



# DuPage Water Commission

600 E. Butterfield Road, Elmhurst, IL 60126-4642  
(630)834-0100 Fax: (630)834-0120

## AGENDA

**ENGINEERING & CONSTRUCTION COMMITTEE**  
**THURSDAY, APRIL 21, 2016**  
**6:00 P.M.**

**600 EAST BUTTERFIELD ROAD**  
**ELMHURST, IL 60126**

## COMMITTEE MEMBERS

D. Loftus, Chair  
R. Furstenau  
F. Saverino  
M. Scheck  
J. Zay

- I. Roll Call
- II. Approval of Committee Meeting Minutes

**RECOMMENDED MOTION: To approve the Minutes of the March 17, 2016 Engineering & Construction Committee Meeting of the DuPage Water Commission.**

- III. Report of Status of Construction/Operations
- IV. **R-10-16:** A Resolution Approving and Ratifying Certain Work Authorization Orders Under Quick Response Contract QR-10/13 (**Rossi Contractors, Inc. – \$4,540.00**)
- V. **R-11-16:** A Resolution Approving Certain Work Authorization Orders Under Quick Response Electrical Contract QRE-7/15 (**WAO No. 3 to Windy City Electric in the amount of \$38,800.00 and WAO No. 4 to McWilliams Electric in the amount of \$21,870.00**)
- VI. **R-13-16:** A Resolution Approving and Ratifying Certain Contract Change Orders for Reservoir and Meter Station 19B Concrete and Miscellaneous Metals Rehabilitation for the DuPage Water Commission (**Manusos General Contracting, Inc. – Time Extension-No Cost Component**)
- VII. Old Business
- VIII. Other
- IX. Adjournment

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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 THURSDAY, MARCH 17, 2016  
600 EAST BUTTERFIELD ROAD  
ELMHURST, ILLINOIS**

The meeting was called to order at 6:00 P.M.

Committee members in attendance: D. Loftus, R. Furstenau, and M. Scheck

Committee members absent: F. Saverino and J. Zay

Also in attendance: C. Bostick, E. Kazmierczak, T. McGhee, J. Schori, J. Spatz and M. Weed.

Commissioner Furstenau moved to approve the Minutes of the February 18, 2016 Engineering & Construction Committee Meeting of the DuPage Water Commission. Motion seconded by Commissioner Scheck.

All voted aye: Motion passed

Facilities Construction Supervisor Bostick provided an oral report of the Status of Operations report dated March 10, 2016:

Regarding R-9-16, Facilities Construction Supervisor Bostick advised the Committee the resolution is requesting approval of Quick Response Electric Contract QRE-7/15, Work Authorization Order No. 2, for improvements to the Portable Emergency Generator in the estimated amount of \$7,570.00. Facilities Construction Supervisor Bostick advised the Committee that this work stems from a suggestion in the 2014/2015 Condition Assessment to replace and test power and control cables and also placing the cables within ground level wire ways in order to protect the cables from sunlight, rain and snow and also provide added safety by minimizing employee trip hazards.

Regarding Storage System Improvements, Facilities Construction Supervisor Bostick advised the Committee that the Condition Assessment of the West Reservoir as well as the replacement of the hatches and installation of the vents will take place upon successful repair of a reservoir valve; the valve repairs being scheduled for the end of March.

Also, the preconstruction conference for The Contract for the Rehabilitation of Coating Systems and Fall Protection Systems for Tank Sites No. 1 and No. 4 East (Contract SS-7/16) was held on March 15<sup>th</sup>. The Contractor, Era-Valdivia Contractors, Inc. is working on supplying shop drawings for engineer review. Facilities Construction Supervisor

Bostick advised the Committee that work should commence at the beginning of April with the Contract Completion Date being November 4<sup>th</sup>.

Regarding Instrumentation/Remote Facilities, Facilities Construction Supervisor Bostick advised the Committee the work under Work Authorization Order No. 01 under Contract QRE-7/15 to perform selective demolition and electrical work related to ROV14B is complete.

Also, regarding the annual DWC Customer meter calibration program, The Committee was informed the meter testing is about 70% complete without any meters testing outside of the Customer Contract limits. General Manager Spatz advised the Committee that the majority of DWC Customers attend and witness the testing of the meters removed from the meter stations which serve their communities. General Manager Spatz also advised the Committee that insitu pilot testing of Electromagnetic Flowmeters (magmeters) is currently underway. General Manager Spatz reported that several magmeters have been installed alongside the existing Commission turbine type meters to compare and evaluate the magmeter capabilities.

Regarding the Wireless Data Project, General Manager Spatz advised that the wireless system is operational throughout most of the buildings in the DuPage Pumping Station however connection remains solely to the internet.

Regarding Commission Data Management, Facilities Construction Supervisor Bostick advised the Committee that Staff is looking into reorganizing data back-up procedures and data recovery which may involve the procurement of a software package to manage SharePoint content and configurations.

Regarding Butterfield Road exploratory excavations, Pipeline Supervisor Kazmierczak advised the Committee that the contractor is currently waiting on permits from IDOT before commencing the work.

Commissioner Furstenau inquired about the Monthly Laboratory Bench Sheet where it does not include the analysis of lead content. Commissioner Furstenau stated it was important that this information is listed. General Manager Spatz advised the Committee that the City of Chicago has a comprehensive water quality report and he has directed Staff to source some in-house testing for reference and file. It was decided that Staff would look into the means of advising the general public of the Commission's requirements regarding the Lead and Copper Rule. Manager of Operations McGhee also advised that the current City of Chicago analysis is found on the Commission's internet website as well as the Commission's Consumer Confidence Report.

Commissioner Furstenau inquired about the percentage of accounted for water and the fluctuations noted in the monthly report. General Manager Spatz advised that the percentages have remained fairly constant at about 97% with minor fluctuations either way.

Engineering Committee Minutes 03/17/2016

Chairman Loftus inquired with the Committee if there were any questions regarding the action items. Hearing none, Commissioner Scheck moved to recommend approval of item 2 of the Engineering and Construction Committee portion of the Commission Agenda. Seconded by Commissioner Furstenau.

All voted aye: Motion passed

Chairman Loftus inquired the Committee if any other business or items to be discussed.

Hearing none, Commissioner Scheck moved to adjourn the meeting at 6:24 P.M. Motion seconded by Commissioner Furstenau.

All voted aye: Motion passed

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# DuPage Water Commission

## MEMORANDUM

TO: John Spatz  
General Manager

FROM: Terry McGhee  
Manager of Water Operations

Ed Kazmierczak	Pipeline Supervisor
Chris Bostick	Facilities Construction Supervisor
John Schori	Instrumentation Supervisor
Frank Frelka	GIS Coordinator
Mike Weed	Operations Supervisor

DATE: April 14, 2016

SUBJECT: Status of Operations

### Operations Overview

The Commission's sales for the month of March were a total of 1.955 billion gallons. This represents an average day demand of 63.1 million gallons per day (MGD), which is lower than the March 2015 average day demand of 68.0 MGD. The maximum day demand was 66.9 MGD on March 23, 2016, which is lower than the March 2015 maximum day demand of 77.2 MGD. The minimum day flow was 57.3 MGD.

