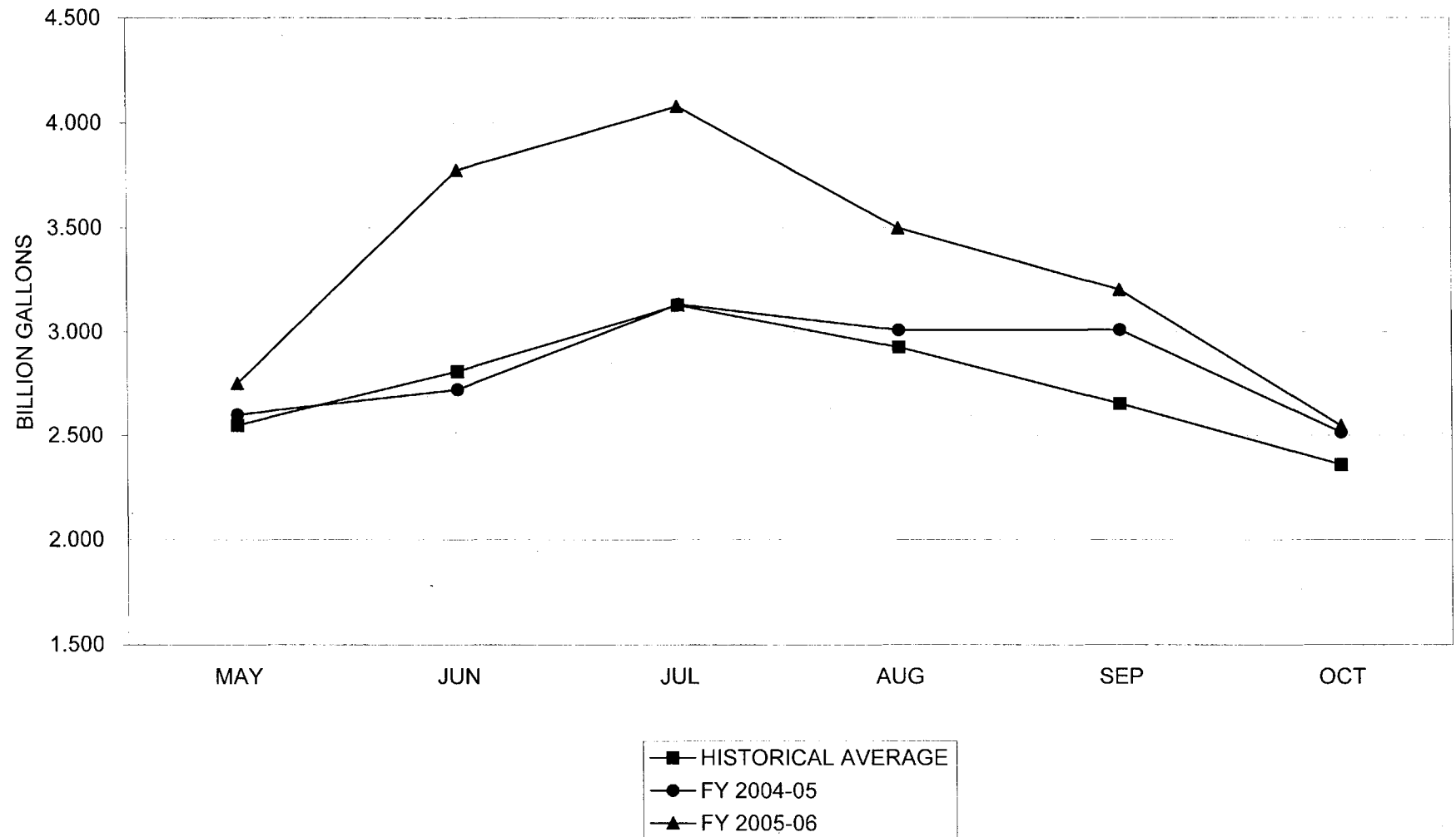
DUPAGE DISCHARGE

DAY	FREE CL ₂ mg/l	TURBIDITY NTU	PO ₄ mg/l	FREE CL ₂ mg/l	TURBIDITY NTU	TEMP °F	pH	Fluoride mg/l	PO ₄ mg/l	P.A.C. LBS/MG	ANALYST INT
1	0.72	0.10	0.48	0.78	0.08	68	7.4	1.1	0.48	0	MB
2	0.74	0.10	0.48	0.78	0.08	68	7.4	1.1	0.48	0	MB
3	0.74	0.11	0.49	0.77	0.08	68	7.3	1.1	0.48	0	MB
4	0.74	0.11	0.47	0.78	0.09	67	7.3	1.0	0.48	0	LS
5	0.75	0.12	0.47	0.77	0.09	67	7.3	1.0	0.48	0	LS
6	0.74	0.09	0.50	0.79	0.08	66	7.3	1.0	0.49	0	LS
7	0.73	0.10	0.51	0.77	0.08	66	7.3	1.0	0.49	0	LS
8	0.72	0.10	0.51	0.76	0.10	66	7.3	1.0	0.48	0	MB
9	0.75	0.10	0.50	0.77	0.10	66	7.3	1.0	0.49	0	MB
10	0.74	0.11	0.48	0.78	0.09	66	7.3	1.1	0.50	0	MB
11	0.71	0.12	0.51	0.78	0.09	66	7.3	1.1	0.47	0	MB
12	0.73	0.13	0.51	0.78	0.09	64	7.4	1.1	0.47	0	LS
13	0.76	0.11	0.47	0.77	0.09	63	7.4	1.1	0.47	0	LS
14	0.75	0.10	0.47	0.76	0.10	64	7.4	1.1	0.48	0	AM
15	0.74	0.11	0.47	0.79	0.08	63	7.4	1.1	0.47	0	AM
