



Food Safety & Animal Health (FSAH)

Michigan Department of Agriculture & Rural Development (MDARD)

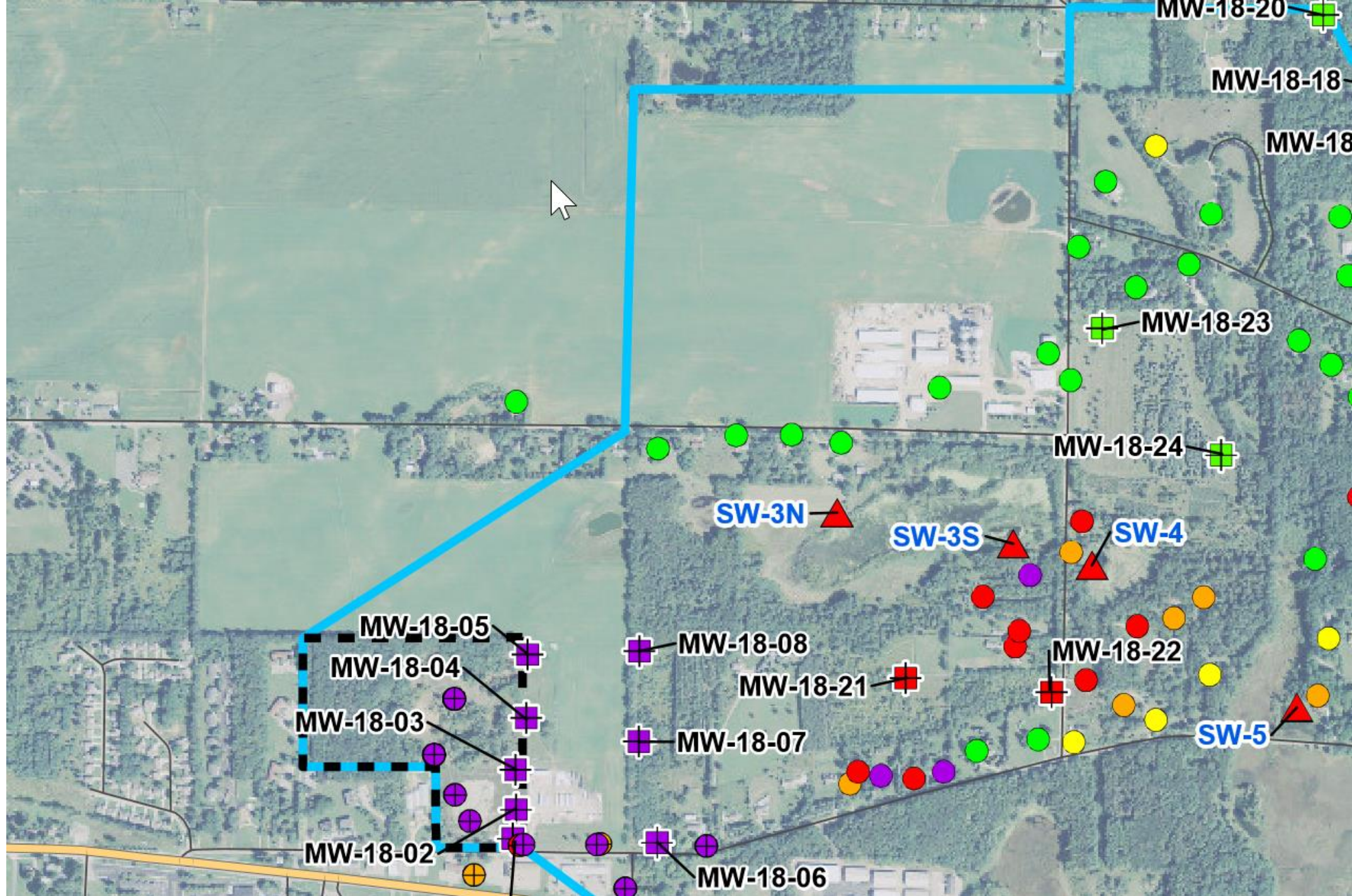
