

	METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI FINAL MEETING SUMMARY			DIN:							
				Project ID:	11140010						
				Page:	1 of 3						
Project Name: SSO 700 Integrated Watershed Action Plan											
Meeting Date:	6/12/2015	Meeting Time:	7:30 AM	Location:	CH2M HILL Office						
Meeting Manager: Dave Meyer											
Scribe: Katie Bollmer			Timekeeper:								
Objective: Steering Committee Meeting This meeting of the SSO 700 Integrated Watershed Action Plan (IWAP) Steering Committee was to reiterate the role of the committee throughout the duration of the IWAP project and to bring the committee up to speed on the project status and the project work accomplished since the previous Steering Committee Meeting in February.											
Attendees (see attached sign-in sheet): <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> <u>Hamilton County/County Monitor</u> <ul style="list-style-type: none"> • Dave Meyer • Jeff Proctor • Brandon Vatter • Karen Ball • Brian Bohl, Soil & Water Conservation Dist. • Steve Johns, Planning & Development • Brian Wamsley, Planning & Development </td> <td style="vertical-align: top; width: 50%;"> <u>Watershed Jurisdictions</u> <ul style="list-style-type: none"> • Jeff Agricola, Springdale • Bob Ashbrock, Reading/CACC • Darrell Courtney, Reading • Richard Osgood, Sharonville • Gordon Perry, Blue Ash • Anthony Brown, Woodlawn • James Jeffers, Evendale • Jim Bothe, Evendale </td> </tr> <tr> <td style="vertical-align: top;"> <u>MSDGC</u> <ul style="list-style-type: none"> • Andy Spurgeon • Leisha Pica • Matt Spidare </td> <td style="vertical-align: top;"> <u>Other Entities</u> <ul style="list-style-type: none"> • Marianne Piekutowski, Ohio EPA • Bruce Koehler, OKI Regional Council of Governments • Kara Scheerhorn, Mill Creek Watershed Council of Communities (MCWCC) • Jen Eismeier, MCWCC • Marilyn Wall, Sierra Club • Melissa Johnson, Port of Greater Cincinnati • Julie Banner, Port of Greater Cincinnati • Eric Russo, Hillside Trust • Brandon Brummett, USACE Louisville </td> </tr> <tr> <td style="vertical-align: top;"> <u>CH2M</u> <ul style="list-style-type: none"> • Frank Duran • Don Cuthbert • Katie Bollmer </td> <td></td> </tr> </table>						<u>Hamilton County/County Monitor</u> <ul style="list-style-type: none"> • Dave Meyer • Jeff Proctor • Brandon Vatter • Karen Ball • Brian Bohl, Soil & Water Conservation Dist. • Steve Johns, Planning & Development • Brian Wamsley, Planning & Development 	<u>Watershed Jurisdictions</u> <ul style="list-style-type: none"> • Jeff Agricola, Springdale • Bob Ashbrock, Reading/CACC • Darrell Courtney, Reading • Richard Osgood, Sharonville • Gordon Perry, Blue Ash • Anthony Brown, Woodlawn • James Jeffers, Evendale • Jim Bothe, Evendale 	<u>MSDGC</u> <ul style="list-style-type: none"> • Andy Spurgeon • Leisha Pica • Matt Spidare 	<u>Other Entities</u> <ul style="list-style-type: none"> • Marianne Piekutowski, Ohio EPA • Bruce Koehler, OKI Regional Council of Governments • Kara Scheerhorn, Mill Creek Watershed Council of Communities (MCWCC) • Jen Eismeier, MCWCC • Marilyn Wall, Sierra Club • Melissa Johnson, Port of Greater Cincinnati • Julie Banner, Port of Greater Cincinnati • Eric Russo, Hillside Trust • Brandon Brummett, USACE Louisville 	<u>CH2M</u> <ul style="list-style-type: none"> • Frank Duran • Don Cuthbert • Katie Bollmer 	
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Topic	Discussion
Introductions	Dave Meyer (DM) led the introduction of the meeting and reviewed the background of the project. Staff from the consultant team, County Monitor, Hamilton County, MSDGC, municipalities, and other organizations attended. See attached for a copy of the meeting presentation slides.
Project Status and Schedule	Frank Duran (FD) reviewed the goal of the SSO 700 IWAP and the status of the project, including the project schedule. The project is currently focused on the Water Quality Data Collection Program and will be moving into Model Development. The project is on schedule.

Topic	Discussion
Status and Findings of Key Scope Items	<p>Katie Bollmer (KB) presented the status and findings from the key scope items of the project. The project team has met with 5 of the 14 political jurisdictions that comprise the SSO 700 IWAP study area, although these five jurisdictions comprise a majority of the land area of the study area. The team intends to talk or meet with the remaining political jurisdictions this summer.</p> <p>Two site visits were performed in March: (1) a visit to the SSO 700 Storage and Treatment Facility and (2) a tour of the watershed. Both site visits were intended to inform the hydraulic and water quality modeling.</p> <p>Since February, a significant amount of data has been collected for the SSO 700 IWAP. KB presented several maps summarizing the natural system and built system datasets that inform the characteristics of the study area. These datasets will be used in the development of the models and will be used in a future phase of the IWAP to identify and evaluate infrastructure solutions.</p> <p>FD presented the water quality model framework proposed for the SSO 700 IWAP. FD reviewed the status of the existing model components and the plan to develop and/or extend the models to the resolution necessary to achieve the IWAP project goals. Ultimately, the water quality model will be used at the end of Phase 1 of the IWAP project to characterize the sources of pollution, the relative contribution of each source as compared to each other through pie charts, and the response of watershed waterways to pollution.</p>
Water Quality Data Collection Program	<p>KB discussed the currently available water quality data. These data will be used to validate the water quality models and will also be used to develop the baseline condition. Because the intention of the SSO 700 IWAP modeling is to characterize the water quality response in the stream network to a wet weather event, it is necessary to collect additional water quality data focused specifically on wet weather events.</p> <p>The SSO 700 IWAP Water Quality Data Collection Program will involve the collection of samples at 31 locations throughout the study area:</p> <ul style="list-style-type: none"> • 12 In-stream locations • 5 Upstream Tributary Locations • 6 CSOs and SSOs • 7 Storm Outfall Locations • SSO 700 Storage and Treatment Facility Effluent <p>Samples will be collected during 3 dry weather events and 3 to 5 wet weather events from June through October of 2015.</p> <p>A dry weather event will be selected based on the following criteria: (1) no appreciable rain has occurred for 48 hours prior to the sampling and (2) the forecast does not include rain for at least 3 days. Samples will be taken at the 12 In-Stream Locations and the 5 Upstream Tributary locations during a dry weather event. Continuous sampling will also be performed at 4 locations for 3 to 5 days.</p> <p>A wet weather event will be selected based on the following criteria: (1) no rain has occurred for 48 hours prior to the event, (2) there's a 60% chance of rain that will cover the entire study area, and (3) at least 0.5 inch of rain is likely to fall. During a wet weather event, samples will be collected at each of the 31 sample locations at varying intervals. The intention is to capture the first flush effect, if one exists.</p> <p>Water samples will be analyzed at a laboratory for parameters which correspond to the likely causes of impacts to the stream network.</p>

Topic	Discussion
<i>Additional Next Steps</i>	<p>The next steps in Phase 1 of the SSO 700 IWAP study are the following:</p> <ul style="list-style-type: none"> • Complete meetings with political jurisdictions (Summer 2015). • Implement the water quality data collection program (June through October 2015). • Update, build, and calibrate the hydraulic and water quality models (July through December 2015). • Identify pollution sources & evaluate the collection system and waterway response (December 2015 through February 2016). • Develop a Summary Report (Early 2016).
<i>Meeting Discussion</i>	<ul style="list-style-type: none"> • Gordon Perry (Blue Ash) asked if the project team is working with ODOT to mitigate ODOT’s impact on the stream network. Blue Ash experiences significant runoff and erosion/sedimentation from Ronald Reagan Highway. FD, DM, and KB indicated that ODOT has representation on the Steering Committee, and the project team will be working with ODOT for opportunities to mitigate the impact of ODOT’s runoff. • Gordon Perry (Blue Ash) asked if Blue Ash should be pursuing pre and post construction monitoring of their planned stormwater BMPs. Karen Ball indicated that monitoring is a necessary component of stormwater BMPs to measure effectiveness and would be appreciated. • Bruce Koehler (BK) asked if inter-basin flow was considered (e.g., lawn watering, factory outputs, groundwater in the collection system). FD indicated that groundwater is accounted for in the collection system model, but the other inter-basin water sources that Bruce mentioned are not included in the project modeling effort. • Steve Johns asked how the Glendale WWTP will be addressed in the modeling. KB indicated that it would be a point source input to the water quality model. • BK indicated that several industrial sources along the Mill Creek in this area have significant discharges that should be considered. • BK asked if we have considered impacts of the Sharon Lake dam on the system. FD indicated that the project team was working with various agencies to take dam operation into account in the models. • Post-Meeting Discussion <ul style="list-style-type: none"> • Brian Wamsley wants to apply the i-Tree analysis for this study area. • Jeff Agricola indicated that sample location BC-002 is downstream of SSO 1047 and possibly another SSO. Project team may want to consider moving it. After review, the project team has decided to leave BC-002 where it is currently proposed. If it is determined that there is too much impact from the upstream SSO, the team will consider moving the sampling location after the first wet weather event. • Jeff Agricola indicated that a manhole just downstream of SSO 1048 also floods when SSO 1048 is flooding. • Brandon Brummett indicated that the USACE does not manage the Sharon Lake dam. This is likely managed by ODNR. He also indicated that the USACE can perform planning for any water-related activity. Also, work that MSDGC has their consultant perform that overlaps with USACE’s scope of work can be used as MSDGC’s “match” in the planning grant. • Representatives from Evendale requested that the team provide them potential meeting dates after the Independence Day holiday for the jurisdictional meeting.



PROJECT GROUNDWORK
your pipeline to clean water

Metropolitan Sewer District of Greater Cincinnati

Meeting Attendance Sheet

Project ID: 11140010

Page No.: 1 of 1

Subject: SSO 700 IWAP - Stakeholder Steering Committee Meeting

Meeting Date/Time: 6/12/2015 7:30 AM

Meeting Manager: Dave Meyer

Location/Room: CH2M Office

Name	Company	Phone	Email	Signature
FRANK DURAN	CH2M	378-4274	frank.duran@ch2m.com	
KATIE BOURMEN	CH2M	207-5579	KATIE.BOURMEN@CH2M.COM	
Andrew Spurgeon	MSDGC	244-3919	andrew.spurgeon@cincinnati-dc.gov	
Matt Spidare	MSD	557-7080	matth.spidare@cincinnati-dc.gov	
LEISHA PCA	MSD	244-3918	leisha.pca@cincinnati-dc.gov	
ANTHONY BOGUM	Village of WOODBURN	703-4641	Abogum@berrettalexander.com	
Brandon Vatter	HC Monitor	313-8139	brandon.vatter@hatchmott.com	
Jeff Proctor	HC Monitor	513 203 8386	jeffrey.proctor@hatchmott.com	
Richard Osborn	city of sherrinville	503-0033	rossos@cityofsherrinville.com	
MELISSA JOHNSON	Part of Grtr. Cincinnati	513.632.3837	mjohnson@cincinnati.gov	
Garion Farris	HCSUCD	772-7695	brion.farris@hcsucd.com	
Karen Ball	HAMCO. MSD	557 5978	Karen.ball@hamilton-co.org	
Bruce Kozler	OKI Regional Council of Gov'ts	513-619-7675	bkozler@oki.org	

