



## Technical Advisory Committee

### The Centre at Elgin

(East Conference Room)

100 Symphony Way, Elgin

September 25, 2018

### Meeting Minutes

Present: Pete Wallers, Chairman representing MWCOG; Jeff Freeman, EEI; Walt Kelly, Illinois State Water Survey; Daniel Abrams, Illinois State Water Survey; Nora Beck, CMAP; Jerry Elliott, Sugar Grove Water Township Authority; Dan Nagel, Sugar Grove Water Township Authority; Wes Cattoor, IDNR-OWR; Tim Wilson, City of St. Charles; Dave Siegel, Elgin Sustainability Commission; Natalie Karney, Village of South Barrington; Tim Zasada, Village of Oswego; Matt Asselmeier, Kendall County; Derek Hiland, DeKalb County; Jodie Wollnik, Kane County; Paul Schuch, Retired Kane County; Don Zelinga, Robinson Engineering; Allison Neubauer, IISG; Joe Munder, City of West Chicago; Bob Kay, USGS; Dave Schumacher, City of Aurora; Danielle Gallet, MPC; Mike Palmer, City of McHenry and Angie Smith, EEI.

Pete Wallers called the meeting to order at 10:03 A.M.

**Welcome, Roll Call and Introductions:** Pete (MWCOG) welcomed everyone to the meeting. Introductions were given by those present.

**Agenda Changes and Announcements:** None at this time.

**Approval of July Meeting Minutes:** Derek (DeKalb) made a motion. Nora (CMAP) seconded. All in favor minutes approved.

**General Discussion on Current Water Topics in the NWPA Area:** Jerry (SGWTA) looking forward to seeing the library water panels that have been submitted.

**Presentation: *Update and Discussion on Model Results for Sustainable Yield of the Deep Aquifers and Chloride Mitigation in Shallow Aquifers, Daniel Abrams (ISWS):*** Daniel is presenting this presentation prepared by Devin Mannix from ISWS. The presentation will cover similar topics as discussed at the last meeting. Discussion was had amongst the group regarding an increase in chloride concentration in some wells in the Aurora area. Jodie (KC) commented that there is a well in Batavia that is linked to the Aurora well too. Walt (ISWS) commented that this would be a good study to revisit as they had done a study about 10-15 years ago in this area.

What is sustainable? Traditional estimates of sustainable yield have included flow from recharge outside NE Illinois – 47-59 MGD.



Three metrics: Maximum Sustainable Leakage: a.) Methodology: in the groundwater flow model, setting heads to 200 ft. above the top of the Cambrian-Ordovician and calculate vertical leakage. B) Benefit: conservative approach – sustainability is determined only by water that enters within the County, c) Problem: ignores the horizontal flow component, which is reality in NE Illinois and not going away → This method is unrealistic

Second approach: Sustainable Yield: a) methodology: using current gradients, sum the vertical and horizontal inflow/outflow of the sandstone. Horizontal inflow is limited to water originating from natural recharge sources; b) benefit: most grounded in reality (based off of current pumping conditions and gradients); c) problem: reducing demands to this value will also reduce horizontal inflow (Hence value does not truly represent a sustainable withdrawal rate)

Third approach: Safe Yield: a) methodology: assign to the model withdrawals such that there are not simulated changes in storage (thus stable water level conditions); b) benefit: solution ensures that the optimized distribution of pumping will capture the safe yield; c) problem: this approach assumes a pumpage distribution that does not match current demands. It also includes flow from the deep basin with undesirable water quality.

Using these three approaches they have compared County by County – Cook and DuPage; Grundy; Kane; Kendall; Lake; McHenry; Will. Depending on the methodology some of the results don't show a big difference.

Daniel (ISWS) stated that he has confidence in the regional numbers, but at the County level it gets harder to determine the sustainable yield at this point.

Future work: a) implement recommendations from NWPA TAC committee; b) only the maximum sustainable leakage accounted for reductions in natural groundwater discharge. This needs to be applied to the other two approaches as well; c) presentation at GSA in November and development of a manuscript in Winter 2018-2019.

