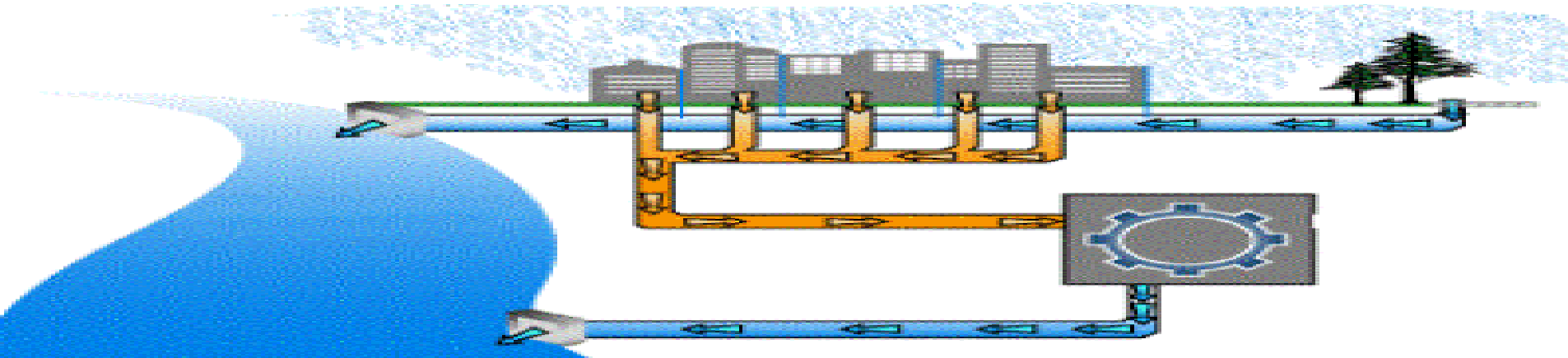


Multiple Separate Storm Sewer System (MS4) and Combined Sewer Overflow (CSO) Data Review



Chesapeake Bay Model Phase 5.3 Review in
Preparation for Phase 6.0 Implementation.

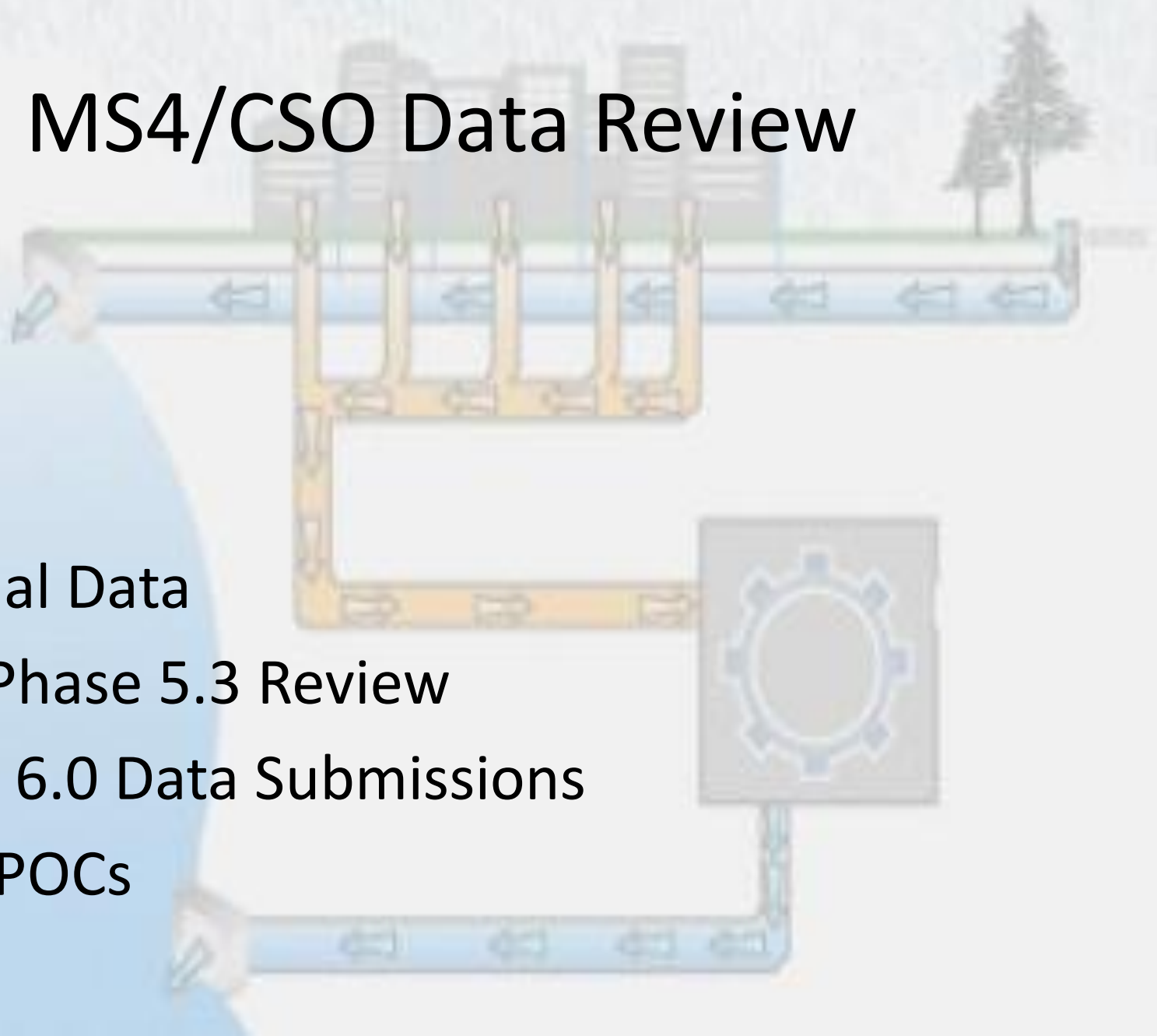
Fred Irani, USGS

firani@ChesapeakeBay.net

(410) 267-9845

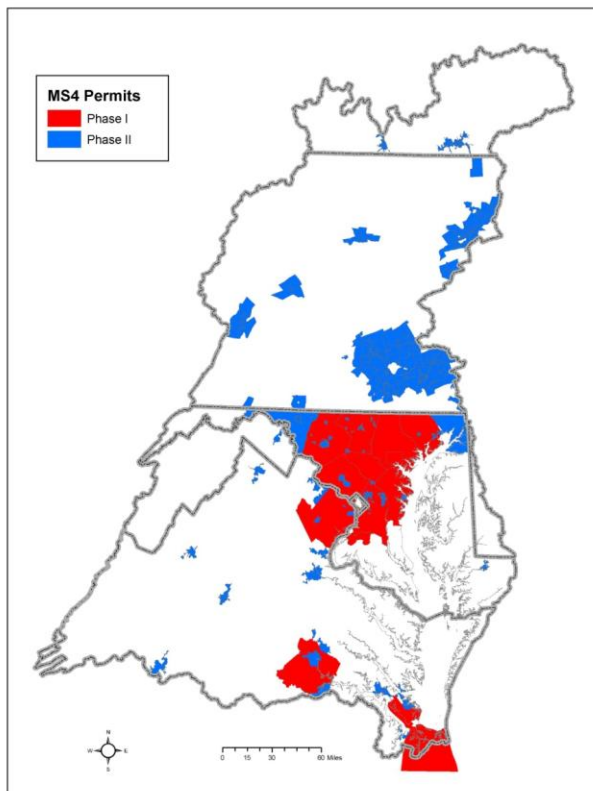
MS4/CSO Data Review

- Original Data
- Final Phase 5.3 Review
- Phase 6.0 Data Submissions
- State POCs

