

OPERATORS ROUND TABLE
DU PAGE PUMPING STATION
January 17, 2020
9:00 AM

Status of DuPage Water Commission

The Commission's sales for the month of December were a total of 2.00 billion gallons. This represents an average day demand of 64.6 million gallons per day (MGD), which is higher than the December 2018 average day demand of 62.4 MGD. The maximum day demand was 69.7 MGD recorded on December 02, 2019, which is higher than the December 2018 maximum day demand of 65.6 MGD. The minimum day flow was 59.3 MGD.

The Commission's recorded total precipitation for the month of December was .94 inches compared to 1.18 inches for December 2018. The level of Lake Michigan for December 2019 is 581.52 (Feet IGLD 1985) compared to 580.08 (Feet IGLD 1985) for December of 2018.

Resolution R-1-20 appears on the agenda recommending award of a 3-year contract for Janitorial Services at the DuPage Water Commission

Resolution R-2-20 appears on the agenda Approving and Authorizing the Execution of a Contract Extension for Electrical Supply at the DuPage Water Commission.

Water Conservation

Update: Staff worked with the Villages of Clarendon Hills and Westmont on the design of the Richmond Education Gardens & Apiary underground cistern system that the Commission helped sponsor. All underground work, including the installation of the cistern, has been completed. The permeable brick paver installation was about 90% complete before the colder weather occurred. The brickwork will be finished in the spring. They are preparing to install the pergola (outdoor classroom), entry bridge, and landscaping in early summer. They already have several scouting troops and a middle school eco-club tentatively scheduled to visit the Gardens for education programming in spring.

Bartlett Water Service

Punch-list items for the TW-3 pipeline project is 99% complete.

New Customers

The Commission has been approached by the city of Joliet and the Village of Shorewood about providing water service to each community. The Commission did not submit an RFI application to be a supplier for Joliet. The Commission is currently in discussions with the Village of Shorewood. Additionally, the Commission is tentatively scheduled to meet with Mayors and Administrators from Oswego, Yorkville and Montgomery on January 29th.

Pipeline Maintenance

Pipeline staff continues inspection and repair work on distribution system blow off valves.

Work under Contract VSR-2/19 (Fabrication of Valve Stem Risers) is ongoing. Staff will begin installation work in the Spring of 2020.

Resolution R-8-20 appears on the Agenda as a Resolution Approving and Ratifying Work Authorization Order Number 15 under Quick Response Contract QR-11/17, to John Neri Construction Co., Inc., in the estimated amount of \$20,000.00, for exploratory excavation work at the intersection of 55th Street and Brookbank Road in the City of Downers Grove.

Capital Improvement Program

The Pump Station and Administration Building rehabilitation project is on hold. The project includes replacement of the Curtain Wall, replacement of the walls which surround the Commonwealth Edison Yard, and to remediate groundwater penetration through the -West Discharge Tunnel. There have been design changes requested by Staff which are being addressed by the Engineer.

The Contract for the Construction of DuPage Pump Station Sodium Hypochlorite System Improvements (Contract PSD-8/19) is underway by Independent Mechanical Industries. The Contract Completion Date is September 28, 2020. The project includes replacement and upgrading of chemical storage and feed equipment, containment finishes, process piping, and wall finishes which are deteriorating naturally due to age and environmental conditions.

R-3-20 appears on the agenda to award a Contract for the Construction of Tank Site Improvements and Meter Station 26B (Contract SS-9/19) to Rossi Contractors. The bid opening was held on November 20th. The project includes replacement and safety upgrading of control vault structures, improvement overland drainage, rehabilitation and improvement security fencing and the rehabilitation and addition of paved surfaces.

R-4-20 appears on the agenda seeking a one-year extension with CGMT, Inc. for Materials Testing Contract MT-11/18. Construction and Geotechnical Materials Testing, Inc. had performed satisfactorily for the Bartlett project and has agreed to hold their 2018 pricing through March of 2021.

R-5-20 appears on the agenda as the 1st Amendment to Task Order No. 3 with Strand Associates, Inc. The work includes the surveying and delineation of all properties that abut Tank Site No. 4 in Lisle Township. Some of the abutting properties are encroaching on Commission property and Staff is proposing surveying services to locate property corners, stake the property corners and provide sign posts to attach "no trespassing" signs along the Commission side of the property lines.

The SCADA Project is on schedule, the SCADA Draft Design Memo is under staff review. Once reviewed Carollo will have approximately one month for revision before submitting the Final Design Memo. Once the Final Design Memo is accepted the project will proceed on schedule to the Detailed Design Phase. Design phase is estimated at 12 months, Construction is estimated at 24 months.