The Commission's recorded total precipitation for the month of March was 3.34 inches compared to 1.10 inches for March 2015. The level of Lake Michigan for March 2016 is 579.42 (Feet IGLD 1985) compared to 579.01 (Feet IGLD 1985) for March of 2015

### Water Conservation

The Water Conservation and Protection Program will be attending Party for the Planet on April 23<sup>rd</sup> at Cosley Zoo in Wheaton. Party for the Planet is the largest combined Earth Day celebration in North America along with over 100 other AZA-accredited zoos and aquariums.

Ongoing: Staff is working with SCARCE to earn their Earth Flag. The process consists of a green audit, staff training in recycling and conservation, an action that involves the Commission in the community (i.e. a book drive, cleaning a creek, adopting a highway, etc.), and finally presenting the Earth Flag to the Board Members. Staff has completed the green audit and is working with SCARCE to set up a date for staff training.

### Water Operations

The actuator on the 84" West Reservoir Influent Control Valve has been repaired and the valve is now operational.

## **Facilities Construction Overview**

### **Condition Assessment**

With the repair of the 84" West Reservoir Influent Control Valve, the Condition Assessment of the DPPS West Reservoir and Storm Water Detention Tank is now scheduled for May 4<sup>th</sup>.

### **Storage System Improvements**

The Contract for the Rehabilitation of Coating Systems and Fall Protection Systems for Tank Sites No. 1 and No. 4 East (Contract SS-7/16) with Era-Valdivia Contractors, Inc. is underway. Mobilization and steel repairs at Standpipe No. 1 in Roselle commenced on April 4<sup>th</sup>. The Contract Completion Date is November 4<sup>th</sup>.

With the repair of the 84" West Reservoir Influent Control Valve, Manusos General Contracting, Inc. has resumed work on the DPPS West Reservoir hatches and vents. R-13-16 appears on the agenda requesting a time extension of 247 days, the granting of final acceptance and release of final payment upon satisfactory completion of the Work, and after submitting all contractually required documentation.

## **Instrumentation / Remote Facilities Overview**

### **Quick Response Electrical Contract QRE-7/15**

R-11-16 appears on the agenda seeking authorization to perform the following Quick Response Electrical work:

Work Authorization Order No. 3 consists of two parts: Part A is to reroute conduits around a buried valve vault so the frame and lid can be raised to the surface. Part B is to install a new conduit from the AT&T service drop into the facility so future fiber optic cable work can be performed. AT&T has advised Staff that AT&T is converting from a copper to a fiber network in the future and Staff wishes to be ready in advance.

Work Authorization Oder No. 4 is to install new security switches on the new hatches being installed on the West Reservoir. In addition to new switches the work includes installation of a wireless system to monitor the security of all Reservoir hatches.

### **Meter Shop**

The Annual Customer Meter Calibration program is about 98% complete. To date all meters have tested within contractual limits.

## **Wireless Data Project**

As planned, Staff is conducting a wireless survey to measure actual wireless coverage of the system installation. The results of this survey will be used to determine the adequacy of wireless access throughout the facility.

## **SharePoint, SQL Server & Data Management**

Staff has standardized SQL Server backup procedures to ensure data is protected in a uniform manner. Full backups are performed three times per week, differential backups are done four times weekly and transaction logs are backed up hourly. This is in accordance with industry best practice and ensures a data recovery point objective of one hour.

**Office 365**

The Commission is getting ready to migrate to Office 365. This will allow us to eliminate the on-site Exchange server and improve reliability for most email activities. Bridgepoint is the consultant assisting us with this project.

**Pipeline Maintenance and Construction Overview**

Butterfield Road exploratory excavation authorized under R-5-16 is expected to begin the week of April 18<sup>th</sup>. In a related matter, the two 60-inch butterfly valves have been delivered and have been placed in storage.

Resolution R-10-15 appears on the agenda requesting approval of Contract QR-10/13 WAO No. 13 to Rossi Contractors, Inc. The work consists of constructing an excavation spoils storage bin within the DuPage Pumping Station property. The bin will be constructed using pre-cast concrete barrier wall sections and will be used to contain wet spoils generated from vacuum excavation work until such time that the excavated materials dry and are able to be hauled away.

Staff has resumed cathodic protection test station installations along several transmission main routes.

Staff has resumed collecting cathodic protection test point data.

**APRIL 2016 COMMISSION AGENDA ITEMS:**

- R-10-16:** A Resolution Approving and Ratifying Certain Work Authorization Orders under Quick Response Contract QR-10/13 (**Rossi Contractors, Inc. – \$4,540.00**)
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**Attachments**

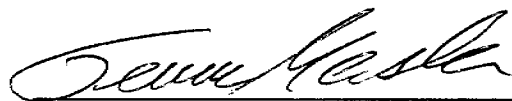
1. DuPage Laboratory Bench Sheets for March, 2016
2. Water Sales Analysis 01-September-2009 to 31- March -2016
3. Chart showing Commission sales versus allocations
4. Chart showing Commission sales versus historical averages

DUPAGE WATER COMMISSION LABORATORY BENCH SHEET  
MONTHLY REPORT FOR MARCH 2016

## LEXINGTON SUPPLY

## DUPAGE DISCHARGE

DAY	FREE CL <sub>2</sub> mg/l	TURBIDITY NTU	PO <sub>4</sub> mg/l	FREE CL <sub>2</sub> mg/l	TURBIDITY NTU	TEMP °F	pH	Fluoride	PO <sub>4</sub> mg/l	P.A.C. LBS/MG	ANALYST INT
1	0.92	0.09	0.57	0.91	0.09	35	7.4	0.8	0.52	0	AM
2	0.90	0.09	0.53	0.91	0.08	35	7.4	0.8	0.58	0	KD
3	0.91	0.09	0.57	0.90	0.09	35	7.4	0.8	0.56	0	KD
4	0.90	0.10	0.54	0.90	0.10	36	7.4	0.7	0.59	0	KD
5	0.93	0.09	0.53	0.91	0.09	36	7.4	0.8	0.56	0	AM
6	0.95	0.10	0.52	0.94	0.09	36	7.4	0.7	0.53	0	AM
7	0.91	0.09	0.54	0.94	0.10	37	7.4	0.7	0.58	0	KD
8	0.92	0.10	0.56	0.93	0.08	37	7.4	0.9	0.55	0	KD
9	0.96	0.09	0.59	0.94	0.08	38	7.4	0.8	0.52	0	AM
10	0.96	0.09	0.57	0.94	0.08	38	7.4	0.7	0.53	0	AM
11	0.94	0.10	0.58	0.95	0.08	38	7.4	0.7	0.55	0	AM
12	0.96	0.09	0.57	0.96	0.08	38	7.4	0.7	0.54	0	KD
13	0.94	0.10	0.55	0.94	0.09	40	7.4	0.9	0.58	0	KD
14	0.97	0.09	0.57	0.95	0.09	40	7.4	0.8	0.51	0	AM
15	0.96	0.09	0.58	0.94	0.09	41	7.4	0.7	0.52	0	AM
16	0.97	0.09	0.57	0.96	0.09	41	7.3	0.7	0.52	0	KD
17	0.96	0.11	0.53	0.97	0.09	43	7.4	0.8	0.54	0	KD
18	0.95	0.10	0.54	0.97	0.08	42	7.4	0.8	0.59	0	KD
19	0.96	0.10	0.54	0.95	0.09	43	7.4	0.8	0.58	0	CT
20	0.98	0.11	0.53	0.97	0.08	42	7.4	0.8	0.56	0	CT
21	0.97	0.10	0.55	0.96	0.09	42	7.4	0.9	0.58	0	RC
22	0.95	0.09	0.57	0.96	0.07	44	7.5	0.8	0.57	0	RC
23	0.94	0.10	0.56	0.94	0.07	44	7.4	0.7	0.58	0	CT
24	0.96	0.09	0.52	0.94	0.07	44	7.5	0.8	0.53	0	CT
25	0.98	0.10	0.52	0.93	0.07	44	7.4	0.8	0.57	0	CT
26	0.93	0.10	0.58	0.94	0.07	45	7.4	0.7	0.57	0	RC
27	0.95	0.09	0.56	0.93	0.08	46	7.4	0.7	0.54	0	RC
28	0.95	0.10	0.58	0.94	0.08	46	7.4	0.7	0.54	0	CT
29	0.94	0.09	0.53	0.93	0.08	45	7.4	0.7	0.52	0	CT
30	0.96	0.10	0.53	0.94	0.07	47	7.5	0.7	0.53	0	RC
31	0.97	0.08	0.59	0.95	0.07	47	7.4	0.8	0.58	0	RC
AVG	0.95	0.10	0.55	0.94	0.08	41	7.4	0.8	0.55	0	
MAX	0.98	0.11	0.59	0.97	0.10	47	7.5	0.9	0.59	0	
MIN	0.90	0.08	0.52	0.90	0.07	35	7.3	0.7	0.51	0	