SSO 700 INTEGRATED WATERSHED ACTION PLAN

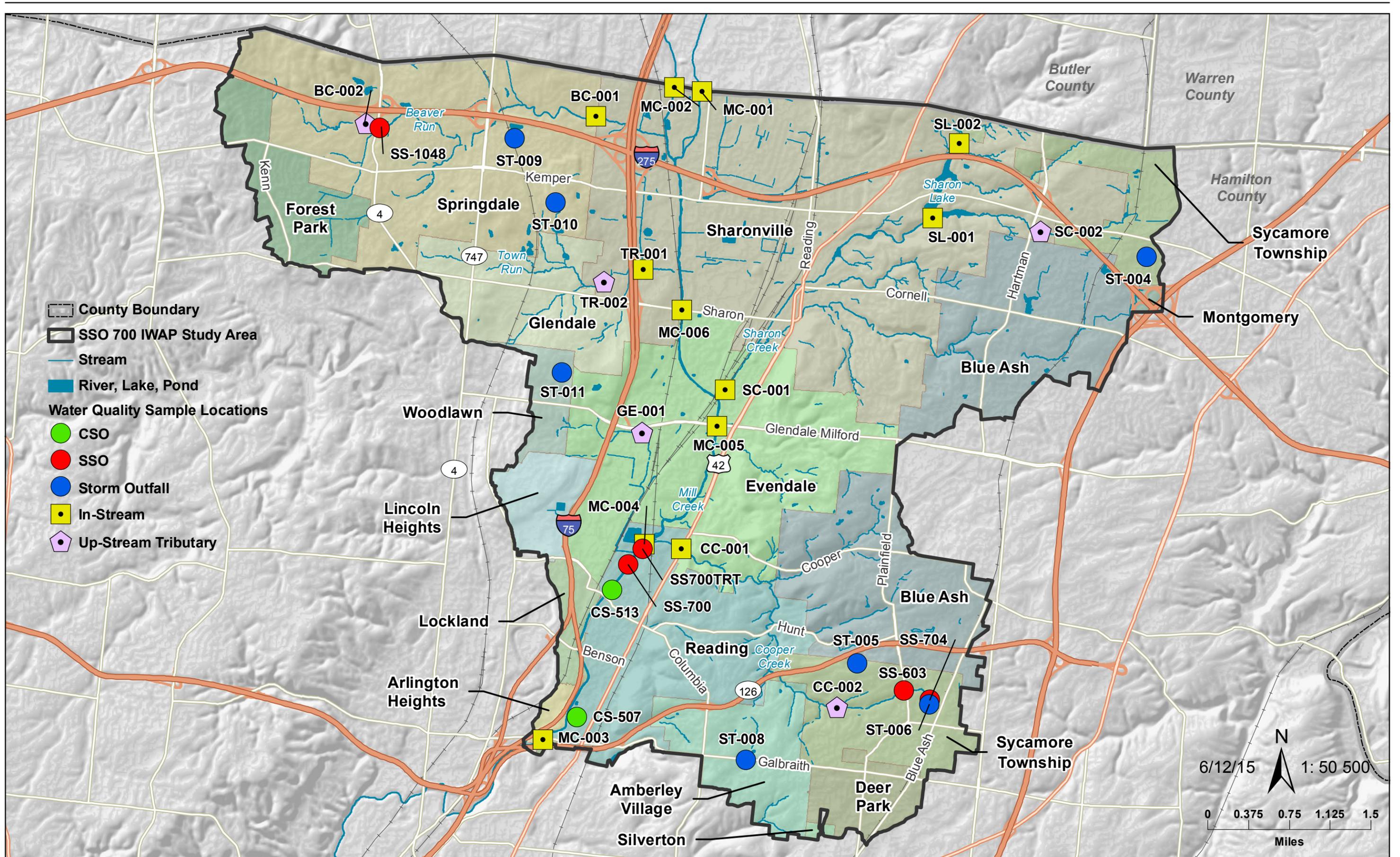
STEERING COMMITTEE MEETING

JUNE 12, 2015

7:30 AM to 8:30 AM

AGENDA

- SIGN-IN AND REFRESHMENTS (7:15 – 7:30)**
- I. WELCOME & INTRODUCTIONS (2 Min)**
 - II. STEERING COMMITTEE ROLE (3 Min)**
 - III. PROJECT STATUS AND SCHEDULE (10 min)**
 - IV. STATUS AND FINDINGS OF KEY SCOPE ITEMS (20 min)**
 - V. WATER QUALITY DATA COLLECTION (10 Min)**
 - VI. PLAN FOR THE NEXT SIX MONTHS (5 Min)**
 - VII. QUESTIONS (10 MIN)**



SSO 700 INTEGRATED WATERSHED ACTION PLAN

Steering Committee Meeting

June 12, 2015



CH2MHILL®

THANK YOU & WELCOME

- ▶ SSO 700 is the largest SSO in MSDGC's system.
- ▶ The currently planned gray solution for SSO 700 will cost the ratepayers in Hamilton County approximately \$230 million.
- ▶ We can save money and enhance our community through this integrated watershed planning effort.
- ▶ Your participation is critical to our collective success!



AGENDA

- ▶ Introductions/Role of Steering Committee
- ▶ Project Overview
- ▶ Update on Project Status and Schedule
- ▶ Status and Findings from Key Scope Items
 - ▶ Political Jurisdiction Meetings
 - ▶ Site Visits
 - ▶ Data Inventory
 - ▶ Water Quality & Collection System Models
- ▶ Next Steps: Water Quality Data Collection Program
- ▶ Questions

ROLE OF STEERING COMMITTEE

- ▶ Demonstrate diverse and balanced community-based project support.
- ▶ Provide critical input from the local perspective.
- ▶ Communicate with public and private stakeholders in your communities.
- ▶ Act as a sounding board for the IWAP Team as the eyes and ears of the community.
- ▶ Ensure that the final solution is not simply an engineering solution but meets the needs of the affected communities.
- ▶ Directly assist in the selection of the suite of projects that will comprise the watershed plan submitted to the regulators.

WHAT IS THE COMMITMENT?

- ▶ The commitment is expected to be no more than 4 hours per month.
- ▶ Involvement will be:
 - ▶ Meeting with the project team
 - ▶ Helping get people involved
 - ▶ Reviewing information provided to the steering committee
- ▶ Anticipate meetings once per quarter or semi-annually, as required.

PROJECT OVERVIEW

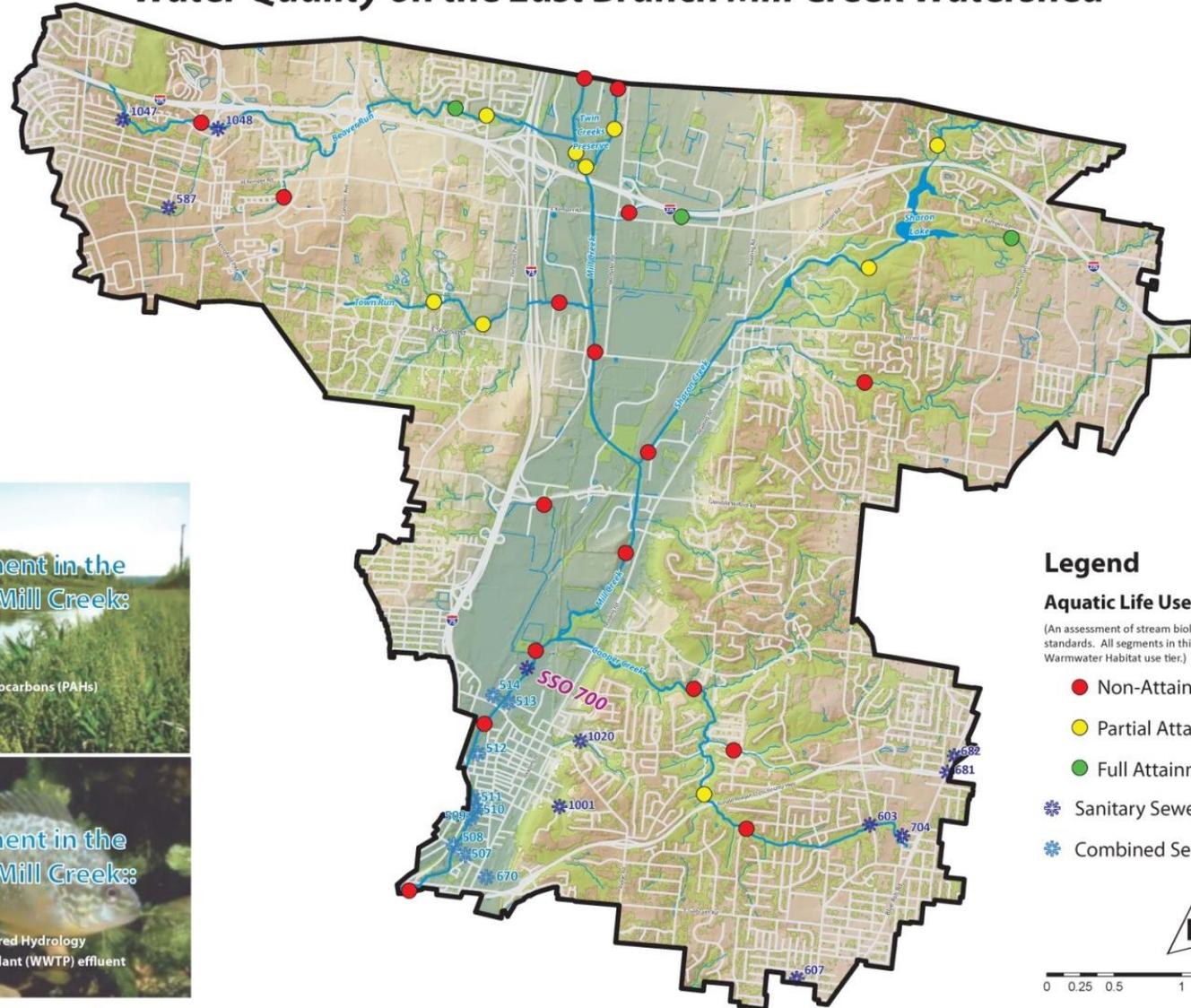


WATERSHED ISSUES

- ▶ 9 CSOs and 11 SSOs, including SSO 700
- ▶ Water quality and habitat impairment in the Mill Creek and its tributaries
- ▶ Sewer backup complaints
- ▶ Sewage surfacing or manholes overflowing
- ▶ Water ponding in streets
- ▶ Legacy dry weather pollutants



Water Quality on the East Branch Mill Creek Watershed



Causes of Non-Attainment in the East Branch Mill Creek:

- Sedimentation
- Nutrients
- Chlorides
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Dissolved Oxygen
- Habitat Alteration

Sources of Non-Attainment in the East Branch Mill Creek:

- Urban Runoff
- CSOs and SSOs
- Hydromodification / Altered Hydrology
- Waste Water Treatment Plant (WWTP) effluent

Legend

Aquatic Life Use Attainment (2011):

(An assessment of stream biological health using State water quality standards. All segments in this watershed are designated to meet the Warmwater Habitat use tier.)

- Non-Attainment
- Partial Attainment
- Full Attainment
- ✱ Sanitary Sewer Overflows
- ✱ Combined Sewer Overflows



Sources: Midwest Biodiversity Institute (MBI), "Biological and Water Quality Study of the Mill Creek and Tributaries", 2011. Cincinnati Area Geographic Information Systems (CAGIS).

PROJECT GOAL

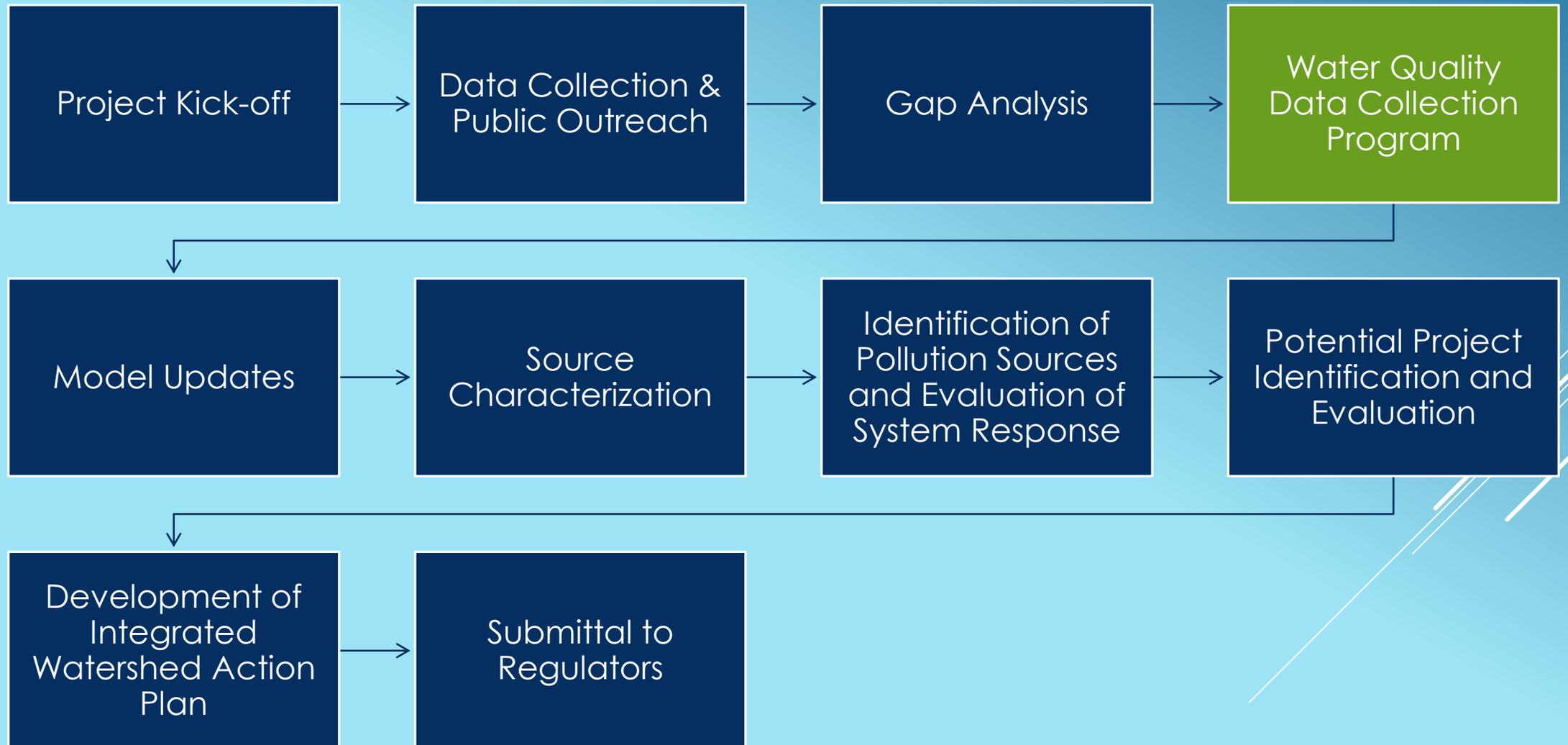
A Plan to maximize improvement to in-stream water quality, obtain regulatory approval, and advance the economic development and quality of life for local watershed jurisdictions through an optimized and affordable suite of gray, sustainable, and watershed controls.