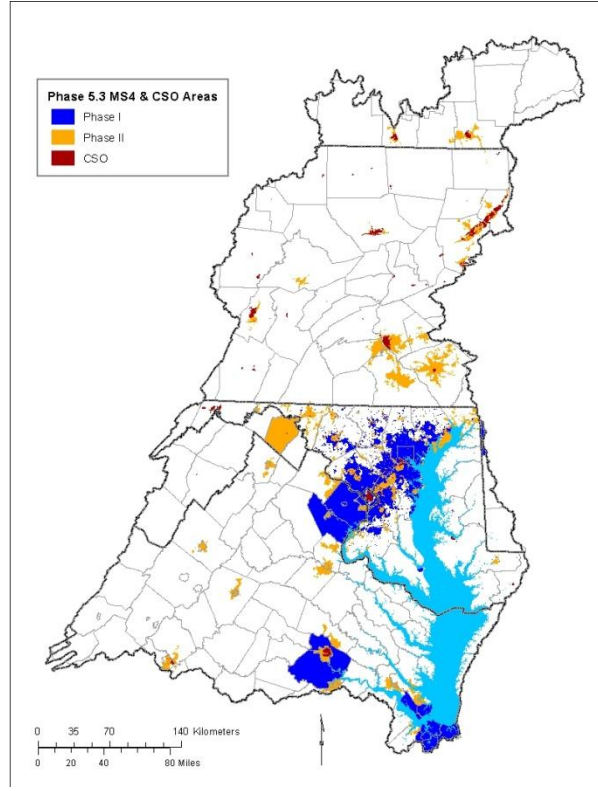


Final Phase 5.3

April, 2011



Original ~2010



Phase 5.3 Final April, 2011

NY: Same with CSOs

PA: Much Reduced
+CSOs

MD: Entire County Regulation
Gone
Complex Map

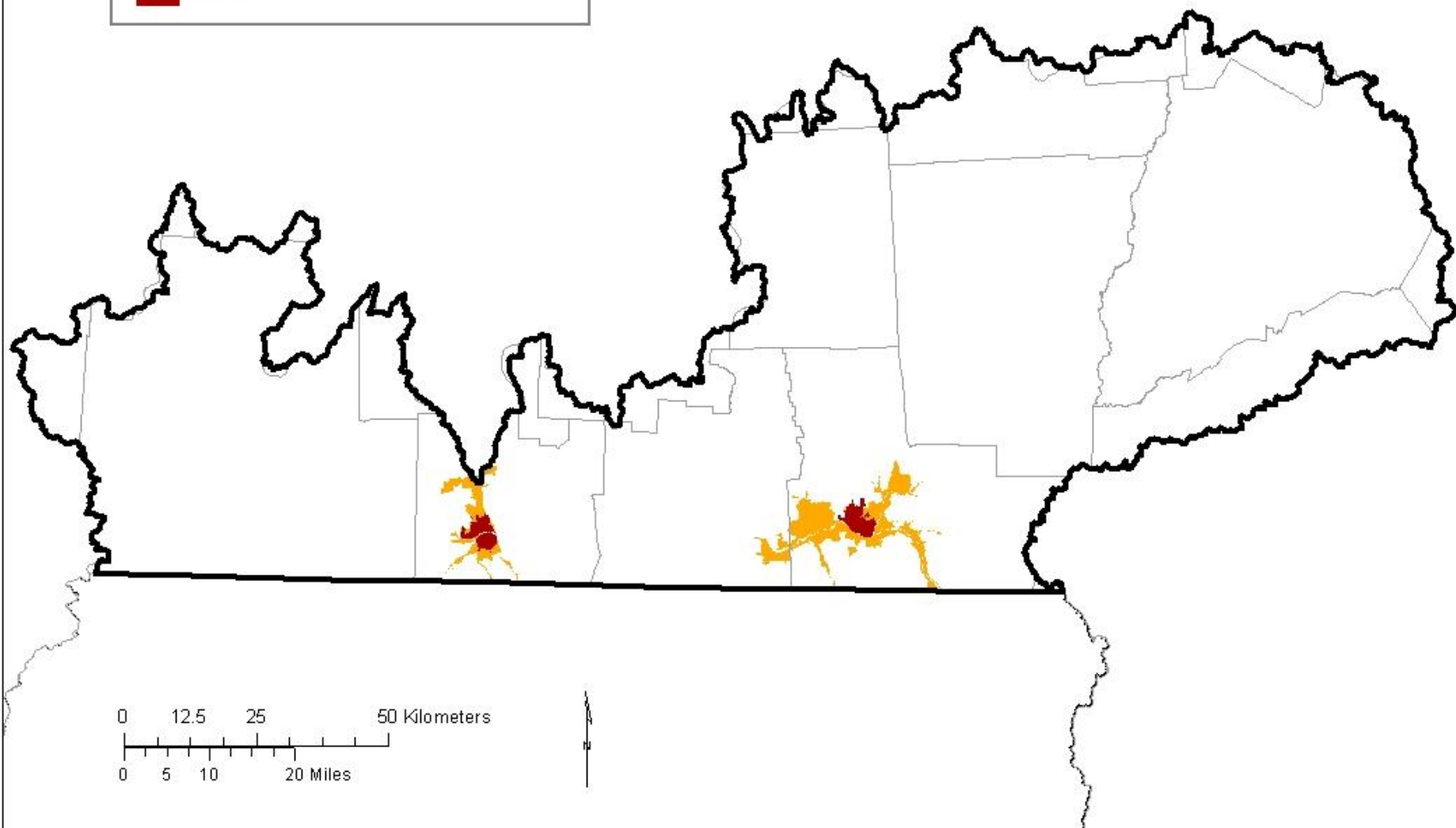
VA: Nearly Identical + CSOs
Transportation Routes?

WVA: +1 County + 2 CSOs

DE: 1 County + 1 Phase II
Town.