Terrance McGhee  
Manager of Water Operations



DU PAGE WATER COMMISSION  
WATER SALES ANALYSIS

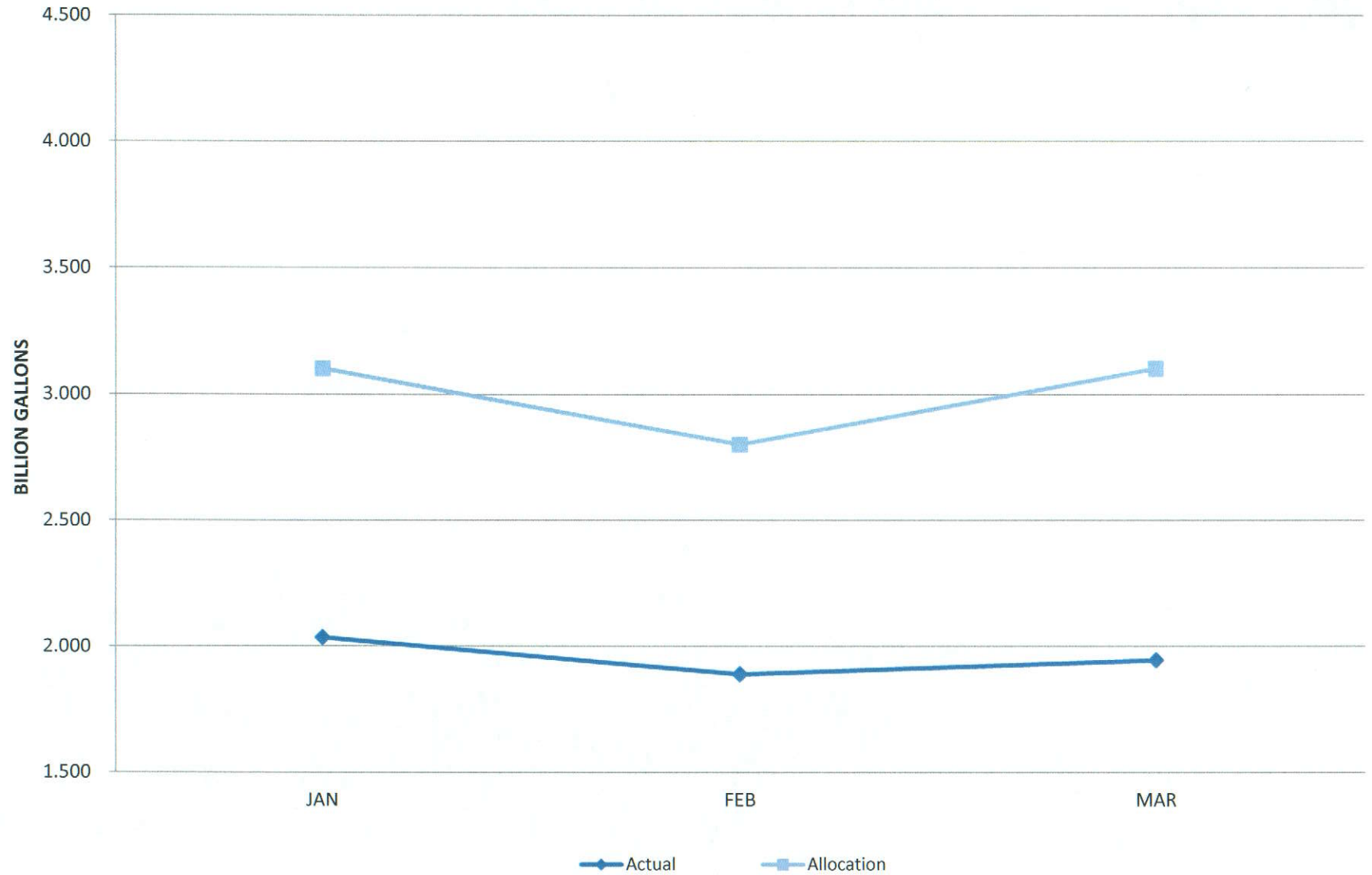
01-May-92 TO 31-Mar-16  
PER DAY AVERAGE 79,894,769

