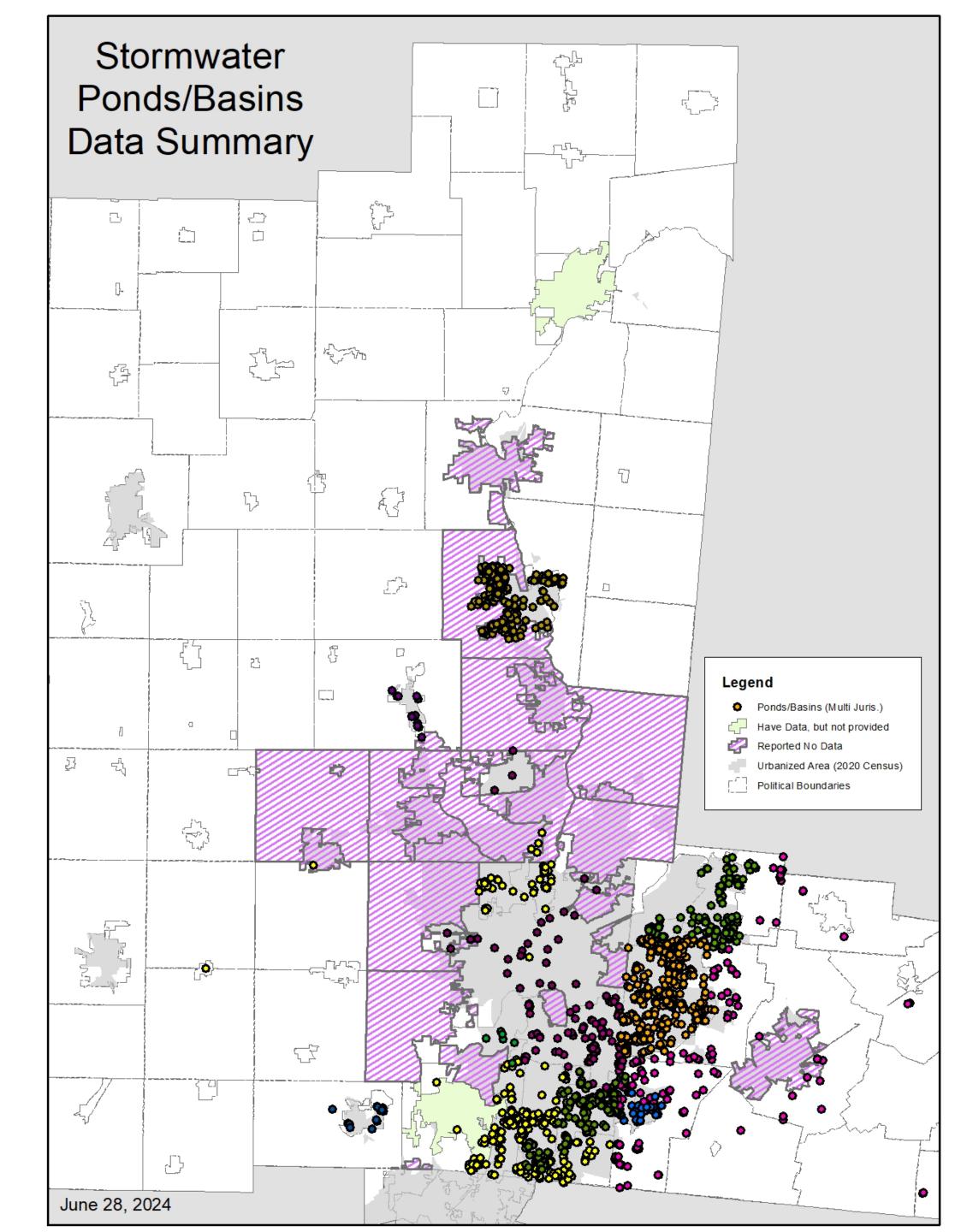
Regional Stormwater Data Review

- Surveyed all MS4 jurisdictions in the 6 counties
- Have any data:
 - ~55% of jurisdictions had some pond data almost all in electronic format
 - ~45% of jurisdictions did not
- Attributes of electronic data was unique to each jurisdiction:
 - Common location information, pond type (wet vs. dry)
 - Less common owner, engineering info, inspection history
- Conclusions:
 - Creating a unified regional dataset would be cumbersome.
 - Inclusion or Exclusion of private ponds was a key difference between communities. Not clear that a "best practice" has emerged.
 - Map and summary report available upon request



