

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance.

SUMMARY OF THE ALLEGAN COUNTY GROUND-WATER SURVEY RESULTS

LOCAL APPROACH

2/4/2021

HISTORY RECAP

- DECEMBER 2019; THE BOARD OF COMMISSIONERS AUTHORIZED PUBLIC HEALTH TO FULLY SCOPE A GROUND WATER STUDY
- JANUARY & FEBRUARY 2020; PREPARE DOCUMENTS FOR THE BOARD OF COMMISSIONERS AND COUNTY ADMINISTRATION
- MARCH 2020; THE BOARD OF COMMISSIONERS APPROVES THE GROUND WATER STUDY PROPOSAL PHASE 1
- APRIL – DECEMBER 2020; MAGNET 4 WATER GROUND WATER STUDY (BIG PICTURE APPROACH)
- OCTOBER – DECEMBER 2020; SEND AND COMPILE GROUND WATER SURVEY (LOCAL PICTURE APPROACH)

SURVEY – METHODS OF DEVELOPMENT

- THE ALLEGAN COUNTY HEALTH DEPARTMENT (ACHD) WORKED WITH RESEARCHERS TO DEVELOP A COMPREHENSIVE SURVEY FOR THE LOCAL APPROACH TO THE GROUND WATER STUDY
- THE ACHD RECEIVED INPUT FROM:
 - MAGNET FOR WATER
 - JOHN YELICH-MICHIGAN GEOLOGICAL SURVEY
 - HEALTH OFFICER
 - ENVIRONMENTAL HEALTH TEAM
- THE QUALTRICS SURVEY PLATFORM WAS USED TO COMPILE DATA

SURVEY DISTRIBUTION

- DISTRIBUTED OUT ON SEPTEMBER 1, 2020 – DECEMBER 31, 2020
 - FACEBOOK (HEALTH DEPARTMENT PAGE)
 - 2,645 PEOPLE REACHED
 - 197 ENGAGEMENTS
 - 111 CLICKED ON THE LINK
 - MICHIGAN STATE COOPERATIVE EXTENSION
 - WELL DRILLERS
 - SEPTIC SYSTEM INSTALLERS
 - BUSINESSES
 - LOCAL UNITS OF GOVERNMENT (TOWNSHIPS, CITIES, VILLAGES, FIRE DEPARTMENTS, BUILDING DEPARTMENTS)
 - APPROXIMATELY 3000 PRIVATE CITIZENS/BUSINESSES REACHED
 - TOTAL: APPROXIMATELY 120 COMPLETED