MONTH	SALES TO CUSTOMERS (GALLONS)	PURCHASES FROM CHICAGO (GALLONS)	GALLONS BILLED %	BILLINGS TO CUSTOMERS	BILLINGS FROM CHICAGO	DOCUMENTED COMMISSION WATER USE (2)	DOCUMENTED COMMISSION WATER USE %	TOTAL ACCOUNTED FOR %	DWC OPER. & MAINT. RATE (3)	CHGO RATE
May-13	2,347,910,000	2,413,837,252	97.27%	\$7,795,061.20	\$6,956,678.96	809,119	0.03%	97.30%	\$3.32	\$2.882
Jun-13	2,321,503,000	2,390,040,458	97.13%	\$7,707,389.96	\$6,888,096.60	649,245	0.03%	97.16%	\$3.32	\$2.882
Jul-13	2,829,247,000	2,911,976,489	97.16%	\$9,393,100.04	\$8,392,316.24	1,059,086	0.04%	97.20%	\$3.32	\$2.882
Aug-13	3,007,723,000	3,089,289,160	97.36%	\$9,985,640.36	\$8,903,331.36	1,323,465	0.04%	97.40%	\$3.32	\$2.882
Sep-13	2,537,241,000	2,606,351,145	97.35%	\$8,423,640.12	\$7,511,504.00	1,371,480	0.05%	97.40%	\$3.32	\$2.882
Oct-13	2,190,814,000	2,245,112,672	97.58%	\$7,273,502.48	\$6,470,414.72	763,519	0.03%	97.62%	\$3.32	\$2.882
Nov-13	1,996,890,000	2,051,521,527	97.34%	\$6,629,674.80	\$5,912,485.04	4,979,520	0.24%	97.58%	\$3.32	\$2.882
Dec-13	2,122,238,000	2,175,046,412	97.57%	\$7,045,830.16	\$6,268,483.76	749,215	0.03%	97.61%	\$3.32	\$2.882
Jan-14	2,223,778,000	2,287,994,451	97.19%	\$8,828,398.66	\$7,586,989.60	836,445	0.04%	97.23%	\$3.97	\$3.316
Feb-14	2,068,669,000	2,118,238,601	97.66%	\$8,212,615.93	\$7,024,079.20	2,069,443	0.10%	97.76%	\$3.97	\$3.316
Mar-14	2,170,575,000	2,234,019,300	97.16%	\$8,617,182.75	\$7,408,008.00	1,202,320	0.05%	97.21%	\$3.97	\$3.316
Apr-14	2,024,459,000	2,086,348,613	97.03%	\$8,037,102.23	\$6,918,332.00	5,230,699	0.25%	97.28%	\$3.97	\$3.316
May-14	2,278,578,000	2,351,587,455	96.90%	\$9,045,954.66	\$7,797,864.00	498,618	0.02%	96.92%	\$3.97	\$3.316
Jun-14	2,389,528,000	2,472,371,532	96.65%	\$9,486,426.16	\$8,198,384.00	11,296,747	0.46%	97.11%	\$3.97	\$3.316
Jul-14	2,517,890,000	2,597,231,604	96.95%	\$9,996,023.30	\$8,612,420.00	9,644,357	0.37%	97.32%	\$3.97	\$3.316
Aug-14	2,545,942,000	2,624,634,258	97.00%	\$10,107,389.74	\$8,703,287.20	1,259,369	0.05%	97.05%	\$3.97	\$3.316
Sep-14	2,228,595,000	2,290,499,879	97.30%	\$8,847,522.15	\$7,595,297.60	1,529,007	0.07%	97.36%	\$3.97	\$3.316
Oct-14	2,059,231,000	2,118,627,503	97.20%	\$8,175,147.07	\$7,025,368.80	786,729	0.04%	97.23%	\$3.97	\$3.316
Nov-14	1,930,966,000	1,981,464,656	97.45%	\$7,665,935.02	\$6,570,536.80	772,326	0.04%	97.49%	\$3.97	\$3.316
Dec-14	1,988,067,000	2,049,776,840	96.99%	\$7,892,625.99	\$6,797,060.00	675,456	0.03%	97.02%	\$3.97	\$3.316
Jan-15	2,054,769,000	2,114,481,626	97.18%	\$9,616,318.92	\$8,062,518.44	717,028	0.03%	97.21%	\$4.68	\$3.813
Feb-15	1,886,817,000	1,941,072,846	97.20%	\$8,830,303.56	\$7,401,310.76	543,923	0.03%	97.23%	\$4.68	\$3.813
Mar-15	2,094,277,000	2,161,266,992	96.90%	\$9,801,216.36	\$8,240,911.04	965,682	0.04%	96.95%	\$4.68	\$3.813
Apr-15	1,984,985,000	2,045,765,854	97.03%	\$9,289,729.80	\$7,800,505.20	10,301,376	0.50%	97.53%	\$4.68	\$3.813
May-15	2,215,394,000	2,283,051,057	97.04%	\$10,744,660.90	\$8,705,273.68	649,444	0.03%	97.06%	\$4.85	\$3.813
Jun-15	2,196,780,000	2,266,453,659	96.93%	\$10,654,383.00	\$8,641,987.80	468,148	0.02%	96.95%	\$4.85	\$3.813
Jul-15	2,448,256,000	2,522,026,667	97.07%	\$11,874,041.60	\$9,616,487.68	6,454,619	0.26%	97.33%	\$4.85	\$3.813
Aug-15	2,723,202,000	2,807,092,033	97.01%	\$13,207,529.70	\$10,703,441.92	1,048,363	0.04%	97.05%	\$4.85	\$3.813
Sep-15	2,341,098,000	2,428,433,496	96.40%	\$11,354,325.30	\$9,259,616.92	870,425	0.04%	96.44%	\$4.85	\$3.813
Oct-15	2,188,762,000	2,250,656,585	97.25%	\$10,615,495.70	\$8,581,753.56	1,989,028	0.09%	97.34%	\$4.85	\$3.813
Nov-15	1,894,247,000	1,942,187,317	97.53%	\$9,187,097.95	\$7,405,560.24	1,150,890	0.06%	97.59%	\$4.85	\$3.813
Dec-15	1,953,066,000	2,011,680,976	97.09%	\$9,472,370.10	\$7,670,539.56	516,414	0.03%	97.11%	\$4.85	\$3.813
Jan-16	2,033,443,000	2,091,170,472	97.24%	\$9,862,198.55	\$7,973,633.01	862,718	0.04%	97.28%	\$4.85	\$3.813
Feb-16	1,888,296,000	1,941,985,366	97.24%	\$9,158,235.60	\$7,404,790.20	563,984	0.03%	97.26%	\$4.85	\$3.813
Mar-16	1,944,058,000	1,996,231,707	97.39%	\$9,428,681.30	\$7,611,617.24	6,400,732	0.32%	97.71%	\$4.85	\$3.813
TOTALS (1)	697,960,702,798	717,608,513,367	97.26%	\$1,221,781,974.68	\$1,127,068,770.25	690,878,485	0.10%	97.36%	\$1.75	\$1.571

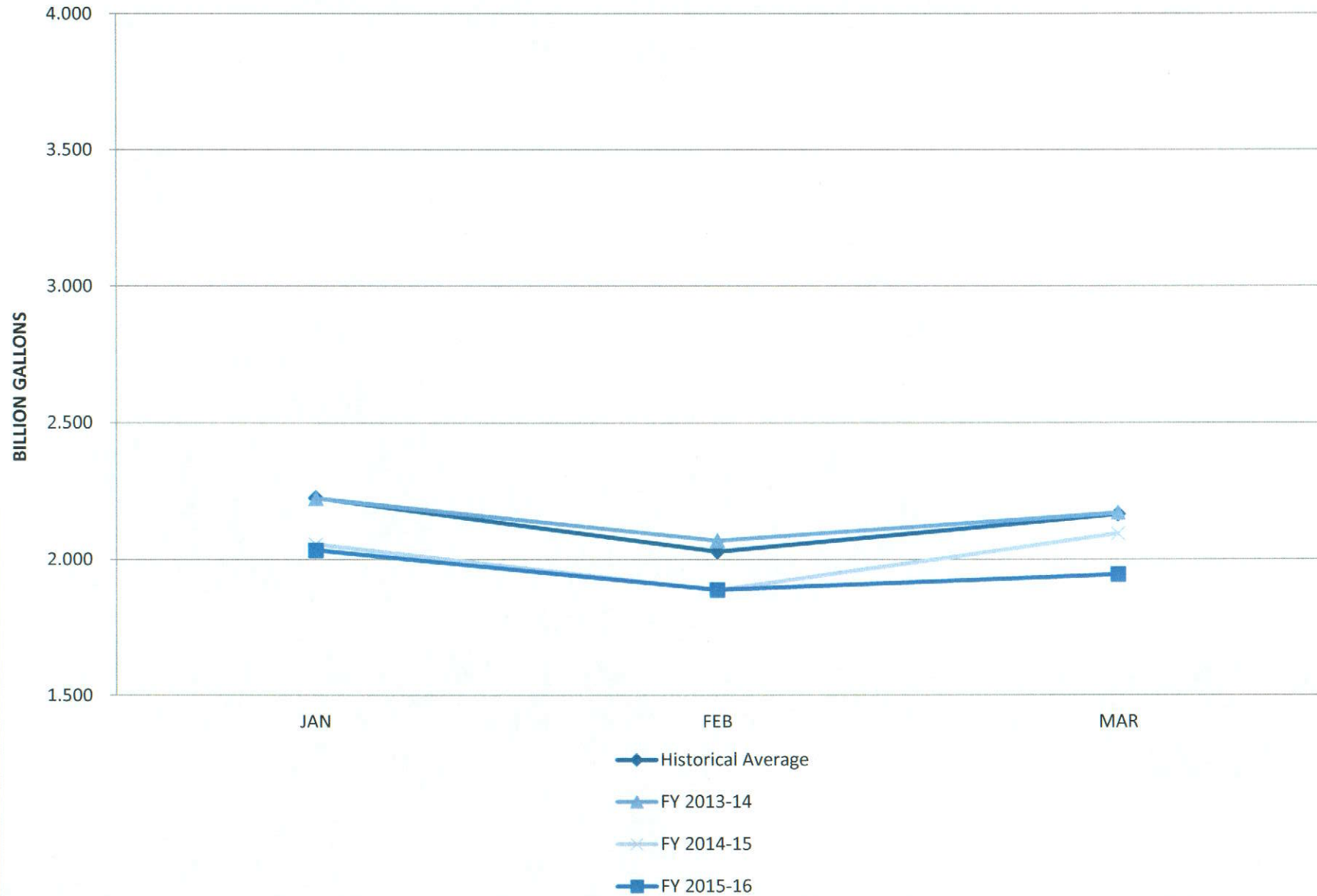
- (1) - SINCE MAY 1, 1992
- (2) - REPRESENTS DU PAGE PUMP STATION, METER TESTING AND CONSTRUCTION PROJECT USAGE
- (3) - DOES NOT INCLUDE FIXED COST PAYMENTS

