

Non-Tidal Monitoring Network

20 February 2013

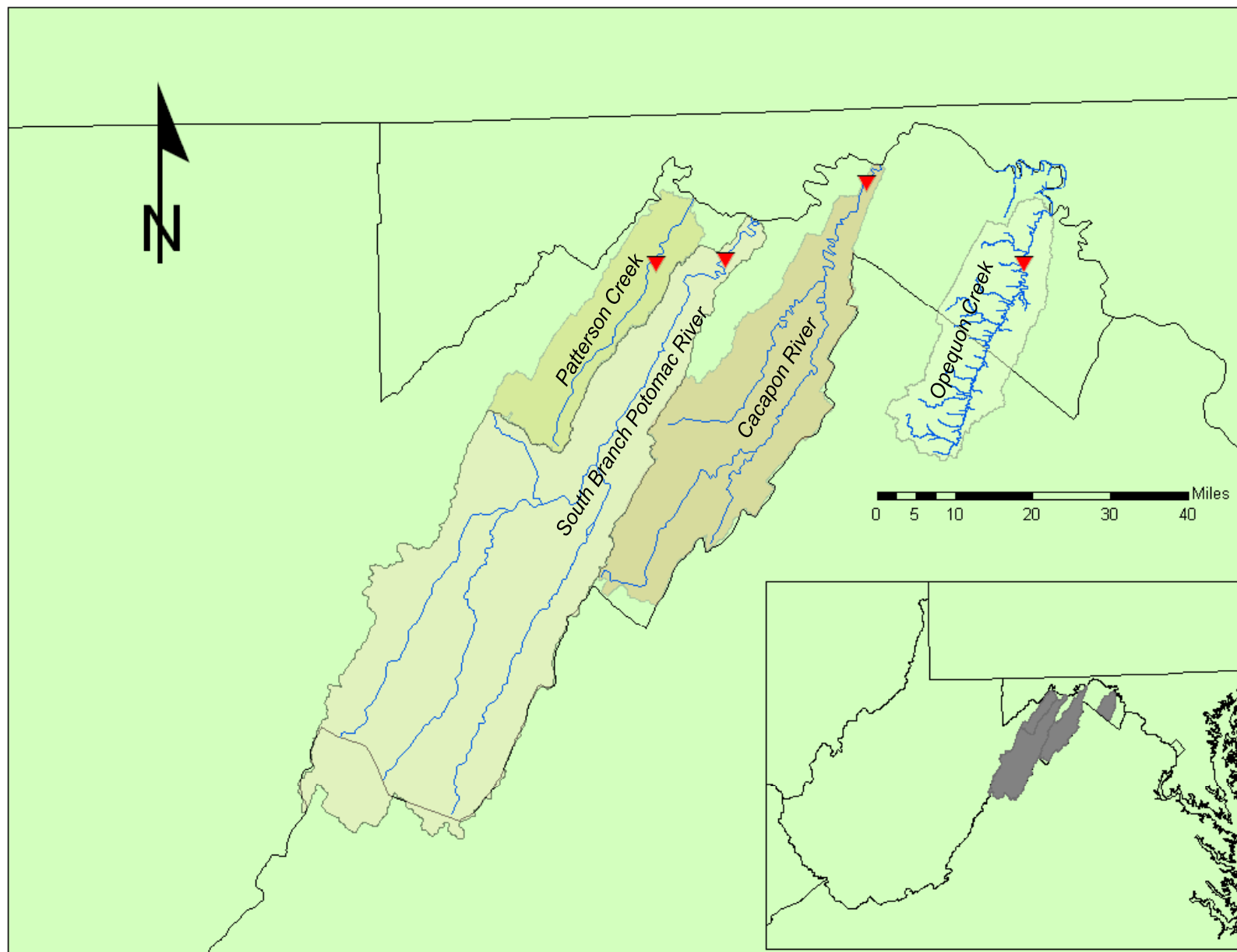
USGS West Virginia Water Science Center

Sampling Program

- Chesapeake Bay Program requirements
 - Depth- and width-integrated samples
 - Isokinetic samplers
 - 12 monthly samples
 - Nutrients
 - Suspended sediment concentration
 - Total suspended solids
 - 8 storm samples
 - Addition of one sand/fine split analysis per quarter for suspended sediment samples