16	0.74	0.12	0.48	0.79	0.08	64	7.3	1.1	0.47	0	KD
17	0.75	0.09	0.47	0.77	0.09	63	7.3	1.0	0.47	0	KD
18	0.76	0.09	0.50	0.78	0.08	63	7.3	1.0	0.48	0	KD
19	0.78	0.10	0.50	0.78	0.07	63	7.3	1.0	0.47	0	KD
20	0.75	0.10	0.49	0.79	0.10	63	7.3	1.0	0.47	0	JV
21	0.78	0.10	0.48	0.79	0.10	64	7.4	1.0	0.47	0	JV
22	0.77	0.10	0.49	0.77	0.10	64	7.4	1.0	0.48	0	JV
23	0.78	0.11	0.49	0.78	0.10	62	7.4	1.0	0.48	0	JV
24	0.74	0.10	0.47	0.78	0.09	63	7.4	1.1	0.49	0	KD
25	0.74	0.12	0.50	0.79	0.09	63	7.4	1.1	0.49	0	KD
26	0.74	0.11	0.50	0.79	0.09	63	7.4	1.1	0.48	0	KD
27	0.75	0.10	0.51	0.78	0.09	64	7.4	1.1	0.48	0	KD
28	0.75	0.10	0.50	0.77	0.07	64	7.4	1.1	0.47	0	JV
29	0.78	0.10	0.50	0.78	0.08	64	7.4	1.1	0.47	0	JV
30	0.77	0.09	0.47	0.78	0.09	63	7.4	1.1	0.47	0	JV
31	0.76	0.09	0.47	0.79	0.09	63	7.4	1.0	0.48	0	JV
AVG	0.75	0.10	0.49	0.78	0.09	65	7.4	1.1	0.48	0	
MAX	0.78	0.13	0.51	0.79	0.10	68	7.4	1.1	0.50	0	
MIN	0.71	0.09	0.47	0.76	0.07	62	7.3	1.0	0.47	0	