UPDATE ON PROJECT STATUS AND SCHEDULE



WHERE WE ARE IN THE IWAP PROCESS

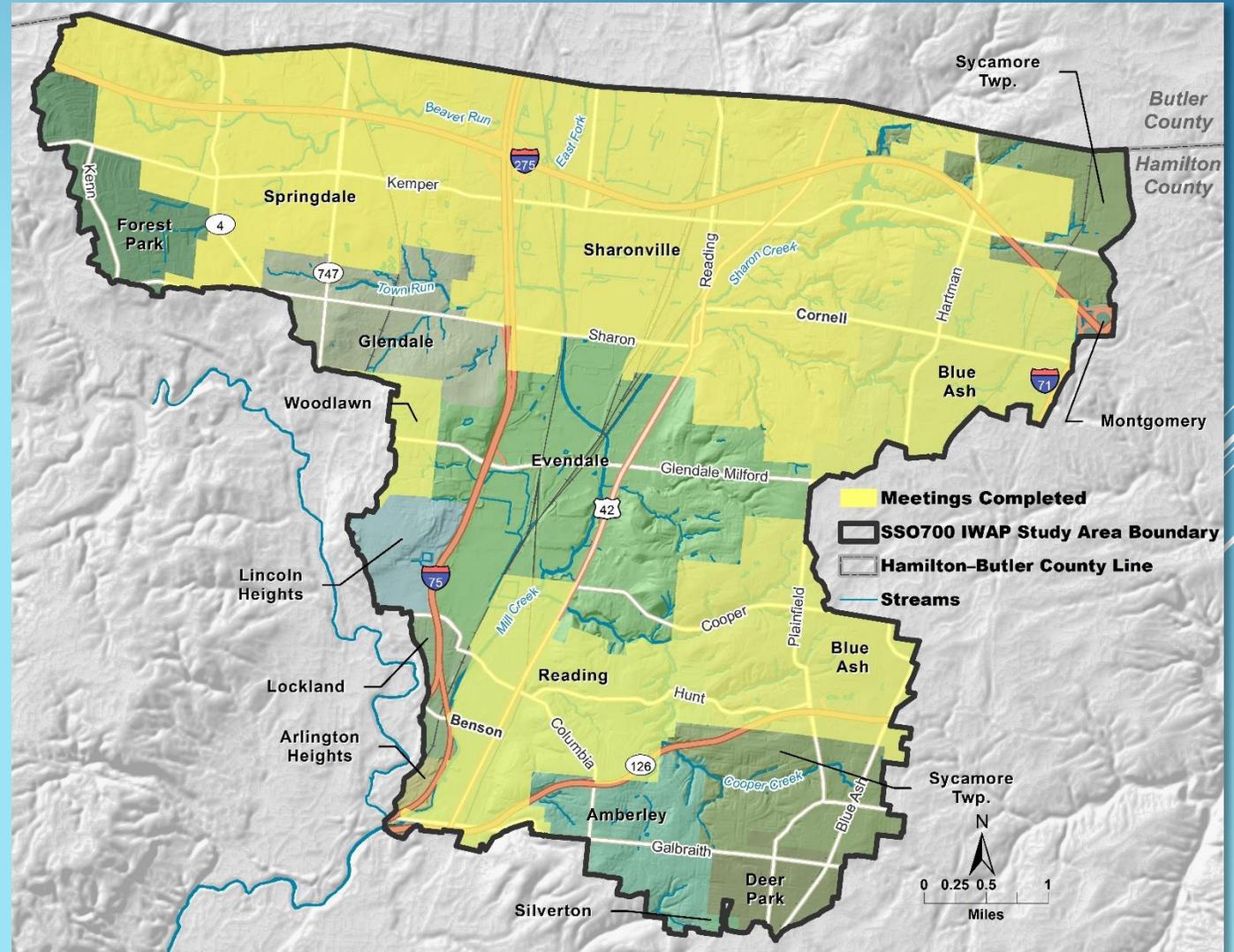


STATUS AND FINDINGS FROM
KEY SCOPE ITEMS: MEETINGS



POLITICAL JURISDICTION MEETINGS

- Purpose: Detailed introduction of project to communities & data collection
- Data Collection:
 - Storm system data
 - Wet weather issues
 - Opportunities for proposed infrastructure
- Meetings held with:
 - Reading
 - Sharonville
 - Woodlawn
 - Blue Ash
 - Springdale
- Seeking to meet with the remainder soon.



STATUS AND FINDINGS FROM
KEY SCOPE ITEMS: **SITE VISITS**



SITE VISITS: HYDRAULIC ELEMENTS

CSOs &
SSOs

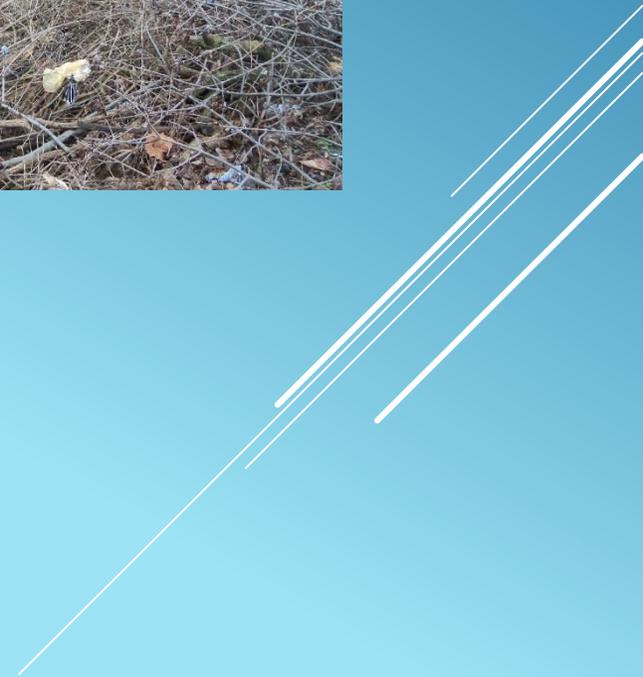


Storm
Outfalls



Potential SSOs

SITE VISITS: STREAM ASSESSMENT & POTENTIAL SAMPLING LOCATIONS



STATUS AND FINDINGS FROM
KEY SCOPE ITEMS: DATA INVENTORY



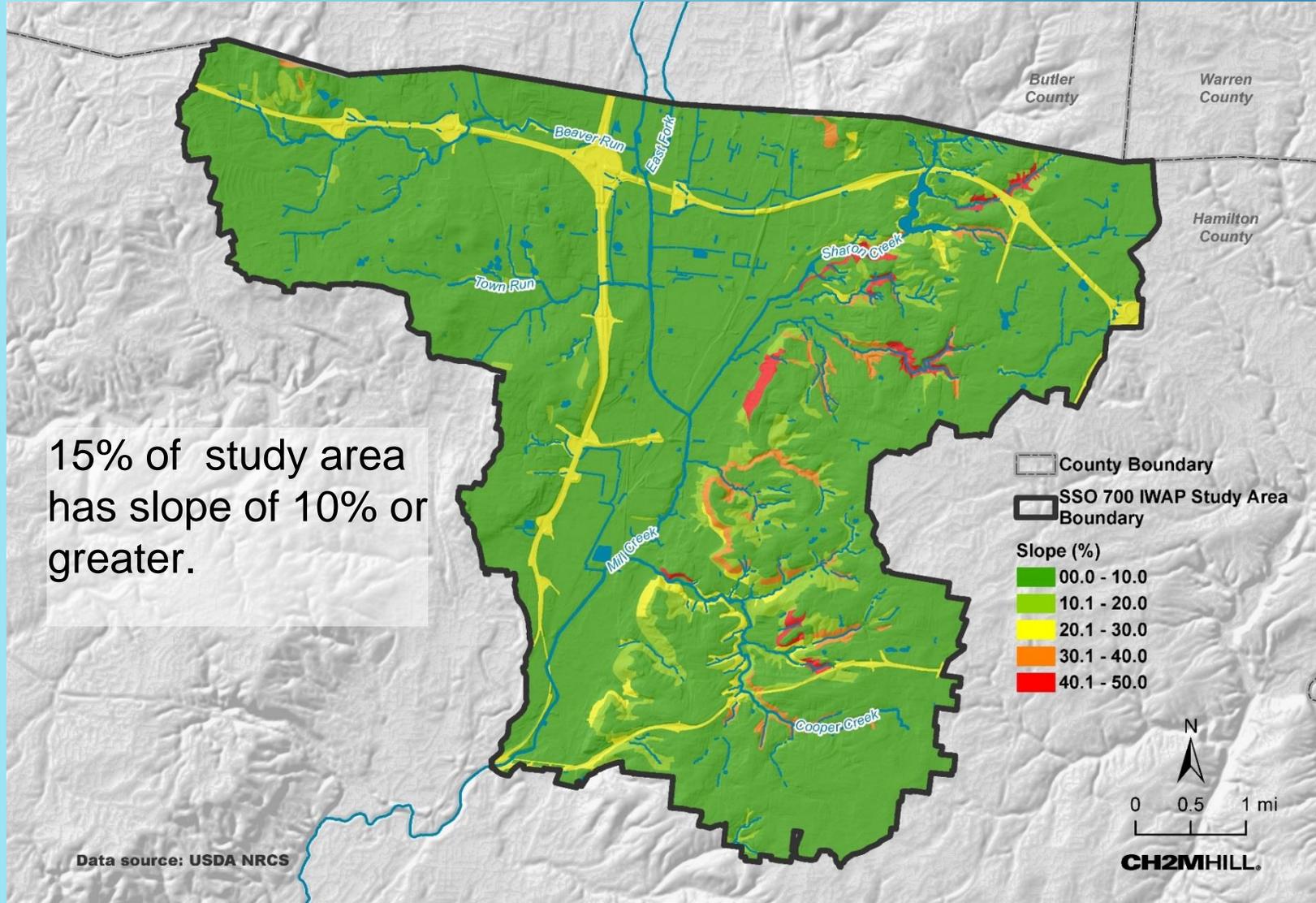
NATURAL SYSTEMS

- **Definition:** Systems within the watershed that do not primarily result from human activities.
 - Slope/topography
 - Soils
 - Hydrology
 - Geology
- **Purpose for IWAP:**
 - Inform hydraulic and water quality modeling
 - Assist in identifying potential future sustainable infrastructure solutions to
 - Utilize natural hydrologic process
 - Avoid sensitive areas