YTD										
Mar-15	23,974,660,000	24,703,015,191	97.05%	99,464,863	85,004,959				\$4.15	\$3.441
Mar-16	23,826,602,000	24,540,969,335	97.09%	115,559,020	93,574,702				\$4.85	\$3.813
	(148,058,000)	(162,045,856)		\$16,094,157	\$8,569,743					
	-0.6%	-0.7%		16.2%	10.1%					
Month										
Mar-15	2,094,277,000	2,161,266,992	96.90%	9,801,216	8,240,911				\$4.68	\$3.813
Mar-16	1,944,058,000	1,996,231,707	97.39%	9,428,681	7,611,617				\$4.85	\$3.813
	(150,219,000)	(165,035,285)		\$ (372,535)	\$ (629,294)					
	-7.2%	-7.6%		-3.8%	-7.6%					
Mar>Feb	55,762,000	54,246,341		270,446	206,827					

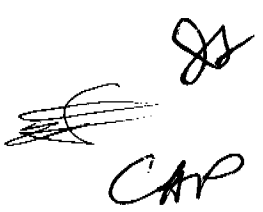
## DU PAGE WATER COMMISSION SALES FY 2015-16 VS. ALLOCATION



## DU PAGE WATER COMMISSION SALES FY 2015-16, 2014-15 & 2013-14 VS. HISTORICAL AVERAGE



# REQUEST FOR BOARD ACTION

<b>AGENDA SECTION</b>	Engineering & Construction Committee	<b>ORIGINATING DEPARTMENT</b>	Pipeline				
<b>ITEM</b>	<p>A Resolution Approving and Ratifying Certain Work Authorization Orders Under Quick Response Contract QR-10/13 at the April 21, 2016, DuPage Water Commission Meeting</p> <p>Resolution No. R-10-16</p>	<p><b>APPROVAL</b></p> 					
<p>Account Number: 01-60-663100</p>							
<p>The Commission entered into certain agreements dated July 1, 2013 with John Neri Construction Co., Inc. and Rossi Contractors, Inc. for quick response construction work, as needed, through the issuance of Work Authorization Orders. Resolution No. R-5-16 would approve the following Work Authorization Orders under the Quick Response Contracts.</p>							
<p><b>Work Authorization Order No. 013 to Rossi Contractors, Inc.</b> This work authorization is for the construction of an excavation spoils storage bin to be located within the Commission's Material Storage Facility property.</p>							
<p>The bin will be constructed using pre-cast concrete barrier wall sections and will be used to temporarily store wet spoils generated from vacuum excavation work until such time that they can be dried out and eventually hauled away.</p>							
<p>For cost comparison sake staff requested estimates to furnish, deliver, and install pre-cast concrete barrier wall sections to its Material Storage Facility and the results of those estimates are listed in the table below:</p>							
<table border="1"> <tr> <td data-bbox="198 1417 836 1470">Rossi Contractors Inc.</td> <td data-bbox="836 1417 1469 1470">\$4,540.00</td> </tr> <tr> <td data-bbox="198 1470 836 1522">John Neri Construction Co Inc.</td> <td data-bbox="836 1470 1469 1522">\$5,800.00</td> </tr> </table>				Rossi Contractors Inc.	\$4,540.00	John Neri Construction Co Inc.	\$5,800.00
Rossi Contractors Inc.	\$4,540.00						
John Neri Construction Co Inc.	\$5,800.00						
<p>Approval of Resolution R-10-16 would approve Work Authorization Order Number 013 for the work necessary to construct an excavation spoils storage bin within the Commission's Material Storage Facility property.</p>							
<p>The cost of this work is not known but is estimated to be \$4,540.00.</p>							
<p><b>MOTION:</b> To adopt Resolution No. R-10-16.</p>							

## DuPAGE WATER COMMISSION

## RESOLUTION NO. R-10-16

A RESOLUTION APPROVING AND RATIFYING  
CERTAIN WORK AUTHORIZATION ORDERS  
UNDER QUICK RESPONSE CONTRACT QR-10/13 AT THE  
APRIL 21, 2016, DuPAGE WATER COMMISSION MEETING

WHEREAS, the DuPage Water Commission (the "Commission") entered into certain agreements dated July 1, 2013, with John Neri Construction Co. and Rossi Contractors, Inc. for quick response construction work related to the Commission's Waterworks System (said agreements being hereinafter collectively referred to as "Contract QR-10/13"); and

WHEREAS, Contract QR-10/13 is designed to allow the Commission to direct one or more or all of the quick response contractors to perform quick response construction work, including without limitation construction, alteration, and repair related to the Commission's Waterworks System, as needed through the issuance of Work Authorization Orders; and

WHEREAS, the need for quick response construction work could not have been reasonably foreseen at the time the contracts were signed;

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the DuPage Water Commission as follows:

SECTION ONE: The foregoing recitals are by this reference incorporated herein and made a part hereof as findings of the Board of Commissioners of the DuPage Water Commission.

SECTION TWO: The Work Authorization Orders attached hereto and by this reference incorporated herein and made a part hereof as Exhibit 1 shall be and hereby are

approved and, if already issued, ratified because the Board of Commissioners of the DuPage Water Commission has determined, based upon the representations of staff, that the circumstances said to necessitate the Work Authorization Orders were not reasonably foreseeable at the time the contracts were signed, the Work Authorization Orders are germane to the original contracts as signed, and/or the Work Authorization Orders are in the best interest of the DuPage Water Commission and authorized by law.

SECTION THREE: This Resolution shall constitute the written determination required by Section 33E-9 of the Criminal Code of 1961 and shall be in full force and effect from and after its adoption.

AYES:

NAYS:

ABSENT:

ADOPTED this \_\_\_\_ day of \_\_\_\_\_, 2016.