Danielle (MPC) suggested having some case studies of some communities within these Counties to help illustrate the findings. Pete (TAC) as far as setting a conservation ordinance it would be better to set it regionally instead of County by County. Daniel (ISWS) stated that there are not political boundaries within the aquifers. Trying to establish and verify the old 1965 MGD number. Really all three methods have flaws when looking at it County by County. The committee decided that it would be best to continue to look at it regionally in lieu of County by County. Danielle (MPC) agreed, but also threw out that County by County could come into play with land use planning, etc.

Further discussion was had amongst the group in regard to the definition of sustainability and putting a targeted timeline or a planning horizon. One of the goals is to ultimately have a journal article that can be a reference or a publication for these values. The way this information is explained is going to be critical. Will keep the chloride slides for a future meeting.

**Sensible Salting Committee (SSC) (Update):** Pete (TAC) gave a brief update on the status of the committee. A table of contents has been prepared and people have been assigned different sections – a copy is attached in your packet today. Targeting October for first draft deadlines. The next committee meeting is scheduled for Oct. 15<sup>th</sup> at 3:30 PM. Tim (SC) suggested looking at the manual that was prepared by Connie Fortin from Minnesota.



Also asked about carry over to the wastewater side; he mentioned that the Fox River Study Group and other agencies have been discussing this as well.

**Illinois Indiana Sea Grant (IISG) (Update):** Allison (IISG) distributed a write-up/summary on creating a brochure for buffalo grass which has now progressed to warm vs. cool season grasses. Will send a digital version as well to share with the group.

**CMAP (Update):** Nora (CMAP) announced that the draft plan for ONTO2050 will be going to the board on Oct. 10<sup>th</sup> with a party in Millennium Park to follow. The second update is in regards for the Annual Call for LTA projects – the call is open. Applications are due Oct. 26<sup>th</sup>. She also reported that they are working with some of the folks in the Joliet area and giving them the updated numbers. Will give the demand forecast to Daniel (ISWS) so that it can be integrated into the models.

**ISAWWA (Update):** Jeff (EEI/ISAWWA) commented that the WUC is still working on the lead issue. SB3080 is still active and commented that it might come back in the Spring. The annual regulatory update is coming up on Nov. 1<sup>st</sup> here at the Centre.

**MPC (Update):** Danielle (MPC) stated that the ISAWWA Water Efficiency Committee is hosting a ½ day workshop on best practices and water loss control in Lombard on Wed., Oct. 31<sup>st</sup> from 8 AM – 12 PM.

They are also working with Will County and those communities in regard to their water issue. The Will County Governmental League (WCGL) has really stepped up. Partnering with the WCGL that is setting up a water committee, similar to NWPA. First meeting will be Nov. 8<sup>th</sup>. This will be at the regional level.

Drinking Water 1-2-3 Guide – an advisory group has been put together and they are considering an “academy” to carry this out over a two-year period. Considering doing another Water Forum Day like the one held in May 2016 in Aurora.

October 30<sup>th</sup> – MPC is moving forward a program to help build momentum related to the lead and drinking water issues. They will be hosting a roundtable event at the MPC office from 12 – 1:30 PM bringing in other municipalities related to the lead issue. Will send the link to Pete for forwarding to the group.

**ISWS (Update):** Walt (ISWS) mentioned that Grundy County has reached out to them to attend their water planning group meeting on Fri., Oct. 26<sup>th</sup>; they will be giving two presentations.

**IDNR (Update):** Wes (IDNR) reported that as of January 1<sup>st</sup> they have a new director – Loren Wobig. Dan Injerd has retired and has gone through a temporary contract with IDNR. The regulatory section is revising their rules for both public water and floodway construction.

No specific water supply planning funding, but they pulled the funding from somewhere else because it is important. Working with CMAP and ISWS in order to determine how to break that out. Within the next month drafting some agreements – two year contracts that will take us through June 30, 2020.



**Executive Committee Update:** Pete (MWCOG) reported that they are continuing work on updating the Strategic Plan.

**Other Business:**

**Moveable Drinking Water Display for Elgin Public Library:** Pete (MWCOG) will check with the library to see what changes they may have made and then get those to committee for review.

**Fox River Implementation Plan:** Nothing at this time.

**IDPH:** Pete (MWCOG) stated that Jeff already covered that in the ISAWWA update.

The next meeting will be held on October 23, 2018 at the Centre at Elgin.

The meeting was adjourned at 12:03 PM.

Submitted by \_\_\_\_\_ Angie Smith, EEI