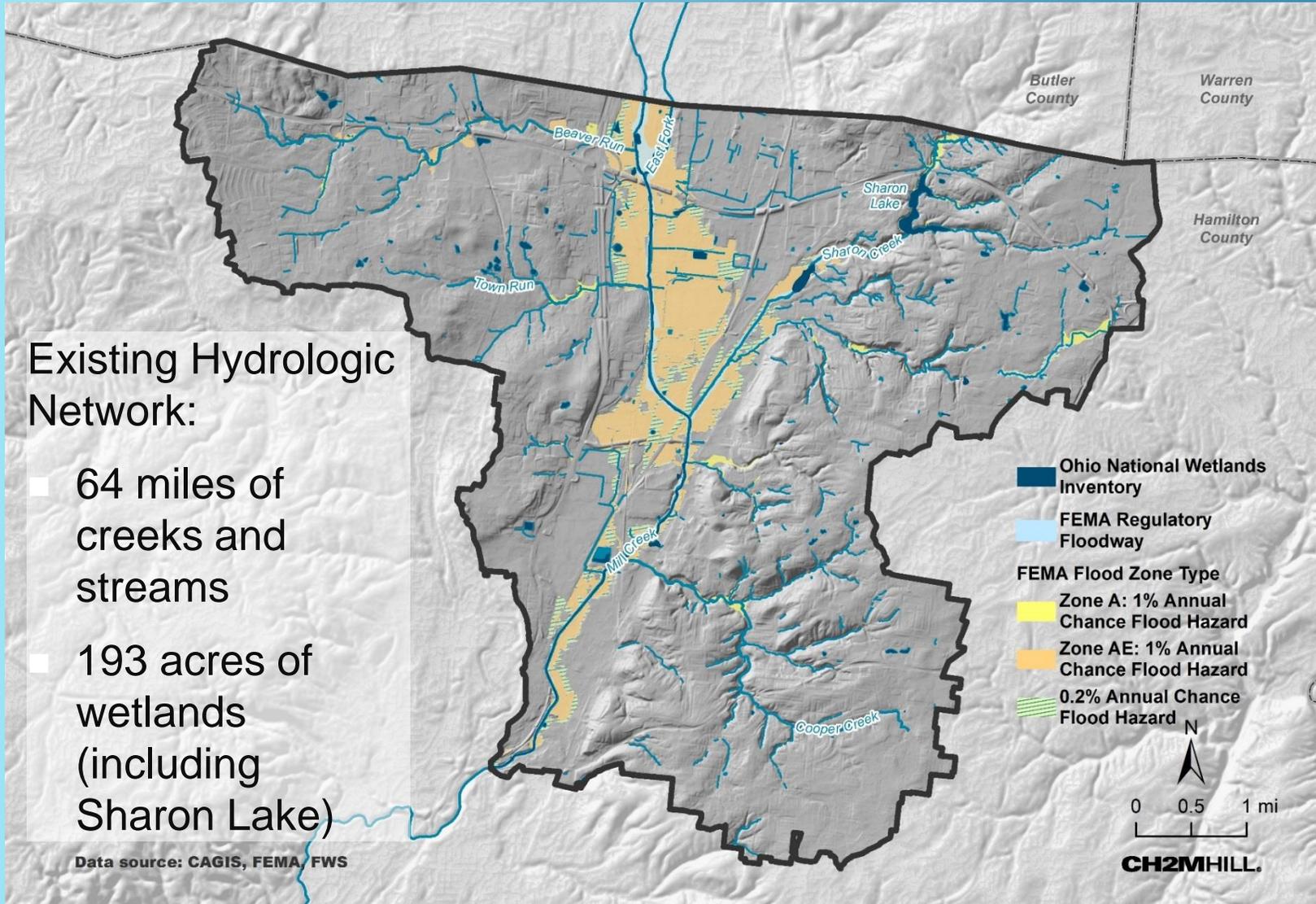
BUILT SYSTEMS

- **Definition:** Systems within the watershed that are man-made or result from human activities.
 - Land Use
 - Land Ownership
 - Transportation Infrastructure
 - Storm, Sanitary, and Combined Sewer Infrastructure
- **Purpose for IWAP:**
 - Inform hydraulic and water quality modeling
 - Assist in identifying potential future infrastructure solutions that impact the built environment.