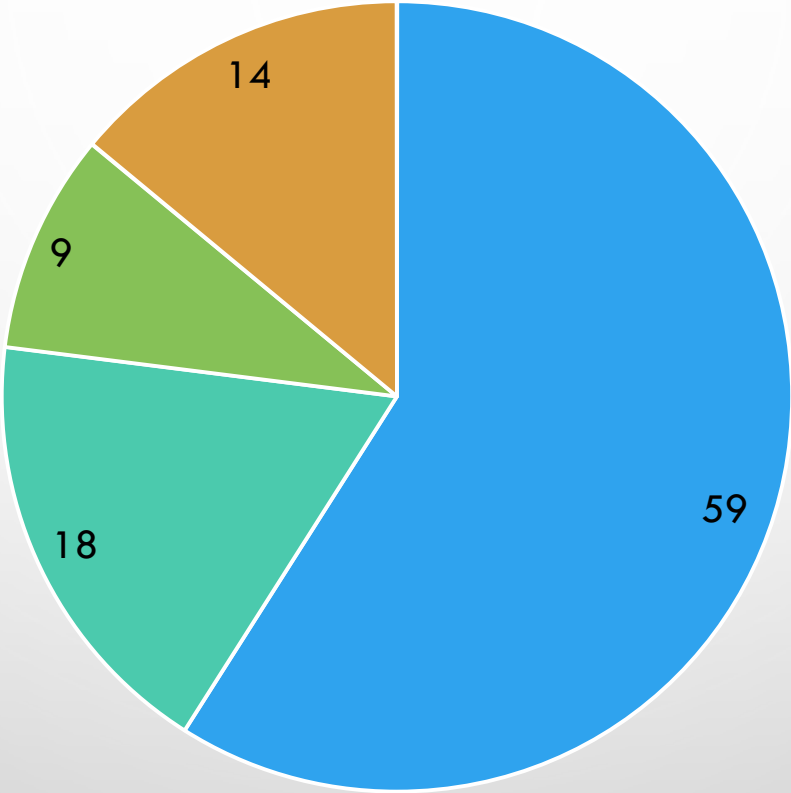
RESPONDENTS

■ PRIVATE CITIZEN

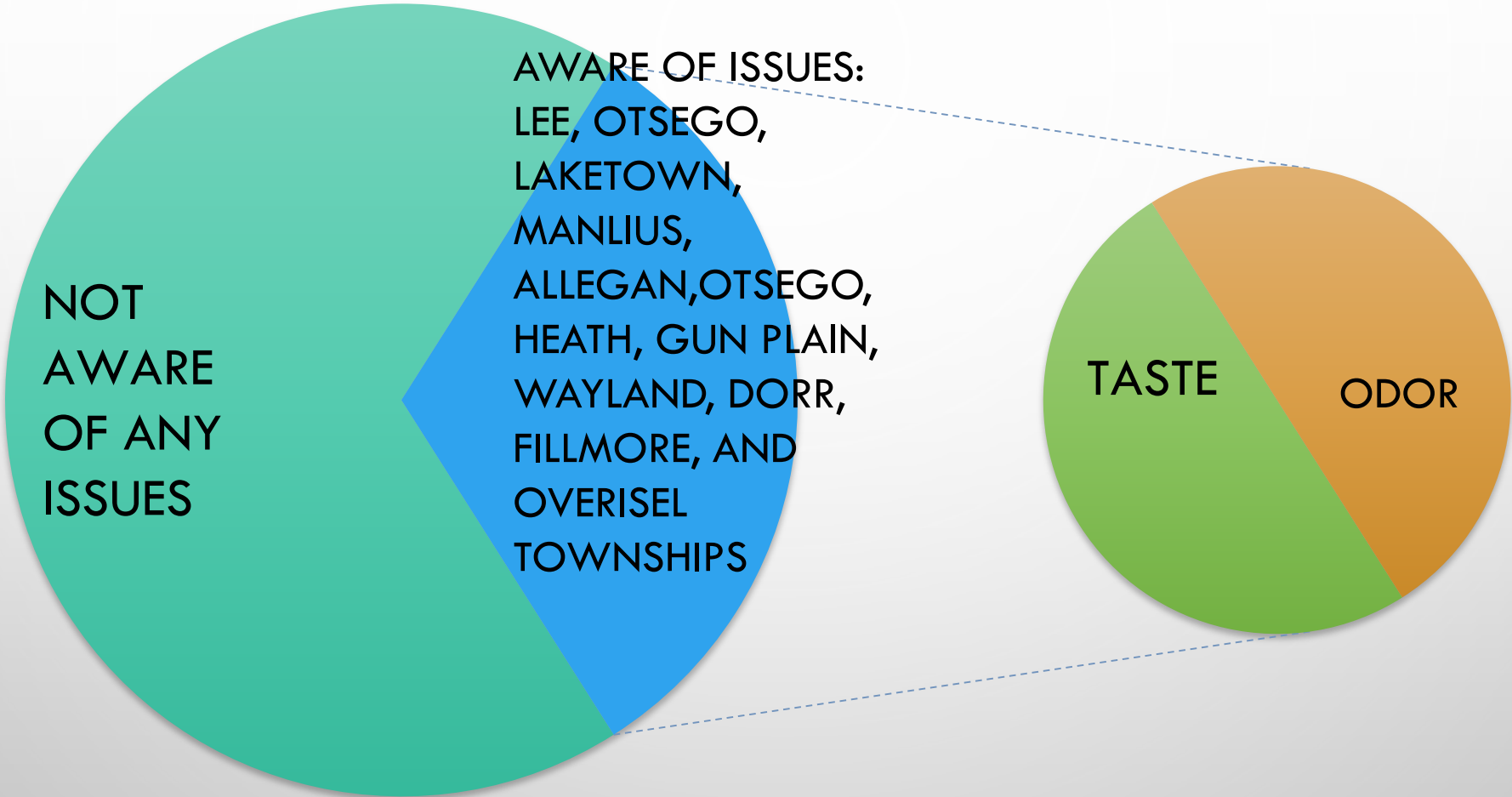
■ BUSINESS (Agriculture, Well Drillers, Restaurants, etc.)