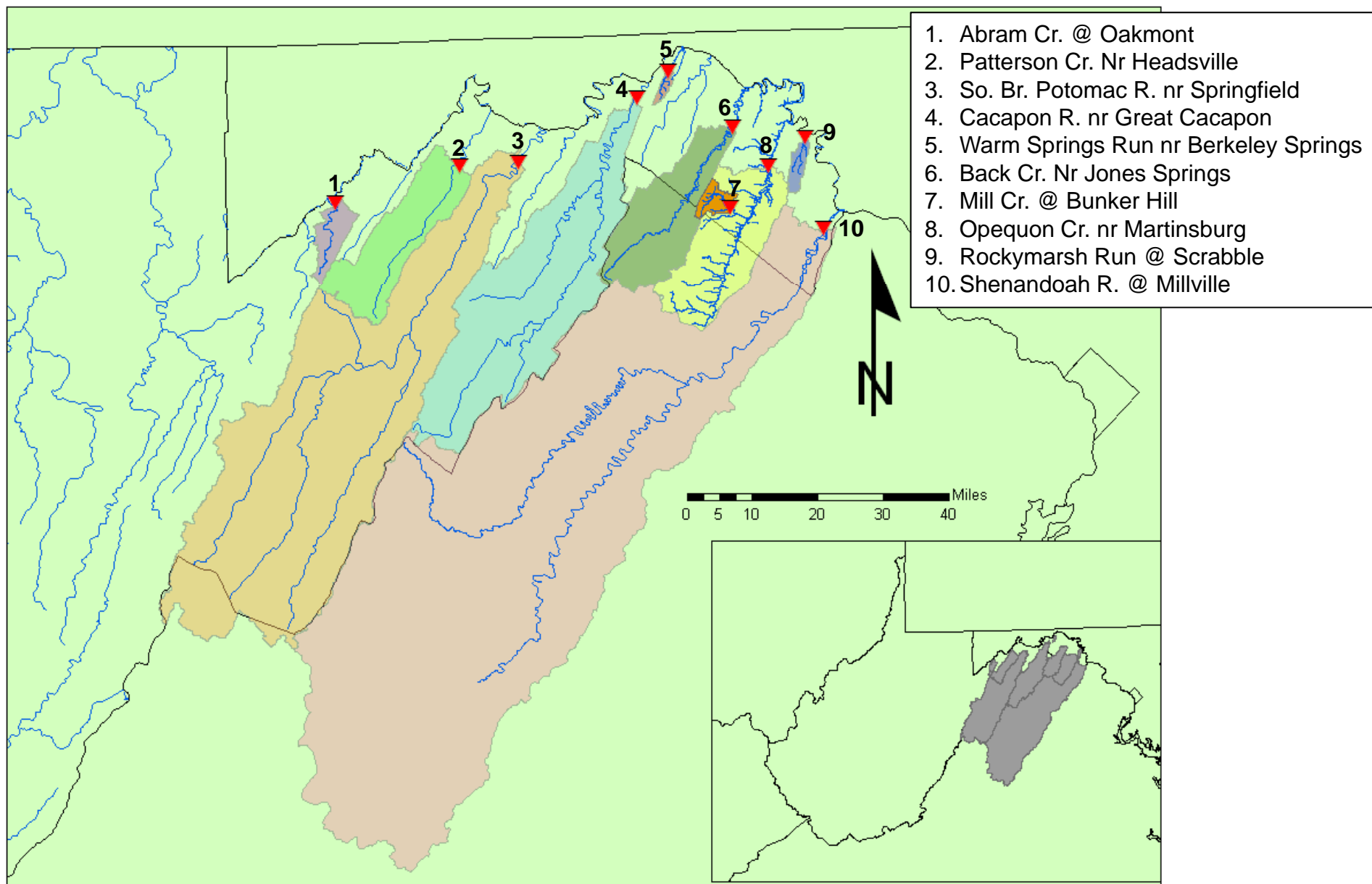
Non-Tidal Primary Site Analytical Parameters

- Field parameters
 - Water temperature
 - Specific conductance
 - pH
 - Dissolved oxygen
- Total Nitrogen
- Dissolved Nitrate-Nitrite
- Dissolved Nitrite
- Dissolved Ammonium
- Total Phosphorus
- Dissolved Orthophosphorus
- Total Suspended Solids
- Suspended sediment concentration
- Sand/Fine split (1 storm sample per quarter)



Network Expansion

- In 2011 added three new sites:
 - Warm Springs Run near Berkeley Springs, WV (USGS 01613030)
 - Mill Creek at Bunker Hill, WV (USGS 01606400)
 - Rockymarsh Run at Scrabble, WV (USGS 01618100)
- In 2012 added three more new sites:
 - Abram Creek at Oakmont, WV (USGS 01595300)
 - Back Creek near Jones Springs, WV (USGS 01606400)
 - Shenandoah River at Millville, WV (USGS 01636500), with Maryland DNR



Station Number	Site	Period of Record for discharge	Drainage Area (mi ²)	Mean Annual Discharge (cfs)
01595300	Abram Creek at Oakmont	August 1956 to September 1982	42.6	68.5
01604500	Patterson Creek near Headsville	Aug. 1938 to Present Year	211	170.1
01608500	South Branch Potomac River near Springfield	Aug. 1938 to Present Year	1,486	1,332
01611500	Cacapon River near Great Cacapon	December 1922 to September 1995, October 1996 to Present Year	675	582
1614000	Back Creek near Jones Springs	October 1928 to September 1931, September 1938 to September 1975, October 1992 to September 1998, June 2004 to Present year	235	196
01616500	Opequon Creek near Martinsburg	July 1947 to Present Year	273	239.7
01613030	Warm Springs Run near Berkeley Springs	October 2011 to Present Year	6.6	TBD
01616400	Mill Creek at Bunker Hill	October 2011 to Present Year	19.8	TBD
01618100	Rockymarsh Run at Scrabble	April 2008 to Present Year	15.9	10.56
01636500	Shenandoah River at Millville	April 1895 to March 1909, August 1928 to current year	3,041	2,756

Questions?