September, 2019

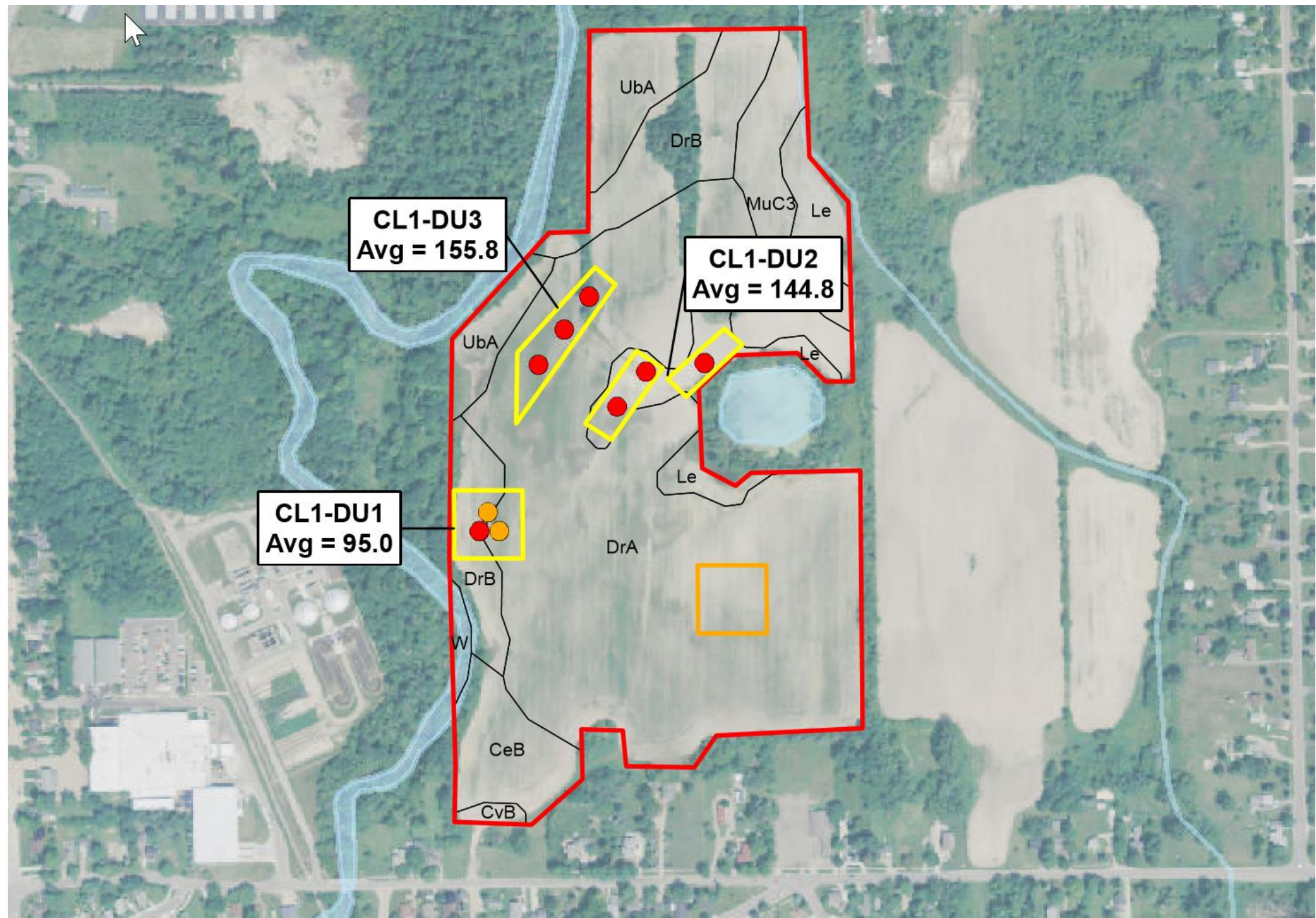
Kevin Besey, Public Health Project Manager, MDARD