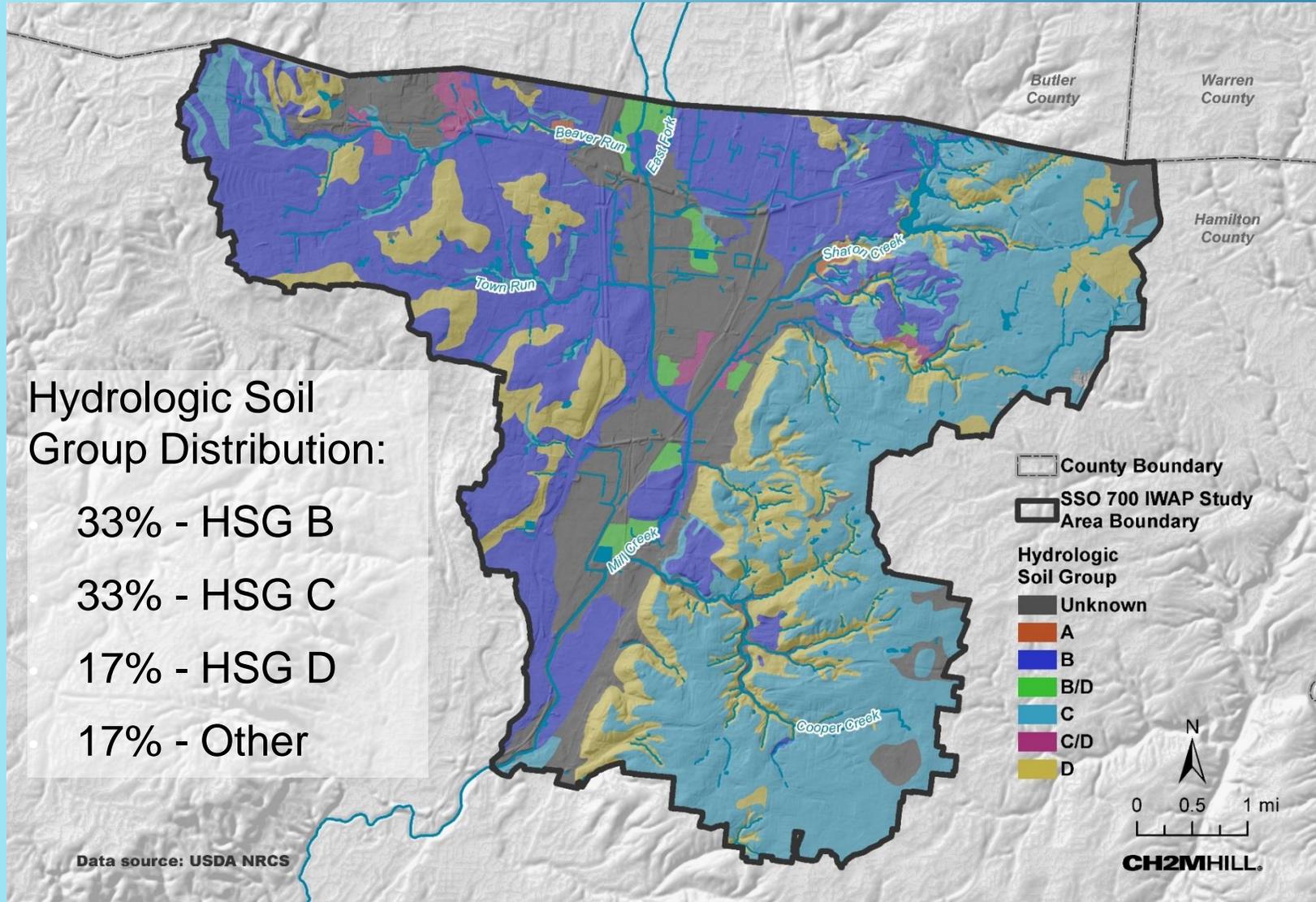
NATURAL SYSTEMS: TOPOGRAPHY



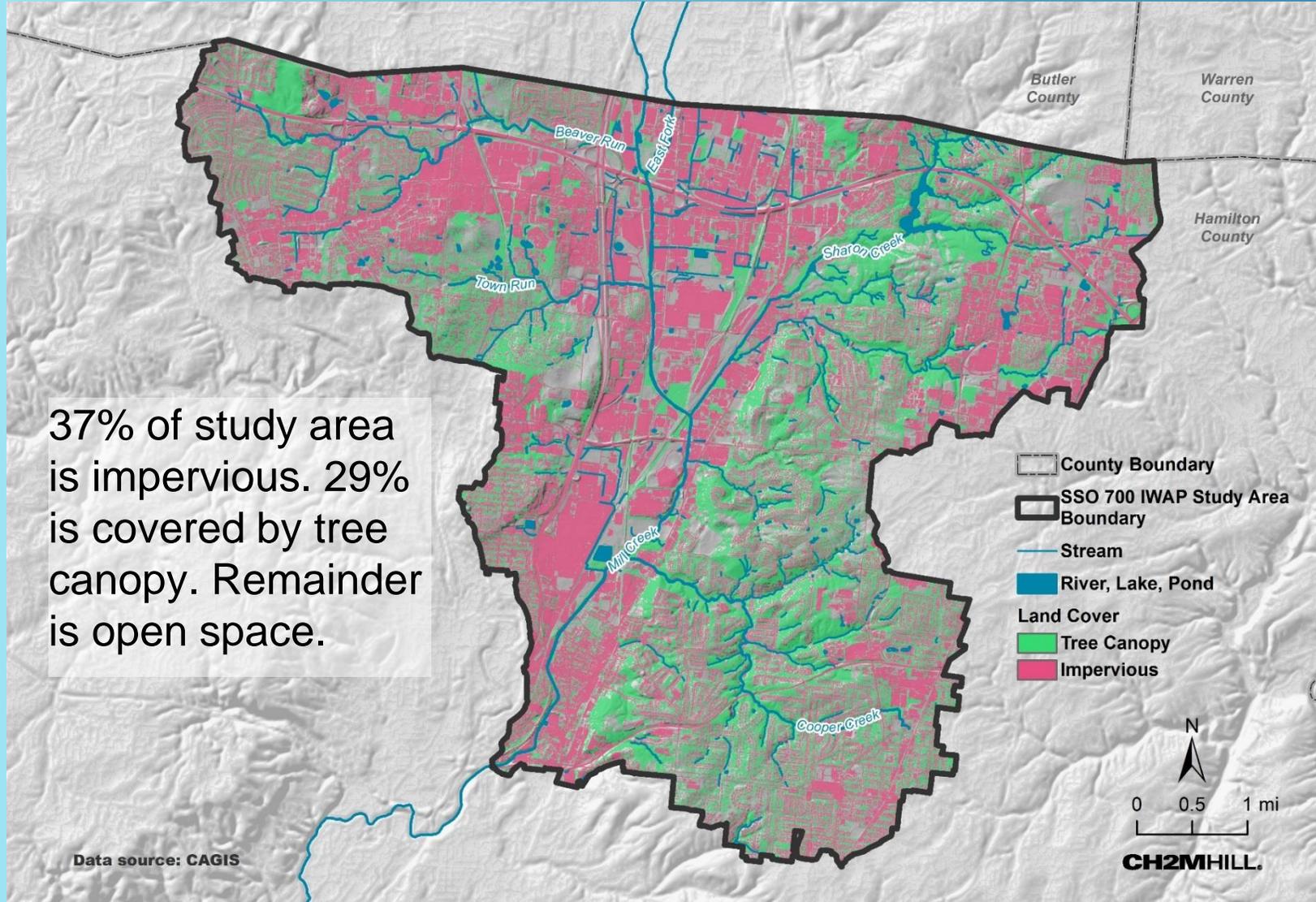
NATURAL SYSTEMS: EXISTING HYDROLOGIC NETWORK



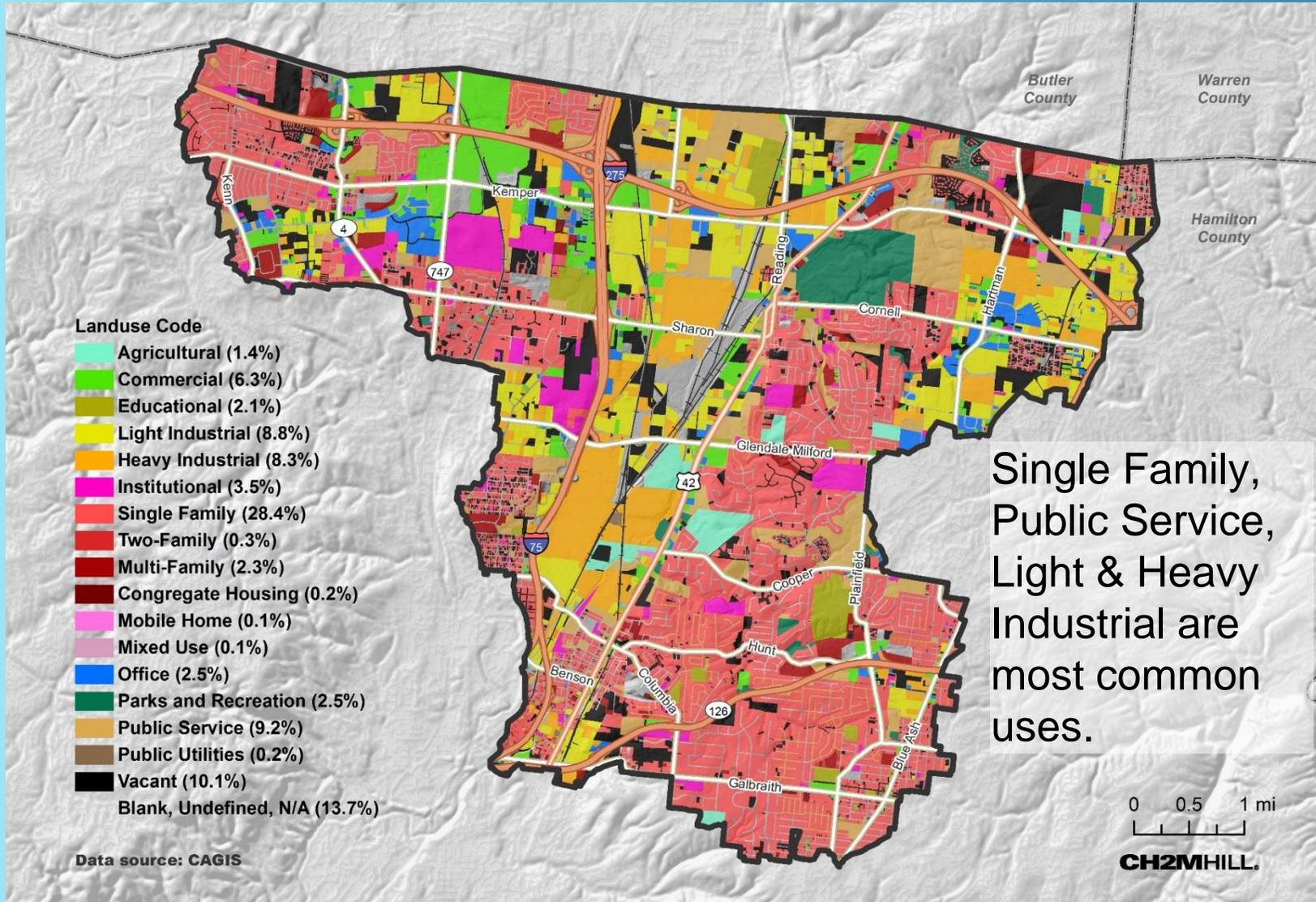
NATURAL SYSTEMS: SOILS



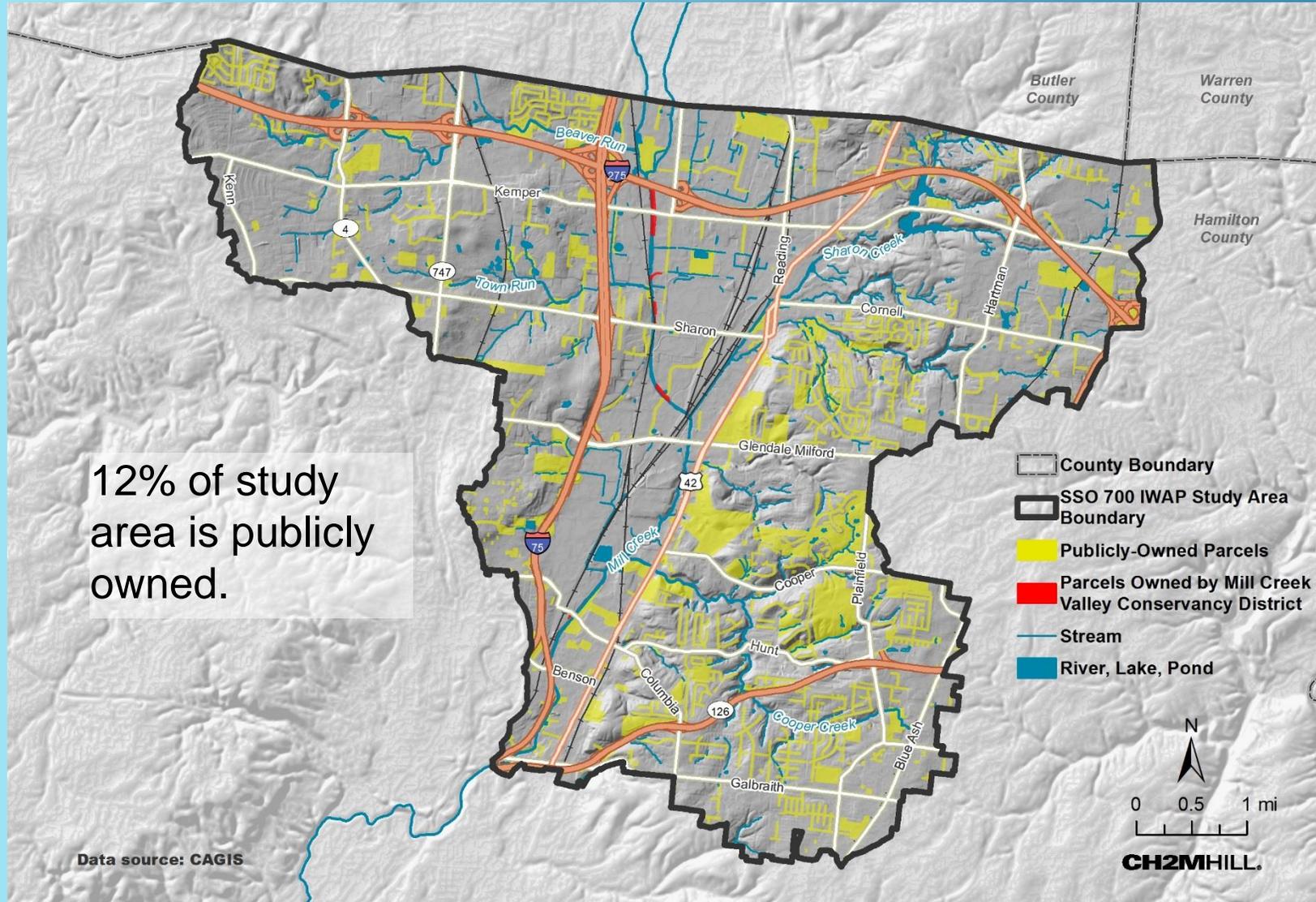
NATURAL/BUILT SYSTEMS: LAND COVER



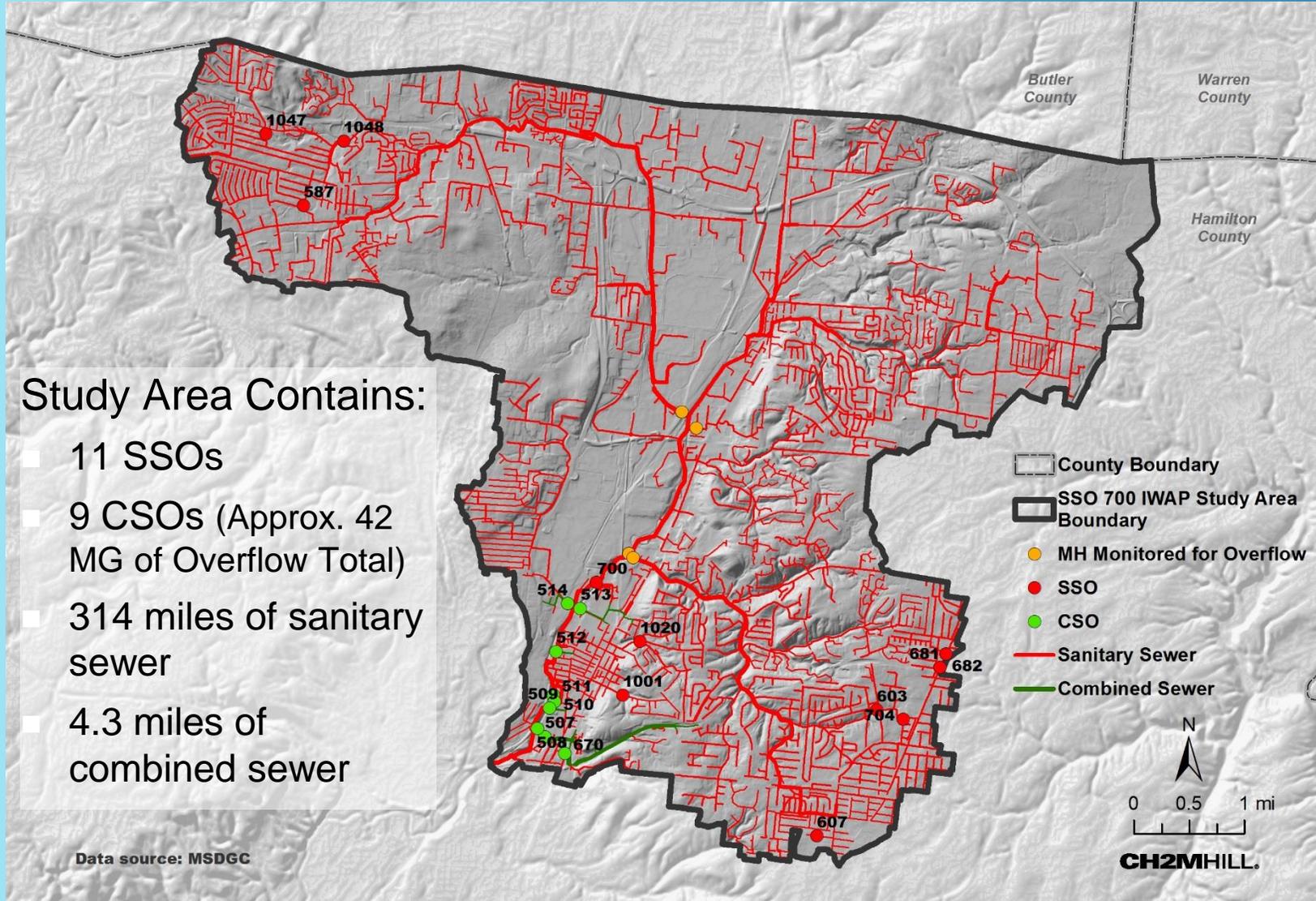
BUILT SYSTEMS: LAND USE



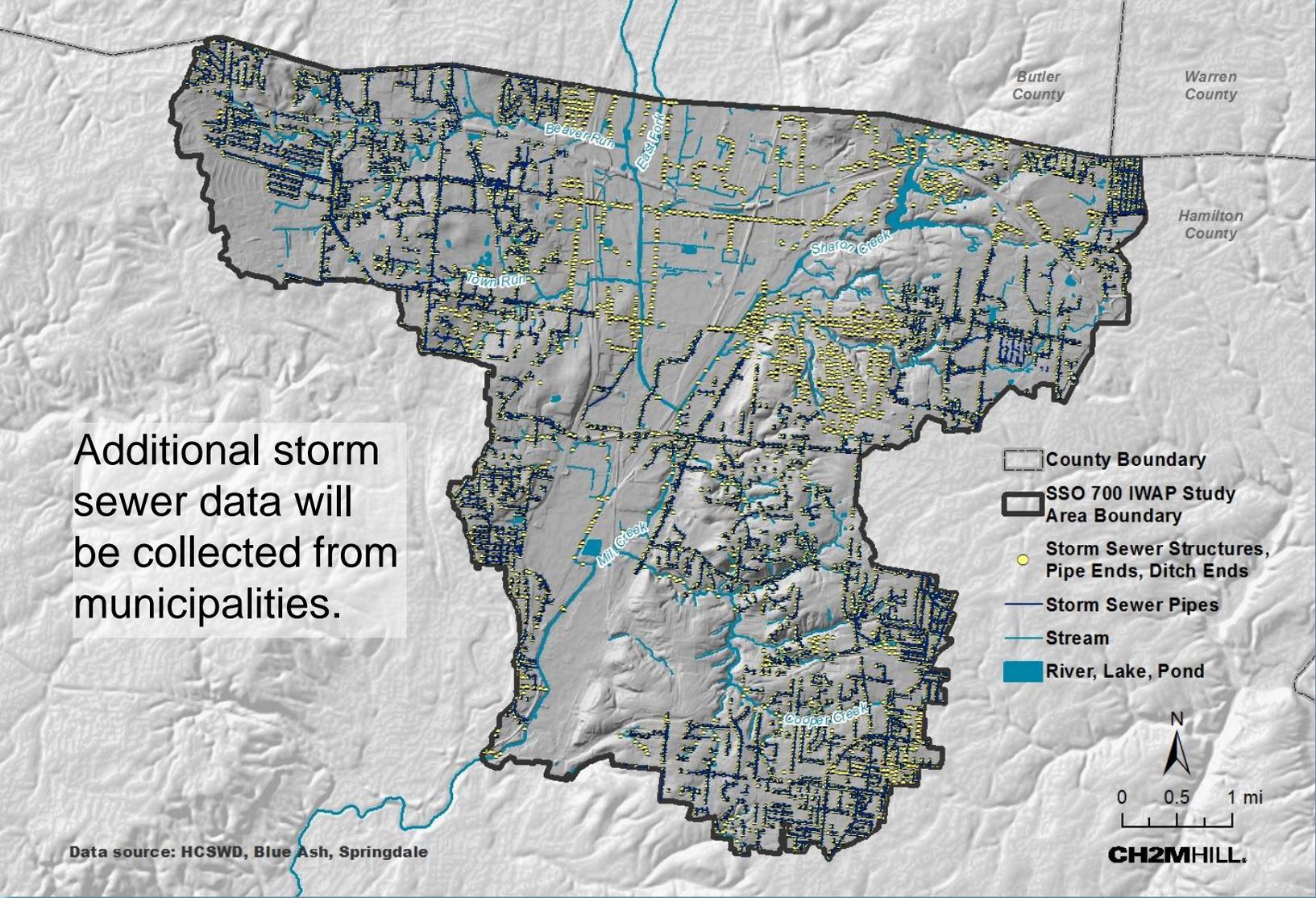
BUILT SYSTEMS: PUBLIC LAND



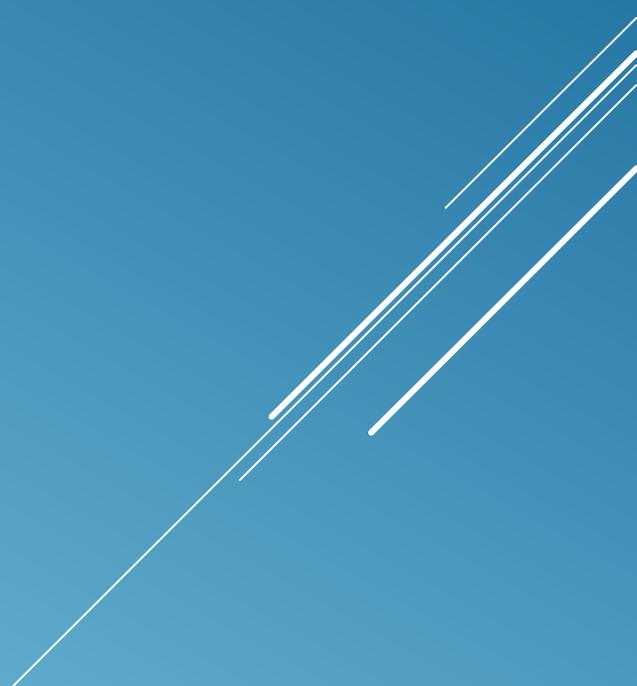
BUILT SYSTEMS: SEWER NETWORK



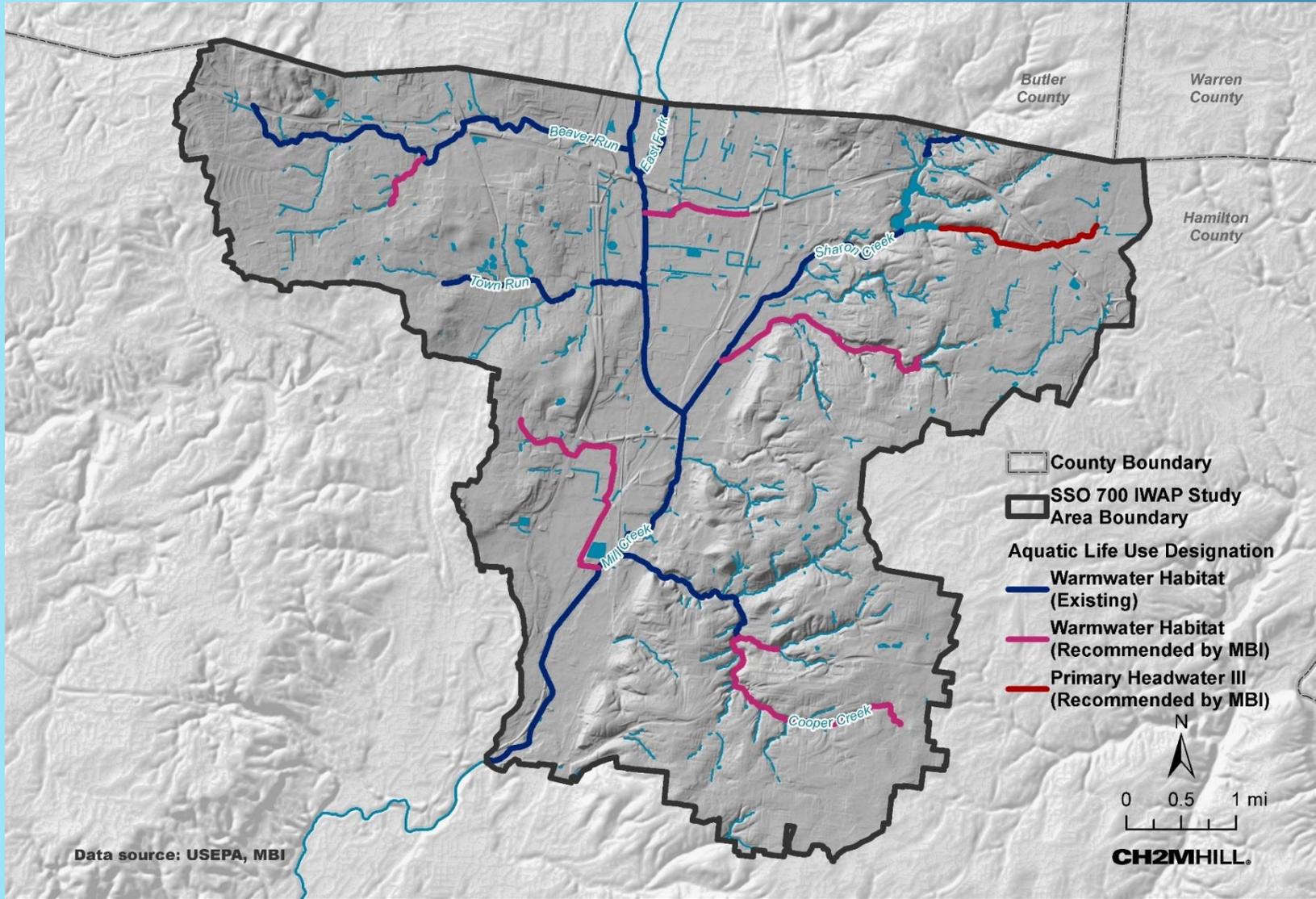