Stormwater Data Management at City of Centerville

David Swanson, P.E. September 18, 2024



City of Centerville

Goals of Detention/Retention Mapping

- Pond information management
- Pond locating
- Inspection tracking
- Follow-up action tracking
- Satisfy NPDES Requirement

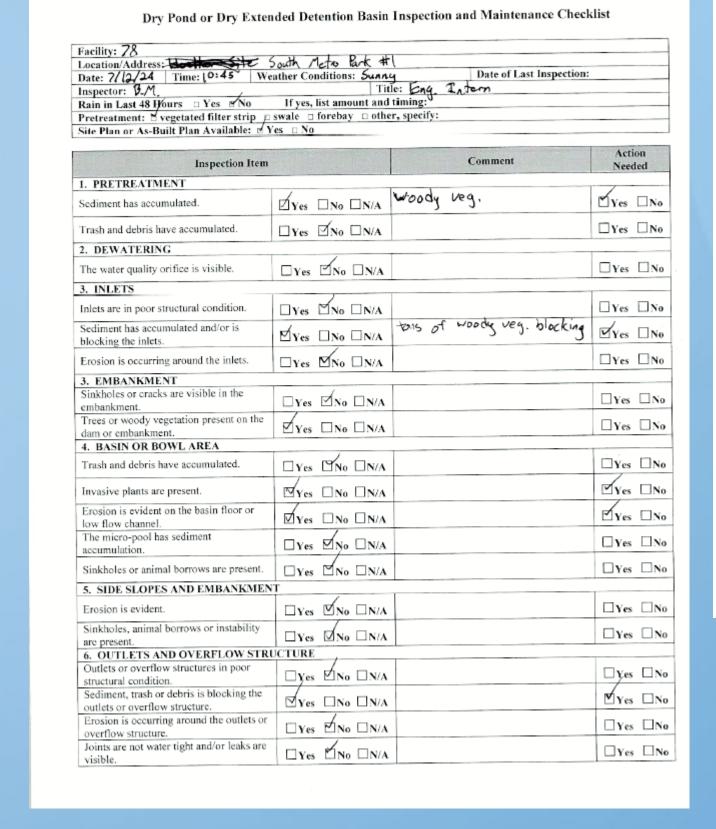


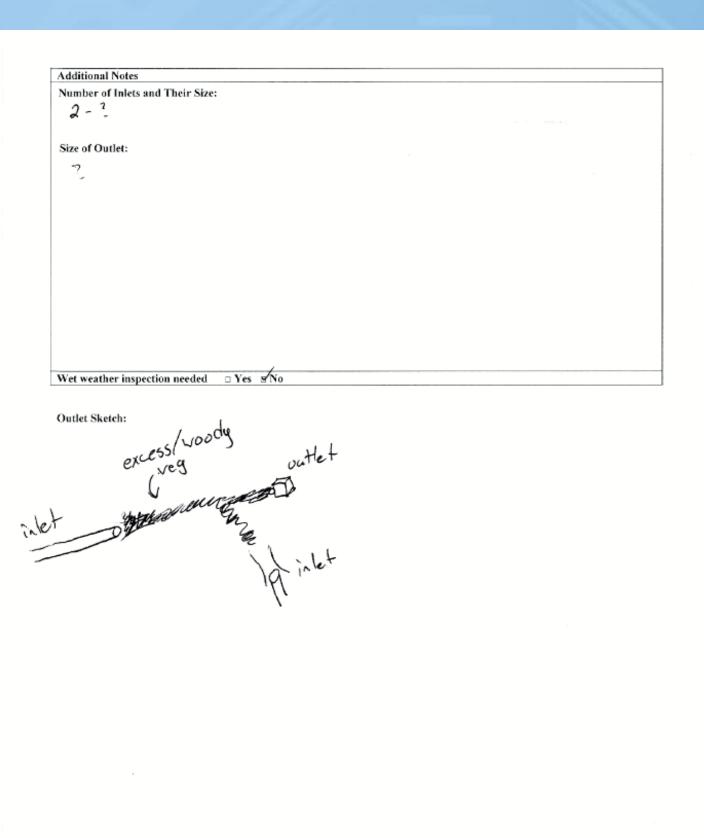
Inspections

OHQ000004 Permit requires inspection of

detention/retention ponds

- Maintenance Issues lead to:
 - Diminished capacity
 - Water quality issues
 - Eyesore
- 191 Detention/Retention Ponds
- Inspection form from OEPA