\_\_\_\_\_  
Chairman

ATTEST:

\_\_\_\_\_  
Clerk

Exhibit 1

**WORK AUTHORIZATION ORDER**

**SHEET 1 OF 2**

**CONTRACT QR-10/13: QUICK RESPONSE CONTRACT**

**WORK AUTHORIZATION ORDER NO.: QR-10.0013**

**LOCATION:**

The Commission's Material Storage Facility, Elmhurst IL.

**CONTRACTOR:**

Rossi Contractors, Inc.

**DESCRIPTION OF WORK:**

Provide all labor, material and equipment necessary to furnish, deliver, and install three (3) pre-cast concrete barrier wall sections to the Commission's Material Storage Facility.

**REASON FOR WORK:**

To temporarily store wet spoils generated from vacuum excavation work.

**MINIMUM RESPONSE TIME:**

N/A

**COMMISSION-SUPPLIED MATERIALS, EQUIPMENT  
AND SUPPLIES TO BE INCORPORATED INTO THE WORK:**

N/A

**THE WORK ORDERED PURSUANT TO THIS WORK AUTHORIZATION ORDER**

IS  IS NOT PRIORITY WORK



**SUPPLEMENTARY NOTIFICATION OF POTENTIALLY HAZARDOUS CONDITIONS:**

N/A

**SUBMITTALS REQUESTED:** N/A

**SUPPLEMENTARY CONTRACT SPECIFICATIONS AND DRAWINGS:**

**DuPAGE WATER COMMISSION**

By: \_\_\_\_\_  
Signature of Authorized  
Representative

DATE: \_\_\_\_\_

**CONTRACTOR RECEIPT ACKNOWLEDGED AND DESIGNATION OF SAFETY REPRESENTATIVE:**




By: \_\_\_\_\_  
Signature of Authorized  
Representative

Safety Rep: \_\_\_\_\_  
Name and 24-Hr Phone No.

DATE: \_\_\_\_\_

DATE: April 14, 2016

## REQUEST FOR BOARD ACTION

<b>AGENDA SECTION</b>	Engineering & Construction Committee	<b>ORIGINATING DEPARTMENT</b>	Instrumentation/ Remote Facilities
<b>ITEM</b>	<p>A Resolution Approving and Ratifying Certain Work Authorization Orders Under Quick Response Electrical Contract QRE-7/15 at the April 21, 2016, DuPage Water Commission Meeting</p> <p>Resolution No. R-11-16</p>	<b>APPROVAL</b>	    

Account Numbers: 01-60-663300 (\$62,000.00)

The Commission entered into certain agreements dated December 29, 2015, with McWilliams Electric Co. Inc. and with Windy City Electric Co. for quick response electrical work as needed through the issuance of Work Authorization Orders. Resolution No. R-11-16 would approve the following Work Authorization Order under the Quick Response Electrical Contracts:

**Work Authorization Order No. 003:** This Work Authorization is to Windy City Electric Co. The work consists of two parts: Part A is to re-route buried conduits around a buried manhole vault, so the frame and lid can be raised to ground level. Part B is to install a new conduit path for fiber from AT&T's hand hole into the pump stations equipment room. AT&T is converting communication services over copper wires to fiber optic with a sunset date of January, 2018.

Both QRE contractors came on site to see the proposed work to provide an estimate, see table below.

Contractor	Description	Total
McWilliams Electric	Reroute & added conduits at Pump Station	\$55,280.00
Windy City Electric	Reroute & added conduits at Pump Station	\$38,800.00

The total cost for this work is estimated to not exceed \$40,000.00.

**Work Authorization Order No. 004:** This Work Authorization is to McWilliams Electric Co. Inc. The work consists of five parts: Part A is to install security switches on the new West side reservoir hatches. Parts B, C, & D are for installing owner provided equipment for monitoring the reservoir hatches through the security system. Part E is to install conduit and wire the West side reservoir level float switches into existing interface enclosure.

Both QRE contractors came on site to see the proposed work to provide an estimate, see table below.

<b>Contractor</b>	<b>Description</b>	<b>Total</b>
McWilliams Electric	Reservoir hatch security switches	\$21,870.00
Windy City Electric	Reservoir hatch security switches	\$28,650.00

The total cost for this work is estimated to not exceed \$22,000.00.

**MOTION:** To adopt Resolution No. R-11-16.

## DUPAGE WATER COMMISSION

## RESOLUTION NO. R-11-16

A RESOLUTION APPROVING AND RATIFYING  
CERTAIN WORK AUTHORIZATION ORDERS  
UNDER QUICK RESPONSE ELECTRICAL CONTRACT QRE-7/15  
AT THE APRIL 21, 2016, DUPAGE WATER COMMISSION MEETING

WHEREAS, the DuPage Water Commission (the "Commission") entered into certain agreements dated December 29, 2015, with McWilliams Electric Co. Inc. and with Windy City Electric Co., for quick response electrical work related to the Commission's Waterworks System (said agreements being hereinafter collectively referred to as "Contract QRE-7/15"); and

WHEREAS, Contract QRE-7/15 is designed to allow the Commission to direct one or more or all of the quick response electrical contractors to perform emergency electrical work, including without limitation electrical work that the Commission is unable to perform through its own personnel and with its own equipment, as needed through the issuance of Work Authorization Orders; and

WHEREAS, the need for such emergency electrical work could not have been reasonably foreseen at the time the contracts were signed;

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the DuPage Water Commission as follows:

SECTION ONE: The foregoing recitals are by this reference incorporated herein and made a part hereof as findings of the Board of Commissioners of the DuPage Water Commission.

SECTION TWO: The Work Authorization Orders attached hereto and by this reference incorporated herein and made a part hereof as Exhibit 1 shall be and hereby are approved and, if already issued, ratified because the Board of Commissioners of the DuPage Water Commission has determined, based upon the representations of staff, that the circumstances said to necessitate the Work Authorization Orders were not reasonably foreseeable at the time the contracts were signed, the Work Authorization Orders are germane to the original contracts as signed, and/or the Work Authorization Orders are in the best interest of the DuPage Water Commission and authorized by law.

SECTION THREE: This Resolution shall constitute the written determination required by Section 33E-9 of the Criminal Code of 1961 and shall be in full force and effect from and after its adoption.

AYES:

NAYS:

ABSENT:

ADOPTED this \_\_\_\_ day of \_\_\_\_\_, 2016

\_\_\_\_\_  
Chairman

ATTEST:

\_\_\_\_\_  
Clerk

Exhibit 1

## WORK AUTHORIZATION ORDER

SHEET 1 OF 2

### CONTRACT QRE-7/15: QUICK RESPONSE ELECTRICAL CONTRACT

#### PROJECT: QRE-7.003

#### **LOCATION:**

DuPage Water Commission Reservoir, 600 E. Butterfield Rd., Elmhurst, IL 60126

#### **CONTRACTOR:**

Windy City Electric Co.

#### **DESCRIPTION OF WORK:**

##### Part A: Reroute conduits and wiring around manhole structure

Hand dig to expose existing three conduits of unknown size and material and remove wiring. Reroute conduits to clear manhole structure by about 5' and reuse or replace wiring and terminate. DWC staff will assist with wiring terminations. Restore landscaping to owners request at time of work.