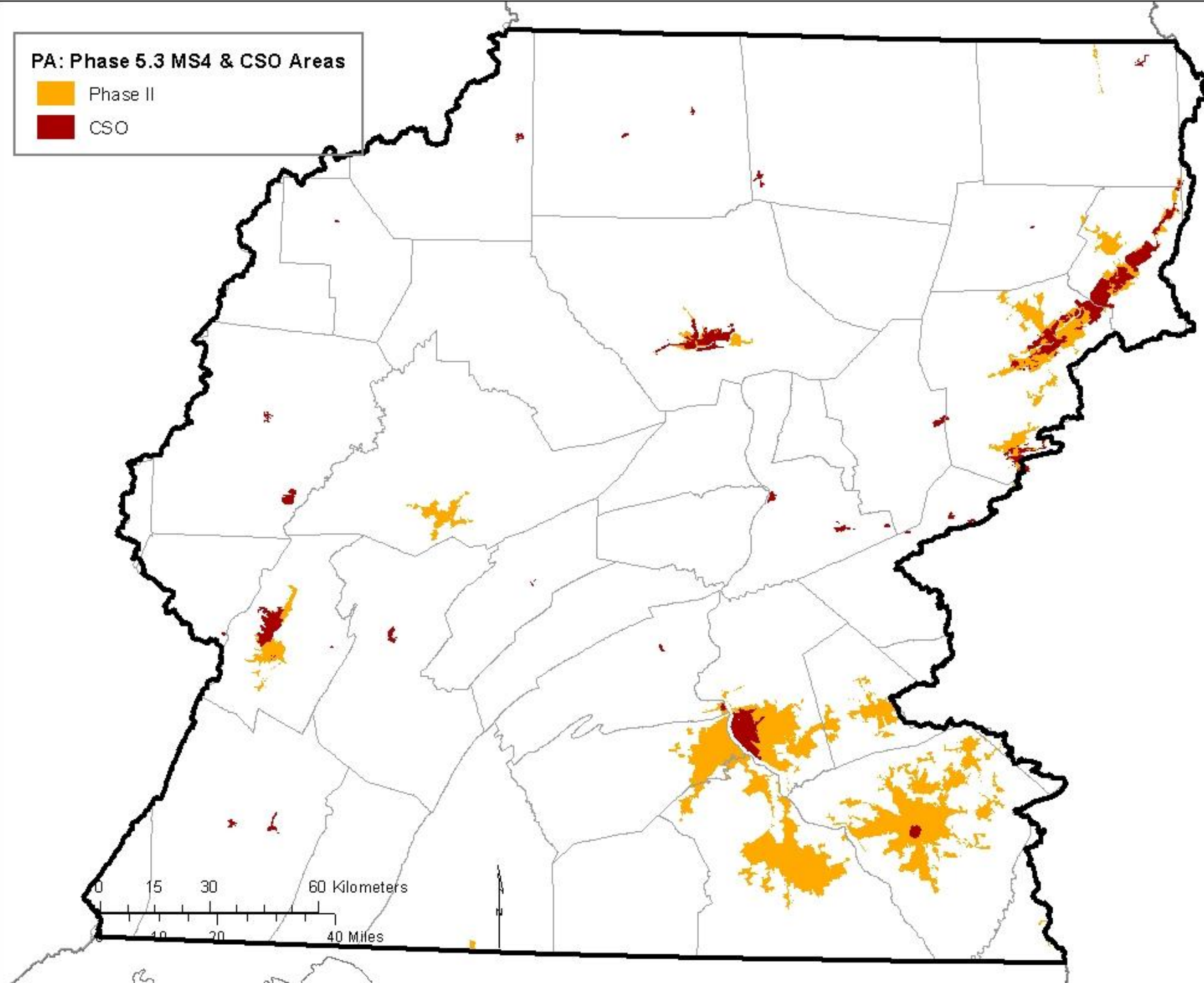
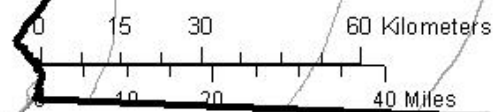
New York: Phase 5.3 MS4 & CSO Areas