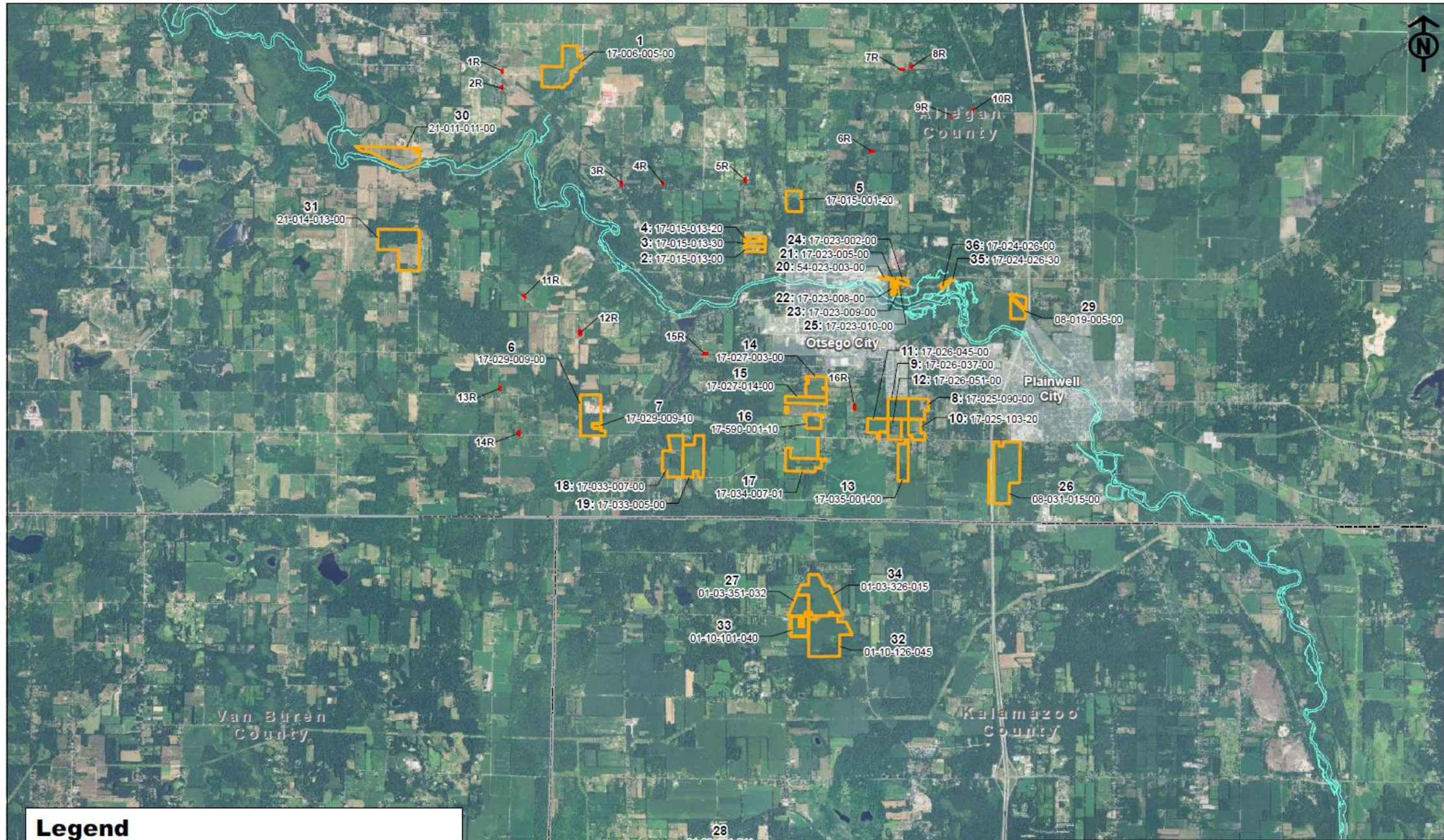
517-582-1156 | beseyk@michigan.gov

Current Methods of Finding PFAS AG Sites

- Ag Facility at Identified Site
- Bio-Solids Study
- Public Water Supply Testing







Legend

- Road Sampling Location
- Parcel Boundary
- County Boundary
- River Boundary

Parcel Label

Map No. **28**
Parcel No. 01-29-101-011

Road Sample Label

Map No. **1R**

Service Layer Credits: Allegan County, Kalamazoo County, USDA
Farmer Service Agency 2016