BUILT SYSTEMS: STORM SEWER NETWORK



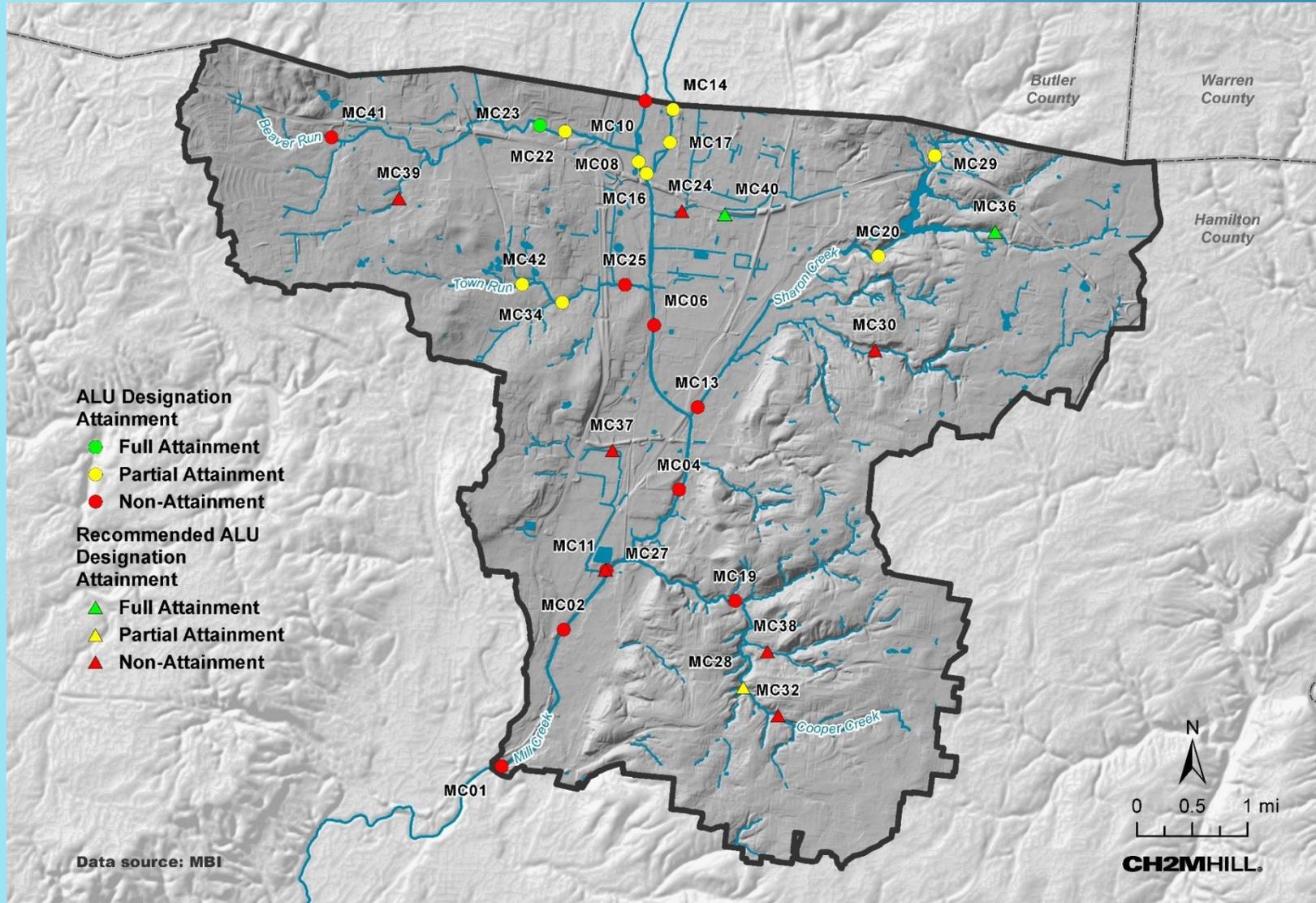
STATUS AND FINDINGS FROM
KEY SCOPE ITEMS: **MODELS**



RECEIVING WATER: AQUATIC LIFE DESIGNATED USES



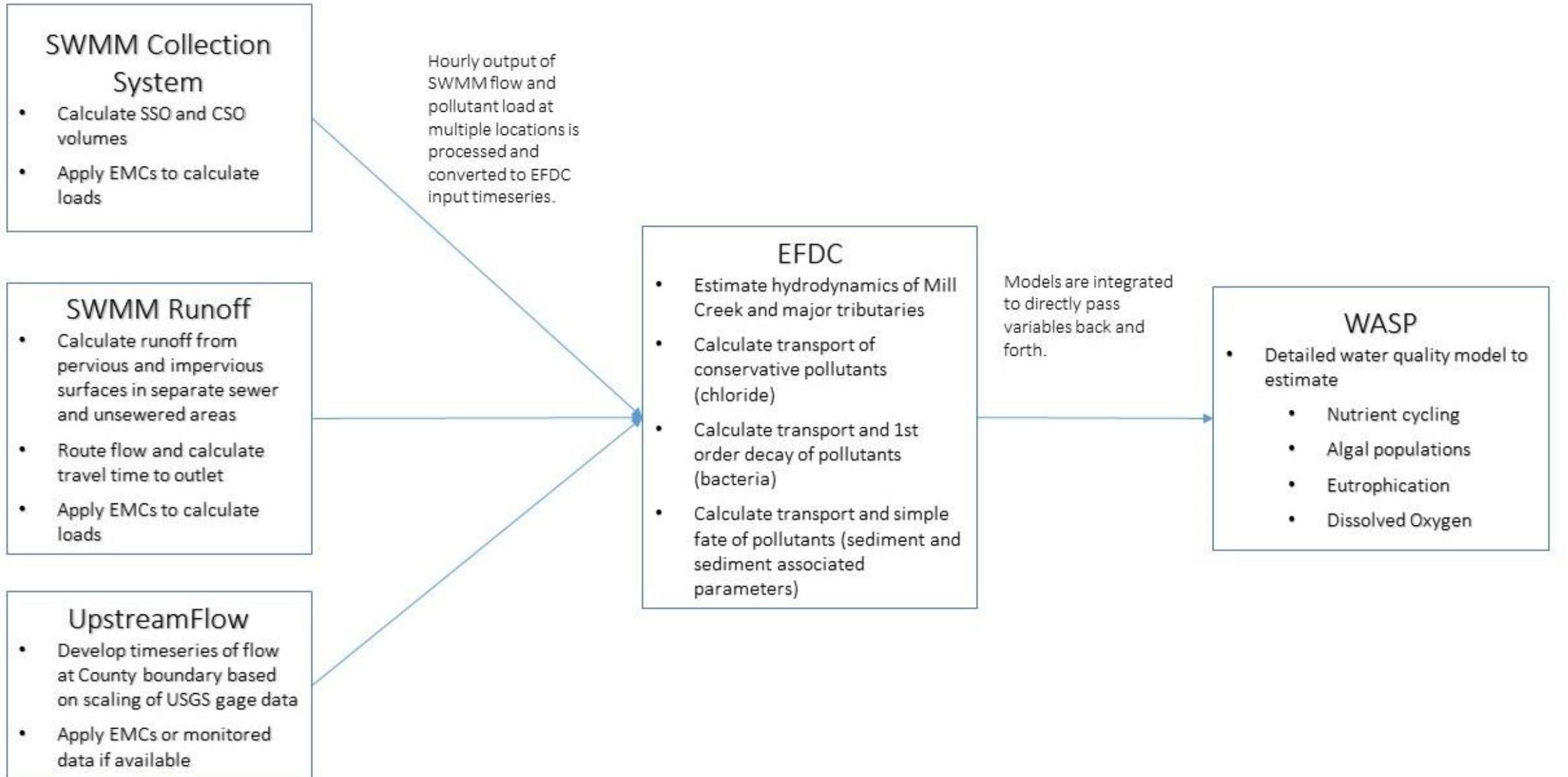
RECEIVING WATER: AQUATIC LIFE ATTAINMENT



CAUSES OF IMPAIRMENT

Waterbody	Bacteria	Sedimentation	Chlorides	Flow	Habitat Alteration	Nutrients	Dissolved Oxygen
Mill Creek	x	x	x		x	x	
East Fork Mill Creek	x	x	x			x	x
Beaver Creek	x	x	x	x			
Sharon Creek	x	x				x	x
Town Run	x	x	x				
Cooper Creek	x	x				x	
Small tributaries	x	x	x		x	x	