-  Phase II
-  CSO



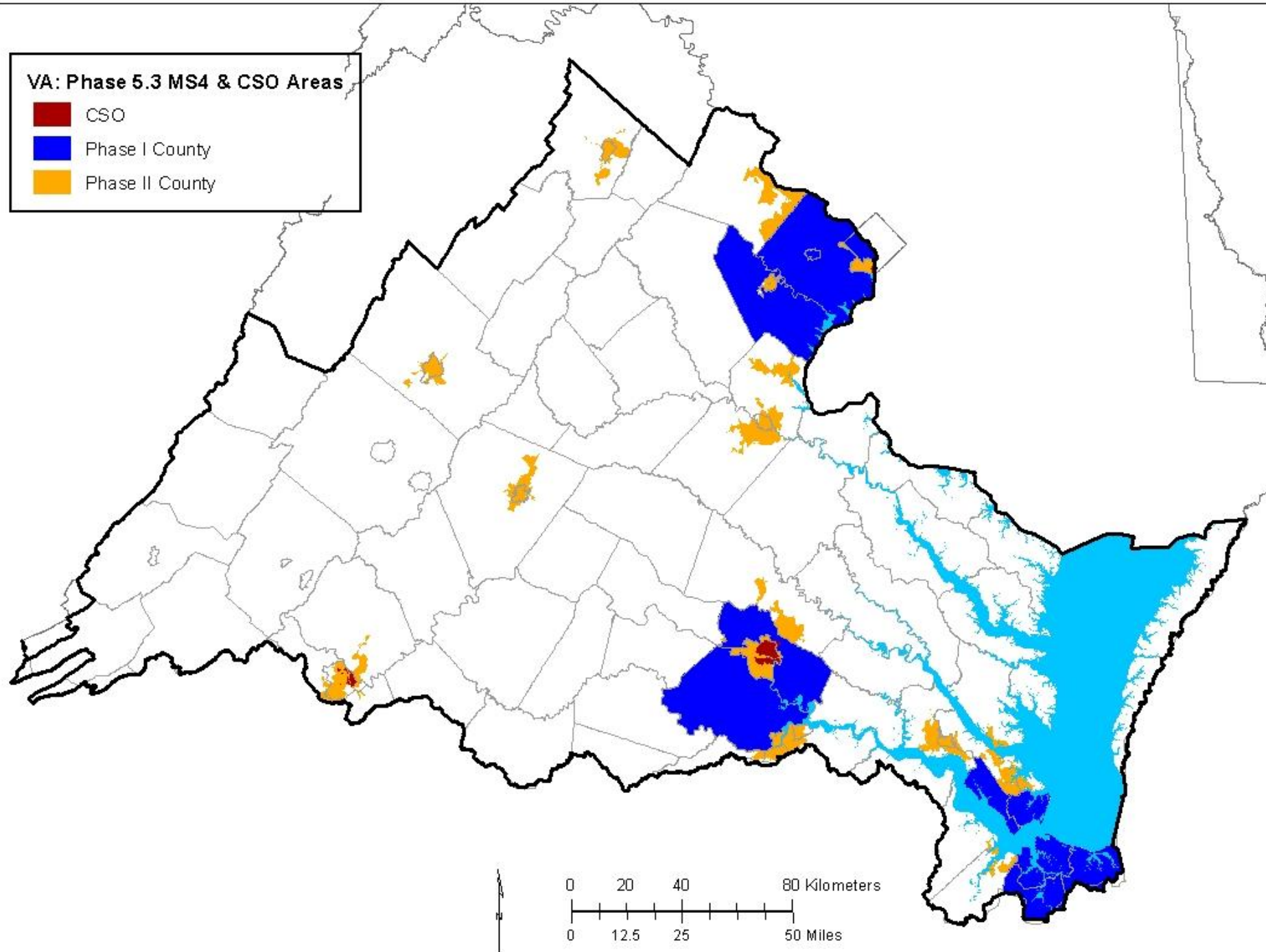
0 12.5 25 50 Kilometers
0 5 10 20 Miles

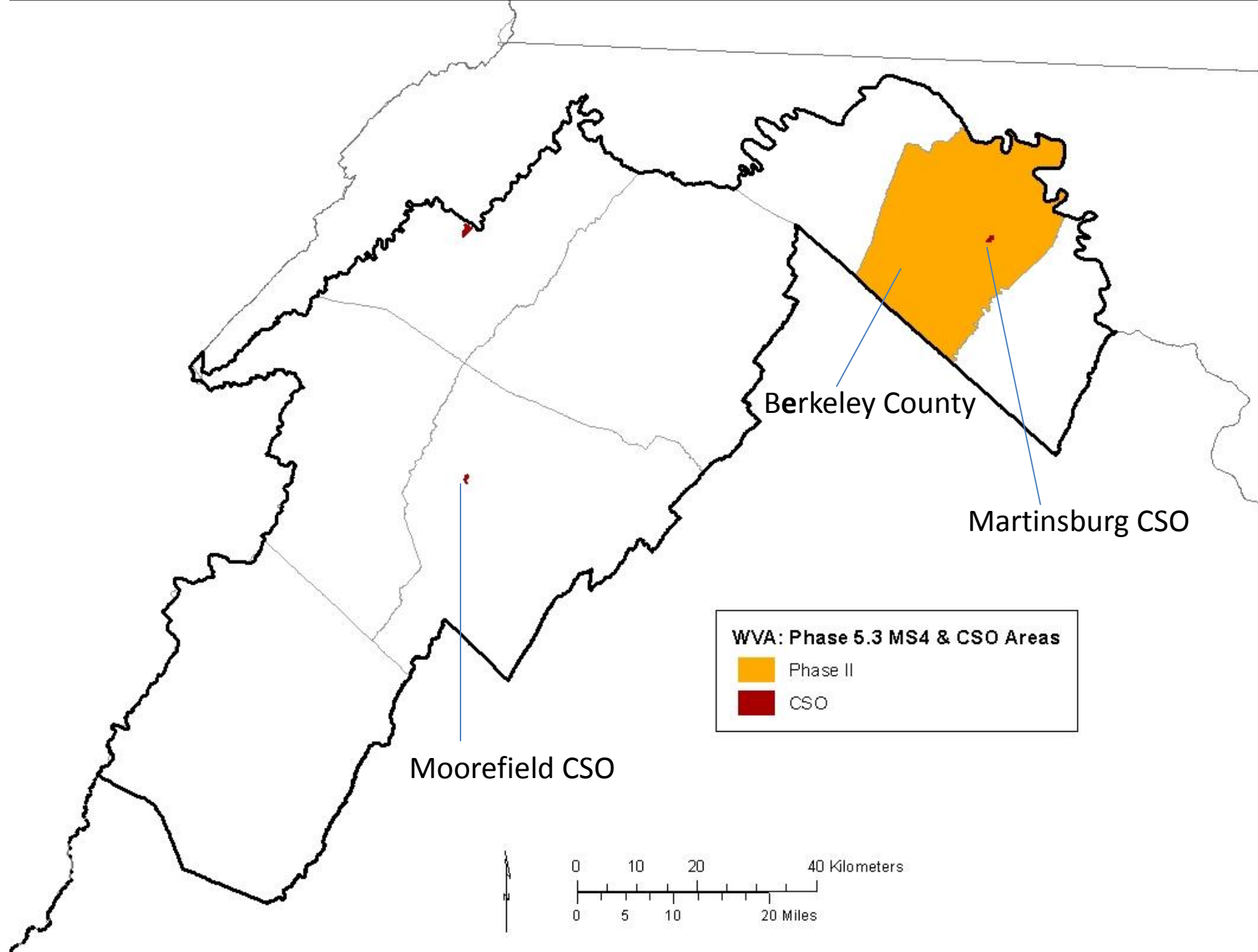
PA: Phase 5.3 MS4 & CSO Areas



VA: Phase 5.3 MS4 & CSO Areas

- CSO
- Phase I County
- Phase II County





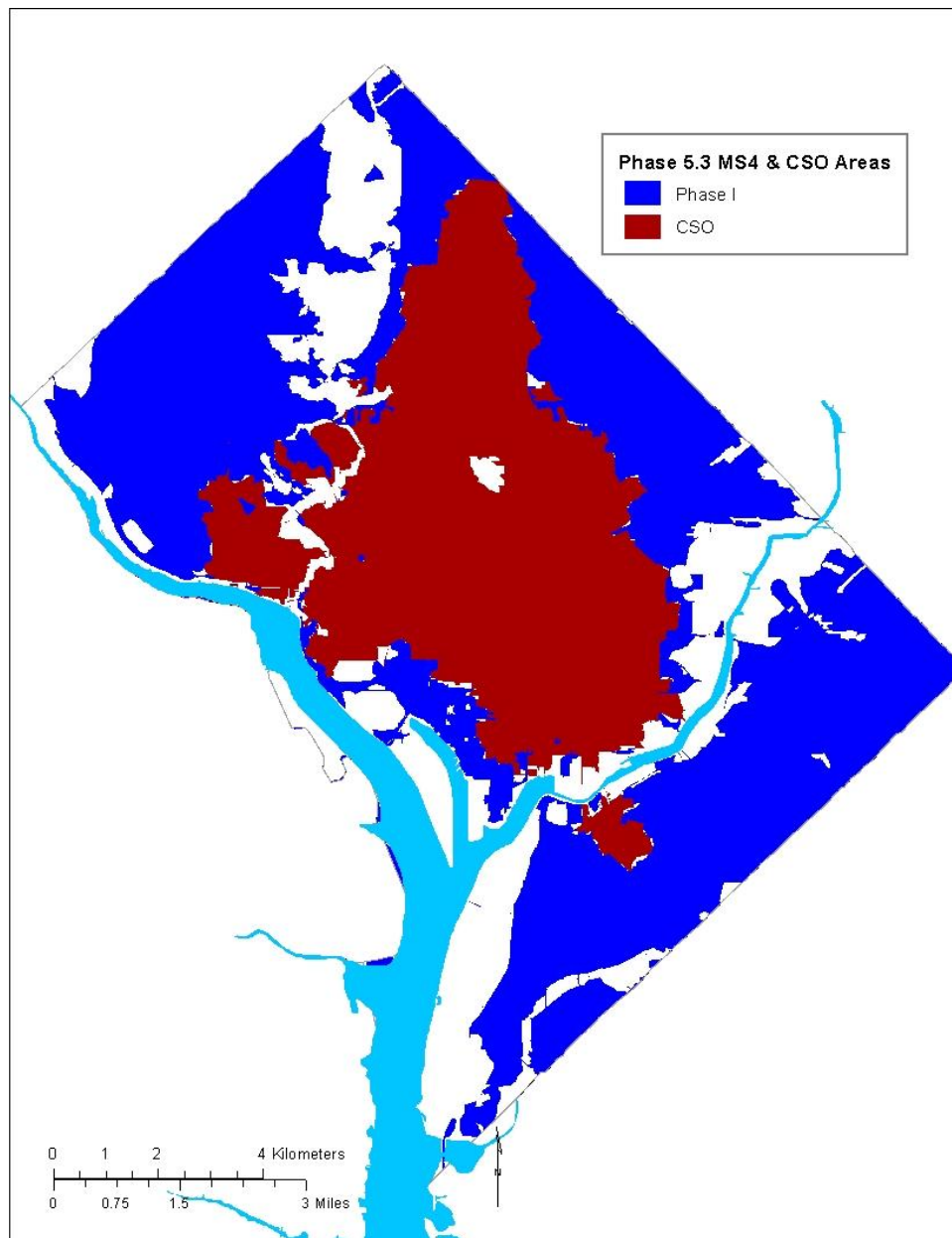
Phase 5.3 MS4 & CSO Areas

 Phase I

Unincorporated New Castle County, DE

0 5 10 20 Kilometers
0 5 10 20 Miles

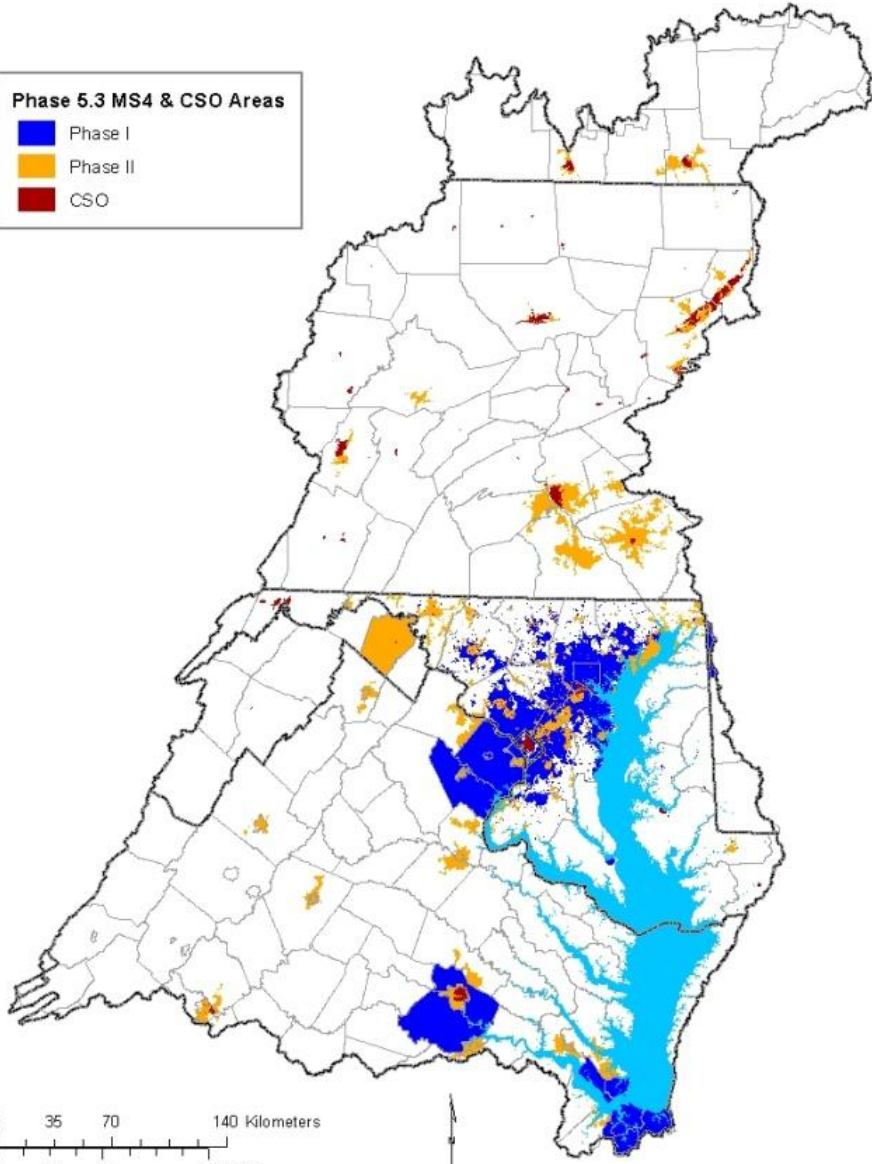