Initial Steps

- Updated database
 - Added inspection fields
 - Added new developments
- Discussed goals and needs with GIS team

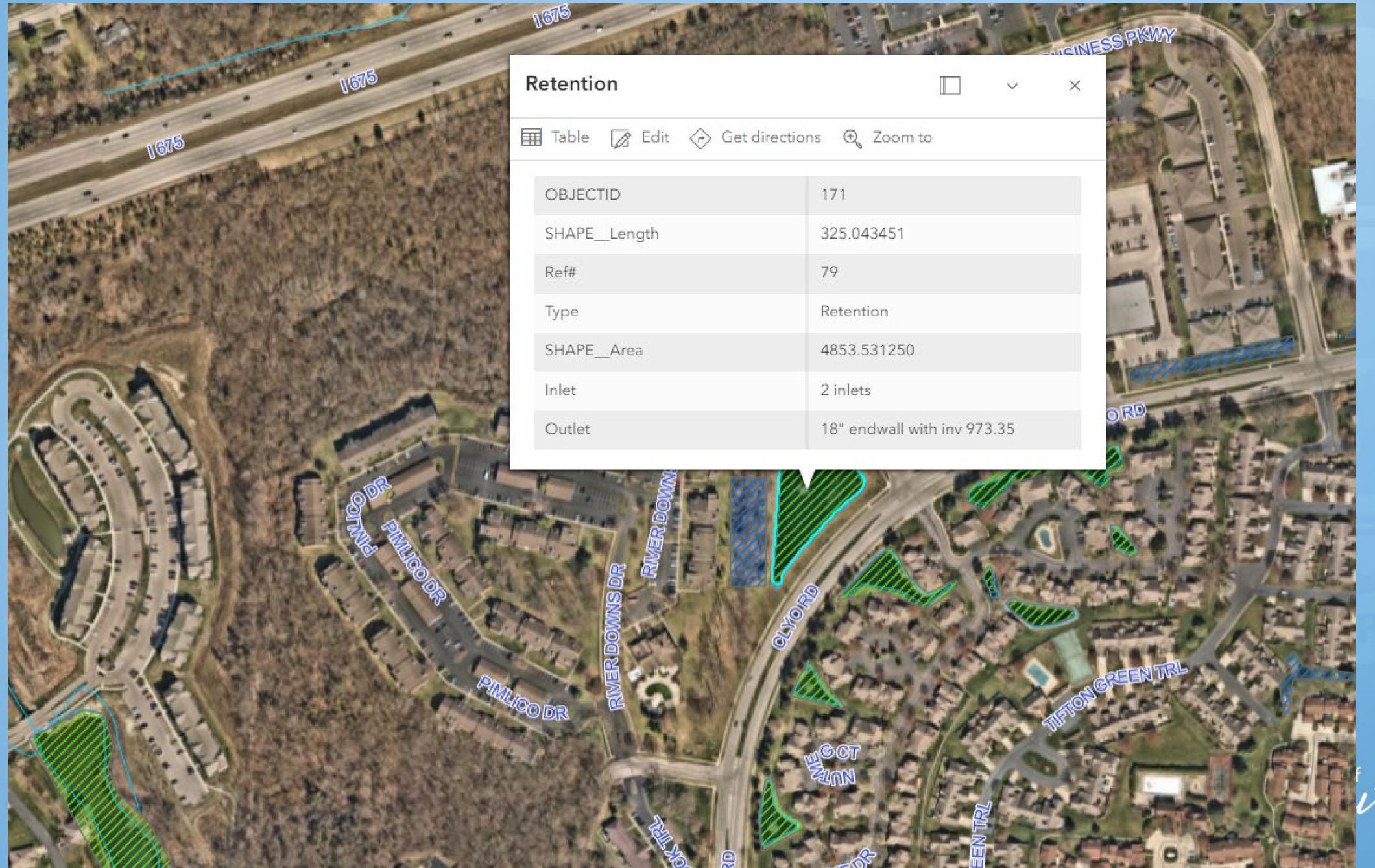
4	Е	F	G	Н	1	J	K	L	М	N	О	Р	Q	R	S	Т	U
1		Detention & Retention Ponds within Centerville City Limits															
2	Ref.#	Name	Address/Location	Туре	Year built	Storage Provided (ft^3)	Critital Year	Inlet	Outlet	Current Condition	Construction Drawing	X Coordinate	Y Coordinate	100 Yr Floodplain?	Inspection Date	Action Needed	Follow Up Completed
46	44	Stone Lake #1	in Stone Lake Dr circle. East pond	Retention				15" STM to endwall			nttp://maps.centervilleonio.gov/escANS/stoneLake/St one%20Lake.pdf	39.66260	84.14440	no	6/24/2024	no	
47	45	Stone Lake #2	In Stone Lake Dr circle. West pond	Retention				12" STM to endwall	12" STM, 2.2B CB		http://maps.centervilleohio.gov/eSCANS/StoneLake/St one%20Lake.pdf	39.66240	84.14500	no	6/24/2024	no	
48	46	Stone Lake #3	NW of Fairhaven Church	Retention				18" endwall and 48" endwall	4'x6' headwall , 4'x6' box culvert		http://maps.centervilleohio.gov/eSCANS/StoneLake/St one%20Lake.pdf	39.66060	84.14610	no	3/13/2024	no	
49	47	Iron Horse Park	NW of baseball fields	Detention	1992	12919	10		96" manhole @ inv 968.2		See file M.1.106	39.65600	84.14000	no	2002		
50	48	Infiniti of Dayton	299 Loop Rd	Detention	1990	32700	100	15" STM and 18" STM	CB @ 952.8 to concrete chute to 12" STM		See file #693	39.64981	84.14989	no	2002		
51	49	Voss - 99 Loop Rd	Between 99 & 299 Loop. In parking lot	Detention	1990	6214	100		three 215' - 42" CMP @ 0.20% slope; overflow weir			39.64953	84.15070	no			