RECOMMENDED MODELING FRAMEWORK



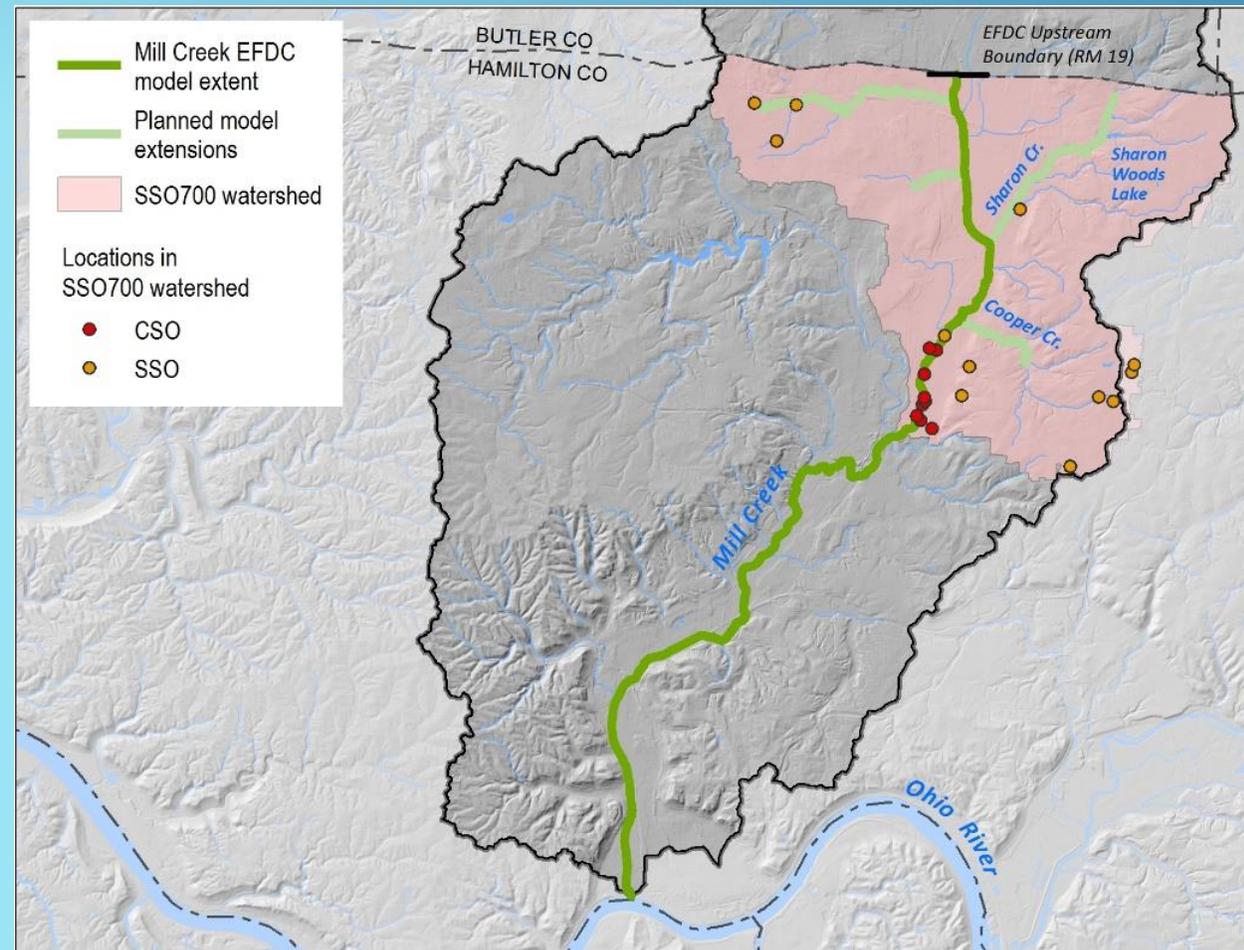
WATER QUALITY MODEL DEVELOPMENT

Expand and Update EFDC Surface Water Model

Expand 2012 EFDC model into project area tributaries and update model for more detailed planning and alternative analysis efforts for IWAP.

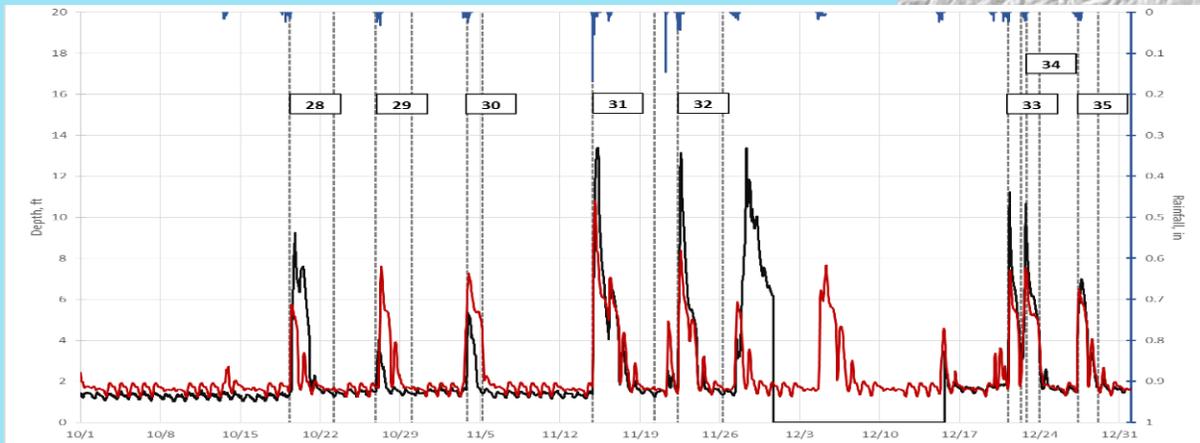
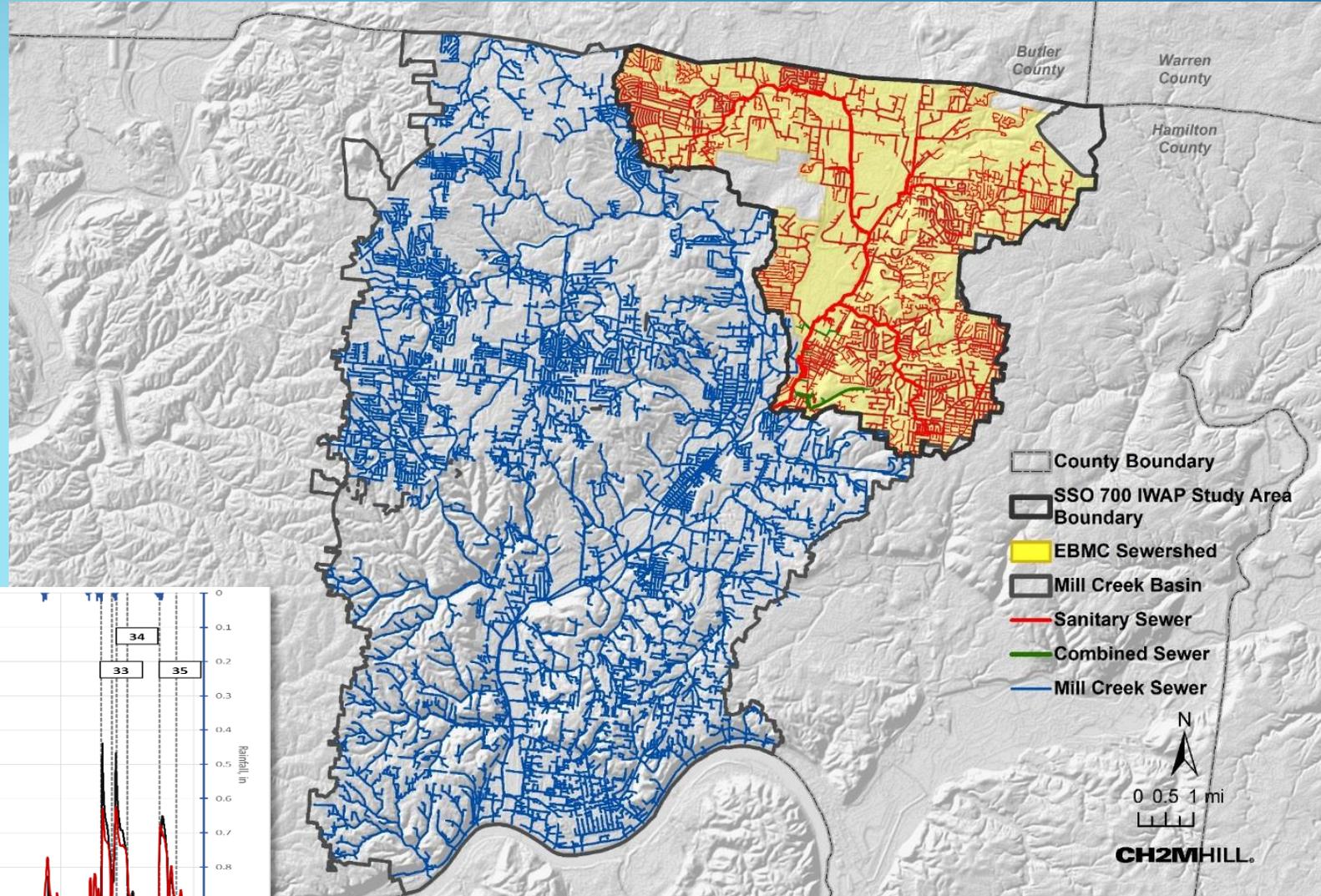
Expansion Scope:

- Beaver Run: ~4.4 miles of the creek to SSO 1048 outfall
- Sharon Creek: From the Mill Creek to and including Sharon Lake
- Cooper Creek: ~1.8 miles of the creek to confluence of the two headwater streams
- Town Run: ~1.0 miles of the creek

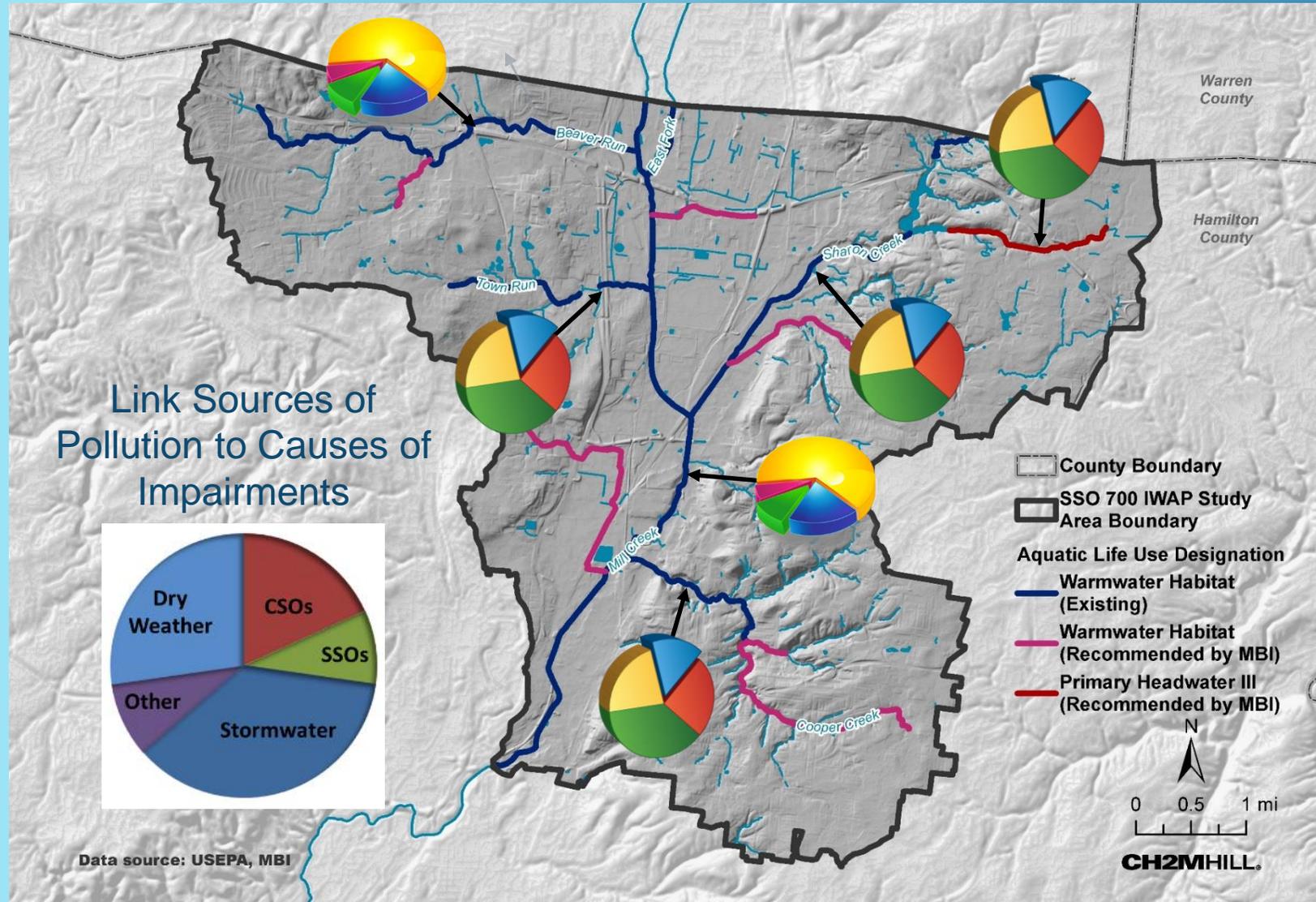


COLLECTION SYSTEM MODEL

- ▶ Validation of current model completed.
- ▶ Model calibration must be refined to meet current MSDGC modeling guidelines and standards.
- ▶ Calibrated model output will be used as input to water quality model.