##### Part B: Install new conduit path for communication fiber optic cable

Trench path from AT&T hand hole to pump station building and install 4" ridged conduit at a minimum depth of 36". Minimum 3' sweeping radius – no right angles – no more than three 90 degree turns without a pull box, in-ground pull box no smaller than 17" x 30" x 24". Once inside the building the 4" enters an enclosure with a locking door no smaller than 24" x 30" x 8". From the enclosure run 2- 2" ridged conduits to new communication enclosure with a locking door no smaller than 24" x 30" x 8" to be located in equipment room. The exact location will depend on clear area to core floor after x-ray/scanning. Paths longer than 300' or with two or more sweeping 90 degree turns will require a pull box no smaller than 12" x 12" x 6". Install EMT conduit and wire from the breaker panel to the new enclosure in the equipment room and mount a quad box with 2 duplex receptacles inside the enclosure. Wire to an unused breaker. Install pull strings in all conduits. Restore landscaping to existing condition.

#### **REASON FOR WORK:**

Part A: To be able to bring the valve vault manhole frame and lid up to ground level for access.

Part B: Conduit path required by AT&T for new fiber optic cable. Sunset date for converting from copper to fiber is January, 2018.

#### **MINIMUM RESPONSE TIME:**

Part A to be completed before starting Part B.

**COMMISSION-SUPPLIED MATERIALS, EQUIPMENT  
AND SUPPLIES TO BE INCORPORATED INTO THE WORK:**

None

**THE WORK ORDERED PURSUANT TO THIS WORK AUTHORIZATION ORDER**

IS  IS NOT PRIORITY EMERGENCY WORK

**SUBMITTALS REQUESTED:**

Enclosure with locking door

**SUPPLEMENTARY NOTIFICATION OF POTENTIALLY HAZARDOUS CONDITIONS:**

None

**SUPPLEMENTARY CONTRACT SPECIFICATIONS AND DRAWINGS:**

None

**DUPAGE WATER COMMISSION**

By: \_\_\_\_\_  
Signature of Authorized  
Representative

DATE: \_\_\_\_\_

**CONTRACTOR RECEIPT ACKNOWLEDGED AND DESIGNATION OF SAFETY  
REPRESENTATIVE:**

By: \_\_\_\_\_ Safety Rep: \_\_\_\_\_  
Signature of Authorized Name and 24-Hr Phone No.  
Representative

DATE: \_\_\_\_\_



## WORK AUTHORIZATION ORDER

SHEET 1 OF 4

### CONTRACT QRE-7/15: QUICK RESPONSE ELECTRICAL CONTRACT

#### PROJECT: QRE-7.004

#### **LOCATION:**

DuPage Water Commission Reservoir, 600 E. Butterfield Rd., Elmhurst, IL 60126

#### **CONTRACTOR:**

McWilliams Electric Co., Inc.

#### **DESCRIPTION OF WORK:**

##### Part A: Install reservoir hatch security switches

Install owner provided proximity switch inside aluminum hatch and switch target of the four West reservoir hatches. Run ½" PVC Coated Heavy Wall Conduit (Color Dark Gray) through existing sleeve to Liquidtight then to switch. Use two owner provided Link-Seals in each sleeve around conduit. Pull cable from switch through Liquidtight and conduit, leaving cable from switch hang out conduit. DWC staff will assist with switch locations.

##### Part B: Install enclosures and connect to existing conduit for hatch security switches

Install six owner provided polycarbonate enclosure (12" x 10" x 6") on side of hatch structures. Continue conduit and switch cable to each new enclosure. DWC staff will terminate switch cable in each enclosure.

##### Part C: Install Repeater radio

Install owner provided fiberglass enclosure (14" x 12" x 8") using owner provided pole mount kit for enclosure and contractor provided 2" galvanized pipe and wall mounts on inside of parapet wall of Influent Building. Install conduit and wire from enclosure to nearby J-Box for 120VAC power. Use liquidtight to allow enclosure to be raised and lowered on 2" pipe for servicing.

##### Part D: Install Master radio and pipe to security controller

Install owner provided fiberglass enclosure (16" x 14" x 8") on wall inside Chlorination building. Run conduit and wire from enclosure to security controller. Pull 20 - 18ga wires and 3 - 14ga wires between master enclosure and security controller. DWC staff will terminate both ends. Penetrate outside wall to route antenna cable from Master Radio Enclosure to outside and up to parapet wall of building. Mount owner provided antenna on contractor provided 2" galvanized pipe and wall mounts to inside of parapet wall on roof.

Part E: Install conduits to existing enclosure for float switches

Run ¾" PVC Coated Heavy Wall Conduit from existing enclosure through existing sleeves into hatch for two floats. Use two customer provided Link-Seals in each sleeve around conduit. Pull float cables into enclosure. Use appropriate strain relief on float cables inside of hatch. DWC staff will terminate float cables in enclosure.

**REASON FOR WORK:**

Reservoir hatches are being replaced and all original poured in-place conduits and recessed J-boxes are being abandoned, because many of them have corroded and deteriorated beyond use.

Part A, B, C & D: The DWC provided enclosure contains a radio and battery for wireless communication of the open/close status of hatches into the reservoir. Very little new conduit required by going wireless. Wireless survey indicated this approach will work very reliably.

Part E: Float switches for high and low reservoir level pass through the center hatches. Existing path will be abandon during the construction of the new hatches.

**MINIMUM RESPONSE TIME:**

Parts A & E: Complete mounting of switches, conduit work inside of new hatches, and float switches within one week after construction of the new hatches on West side of reservoir. DWC Staff will coordinate with QRE contractor.

Parts B, C, and D: Work can begin after Parts A & E and be completed within 30 days of owner receiving enclosures and parts.

**COMMISSION-SUPPLIED MATERIALS, EQUIPMENT  
AND SUPPLIES TO BE INCORPORATED INTO THE WORK:**

- 4 – Hatch switches and metal targets
- 8 – Fiberglass or polycarbonate enclosures with radio system for Master, Repeater, and Slaves for Hatch locations
- 1 – Pole-mount kit for Repeater
- 1 – Master radio antenna and cable
- 8 – Link-Seals for ½" PVC Coated Heavy Wall Conduit
- 4 – Link-Seals for ¾" PVC Coated Heavy Wall Conduit

**THE WORK ORDERED PURSUANT TO THIS WORK AUTHORIZATION ORDER**

IS  IS NOT PRIORITY EMERGENCY WORK

**SUBMITTALS REQUESTED:**

None

**SUPPLEMENTARY NOTIFICATION OF POTENTIALLY HAZARDOUS CONDITIONS:**

1. Owner has designated the Reservoir Access areas as Permit Required Confined Space due to limited means of ingress and egress and not designed for occupancy.
2. The Reservoir Hatch openings expose personnel heights greater than 4 feet and open water.
3. The reservoir is a potable water reservoir and care must be taken to maintain sanitary conditions during the work.

**SUPPLEMENTARY CONTRACT SPECIFICATIONS AND DRAWINGS:**

Existing Conditions:

1. The DuPage Pumping Station Reservoirs were constructed during the period of 1988 - 1992. Record Drawings are available to the Contractor for review.
2. Column spacing in the reservoir is shown on the Record Drawings. The maximum live load on the reservoir roof cannot exceed 8,000 pounds between columns. All construction, including staging of equipment, must abide by this limitation.
3. The existing reservoir has a waterproofing membrane, protection board and an extensive drainage system in the soil directly on top to the reservoir concrete top slab. See record drawings for details. There also exists approximately 1 - 2 feet of soil and native plantings on the top concrete slab. All work and the installation of all equipment on the roof of the reservoir must not disturb, damage or otherwise inhibit this existing membrane system, protection board or drainage system from its designed operation.