District
Of
Columbia

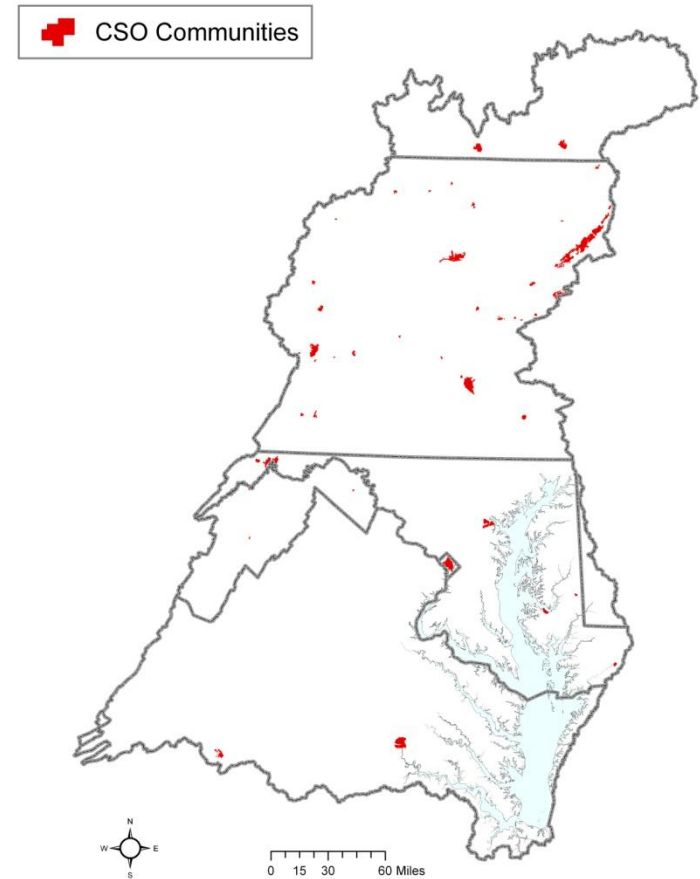
Phase 5.3 MS4 & CSO Areas

Phase I
Phase II
CSO



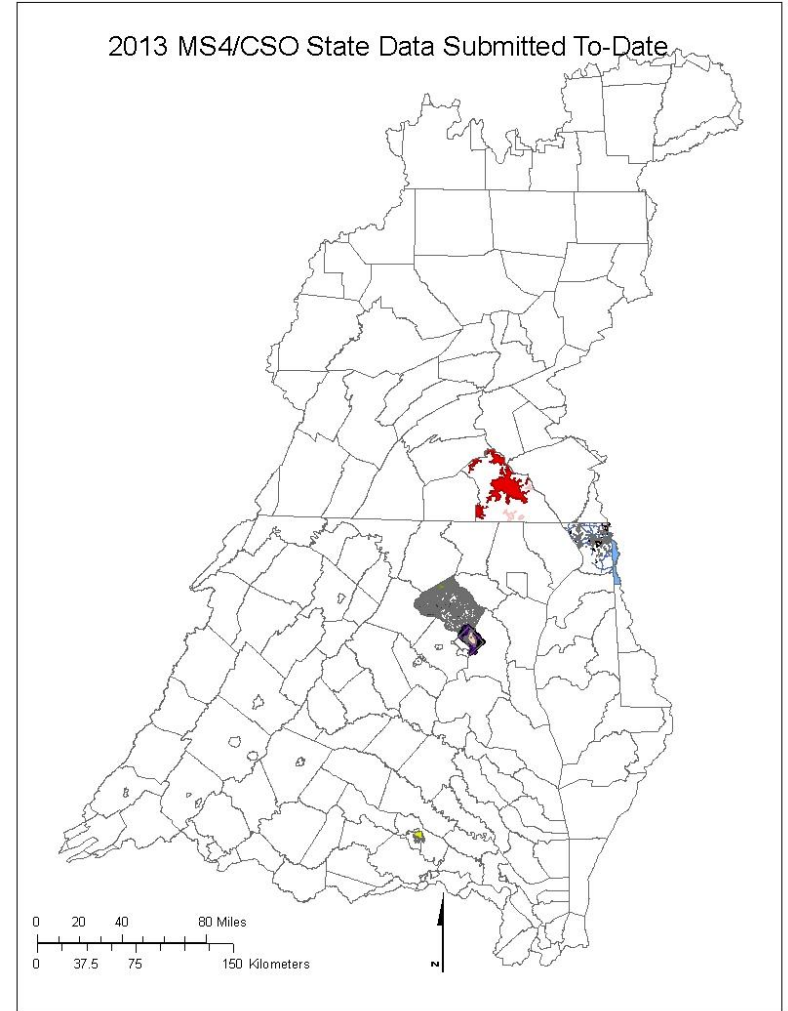
Erata

- Consider in Phase 6 Update



New Data Submitted by States for Phase 6 To-Date

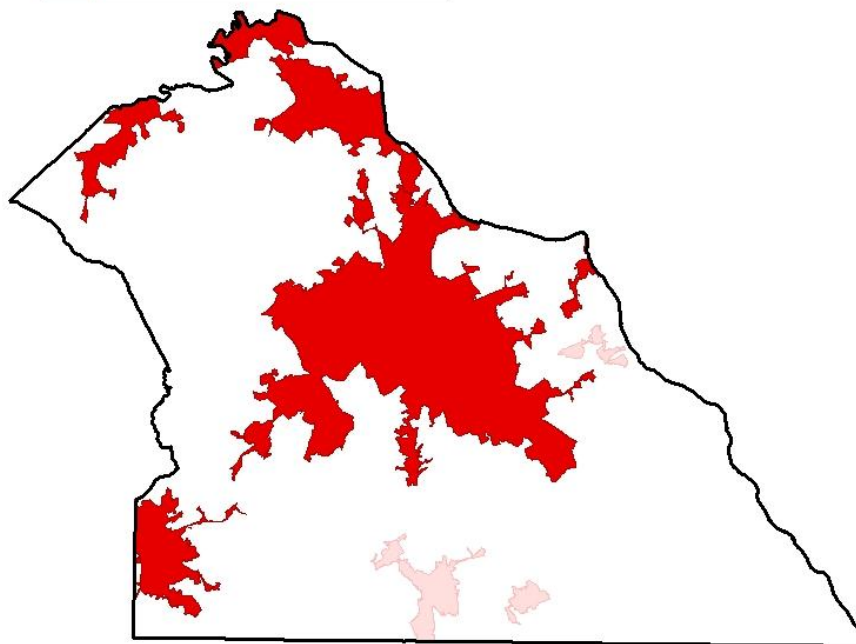
- Five States
 - PA:York Co.
 - DE: All
 - MD: Montgomery and Cecil Cos
 - VA: Richmond
 - DC: ?



2013 MS4/CSO State Data Submitted To-Date