■ GOVERNMENT (Townships, Fire Departments, etc.)

■ OTHER (Churches, Schools, etc.)



RESULTS: WATER QUALITY

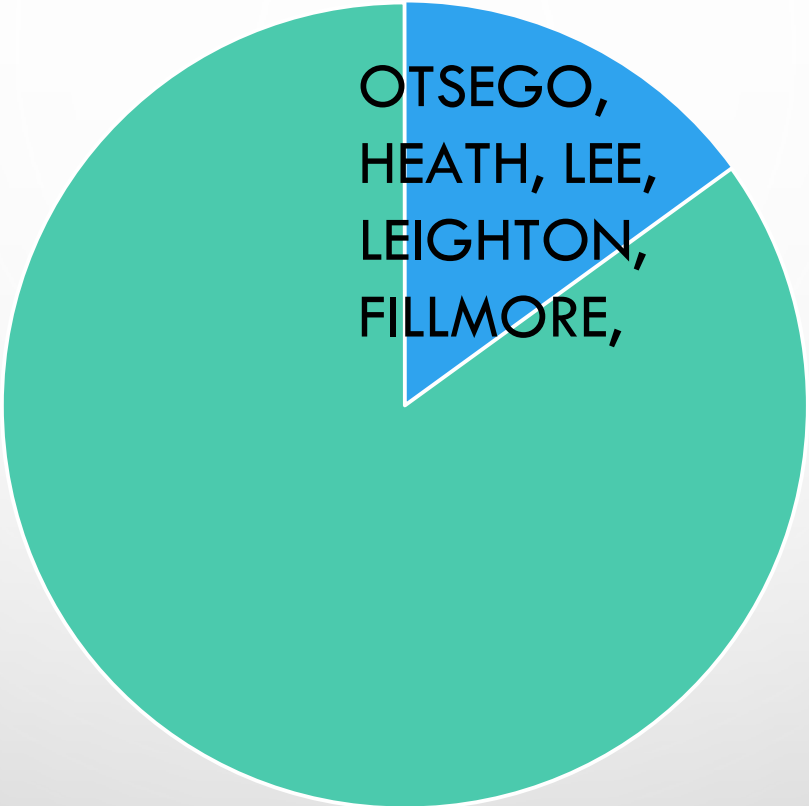


■ AWARE OF ISSUES ■ NOT AWARE OF ISSUES ■ TASTE ■ ODOR

WATER QUANTITY ISSUES

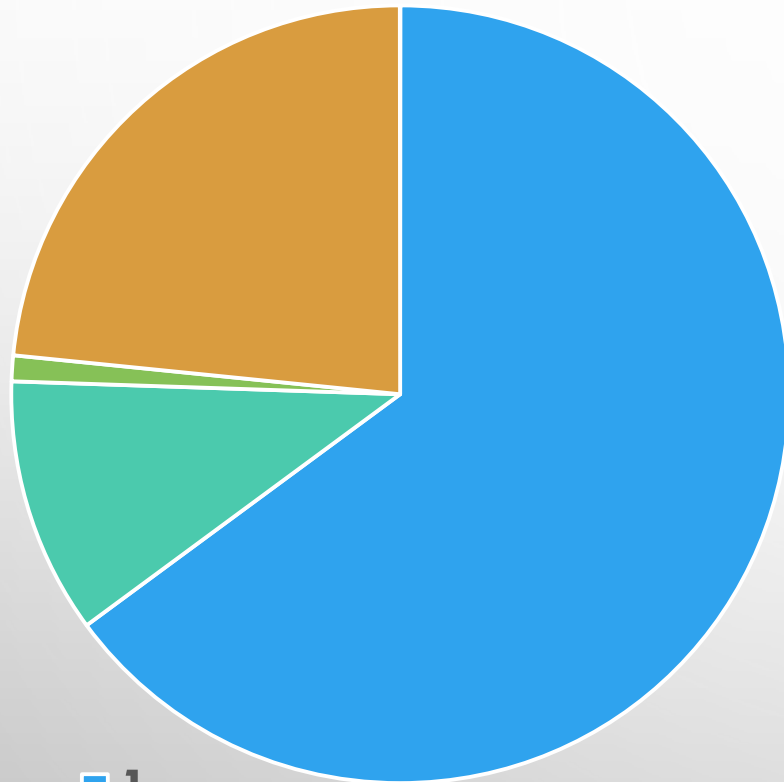
■ AWARE OF WATER QUANTITY ISSUES

■ NOT AWARE OF WATER QUANTITY ISSUES



WELL INFORMATION

NUMBER OF WELLS ON THE PROPERTY



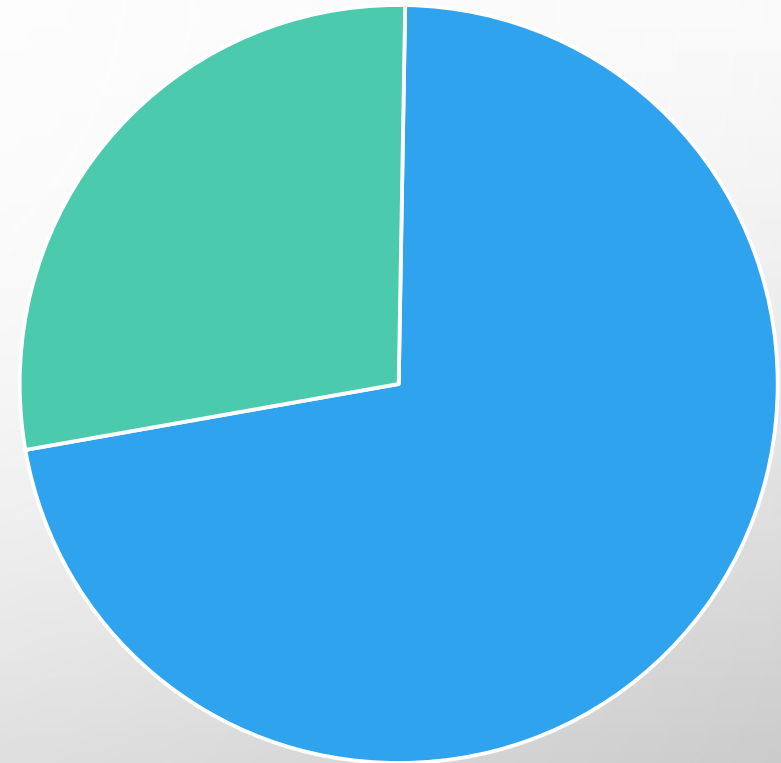
■ 1

■ 2 TO 4

■ MORE THAN 6

■ MUNICIPAL WATER SUPPLY

NUMBER OF WELLS USED FOR IRRIGATION



■ 1 TO 4 WELLS

■ DO NOT USE WELL FOR IRRIGATION

**MOST OF THE WELLS
ARE USED FOR
HUMAN
CONSUMPTION AND
NOT FOR IRRIGATION**

**40% OF THE
IRRIGATION WELLS
PUMP BETWEEN
2,000 TO 10,000
GALLONS/DAY
FOR 4 UP TO 9
MONTHS OF THE
YEAR**

INTERESTING FACTS

- **100%** SAID A SAFE AND SUFFICIENT WATER SUPPLY WAS IMPORTANT
- **71%** ARE NOT SURE IF THERE WILL BE ENOUGH WATER INTO THE FUTURE
- **17%** THINK ALLEGAN COUNTY WILL DEplete ITS GROUNDWATER SUPPLY WITHIN 25 - 200 YEARS
- **66%** DO NOT KNOW WHAT A “WELL HEAD PROTECTION AREA” IS
- **75%** OF THOSE DEVELOPING PLAN TO USE MUNICIPAL WATER
- **7%** ARE PLANNING ON A DEVELOPING IN ALLEGAN COUNTY IN THE NEXT 10 YEARS IN WAYLAND, PLAINWELL, HOPKINS & LAKETOWN TOWNSHIPS

ITEMS TO CONSIDER MOVING FORWARD

- EDUCATION WILL BE VERY IMPORTANT
 - CONTAMINATION AREAS
 - WELL HEAD PROTECTION AREAS
- CONTINUE INVESTIGATION OF CONTAMINATED AREAS (EGLE)
- EXPAND THE MUNICIPAL WATER IF DEVELOPMENT IS IMPORTANT