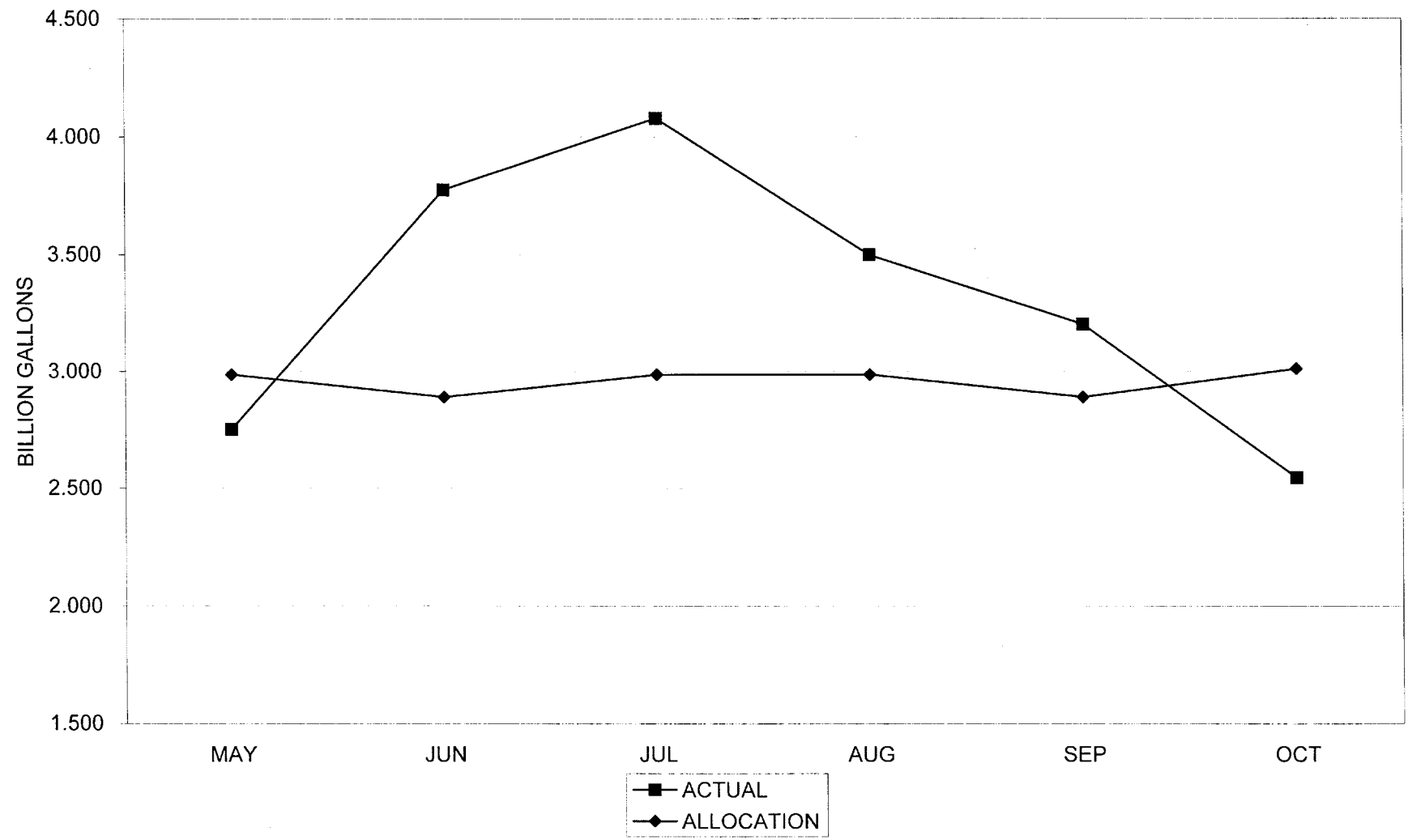
Terrance McGhee
Operations Supervisor

Robert L Martin
General Manager

**DU PAGE WATER COMMISSION SALES
FY 2005-06 & FY 2004-05 VS. HISTORICAL AVERAGE**



**DU PAGE WATER COMMISSION SALES
FY 2005-06 VS. ALLOCATION**



DU PAGE WATER COMMISSION

C.P. STATION INSTALLATION - VARIOUS LOCATIONS (QR6-014A)

ACCT. # 60-6631

ROSSI CONTRACTORS

201 WEST LAKE STREET

NORTHLAKE, IL 60164

LOCATION	AMOUNT
4331 YENDER AVE., Lisle SITE I-9	8,546.44
4331 YENDER AVE., Lisle SITE J-10	8,231.00
SHOULDER OF W.B. WARRENVILLE RD. 135' EAST OF WILBUR AVE., WARRENVILLE	5,277.04
SHOULDER OF W.B. WARRENVILLE RD. 1000' WEST OF WASHINGTON ST., NAPERVILLE	6,923.80
28W004 WARRENVILLE RD. IN CURB LINE, WARRENVILLE	6,483.18
1001 WARRENVILLE RD., WARRENVILLE	12,346.61
VARIOUS LOCATIONS IN WARRENVILLE (SURFACE RESTORATION)	4,127.55
1/2 MILE SOUTH OF WARRENVILLE RD. ON BIKE PATH, WARRENVILLE	8,463.50
VARIOUS LOCATIONS	12,930.60
158 GARY AVE., BLOOMINGDALE	9,092.70
LAMBERT LAKES FOREST PRESERVE, GLENDALE HEIGHTS	8,269.07
SCHICK RD. AT STRATFORD MALL ENTRANCE-DRIVE #1, BLOOMINGDALE	24,975.04
MAPLE AVE. AT ILLINOIS ROUTE 83, HINSDALE	8,307.22
	<hr/> 123,973.75