York County, PA
PA-York 2010_census_urbanized_areas
Type

Urban Area
Urban Cluster

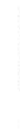
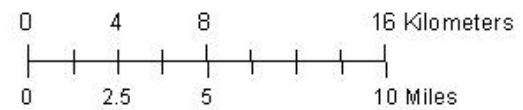


0 3.25 6.5 13 Miles
0 5 10 20 Kilometers

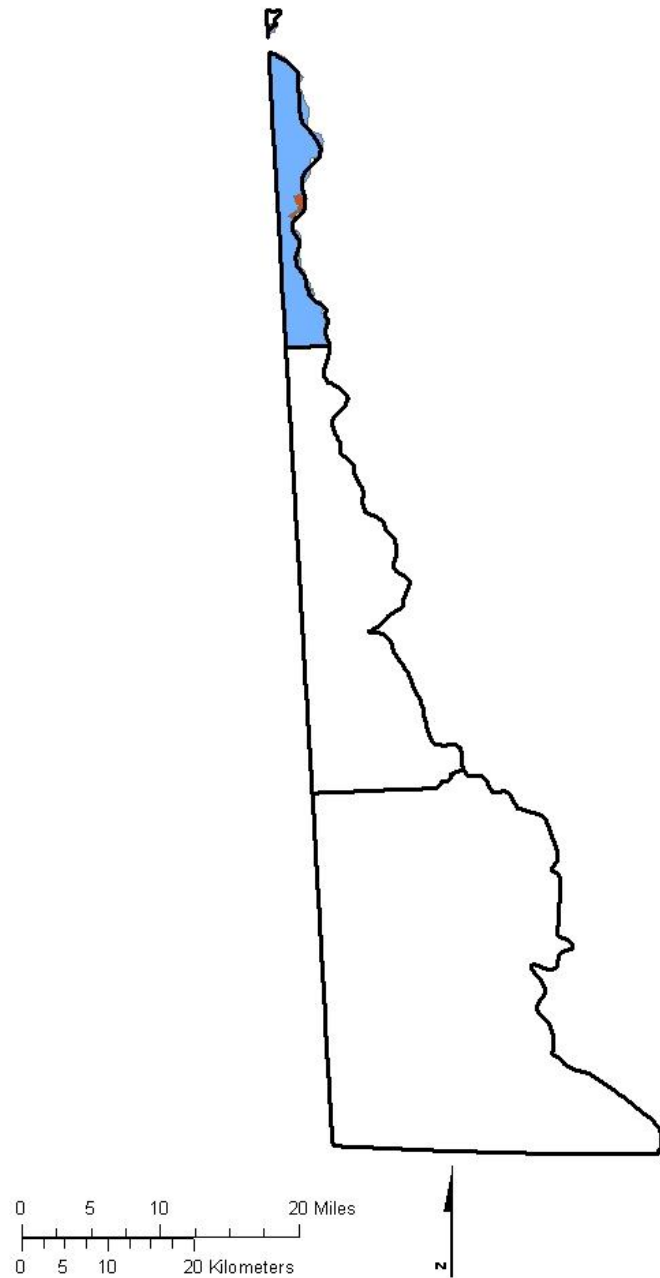


York, PA: Phase 5.3 MS4 & CSO Areas

-  Phase II
-  CSO





2013 MS4/CSO State Data Submitted To-Date



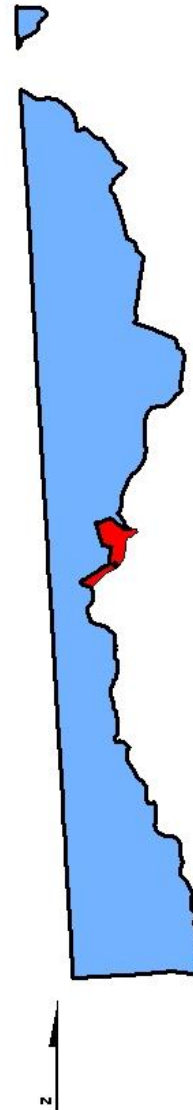
2013 MS4/CSO State Data Submitted To-Date