Instrumentation / Remote Facilities Overview

Instrumentation staff continues with routine inspections and repairs of remote facilities.

Resolution R-6-20 appears on the agenda requesting approval of Work Authorization Order No. 016 under the Quick Response Electrical Contract QRE-8/17, to Volt Electric Inc. for the work necessary to relocate counters to the outside of control cabinets in the Reverse Current Switch building. This will allow staff to read the counters and replace when defective without opening the cabinets to be exposed to hazardous energy.

R-7-20 appears on the agenda to approve a Task Order for the design and implementation of a cellular backup system for SCADA data. Proposals were due January 7th. The project includes design, procurement of hardware, installation and training of staff to maintain and troubleshoot.

Security

Home Land Security – Due to the recent situation in the middle east, be vigilant “see something, say something” for any suspicious activity. Make sure all of your physical security systems are working. Reach out to your local police for any questions.

Home Land Security is asking for more vigilance in the area of Cyber Security. Make sure your virus protection is up to date. Make sure all personnel are watching for suspicious email activity. If in doubt, don't open the email and call your Cyber Security professionals.

The Water System Risk & Resilience Assessment Project is continuing with physical and cyber security evaluations that are almost complete that will be used in the final report due March 31, 2020, then followed by an updated Emergency Response Plan due September 30, 2020.

Each community water system serving more than 3,300 persons shall submit to the EPA Administrator a certification that the system has conducted a risk and resilience assessment in accordance with the Act prior to:

- March 31, 2020, in the case of systems serving a population of 100,000 or more;
- December 31, 2020, in the case of systems serving a population of 50,000 or more, but less than 100,000; and
- June 30, 2021, in the case of systems serving a population greater than 3,300, but less than 50,000.

Each community water system serving more than 3,300 persons shall also certify its completion of an emergency response plan as soon as reasonably possible, but no later than six months after certifying completion of its risk and resilience assessment.

The Commission has completed the installation of new electronic padlocks and door locks at the Pump Station and all remote facilities.

It is imperative that all Commission's padlocks at the metering stations are not locked out of the loops. The Water Purchase Agreement requires the Commission to have access to all metering stations at any time.

Winter Operations

With the summer demand around the corner, we need to start thinking about winter operations.

Make sure to keep the water moving in your elevated tanks to prevent any water quality problems.

Make sure the overflow drains and vents are clean and drain properly to prevent any freezing problems.

Vehicles and facilities are winterized. Snow

removal equipment is ready to go. Salt

inventories are in place.

You cannot exceed the 1.7 times allocation.

You must take water at a constant rate.

Manhole lids are in place. Catch

basins are clean.

Make sure your employees take the proper safety precautions when working in winter conditions, (Slip, Trips, and Falls, Back Strains, Sudden Storms, and Frostbite)

Meter Testing

Annual Customer Meter Calibration Program

The Becon customer portal is up and running. Contact Denis Cuvalo for additional information.

Annual Meter calibration is 37% complete.

The Commission is available to test the large customer meters. We can test 6" 8" and 10" turbine meters. Please contact John Schori at (630) 834-0100 if you have any questions concerning this service.

Regulations

Changes to the minimum chlorine residual have been approved.

Section 604.725 Residual Chlorine

- A minimum free chlorine residual of 0.5 mg/L or a minimum combined chlorine residual of 1.0 mg/L must be maintained in all active parts of the distribution system at all times.
- Community water supplies must monitor chlorine residual to determine the amount and type of residuals existing at different points in the distribution system.
- Community water supplies must not mix water sources with free chlorine and combined chlorine residual.

Lead and Copper regulations

On October 10, 2019, the Environmental Protection Agency (EPA) released **proposed revisions to the Lead and Copper Rule** (LCR). The attached **Reference Guide** summarizes the key differences between the current LCR and the proposed revisions. The LCR revisions focus on six key areas:

1. Identifying the areas most impacted
2. Strengthening drinking water treatment requirements
3. Replacing lead service lines
4. Increasing sampling reliability
5. Improving risk communication
6. Protecting children in schools and childcare facilities

Federal Lead and Copper Rule Update:

- Comments due January 28th, requesting an extension to comment period.
- Includes: Corrosion control, pipe replacement, improve communications, sample 20% of schools and day care for five years.
- Illinois Senator Steans Bill expected to be reintroduced this year.