CONFIRMED
BY: RhM DATE: 11/16/05
ACCT #: 60-6631 AMT: 123,973.75
ACCT #: _____ AMT: _____
APPROVED [Signature]

C.P. STATION INSTALLATION - 4331 YENDER AVE., Lisle Site I-9
ACCT. # 60-6631
ROSSI CONTRACTORS
201 WEST LAKE STREET
NORTHLAKE, IL 60164

[illegible]

C.P. STATION INSTALLATION - 4331 YENDER AVE., LISLE SITE J-10
ACCT. # 60-6631
ROSSI CONTRACTORS
201 WEST LAKE STREET
NORTHLAKE, IL 60164

[illegible]

C.P. STATION INSTALLATION - SHOULDER OF W.B. WARRENVILLE RD, 135' EAST OF WILBUR AVE., WARRENVILLE
ACCT. # 60-6631
ROSSI CONTRACTORS
201 WEST LAKE STREET
NORTHLAKE, IL 60164

[illegible]

C.P. STATION INSTALLATION - 28W004 WARRENVILLE RD. IN W.B. CURB LINE, WARRENVILLE
ACCT. # 60-6631
ROSSI CONTRACTORS
201 WEST LAKE STREET
NORTHLAKE, IL 60164

[illegible]

C.P. STATION INSTALLATION - 1001 WARRENVILLE RD., WARRENVILLE
ACCT. # 60-6631
ROSSI CONTRACTORS
201 WEST LAKE STREET
NORTHLAKE, IL 60164

[illegible]

DU PAGE WATER COMMISSION

C.P. STATION INSTALLATION - SURFACE RESTORATION VARIOUS LOCATIONS IN WARRENVILLE

ACCT. # 60-6631

ROSSI CONTRACTORS

201 WEST LAKE STREET

NORTHLAKE, IL 60164

	FRI 07/01/05	HOURS UNITS	RATE	EXTENTION	FEE	AMOUNT
<u>LABOR</u>						
LABOR FOREMAN - (J. HANSEN)	8.00	8.00	42.46	339.68		
LABOR FOREMAN - OT (J. HANSEN)	0.50	0.50	58.04	29.02		
OPERATOR CLASS 1 - (N. SENESE)	8.00	8.00	51.98	415.84		
OPERATOR CLASS 1 - OT (N. SENESE)	0.50	0.50	70.86	35.43		
LABOR BOTTOM - (I. ZEPEDA)	8.00	8.00	41.81	334.48		
LABOR BOTTOM - OT (I. ZEPEDA)	1.00	1.00	57.06	57.06		
LABOR BOTTOM - (J. SERNA)	8.00	8.00	41.81	334.48		
LABOR BOTTOM - OT (J. SERNA)	0.50	0.50	57.06	28.53		
TRUCK DRIVER - (C. MORAVEC)	8.00	8.00	37.90	303.20		
TRUCK DRIVER - OT (C. MORAVEC)	1.00	1.00	52.48	52.48		
				<u>1,930.20</u>	40.00%	2,702.28
<u>MATERIAL</u>						
K-FIVE CONSTRUCTION COMPANY - INVOICE # 62022MB	231.66			231.66		
DU PAGE MATERIALS COMPANY - INVOICE # 49406MB	241.65			241.65		
				<u>473.31</u>	10.00%	520.64
<u>EQUIPMENT</u>						
SEMI DUMP TRACTOR	8.50	8.50	51.69	439.37		
SEMI DUMP TRAILER	8.50	8.50	16.58	140.93		
F-250 PICK-UP TRUCK	8.50	8.50	9.41	79.99		
F-600 STEPVAN	8.50	8.50	19.07	162.10		
				<u>822.39</u>	10.00%	904.63
						<u>4,127.55</u>

C.P. STATION INSTALLATION - 1/2 MILE S. OF WARRENVILLE RD. ON BIKE PATH, 1/4 MILE W. OF WINFIELD RD, WARRENVILLE
ACCT. # 60-6631
ROSSI CONTRACTORS
201 WEST LAKE STREET
NORTHLAKE, IL 60164