MODELING RESULTS: CHARACTERIZE SOURCES OF POLLUTION

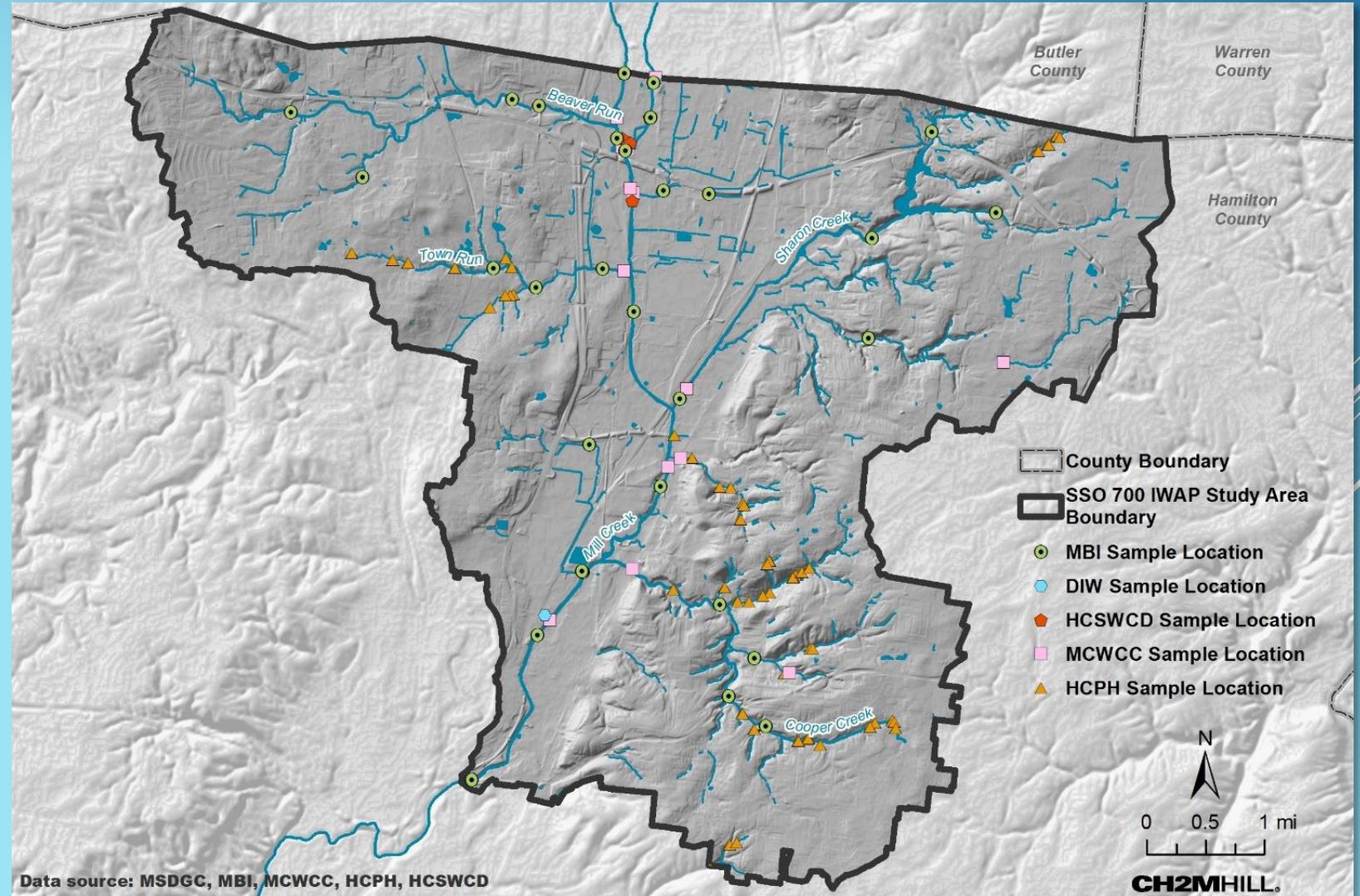


NEXT MAJOR STEP:
WATER QUALITY DATA COLLECTION
PROGRAM

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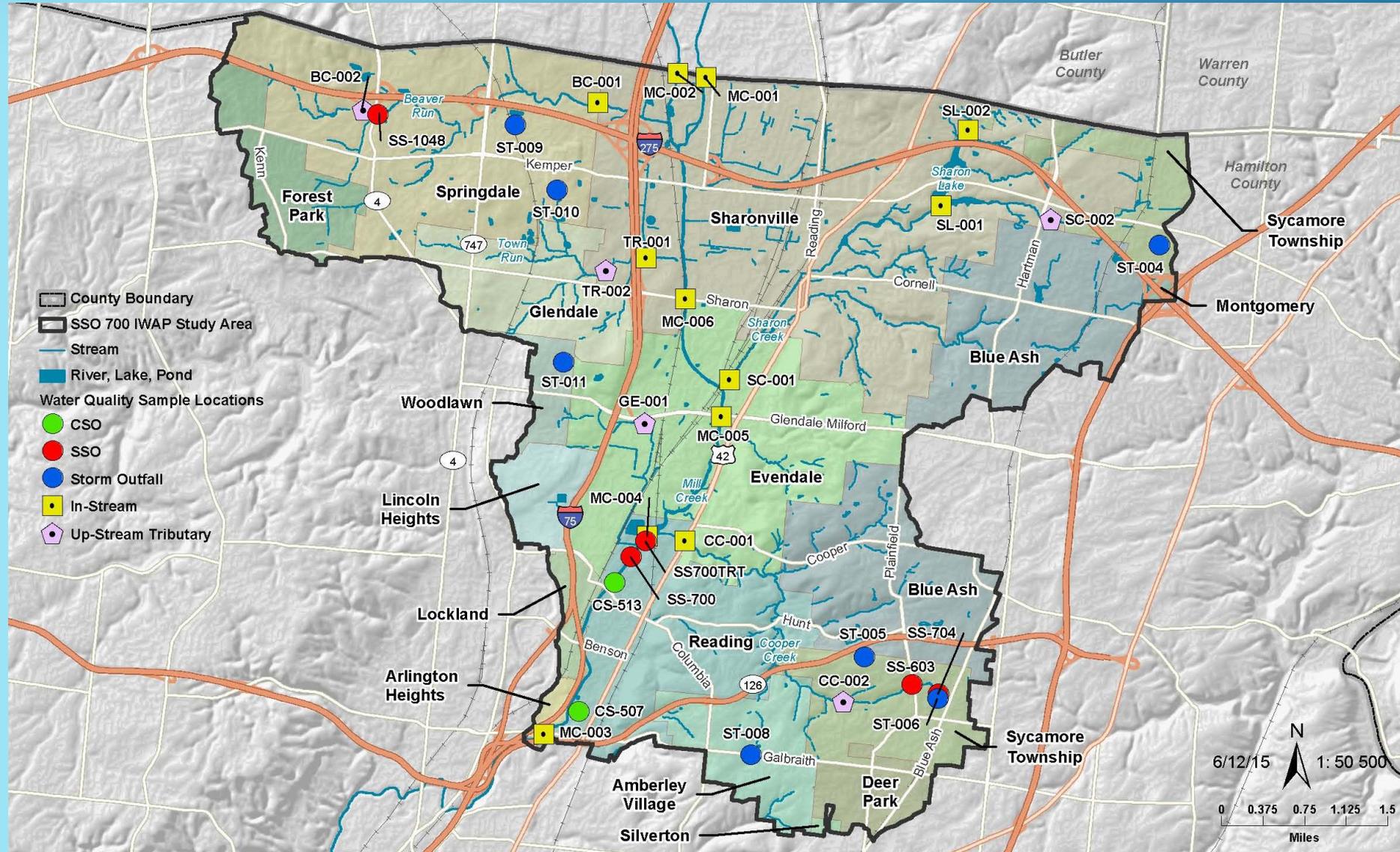
AVAILABLE WATER QUALITY DATA

- MBI Sampling Locations
- Mill Creek Watershed Council of Communities Volunteer Sampling Data
- Hamilton County Public Health
- Hamilton County Soil and Water Conservation District
- Historic Instream Sampling from MSDGC



WATER QUALITY DATA COLLECTION PROGRAM: SAMPLING LOCATIONS

- 12 In-Stream Locations
- 5 Upstream Tributary Locations
- 6 CSOs and SSOs
- 7 Storm Outfall Locations
- SSO 700 Storage and Treatment Facility



WATER QUALITY COLLECTION PROGRAM: DRY WEATHER EVENT SAMPLING

- ▶ Collect water quality samples for three dry weather events.
- ▶ Events are planned to be distributed across sampling season from June to October 2015.
- ▶ Collect samples at 17 locations:
 - ▶ 12 In-Stream Sampling Locations, on or near the main stem of Mill Creek
 - ▶ 5 Upstream Tributary Locations
- ▶ Install a sonde at 3 locations in Mill Creek to monitor DO and temperature for 3 to 5 days.



WATER QUALITY COLLECTION PROGRAM: WET WEATHER EVENT SAMPLING

- ▶ Collect water quality samples for three to five wet weather events.
- ▶ Events are planned to be distributed across a range of precipitation, flow, and seasonal conditions, June to October.
- ▶ Storm events must meet the following criteria:
 - ▶ Cover the entire study area
 - ▶ Over 0.5" in rainfall depth
 - ▶ Preceded by 2 days of dry weather
- ▶ Collect samples at all 31 locations:
 - ▶ In-Stream Locations: Collect samples every few over 24 hour period
 - ▶ All Other Locations: Capture the first flush in short sampling intervals over 1-hour



WATER QUALITY COLLECTION PROGRAM

WET WEATHER EVENT ANALYSIS PARAMETERS

Parameter	Description	Type of Measurement	Approximate Number of Samples per Event
E. coli	Escherichia coliform	Grab	143
TSS	Total suspended solids	Grab	143
Cl-	Chloride	Grab	143
Copper	Total recoverable copper	Grab	143
Lead	Total recoverable lead	Grab	143
Zinc	Total recoverable zinc	Grab	143
Hardness	Hardness	Grab	143
CBOD5	5-day Carbonaceous Oxygen Demand	Grab(s) ¹	143
NH3	Total ammonia (NH3)	Grab(s) ¹	143
NO3+NO2	Nitrate plus nitrite (NO3+NO2)	Grab(s) ¹	143
TKN	Total Kjeldahl nitrogen	Grab(s) ¹	143
TP	Total Phosphorus	Grab(s) ¹	143
oPO4	ortho-Phosphate	Grab(s) ¹	143
TOC	Total organic carbon	Grab(s) ¹	143
DO	Dissolved oxygen	In-situ	143
		Continuous 3-5 days ¹	0
wTemp	Water temperature	In-situ	143
		Continuous 3-5 days ¹	0
pH	pH	In-situ	143
Cond	Conductivity	In-situ	143
Chl a	Chlorophyll a	Grab ¹	0
Peri	Periphyton biomass	Grab ¹	0

NEXT STEPS IN PHASE 1 OF THE SSO 700 IWAP STUDY

- ▶ Complete meetings with political jurisdictions and collect remaining outstanding data (Summer 2015)
- ▶ Implement water quality data collection program (June through October 2015)
- ▶ Update and calibrate hydraulic and water quality models. (July through December 2015)
- ▶ Identify pollution sources & evaluate collection system & waterway response. (December 2015 through February 2016)
- ▶ Develop Summary Report. (Early 2016)

QUESTIONS?