Renewal Training

2/3 of renewal training must be comprised of technical training

Water Quality

The Commission is not feeding chlorine, the discharge residual of about 1.0 mg/l

Water Rates

Water rate for 2019 \$4.97/1000 gallons

Drone Demo

The Commission has purchased a drone that can be used for inspection of Elevated tanks and reservoirs. Contact Denis Cuvalo for additional information

Other

The Commission invites you to view all Committee and Commission Agendas which can be found on our website at www.dpwc.org.

Please contact the Commission with any changes in water department personnel, phone and/or pager numbers. This is an important part of our ERP for system emergency purposes.

Please provide the Commission with a valid e-mail address. All meeting minutes will be distributed via e-mail.

The next Operators Round Table will be April 17, 2020 at 9:00 A M. or before if events warrant.

Questions & Answers

AWWA

WATERCON2020

3/23/2020 - 3/ 26/2020

Location: Springfield, IL.

If you have any comments concerning these issues or would like to have a topic discussed at the next Round Table Meeting, please feel free to email me at weed@dpwc.org.

Handouts:

- DuPage Laboratory Bench Sheet for October 2019, November 2019, and December 2019
- Lead and Copper Reference Guide
- Wind Chill Chart
- Safety Tips to Prevent Winter-Related Workplace Accidents

DUPAGE WATER COMMISSION LABORATORY BENCH SHEET
MONTHLY REPORT FOR OCTOBER 2019

LEXINGTON SUPPLY

DUPAGE DISCHARGE

DAY	LEXINGTON SUPPLY			DUPAGE DISCHARGE			TEMP °F	pH	Fluoride	PO ₄ mg/l	P.A.C. LBS/MG	ANALYST INT
	FREE CL ₂ mg/l	TURBIDITY NTU	PO ₄ mg/l	FREE CL ₂ mg/l	TURBIDITY NTU							
1	0.86	0.10	0.55	1.00	0.09	58	7.9	0.7	0.58	0	KD	
2	0.99	0.07	0.58	1.00	0.08	61	7.6	0.6	0.62	0	CT	
3	1.10	0.08	0.51	1.10	0.08	60	7.7	0.7	0.58	0	CT	
4	0.96	0.09	0.55	0.96	0.09	60	7.8	0.6	0.56	0	CT	
5	0.98	0.09	0.56	1.05	0.08	60	7.6	0.7	0.51	0	RC	
6	0.94	0.10	0.51	1.04	0.08	60	7.6	0.7	0.55	0	RC	
7	1.20	0.07	0.56	1.00	0.08	61	7.6	0.6	0.56	0	CT	
8	1.10	0.08	0.63	1.00	0.07	61	7.6	0.9	0.56	0	CT	
9	1.10	0.07	0.51	1.08	0.08	59	7.6	0.7	0.55	0	RC	
10	1.17	0.07	0.58	1.17	0.08	60	7.6	0.7	0.54	0	RC	
11	1.15	0.06	0.56	1.07	0.07	59	7.7	0.7	0.56	0	RC	
12	1.00	0.07	0.56	1.00	0.08	61	7.6	0.7	0.55	0	CT	
13	1.00	0.08	0.55	0.98	0.08	62	7.7	0.6	0.57	0	CT	
14	1.03	0.09	0.59	0.99	0.09	65	7.6	0.9	0.58	0	RC	
15	0.98	0.09	0.56	1.02	0.08	64	7.6	0.8	0.59	0	RC	
16	1.00	0.08	0.62	0.91	0.09	63	7.7	0.7	0.61	0	CT	
17	1.00	0.07	0.51	0.85	0.09	64	7.7	0.7	0.59	0	CT	
18	0.90	0.08	0.58	0.91	0.08	63	7.6	0.7	0.59	0	CT	
19	1.00	0.07	0.61	0.96	0.09	64	7.7	0.8	0.62	0	CT	
20	0.97	0.07	0.54	1.07	0.07	57	7.6	0.8	0.52	0	RC	
21	1.20	0.07	0.59	0.95	0.09	60	7.6	0.8	0.54	0	CT	
22	1.00	0.08	0.55	1.00	0.07	60	7.7	0.7	0.56	0	CT	
23	0.99	0.08	0.52	1.03	0.07	59	7.7	0.8	0.54	0	RC	
24	1.06	0.07	0.56	0.96	0.08	66	7.6	0.9	0.55	0	RC	
25	0.99	0.08	0.50	0.98	0.08	64	7.6	0.8	0.56	0	RC	
26	0.99	0.09	0.50	0.99	0.08	63	7.4	0.8	0.57	0	AM	
27	0.98	0.09	0.52	0.96	0.09	63	7.4	0.8	0.58	0	AM	
28	0.95	0.08	0.56	1.00	0.08	63	7.7	0.8	0.57	0	RC	
29	1.04	0.08	0.51	1.07	0.08	63	7.6	0.8	0.59	0	RC	
30	1.00	0.08	0.57	0.98	0.09	62	7.6	0.8	0.58	0	AM	
31	0.96	0.08	0.56	0.99	0.08	61	7.5	0.8	0.60	0	AM	
AVG	1.02	0.08	0.55	1.00	0.08	61	7.6	0.7	0.57	0		
MAX	1.20	0.10	0.63	1.17	0.09	66	7.9	0.9	0.62	0		
MIN	0.86	0.06	0.50	0.85	0.07	57	7.4	0.6	0.51	0		