	TUE 07/05/05	WED 07/06/05	HOURS UNITS	RATE	EXTENTION	FEE	AMOUNT
LABOR							
LABOR FOREMAN - (J. HANSEN)	8.00	8.00	16.00	42.46	679.36		
LABOR FOREMAN - OT (J. HANSEN)	1.00	0.50	1.50	58.04	87.06		
OPERATOR CLASS 1 - (N. SENESE)	8.00	8.00	16.00	51.98	831.68		
OPERATOR CLASS 1 - OT (N. SENESE)	0.50	0.50	1.00	70.86	70.86		
LABOR BOTTOM - (I. ZEPEDA)	8.00	8.00	16.00	41.81	668.96		
LABOR BOTTOM - OT (I. ZEPEDA)	1.00	0.50	1.50	57.06	85.59		
LABOR BOTTOM - (J. SERNA)	8.00	8.00	16.00	41.81	668.96		
LABOR BOTTOM - OT (J. SERNA)	1.00		1.00	57.06	57.06		
TRUCK DRIVER - (C. MORAVEC)	8.00	8.00	16.00	37.90	606.40		
TRUCK DRIVER - OT (C. MORAVEC)	1.00	0.50	1.50	52.48	78.72		
					3,834.65	40.00%	5,368.51
MATERIAL							
R & R MATERIALS - INVOICE # 42184		32.00			32.00		
					32.00	10.00%	35.20
EQUIPMENT							
446 B COMBINATION	8.50	8.50	17.00	48.14	818.38		
SEMI DUMP TRACTOR	8.00	8.50	16.50	51.69	852.89		
SEMI DUMP TRAILER		8.50	8.50	16.58	140.93		
F-250 PICK-UP TRUCK	9.00	8.50	17.50	9.41	164.68		
50 T LOWBOY TRAILER	8.00		8.00	15.85	126.80		
F-600 STEPVAN	9.00	8.50	17.50	19.07	333.73		
PAVEMENT SAW	9.00		9.00	19.58	176.22		
TRENCH BOX (8'X8'X4")	1.00	1.00	2.00	84.00	168.00		
					2,781.63	10.00%	3,059.79
							<u>8,463.50</u>

C.P. STATION INSTALLATION - RESTORATION AT VARIOUS LOCATIONS
ACCT. # 60-6631
ROSSI CONTRACTORS
201 WEST LAKE STREET
NORTHLAKE, IL 60164

[illegible]

C.P. STATION INSTALLATION - 158 GARY AVE., BLOOMINGDALE
ACCT. # 60-6631
ROSSI CONTRACTORS
201 WEST LAKE STREET
NORTHLAKE, IL 60164

[illegible]

C.P. STATION INSTALLATION - LAMBERT LAKES FOREST PRESERVE, GLENDALE HEIGHTS
ACCT. # 60-6631
ROSSI CONTRACTORS
201 WEST LAKE STREET
NORTHLAKE, IL 60164

[illegible]

C.P. STATION INSTALLATION - SCHICK RD. AT STRATFORD MALL ENTRANCE DRIVE # 1, BLOOMINGDALE
ACCT. # 60-6631
ROSSI CONTRACTORS
201 WEST LAKE STREET
NORTHLAKE, IL 60164

[illegible]

C.P. STATION INSTALLATION - MAPLE AVE. AT ILLINOIS ROUTE 83, HINSDALE
ACCT. # 60-6631
ROSSI CONTRACTORS
201 WEST LAKE STREET
NORTHLAKE, IL 60164

[illegible]

DU PAGE WATER COMMISSION

REPAIR PAVEMENT & ADJUST VALVE VAULT FRAME & LID (QR6-018A)