Drawings:

1. Contract PSD-1/88 Reservoir Structural and Electrical Record Drawings are available for inspection and copying upon request.

**DUPAGE WATER COMMISSION**

By: \_\_\_\_\_  
Signature of Authorized  
Representative

DATE: \_\_\_\_\_


**CONTRACTOR RECEIPT ACKNOWLEDGED AND DESIGNATION OF SAFETY REPRESENTATIVE:**

By: \_\_\_\_\_  
Signature of Authorized  
Representative

Safety Rep: \_\_\_\_\_  
Name and 24-Hr Phone No.

DATE: \_\_\_\_\_

# REQUEST FOR BOARD ACTION

<b>AGENDA SECTION</b> Omnibus Vote Requiring Super-Majority or Special Majority Vote	<b>ORIGINATING DEPARTMENT</b> Facilities Construction/Safety Coordinator
<b>ITEM</b> A Resolution Approving and Ratifying Certain Contract Change Orders for Reservoir and Meter Station 19B Concrete and Miscellaneous Metals Rehabilitation for the DuPage Water Commission at the April 21, 2016, DuPage Water Commission Meeting  Resolution No. R-13-16	<b>APPROVAL</b>  
Account Numbers:           01-60-721800   \$0.00 01-60-721900   \$0.00	
<p>Resolution No. R-13-16 would approve the following Change Orders:</p> <p><b>Change Order No. 1 for Reservoir and Meter Station 19B Concrete and Miscellaneous Metals Rehabilitation for the DuPage Water Commission.</b> This Change Order would extend the Contract Time by 247 calendar days for a total time of 397 days, changing the Completion date from September 27, 2015 to May 31, 2016. This Change Order would also grant Final Acceptance of the Work and Allow the General Manager to make Final Payment, including the release of all monies held in Retainage, conditioned upon receipt of all contractually required documentation.</p> <p>After the Contract was signed, Staff determined it was in the best operational interests to delay the reservoir work until seasonal high water demands had subsided. After the hatch and vent work was resumed in the fall of 2015, Staff discovered that a valve actuator on the West Reservoir Influent Valve had failed. Determinations at that time were due to the age of the valve actuator, stock repair parts were not available and had to be manufactured specifically for the application.</p> <p>The replacement parts were received and installed on April 1, 2016, and the Contractor, Manusos General Contracting, Inc., mobilized to the site on April 6<sup>th</sup> to resume the West Reservoir hatch and vent work. The Contractor had previously completed all other work required by the Contract and within the specified time frames.</p>	
<b>MOTION:</b> To approve Resolution No. R-13-16.	

DuPAGE WATER COMMISSION

RESOLUTION NO. R-13-16

A RESOLUTION APPROVING AND RATIFYING  
CERTAIN CONTRACT CHANGE ORDERS AT THE  
APRIL 21, 2016 DuPAGE WATER COMMISSION MEETING

BE IT RESOLVED by the Board of Commissioners of the DuPage Water Commission as follows:

SECTION ONE: The Change Orders set forth on Exhibit 1, attached hereto and by this reference incorporated herein and made a part hereof, shall be and hereby are approved and, if already issued, ratified because the Board of Commissioners of the DuPage Water Commission has determined, based upon the representations of staff and the Contractors, that the circumstances said to necessitate the changes were not reasonably foreseeable at the time the contracts were signed, the Change Orders are germane to the original contracts as signed and/or the Change Orders are in the best interest of the DuPage Water Commission and authorized by law.

SECTION TWO: This Resolution shall constitute the written determination required by Section 33E-9 of Article 33E of the Criminal Code of 1961 and shall be in full force and effect from and after its adoption.

AYES:

NAYS:

ABSENT:

ADOPTED this \_\_\_\_\_ day of \_\_\_\_\_, 2016.

\_\_\_\_\_  
Chairman

ATTEST:

\_\_\_\_\_  
Clerk

Exhibit 1

Resolution No. R-13-16

1. Change Order No. 1 for Reservoir and Meter Station 19B Concrete and Miscellaneous Metals Rehabilitation for the DuPage Water Commission, for an extension of the Contract Time by 247 calendar days for a total time of 397 days, changing the Completion date from September 27, 2015 to May 31, 2016. This Change Order also grants Final Acceptance of the Work and allows the General Manager to make Final Payment, including the release of all monies held in Retainage, conditioned upon receipt of all contractually required documentation.

DUPAGE WATER COMMISSION  
CHANGE ORDER

SHEET  1  OF  3

PROJECT NAME: Reservoir and Meter Station 19B  
Concrete and Miscellaneous  
Metals Rehabilitation For the  
DuPage Water Commission

CHANGE ORDER NO.  1

LOCATION: Cook County, Illinois

CONTRACT NO. N/A

CONTRACTOR: Manusos General Contracting, Inc.

DATE: April 21, 2016

I. A. DESCRIPTION OF CHANGES INVOLVED:

1. An extension of the Contract Time by 247 calendar days and the granting Final Acceptance.

B. REASON FOR CHANGE:

1. Staff imposed delays and unforeseen conditions not the fault of the Contractor.

C. REVISION IN CONTRACT PRICE:

1. No Change in Contract Price



II. CHANGE ORDER CONDITIONS:

1. The Completion Date established in the Contract, as signed or as modified by previous Change Orders, is hereby extended by  247  days, changing the final Completion Date to May 31, 2016.
2. Any Work to be performed under this Change Order shall be provided, performed, and completed in full compliance with, and as required by or pursuant to, the Contract, including any Specifications and Contract Drawings for the Work to be performed under this Change Order and for Work of the same type as the Work to be performed under this Change Order, and as specified in the preceding "Description of Changes Involved."
3. Unless otherwise provided herein, all Work included in this Change Order shall be guaranteed and warranted as set forth in, and Contractor shall not be relieved from strict compliance with, the guaranty and warranty provisions of the Contract.
4. All Work included in this Change Order shall be covered under the Bonds and the insurance coverages specified in the Contract. If the Contract Price, including this Change Order, exceeds the Contract Price set forth in the Contract, as signed, by twenty percent (20%), Contractor shall submit to Owner satisfactory evidence of such increased coverage under the Bonds if requested by Owner.

III. ADJUSTMENTS IN CONTRACT PRICE:

1.	Original Contract Price	\$ <u>278,334.00</u>
2.	Net <del>(addition)</del> <del>(reduction)</del> due to all previous Change Orders Nos. <u>N/A</u> to <u>N/A</u>	\$ <u>0.00</u>
3.	Contract Price, not including this Change Order	\$ <u>278,334.00</u>
4.	<del>(Addition)</del> <del>Reduction</del> to Contract Price due to this Change Order	\$ <u>0.00</u>
5.	Contract Price including this Change Order	\$ <u>278,334.00</u>

RECOMMENDED FOR ACCEPTANCE:

ACCEPTED: By my authorized signature below, being first duly sworn on oath, I certify on behalf of Contractor that this Change Order does not authorize or necessitate an increase in the price of any subcontract under the Contract that is 50% or more of the original subcontract price.

CONTRACTOR: Manusos General Contracting, Inc.

By: \_\_\_\_\_ ( \_\_\_\_\_ )  
 Signature of Authorized Representative Date

DUPAGE WATER COMMISSION:

By: \_\_\_\_\_ ( \_\_\_\_\_ )  
 Signature of Authorized Representative Date