DE: All

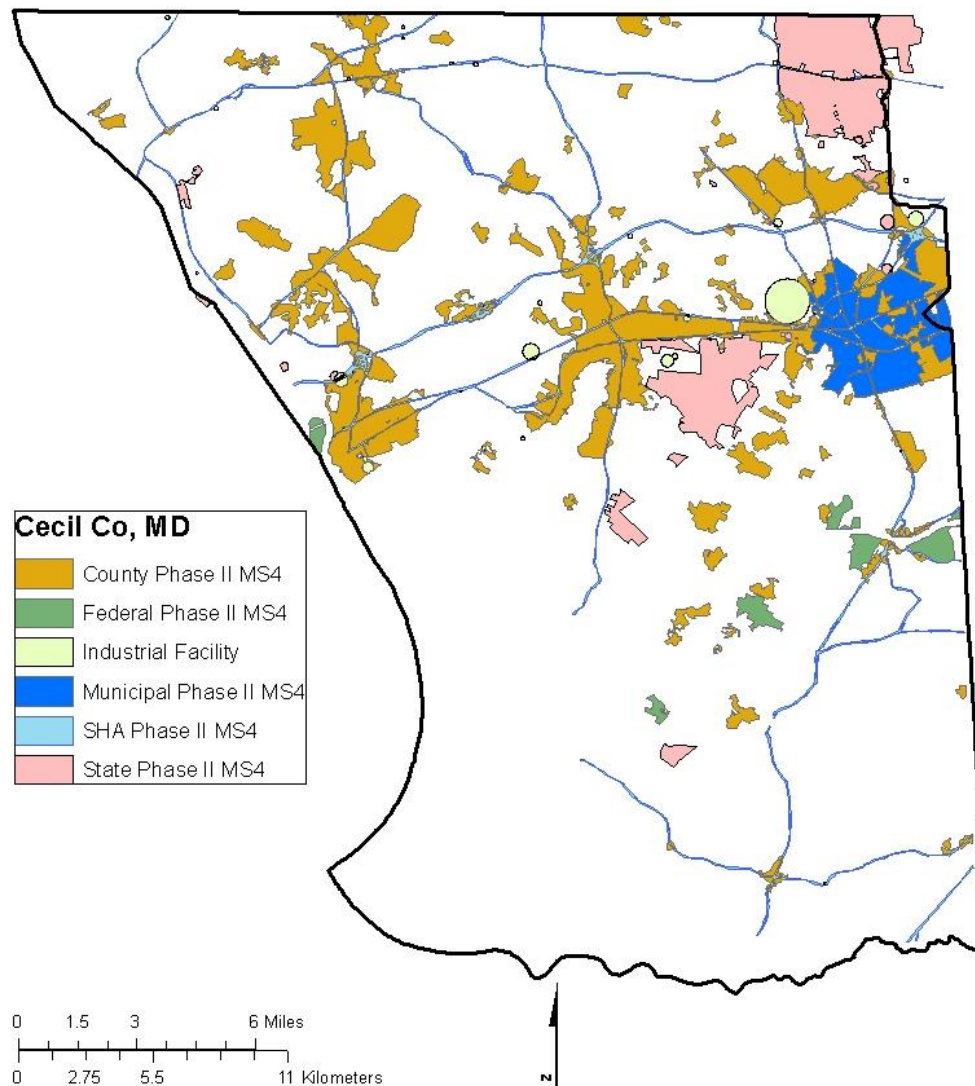
Area

-  Phase II: Town of Middletown
-  Phase I: Unincorporated New Castle County

0 1.5 3 6 Miles
0 2.75 5.5 11 Kilometers



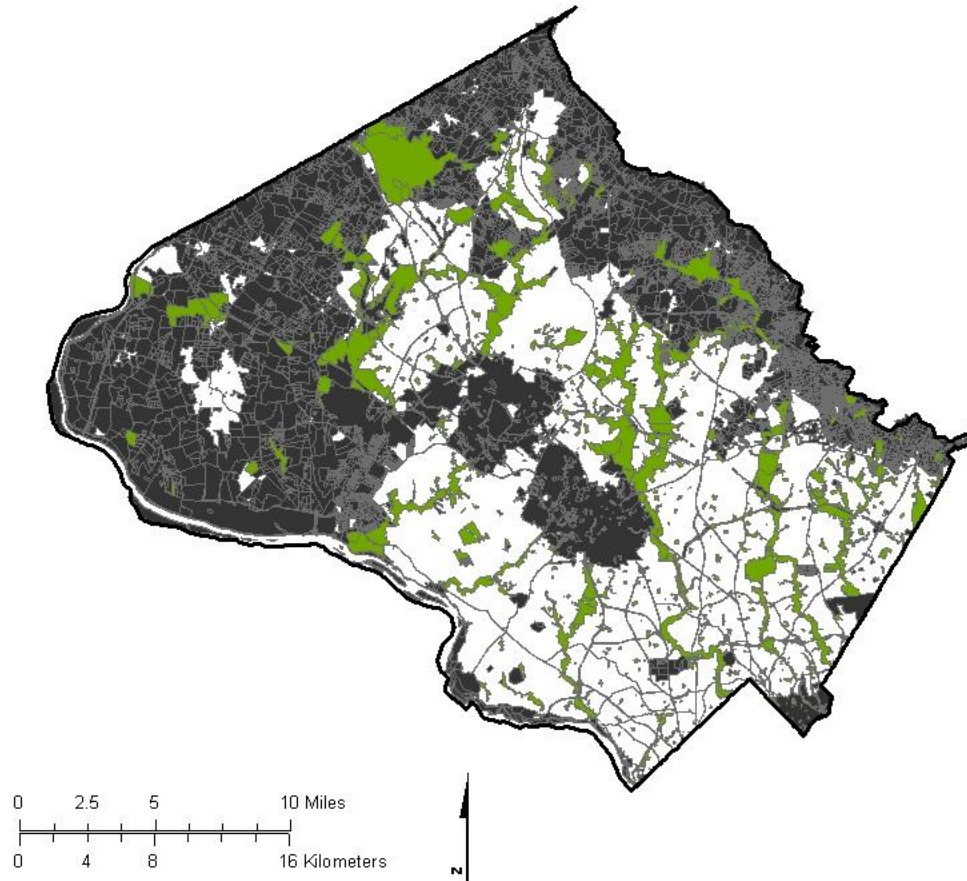
2013 MS4/CSO State Data Submitted To-Date



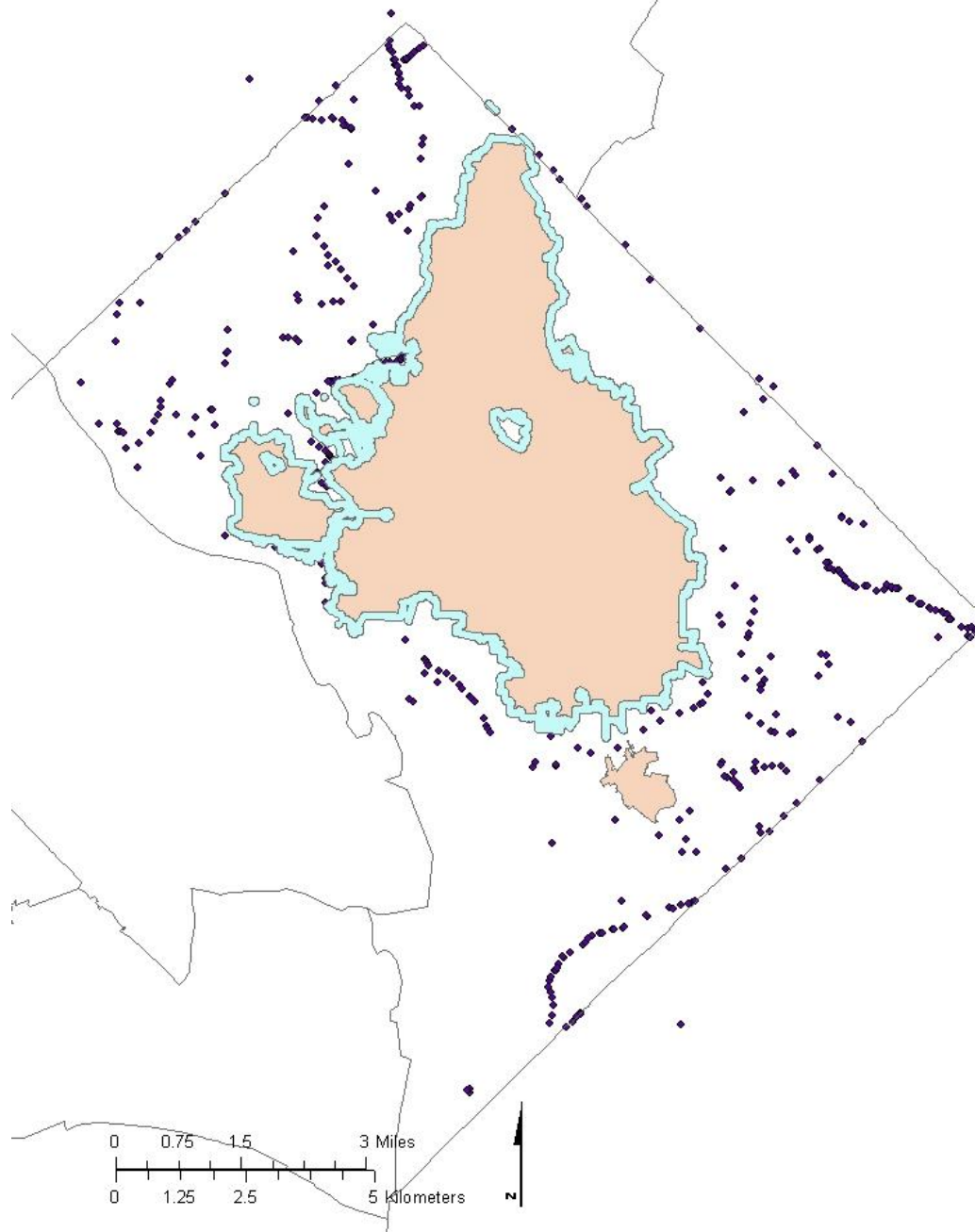
2013 MS4/CSO State Data Submitted To-Date