ACCT. # 60-6631

ROSSI CONTRACTORS

201 WEST LAKE STREET

NORTHLAKE, IL 60164

	WED 08/03/05	THU 08/04/05	FRI 08/05/05	HOURS UNITS	RATE	EXTENTION	FEE	AMOUNT
LABOR								
LABOR FOREMAN - (J. HANSEN)	8.00	8.00	8.00	24.00	42.46	1,019.04		
LABOR FOREMAN - OT (J. HANSEN)	0.50	0.50		1.00	58.04	58.04		
OPERATOR CLASS 1 - (N. SENESE)	8.00	8.00	8.00	24.00	51.98	1,247.52		
OPERATOR CLASS 1 - OT (N. SENESE)	0.50	0.50		1.00	70.86	70.86		
LABOR BOTTOM - (I. ZEPEDA)	8.00	8.00	8.00	24.00	41.81	1,003.44		
LABOR BOTTOM - OT (I. ZEPEDA)	1.00	0.50		1.50	57.06	85.59		
LABOR BOTTOM - (J. SERNA)	8.00	8.00	8.00	24.00	41.81	1,003.44		
LABOR BOTTOM - OT (J. SERNA)	0.50			0.50	57.06	28.53		
TRUCK DRIVER - (C. MORAVEC)	8.00	8.00	8.00	24.00	37.90	909.60		
TRUCK DRIVER - OT (C. MORAVEC)	1.00	0.50		1.50	52.48	78.72		
						<u>5,504.78</u>	40.00%	7,706.69
MATERIAL								
NAFISCO, INC. - INVOICE # 71789	218.35					218.35		
R & R MATERIALS - INVOICE # 42211		82.02				82.02		
ELMHURST-CHICAGO STONE COMPANY - INVOICE # 300982		526.15				526.15		
DU PAGE MATERIALS COMPANY - INVOICE # 49980MB			189.54			189.54		
						<u>1,016.06</u>	10.00%	1,117.67
EQUIPMENT								
446 COMBINATION LOADER	8.50	8.50	8.00	25.00	48.14	1,203.50		
SEMI DUMP TRACTOR	9.00	8.50		17.50	51.69	904.58		
SEMI DUMP TRAILER	5.00	8.50		13.50	16.58	223.83		
50 T LOWBOY TRAILER	4.00			4.00	15.85	63.40		
F-600 STEPVAN	9.00	8.50	8.00	25.50	19.07	486.29		
F-250 PICK-UP TRUCK	8.50	8.50	8.00	25.00	9.41	235.25		
185 CFM AIR COMPRESSOR	8.50			8.50	11.00	93.50		
#90 JACKHAMMER	17.00			17.00	4.79	81.43		
DIESEL PLATE COMPACTOR		8.00		8.00	12.33	98.64		
VIBRATORY ROLLER			8.00	8.00	19.66	157.28		
						<u>3,547.70</u>	10.00%	3,902.47
								<u>12,726.83</u>

CONFIRMED

BY: RH/M DATE: 11/16/05ACCT #: 60-6631 AMT: 12,726.83

ACCT #: _____ AMT: _____

APPROVED: DR



DuPage Water Commission

MEMORANDUM

TO: Chairman Vondra and Commissioners

FROM: Robert L. Martin, P.E.
General Manager

A handwritten signature in black ink, appearing to read 'RLM', is written over the text 'General Manager'.

DATE: November 15, 2005

SUBJECT: Stage 2 DBPR Compliance

Attached is a memorandum prepared by Terry McGhee, Operations Supervisor, regarding the Stage 2 Disinfectants/Disinfection Byproducts Rule.



DuPage Water Commission

MEMORANDUM

TO: Robert Martin
General Manager

FROM: Terry McGhee
Operations Supervisor

DATE: November 15, 2005

SUBJECT: Stage 2 DBPR

The Stage 2 Disinfectants/Disinfection Byproducts Rule (Stage 2 DBPR) has been proposed by the USEPA to address the growing concerns associated with disinfection byproducts (DBPs). The Stage 2 DBPR is still a proposed rule that is expected to be finalized in early 2006. Once the rule is finalized the first step in compliance is the completion of an Initial Distribution System Evaluation (IDSE).

In my discussions with Mary Reed of the IEPA Compliance Assurance Section she informed me that the Stage 2 DBPR is a federal rule, and the IEPA will only be acting in an administrative role in regard to the new regulation. Ms. Reed did confirm that there is a wavier available to utilities whose trihalomeathane/haloacetic acid (THM/HAA) levels are below 40/30 µg/L. The Commission's THM/HAA average levels are 12/8 µg/L, well below the required 40/30 µg/L level. Ms. Reed also stated that we will have to wait until the rule is finalized before we can apply for a waiver from the USEPA.



DuPage County
ROBERT J. SCHILLERSTROM
COUNTY BOARD CHAIRMAN

DUPAGE COUNTY DEPARTMENT OF PUBLIC WORKS

(630) 407-6800

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Memorandum

Date: November 8, 2005

To: Robert Martin/General Manager, DuPage Water Commission
Cc: Ray Benson, Engineering Committee
William Mueller, Engineering Committee
Ross Ferraro, Engineering Committee

From: Gregory W. Wilcox *GW*

Re: WEFTEC Conference

Recently I attended the WEFTEC Conference in Washington, D.C. Several new regulations came to my attention regarding water distribution systems. Attached is a brochure outlining new regulations regarding disinfection byproducts. I have not gotten a copy of the actual regulation and am not clear as to what impact this has on the Water Commission.

I thought you could look into this to see if we need to take any action. Please call me if you have any questions.

