# GROUNDWATER WORKSHOP #1

For municipal leaders of Allegan County



### Acknowledgements

We appreciate your continued support.





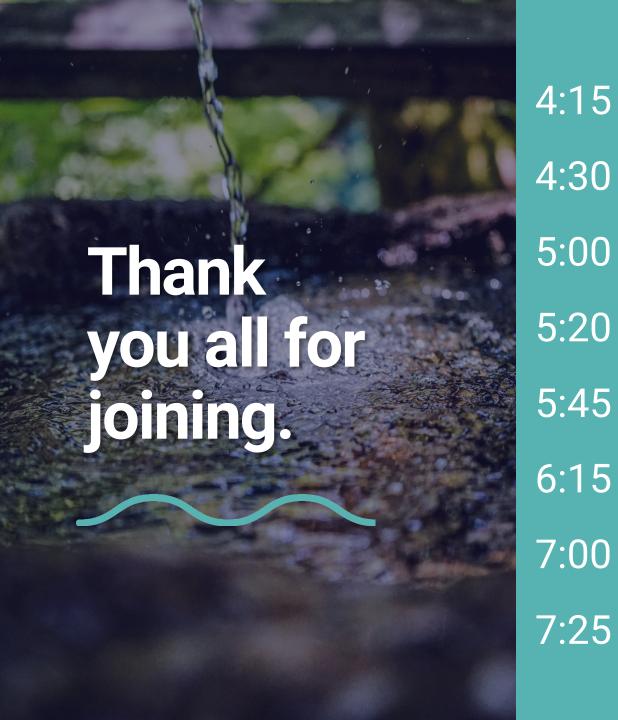


#### **Groundwater Study Work Group:**

- Tom Kunetz, Chair, Community Representative
- Elizabeth Binoniemi-Smith, Tribal Representative
- John Curtis, Community Representative
- Zachary Curtis, Consultant
- Jaclyn Hulst, Community Representative
- Dean Kapenga, County Commissioner Representative

#### **Board of Commissioners:**

- Jim Storey, Chair
- Dean Kapenga, Vice-Chair
- Mark DeYoung, Commissioner
- Gale Dugan, Commissioner
- Scott Beltman, Commissioner
- Robert J. Sarro, County Administrator
- Ruth Kline-Robach, Academic Representative
- Chad Kraai, Well Driller
- Brad Lubbers, Agricultural Representative
- Brian Talsma, Conservation District Representative
- Doug Sweeris, Municipal Water Supply Representative



Welcome & Overview of the Process

The ABC's of Groundwater

Areas of Concern and Water Quality Risk

Groundwater Use and Future Demand

Break / Dinner Served

Allegan County Groundwater Research Q&A Panel

Group Discussion

Next Steps

## **Meet our Speakers**

Randy Rapp, RS, Allegan County HEALTH SERVICES MANAGER



Dan Whalen, PE, Williams & Works HYDROGEOLOGICAL ENGINEER



Maleah Rakestraw, PLA, Williams & Works MEETING FACILITATOR



Jim Storey, Allegan County CHAIR OF THE BOARD OF COMMISSIONERS



Tom Kunetz, Allegan County Groundwater Study Work Group

CHAIR, COMMUNITY REPRESENTATIVE



Zachary Curtis, Ph.D., Hydrosimulatics Inc.

**HYDROGEOLOGIST** 



Rob Sarro, Allegan County COUNTY ADMINISTRATOR





Allegan County hosts an informational groundwater meeting to share the results of the Ottawa County Groundwater Study.

The Phase 1 Groundwater
Study is initiated to assess
the general health of the
groundwater resource.

The Phase 1 Study is completed and findings are presented to the County and Local Units.





The Ad-Hoc Groundwater Study Workgroup is established.

The Phase 2 Groundwater Study is initiated to identify sites of contamination. The Phase 2 Study is completed and results are presented to the Workgroup and Board of Commissioners.

Efforts to conduct a Groundwater Strategic Plan kick-off.

A Groundwater
Assessment Report
(GAR) is drafted as
part of the County's
Groundwater Strategic
Plan process.



## The GAR

GROUNDWATER ASSESSMENT REPORT

## Filled knowledge gaps from the Phase 1 & Phase 2 Studies:

- Expanded the Groundwater Protection Area Delineation
- Identified the types of contamination for the previously identified sites of concern
- Assigned values for site risks to drinking water



# The GAR

GROUNDWATER ASSESSMENT REPORT

#### Provided new research:

 Developed a county-wide Groundwater Risk Map

 Projected groundwater demand & future use

All GAR information is presented in a digestible and user-friendly report.