Montgomery County

- MNCPPC_Montgomery_Parks_MS4_Permit_Area
- MS4_Exclusion_Areas
- MS4_Exclusion_Areas_StFed_Roads



2013 MS4/CSO State Data Submitted To-Date



Attribute Tables

Table - MNCPPC_Montgomery_Parks_MS4_Permit_Area

PA-York 2010_census_urbanized_areas

FID	Shape	Type	Name
0	Polygon	Urban Cluster	Stewartstown, PA
1	Polygon	Urban Area	York, PA
2	Polygon	Urban Cluster	New Freedom--Shrewsbury, PA--MD
3	Polygon	Urban Cluster	East Prospect, PA
4	Polygon	Urban Area	Hanover, PA
5	Polygon	Urban Area	Harrisburg, PA
6	Polygon	Urban Area	Lancaster, PA

CSO Sewershed Ply PA-York 2010_census_urbanized_areas

MNCPPC_Montgomery_Parks_MS4_Permit_Area

FID	Shape *	OBJECTID	STATUS	OWNER	PARK_NAM	FACILITY_C	TYPE_	AUTHORITY	APPROVAL	ACRES	URL	PLANNINGAR	ACQUISITIO	SHAPE_AREA	SHAPE_LEN
0	Polygon	59166	Existing	M-NCPP	Owens LP	D86	Local			32.08623	http://www.			1397670.60397	5070.917101
1	Polygon	58666	Existing	M-NCPP	Wheaton Re	G12	Regional			538.98791	http://www.			23464159.3816	31110.664989
2	Polygon	58939	Existing	M-NCPP	Capital Cresc	H06	Special			44.107199	http://www.			1921301.92138	36457.465266
3	Polygon	58941	Existing	M-NCPP	Rachel Cars	G09	Conservation	Olney Master	2005	797.513281	http://www.			34739549.183	59666.439202
4	Polygon	58945	Existing	M-NCPP	Broadacres	D14	Local			13.300989	http://www.			579388.746086	3582.002715
5	Polygon	58953	Existing	M-NCPP	King's Crossi	E69	Local		2006	9.930588	http://www.			432574.662163	3407.937187
6	Polygon	58955	Existing	M-NCPP	Pinecrest LP	D89	Local			5.050509	http://www.			219999.303432	1932.43789
7	Polygon	58956	Existing	M-NCPP	McKenney Hi	B34	Neighborhood			12.363049	http://www.			538532.245958	4050.147888
8	Polygon	58957	Existing	M-NCPP	Stratton LP	E09	Local			10.946185	http://www.			476813.898263	3431.683862
9	Polygon	58958	Existing	M-NCPP	Kensington C	D59	Local			3.831189	http://www.			166885.910207	1913.623109
10	Polygon	58961	Existing	M-NCPP	Josiah Hens	L17	Special	Legacy Ope		1.428598	http://www.			62229.465552	1063.599575

MNCPPC_Montgomery_Parks_MS4_Permit_Area

2013 Contacts

FIPS	CountyName	Contact	StormwaterReg	
51810	Virginia Beach	Mark S Passaro, mpassaro@vbgov.com, 757-385-1828; Jennifer Tribo [jtribo@hrpdcva.gov]	Recieved 2013 (Stormwater)	
51059	Fairfax	Darold Burdick 703-324-5802	Recieved 2013 (MS4_SERVICE_AREAS)	
51760	Richmond	Contact info needed	Recieved 2013 (MS4_CSS)	
51510	Alexandria	William J. Skrabak William.Skrabak@alexandriava.gov, Lalit K. Sharma Lalit.Sharma@alexnadriava.gov, 703-746-4065	Recieved 2013 (MS4_areas)	
51093	Isle of Wight	Herb Finch, hfinch@isleofwightus.net, 757-365-6337; Jennifer Tribo [jtribo@hrpdcva.gov]	Recieved 2013 (IsleOfWight_MS4)	
51830	Williamsburg	TED LYMAN [TLYMAN@williamsburgva.gov] 757-220-6173; Jennifer Tribo [jtribo@hrpdcva.gov]	Recieved 2013 (CorpBoundary)	
51820	Waynesboro	Pultz, Keith D. [pultzkd@ci.waynesboro.va.us] (540)942-6500	Received 2013 (Utilities)	
42029	Chester	Cathy Sbarbaro - Tech Services Manager, csbarbaro@chesco.org; Steve Cummings - Tech Services Specialist scummings@chesco.org; Phone: 610-344-6285	Received 2013 (MS4_Municipalities)	
42133	York	Wade Gobrecht, Joe Simora, Tanya Wall [planner@ycpc.org, 717-771-9870]	Received 2013 (MS4)	
10001	Kent	Bryan Bloch, bryan.bloch@state.de.us	2013 (ChesMS4)	
10003	New Castle	Bryan Bloch, bryan.bloch@state.de.us	2013 (ChesMS4)	
10005	Sussex	Bryan Bloch, bryan.bloch@state.de.us	2013 (ChesMS4)	
51710	Norfolk	Jennifer Tribo [jtribo@hrpdcva.gov]	2011 (MS4 Area)	
11001	District of Columb	Contact info needed	2004-2006 (StormSewerSystemPly, MS4StormSewerShedPly, MS4StormSewershedImpervArea, MS4OutfallPt, CSO_MS4_BorderPly, CSOSewershedPly)	
51095	James City	Kim Hazelwood, 757-253-6654, kim.hazelwood@jamescitycountyva.gov ; Jennifer Tribo [jtribo@hrpdcva.gov]	2000 (UrbanizedArea2000)	

Original Phase 5.3 State Contacts.

State	303d	MS4
Maryland	Matt Stover	Lee Currey
	MDE	MDE
		lcurrey@mde.state.md.us
		Richard Eskin <reskin@mde.state.md.us>,
		'Jim George' <jgeorge@mde.state.md.us>,
		"Raymond Bahr" <rbahr@mde.state.md.us>
Pennsylvania	Brian Chalfant	Bill Brown
	DEP	willbrown@state.pa.us
	717-787-9639	
	bchalfant@state.pa.us	
Virginia	Cleo Stevens	Karl Huber
	DEQ	DCR
	804-698-4191	(804) 371-7484
		karl.huber@dcr.virginia.gov
		Russ Perkinson
		russ.perkinson@dcr.virginia.gov,
		Alan Pollock <aepollock@deq.virginia.gov>,
		Check with Jenny – Lee Hill or Doug Fritz?
Delaware	Dave Wolanski	Mirsajadi Hassan
	DNREC	DNREC
	302-739-9939	Walls Jennifer L. (DNREC) <Jennifer.Walls@state.de.us>,
		John Schneider (DNREC) <john.schneider@state.de.us>,
New York	Jeff Myers	Ron Entringer
	(518)402-8286	raentrin@gw.dec.state.ny.us
	jamyers@gw.dec.state.ny.us	Jacqueline Lendrum <jmlendru@gw.dec.state.ny.us>,
West Virginia	Chris Doherty	Sherry Wilkins
	John Wirts	DEP
	JWIRTS@wvdep.org	304-926- 0499 ext. 1048
		SWILKINS@wvdep.org
		(WV was derived from Martinsburg urban area boundary)
		Teresa Koon <Teresa.M.Koon@wv.gov>,
		Dave Montali
		David A Montali <David.A.Montali@wv.gov>,
D.C.		"Sand, Sarah (DDOE)" <sarah.sand@dc.gov>,
		Collin Burrell <collin.burrell@dc.gov>,