Initial Distribution System Evaluation

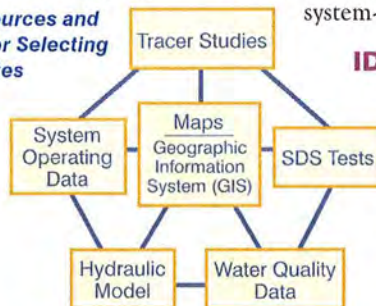
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The First Step in Stage 2 DBPR Compliance

The formation of disinfection byproducts (DBPs) is one of the most important issues faced by water suppliers today. Based on epidemiological evidence and the large number of people exposed to DBPs, the USEPA has proposed the Stage 2 Disinfectants/Disinfection Byproducts Rule (Stage 2 DBPR) as a DBP control measure beyond those already required for public water systems.

Under the Stage 2 DBPR, the USEPA requires utilities to revisit their distribution system sampling sites and include locations with high DBP concentrations in their compliance monitoring programs. This is accomplished by performing an Initial Distribution System Evaluation (IDSE).

Data Sources and Tools for Selecting SMP Sites



Source: EPA's Draft Stage 2 DBPR IDSE Guidance Manual (July 2003)

IDSE Schedule

The schedule for complying with Stage 2 DBPR, and particularly with the IDSE, is unusually rapid as shown in the timeline below. The schedule is subject to change based on the final Stage 2 DBPR which is anticipated in Early 2006.

Applicability of the IDSE and System Classification

Systems that are required to comply with the Stage 2 DBPR and perform an IDSE include all community water systems and non-transient, non-community water systems that add a primary or secondary disinfectant other than UV or distribute water that was treated with a disinfectant other than UV.

Systems that meet certain requirements may not have to perform an IDSE. These systems include those with very low trihalomethane/haloacetic acid (THM/HAA) levels ($< 40/30 \mu\text{g/L}$) and small systems that receive a waiver.

Requirements for IDSE differ by system size; type (surface water vs. ground water systems, consecutive vs. wholesale vs. combined systems, 100 percent purchasing vs. producing systems); the number of treatment plants in producing systems; and other system-specific characteristics.

IDSE Options: SMP or SSS

Water systems will need to conduct a Standard Monitoring Program (SMP) or a System-Specific Study (SSS) in order to comply with the IDSE requirements.

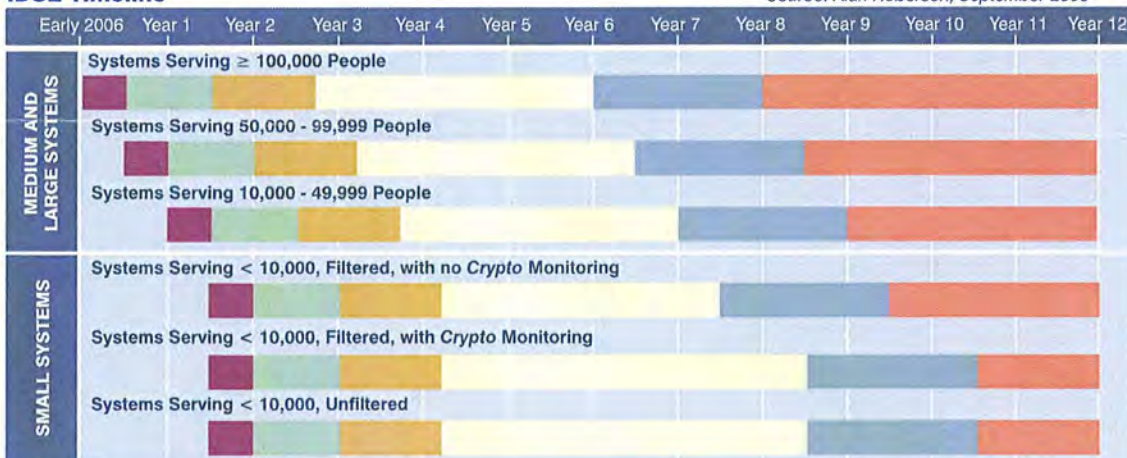
The SMP entails a one-year distribution system monitoring effort to determine the locations that routinely show higher DBP concentrations. The general approach for selecting SMP monitoring sites is to use available data sources and analysis tools to select a large number of potential locations (referred to as preliminary sites). From this group of sites, systems will need to

LEGEND

- IDSE Monitoring Plan
- Review Standard Monitoring Plan
- IDSE and IDSE Report
- Treatment Installation/Modification and Prepare Stage 2 DBPR Monitoring Plan
- Possible Extension
- Comply with Stage 2 DBPR

IDSE Timeline

Source: Alan Roberson, September 2005



Notes:

- Wholesale and consecutive systems that are part of a combined distribution system must comply based on the schedule required of the largest system in the combined system.
- Ground water systems add disinfection before Stage 2 systems install treatment, and therefore follow the same implementation schedule.

consider several distribution system factors such as geographic coverage, storage facilities, and booster chlorination to narrow down preliminary sites to final SMP sites. After conducting one year of routine monitoring at the final SMP sites, the results will facilitate selection of Stage 2 DBPR compliance monitoring sites.