Allied Paper, Inc. / Portage Creek / Kalamazoo River Superfund Site

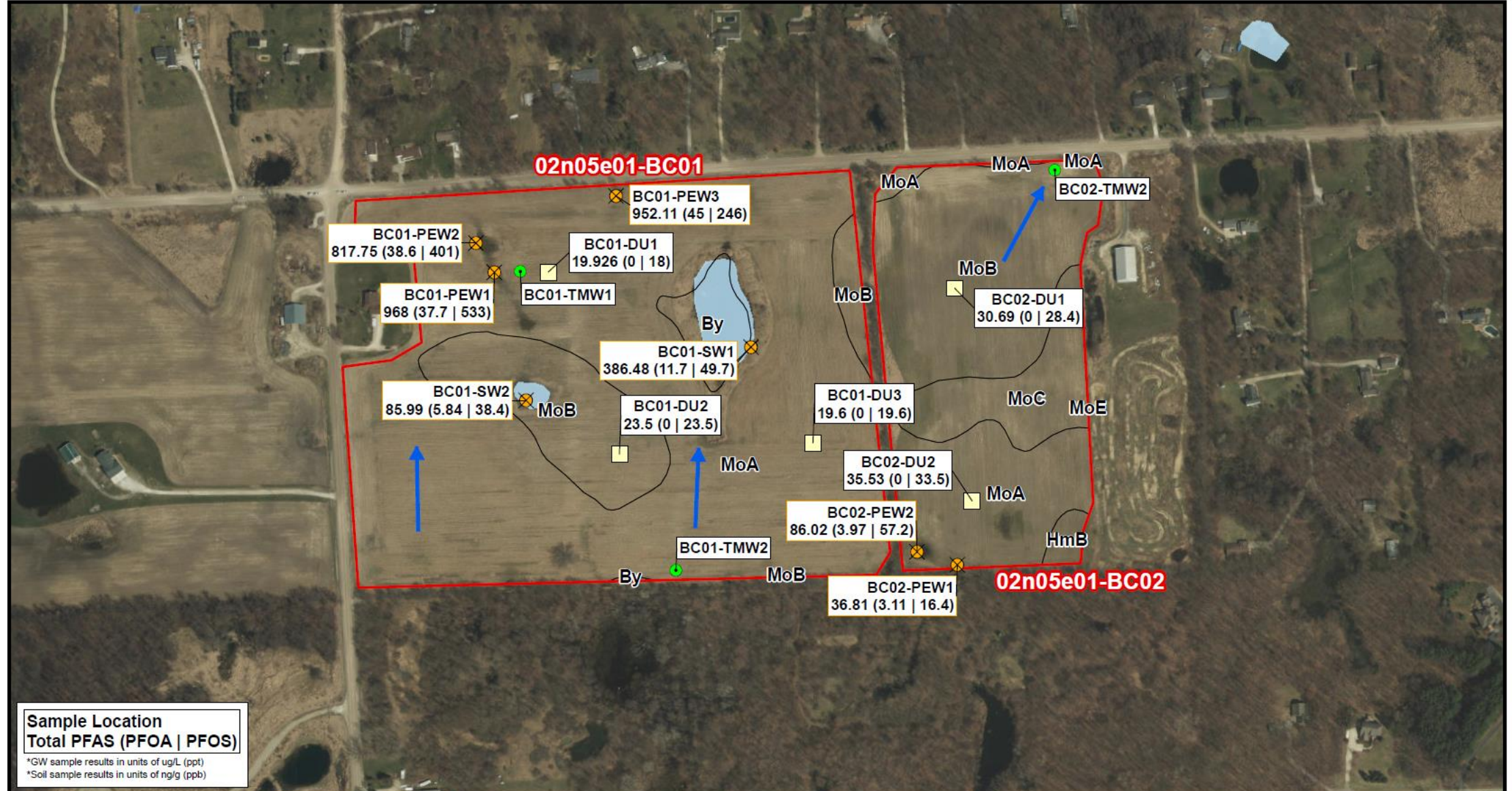
Site Overview Map
Otsego Area Study

**CDM
Smith**

555 17th Street
Suite 500
Denver, CO 80202
Main: 303-963-2300

Prepared By
A. Wagner
Date
02/27/2019

Figure
1



Sample Location Total PFAS (PFOA | PFOS)

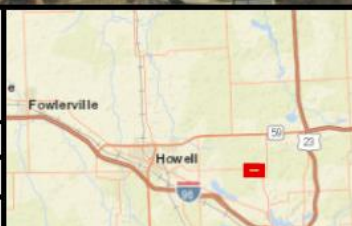
*GW sample results in units of ug/L (ppt)
*Soil sample results in units of ng/g (ppb)

AECOM

Drawn: MK Date: 7/24/2019

Approved: DB Date: 7/24/2019

Project #:



Legend

- Biosolids Application Field
- 50' x 50' Sampling Grid
- Soil Type
- ✕ Surface Water Sample
- Proposed Temporary Monitoring Well
- ➔ Approximate GW Flow Direction

0 150 300 450 600 750 1,500 Feet



BIOSOLIDS APPLICATION FIELDS
02n05e01-BC01 & 02n05e01-BC02
SAMPLING RESULTS

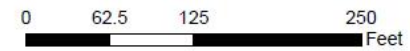
DRAFT

WIXOM, MI

LEGEND

- RESIDENTIAL WELL LOCATION
- WELLOGIC WELL LOCATION
- TYPE I WELL LOCATION
- IRRIGATION WELL LOCATION
- PROPOSED STUDY AREA
- DIRECTION OF GROUNDWATER FLOW
- PFOS+PFOA ANALYTICAL RESULT

NOTES:
 1. ND = PFAS Not Detected.
 2. Results are reported in parts per trillion (ppt).
 3. Municipality water supply sampled October 4, 2019.
 3. Well locations based on municipal water billing information provided by the Village of Constantine and Wellogic.
 4. Groundwater flow based on a composite of 5,550 well logs.



AERIAL PHOTO SOURCE: ArcGIS

VILLAGE OF CONSTANTINE
 PFAS SAMPLING PLAN
 SAINT JOSEPH COUNTY
 T7S R12W SECTION 25

PROPOSED SAMPLING PLAN
 DRAFT

E. BAYS	 ENVIRONMENTAL ENERGY & LAND DIVISION	ORIGINAL DATE: August 12, 2019
Kalamazoo District		REVISION DATE:
Remediation and Redevelopment Division		FIGURE 1