Terrance McGhee
Manager of Water Operations

DUPAGE WATER COMMISSION LABORATORY BENCH SHEET
MONTHLY REPORT FOR NOVEMBER 2019

LEXINGTON SUPPLY

DUPAGE DISCHARGE

DAY	LEXINGTON SUPPLY			DUPAGE DISCHARGE			pH	Fluoride	PO ₄ mg/l	P.A.C. LBS/MG	ANALYST INT
	FREE CL ₂ mg/l	TURBIDITY NTU	PO ₄ mg/l	FREE CL ₂ mg/l	TURBIDITY NTU	TEMP °F					
1	0.97	0.09	0.53	0.96	0.09	60	7.5	0.8	0.57	0	AM
2	0.99	0.09	0.54	1.00	0.08	60	7.6	0.8	0.55	0	KD
3	1.20	0.06	0.60	0.89	0.09	61	7.6	0.7	0.61	0	KD
4	1.10	0.08	0.54	1.00	0.07	60	7.4	0.7	0.57	0	AM
5	1.00	0.06	0.56	1.00	0.08	59	7.4	0.7	0.55	0	AM
6	1.10	0.07	0.60	0.98	0.08	59	7.5	0.7	0.65	0	KD
7	1.00	0.06	0.61	1.00	0.07	59	7.5	0.8	0.59	0	KD
8	1.00	0.07	0.58	0.94	0.07	58	7.5	0.7	0.62	0	KD
9	0.95	0.06	0.57	0.94	0.08	58	7.4	0.7	0.58	0	AM
10	0.97	0.06	0.59	0.93	0.09	58	7.5	0.7	0.61	0	AM
11	1.00	0.05	0.66	1.00	0.07	57	7.7	0.7	0.63	0	KD
12	1.10	0.06	0.58	0.95	0.06	55	7.6	0.8	0.57	0	AM
13	0.97	0.06	0.55	0.94	0.08	55	7.5	0.7	0.55	0	AM
14	0.92	0.06	0.60	0.93	0.07	55	7.5	0.8	0.58	0	AM
15	1.00	0.06	0.59	0.96	0.07	54	7.5	0.8	0.57	0	AM
16	1.00	0.06	0.59	0.98	0.08	54	7.5	0.8	0.60	0	KD
17	1.00	0.06	0.54	0.86	0.08	54	7.7	0.7	0.58	0	KD
18	0.96	0.07	0.54	0.90	0.09	53	7.6	0.7	0.57	0	AM
19	0.98	0.08	0.56	0.91	0.09	54	7.6	0.7	0.57	0	AM
20	0.99	0.07	0.57	0.92	0.09	54	7.6	0.7	0.59	0	KD
21	0.95	0.08	0.53	0.80	0.08	56	7.6	0.7	0.63	0	KD
22	0.98	0.07	0.53	0.93	0.09	54	7.7	0.8	0.62	0	KD
23	1.20	0.06	0.60	0.86	0.08	56	7.7	0.6	0.60	0	CT
24	1.00	0.07	0.54	0.99	0.09	56	7.7	0.8	0.56	0	CT
25	1.00	0.07	0.59	0.88	0.10	56	7.7	0.8	0.55	0	AM
26	1.10	0.07	0.57	0.92	0.09	56	7.7	0.8	0.55	0	AM
27	0.98	0.08	0.57	0.89	0.09	57	7.8	0.6	0.51	0	CT
28	0.96	0.07	0.46	0.76	0.09	55	7.7	0.7	0.53	0	CT
29	1.00	0.07	0.54	0.85	0.08	56	7.6	0.8	0.58	0	CT
30	0.98	0.07	0.51	0.88	0.08	56	7.6	0.8	0.57	0	RC
31											
AVG	1.01	0.07	0.56	0.93	0.08	57	7.6	0.7	0.58	0	
MAX	1.20	0.09	0.66	1.00	0.10	61	7.8	0.8	0.65	0	
MIN	0.92	0.05	0.46	0.76	0.06	53	7.4	0.6	0.51	0	