Unlike an SMP, an SSS does not require one year of routine monitoring. An SSS can be done by water systems that:

- ▼ Have sufficient historical THM4 and HAA5 data.
- ▼ Use a well-calibrated water distribution system model for hydraulic conditions and/or water quality, and conduct at least one round of new sampling to confirm model results.

Systems can use alternative options to conduct an SSS (e.g., historical data combined with new data), but will need to evaluate their methodology carefully

and get authorization from their primacy agency. Data from an SSS must be equivalent or superior to data from an SMP.

How Carollo Can Help

The IDSE is probably among the most complex distribution system evaluations faced by water utilities in order to meet drinking water regulations. Utilities need to determine whether or not they need to conduct an IDSE, understand their system classification, and develop their IDSE sampling and monitoring plans. Data analysis, compilation, and interpretation are complex, and extensive IDSE reports and records are required. As a result, utilities may not have the resources and experienced staff necessary to undertake such an extensive evaluation, particularly since this evaluation will be done only once. Carollo has assisted water utilities with numerous related projects and has the necessary staff and knowledge to assist you with your IDSE.

Carollo's Expertise	Will Help Your Utility:
AwwaRF Project 2770 - Formation and Decay of DBPs in the Distribution System <ul style="list-style-type: none"> ▼ Developed a framework to help utilities select distribution system sites with maximum DBP concentrations as required by the IDSE. ▼ Evaluated critical factors that affect THM4 and HAA9 behaviors in distribution systems. ▼ Evaluated changes in DBPs when systems switch residual disinfectant (free chlorine vs. chloramines). ▼ Examined the effect of booster chlorination and reservoirs/tanks on DBP fate. 	<ul style="list-style-type: none"> ▼ Thoroughly understand your IDSE options (SMP vs. SSS) and IDSE waivers. ▼ Systematically classify your water system. ▼ Proficiently develop sampling and monitoring plans and select the most accurate Stage 2 DBPR compliance monitoring sites. ▼ Accurately select compliance monitoring sites with maximum DBP concentrations. ▼ Efficiently design and conduct SMP and SSS programs. ▼ Effectively fulfill IDSE reporting and record keeping requirements.
City of Santa Barbara, California - Evaluation of Disinfection Strategies for a Water Treatment Plant <ul style="list-style-type: none"> ▼ Developed improvements in operational and capital strategies within the distribution system tailored toward reducing water age which affects DBPs. ▼ Evaluated the possibility of converting from free chlorine to chloramines. 	<ul style="list-style-type: none"> ▼ Accurately identify compliance monitoring sites based on water age. ▼ Use the most advanced tools/techniques to analyze, compile, and interpret DBP and other distribution system water quality data.
Hydraulic Modeling of 150 Distribution Systems <ul style="list-style-type: none"> ▼ Used a variety of modeling software to assist utilities serving populations from less than 5,000 to over 1 million throughout the U.S. 	<ul style="list-style-type: none"> ▼ Design and conduct the most practical SMP. ▼ Effectively design and conduct an SSS using hydraulic modeling and one round of sampling.
Distribution System Monitoring Programs <ul style="list-style-type: none"> ▼ Supported clients in designing distribution system monitoring programs to meet regulatory requirements and water quality goals, including the Total Coliform Rule, the Lead and Copper Rule, and nitrification monitoring programs. 	<ul style="list-style-type: none"> ▼ Identify Stage 2 DBPR compliance monitoring locations with the most precision. ▼ Efficiently design a distribution system monitoring program. ▼ Thoroughly understand sampling/monitoring protocols. ▼ Select proper analytical techniques and methods.

Additional information on the IDSE can be found in:

USEPA July 2003: *Draft Stage 2 Disinfectant and Disinfection Byproduct Rule – Initial Distribution System Evaluation* [No. TBD]

USEPA November 2003: *The Stage 2 Disinfectant and Disinfection Byproduct Rule (Stage 2 DBPR) Implementation Guidance* [No. EPA 816-D-03-002]