52	50	Voss Inventory Lot	290 Loop Rd. Behind Lot	Detention	2002, 2016			18" STM, 15" STM, 12" STM			N:\Drainage\Detention Ponds\Detention Pond Info\E3 Voss Inventory Lot	39.65070	84.15000	no			
53	51	Chardonnay Valley	off Loop Rd & 725	Retention	1988	125540	25	30" STM	Weir @ 897'; 12" STM w rock protection channel		http://maps.centervilleohio.gov/eSCANS/Chardonnay Valley/Chardonnay%20Valley%20Section%201.pdf	39.64600	84.14300	yes	2002		
54	52	Deer Run #1	Behind Buck Spring Ct	Retention				3 inlets: 15" STM with riprap,	Cb to 18" STM, flow restrictive grate		http://maps.centervilleohio.gov/eSCANS/Deer%20Run/ /Deer%20Run%20Phase%201.pdf	39.63900	84.14000	no	6/24/2024	no	
55	53	Deer Run #2	Between Deer Run Rd & Cades Cove	Detention?		.44 acre-ft		15" STm, headwall	12" STM, headwall , CB		file:///N:/SCANS/Deer%20Run/Deer%20Run%20Phase %202&3%20GP.pdf	39.63700	84.14100	yes			
56	54	Deer Run #3	At the end of Hartcrest Ln	Retention				concrete headwall, riprap, 15" STM	2'-2' CB 12" STM		http://maps.centervilleohio.gov/eSCANS/Deer%20Run /Deer%20Run%20Phase%204.pdf	39.64100	84.14000	no	6/25/2024	no	
57	55	Hillside Apartments #1	off Clyo Rd, in Great View Circle	Retention	1987	56574	10	12 "STM	10.5" orifice plate in 18" STM pipe, CB		file:///N:/SCANS/HillsideCourt/Hillside%20Court%20 B.pdf	39.64432	84.13932	yes	2002		



Map Development

- ArcGIS Pro
- Drew shapes on map
 - Challenges with locating detention ponds
- Applied Attributes
- Simple
- Moved to AGOL, can be edited by users
 - Updates made after inspections





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