RESPONSIBLE OPERATOR IN-CHARGE, IEPA LICENSE # 84789479

ALAN E. STARK
COORDINATING ENGINEER

DATE _____

DUPAGE WATER COMMISSION LABORATORY BENCH SHEET
MONTHLY REPORT FOR DECEMBER 2019

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	PO ₄ mg/l	P.A.C. LBS/MG	ANALYST INT
1	1.02	0.06	0.52	0.90	0.08	56	7.6	0.8	0.56	0	RC
2	1.05	0.06	0.57	0.87	0.09	56	7.7	0.8	0.56	0	CT
3	1.19	0.07	0.55	0.87	0.10	55	7.7	0.8	0.47	0	CT
4	0.99	0.07	0.50	1.00	0.08	55	7.7	0.8	0.51	0	RC
5	1.13	0.06	0.50	0.89	0.08	55	7.7	0.7	0.50	0	RC
6	1.05	0.07	0.53	0.96	0.08	55	7.6	0.8	0.49	0	RC
7	1.02	0.07	0.51	0.88	0.08	56	7.7	0.8	0.54	0	CT
8	1.17	0.06	0.58	0.94	0.08	55	7.7	0.8	0.60	0	CT
9	1.08	0.07	0.51	0.92	0.07	56	7.6	0.8	0.55	0	RC
10	0.98	0.07	0.54	0.92	0.07	55	7.7	0.7	0.52	0	RC
11	1.64	0.07	0.64	0.96	0.08	56	7.7	0.7	0.52	0	CT
12	1.05	0.11	0.69	1.11	0.10	56	7.6	0.8	0.53	0	CT
13	1.02	0.08	0.54	1.05	0.11	55	7.6	0.7	0.58	0	RC
14	1.00	0.07	0.58	0.93	0.10	58	7.7	0.8	0.63	0	RC
15	1.18	0.07	0.55	0.94	0.08	56	7.7	0.8	0.59	0	RC
16	1.05	0.07	0.47	0.95	0.08	54	7.7	0.7	0.54	0	CT
17	1.10	0.08	0.45	0.89	0.11	54	7.6	0.8	0.47	0	CT
18	1.05	0.08	0.46	1.00	0.11	55	7.7	0.8	0.55	0	RC
19	1.08	0.08	0.55	1.05	0.09	54	7.7	0.7	0.50	0	RC
20	1.03	0.07	0.46	1.03	0.09	55	7.6	0.8	0.51	0	RC
21	1.00	0.07	0.50	0.97	0.08	55	7.6	0.8	0.52	0	AM
22	1.10	0.07	0.52	0.94	0.09	53	7.5	0.7	0.48	0	AM
23	1.12	0.08	0.46	1.04	0.09	54	7.6	0.9	0.52	0	RC
24	1.05	0.07	0.48	1.05	0.08	53	7.7	0.8	0.48	0	RC
25	1.10	0.08	0.50	0.96	0.08	53	7.6	0.8	0.50	0	AM
26	1.00	0.07	0.51	0.94	0.08	53	7.6	0.9	0.51	0	AM
27	1.00	0.08	0.48	0.90	0.09	53	7.6	0.8	0.51	0	AM
28	1.00	0.07	0.52	0.91	0.08	53	7.7	0.8	0.52	0	KD
29	1.10	0.07	0.56	0.81	0.09	54	7.7	0.8	0.59	0	KD
30	1.00	0.08	0.51	0.83	0.09	53	7.6	0.7	0.52	0	AM
31	1.10	0.08	0.48	0.90	0.09	53	7.6	0.9	0.53	0	AM
AVG	1.08	0.07	0.52	0.95	0.09	55	7.6	0.8	0.53	0	
MAX	1.64	0.11	0.69	1.11	0.11	58	7.7	0.9	0.63	0	
MIN	0.98	0.06	0.45	0.81	0.07	53	7.5	0.7	0.47	0	

OPERATOR IN RESPONSIBLE CHARGE, IEPA LICENSE #84789479