

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Citizen Monitoring Programs				
Ambient Water Quality Monitoring	ALUS – Dissolved Oxygen, pH, Salinity, Temperature, Turbidity	Alliance for the Chesapeake Bay Anna Mathis 804-775-0951 www.acb-online.org	QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen and temperature data collected using EPA protocols are acceptable for assessment use. Dissolved oxygen and pH results not following EPA protocols are acceptable for assessment for water quality as VA Category 3C or 3D. Data for Secchi depth, and salinity not used for assessment due to no state water quality standard.	Reference February 12, 2004 letter to Alliance for the Chesapeake Bay. 77 stations with 3,224 sample events over the six year assessment window.
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, Nutrients, pH, Temperature	Ashburn Village Monitors Shannon Groves	QA/QC review by DEQ James Beckley, 804-698-4025. Based on review of the analytical methods used, temperature, DO, ammonia, and nitrate were determined unacceptable for assessment.	Reference letter February 15, 2008 to Shannon Groves. 12 stations monitored from 2005 to 2006
Benthic Macroinvertebrate Monitoring	ALUS – Benthic	Audubon Naturalist Society Cliff Fairweather 703-803-8400 www.audubonnaturalist.org	QA/QC plan and SOPs for benthic macroinvertebrates were reviewed and data was used for VA Category 3C and 3D assessment	8 stations with 43 sampling events from January 2005 to December 2006.
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, pH, Temperature, pH SWIM-Fecal Bacteria	Blackwater Nottoway Riverkeeper Jeff Turner 757-562-5173 www.blackwaternottoway.com	QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen, E. coli, pH, and Temperature were used for assessment of water quality as VA Category 3C or 3D	Reference letter February 11, 2010 to Jeff Turner. 14 stations with 171 sample events collected from March 2006 to December 2010.

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Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, pH, Temperature	Bull Run Mountains Conservancy Michele Thieme 703-753-2631 www.brmconservancy.org	QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen, pH, and Temperature were used for assessment of water quality as VA Category 3C or 3D	Reference letter February 11, 2010 to Michele Thieme. 7 stations with 15 sample events collected between Mat 2005 to April 2006
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, pH, temperature	Chesapeake Bay Governors School/ Tidewater RC&D Patricia Hall-Tidewater RC&D 804-642-4852 www.tidewaterrcd.org	QA/QC review by DEQ James Beckley 804-698-4025 Dissolved oxygen, pH, and temperature data using EPA protocols is acceptable for assessment use.	Reference QAPP signed October 2003. 4 stations with 16 sample events from February to March 2006
Ambient Water Quality Monitoring	SWIM – E. coli	Clean Virginia Waterways/ Longwood University Katie Register- CVW 434-395-2602 David Buckalew- Longwood 434-395-2586 www.longwood.edu/cleanva	QA/QC review by DEQ James Beckley, 804-698-4025 E. coli data collected using EPA protocols are acceptable for assessment use.	23 stations with 639 sample events over the six year assessment window.
Ambient Water Quality Monitoring	SWIM – E. coli	Cowpasture River Preservation Association Polly Newlon 540-474-2858 http://cowpastureriver.org/	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	15 stations with 320 sample events from January 2007 to December 2009
Ambient Water Quality Monitoring	ALUS- Temperature SWIM- E. coli	Cubitt Creek Monitors	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	10 stations with 70 sample events from March to September 2009

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Ambient Estuary Monitoring	ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria	Dividing Creek Association Skip Kramb http://dividing-creek-association.com	QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen, pH, temperature data using EPA protocols is acceptable for assessment use. E. coli Coliscan Easygel™ data is suitable to assess water quality as VA Category 3C or 3D.	Reference letter of February 11, 2010 to Skip Kramb. 48 stations with 627 sample events collected from March 2008 to December 2010.
Ambient Lake Monitoring	ALUS – Chlorophyll a, Dissolved Oxygen, Nutrients, pH, Secchi Depth, Temperature SWIM – Fecal Bacteria	Ferrum College/Smith Mountain Lake Association Dr. Carolyn Thomas 540-365-4368 www.smlassociation.org	QA/QC review by DEQ James Beckley, 804-698-4025 After reviewing sample collection protocols, and lab audit, dissolved oxygen, E. coli, pH, and temperature were acceptable for assessment use. Chlorophyll a and total phosphorus data is suitable to assess water quality as VA Category 3C or 3D.	Reference letter of February 11, 2010 to Dr. Thomas. 141 stations with 2,437 sample events collected during the six year assessment window.
Ambient Water Quality Monitoring	SWIM- Fecal Bacteria	Friends of Blacks Run Greenway John Reeves 540-433-9358	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to John Reeves. 15 stations with 152 observations from August 2005 to December 2006.
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria	Friends of Chesterfield's Riverfront Lorne Field 804-748-1920 www.chesterfieldriverfront.org	QA/QC review by James Beckley, 804-698-4025. E. coli, dissolved oxygen, pH, and temperature data is suitable to assess water quality as VA Category 3C or 3D.	Reference letter of February 11, 2010 to Friends of Chesterfield Riverfronts 32 stations with 1,062 sample events collected during the six year assessment window.
Ambient Water Quality Monitoring	SWIM- Enterococcus	Friends of Norfolk Environment John Stewart 757-623-8127	QA/QC review by James Beckley, 804-698-4025 Enterococcus protocol used is acceptable for assessment use.	11 stations with 132 sample events collected from January to December 2010

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Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, Nutrients, pH, Temperature, SWIM- E. coli	Friends of the North Fork Shenandoah River Leslie Mitchell-Watson 540-459-8550 http://www.fnfsr.org/	QA/QC review by DEQ James Beckley, 804-698-4025. The methods passing QA/QC checks are acceptable for assessment for ammonia, dissolved oxygen, pH, and temperature. Nitrite data only assessed for public water supply use.	Nitrate, orthophosphate, and turbidity not assessed due to no Virginia water quality standards for comparison. Laboratory analysis conducted by the Friends of Shenandoah River. 9 stations with 107 sample events collected from April to December 2010
Ambient Water Quality Monitoring	ALUS – Dissolved Oxygen, Nutrients, pH, Temperature SWIM- E. coli	Friends of the Shenandoah River Karen Andersen 540-665-1286 www.fosr.org	QA/QC review by DEQ James Beckley, 804-698-4025. The methods passing QA/QC checks are acceptable for assessment for ammonia, dissolved oxygen, E. coli, pH, and temperature. Nitrite data only assessed for public water supply use.	Nitrate, orthophosphate, and turbidity not assessed due to no Virginia water quality standards for comparison. 257 stations with 11,972 sample events collected during the six year assessment window
Ambient Water Quality Monitoring	ALUS- Temperature SWIM- E. coli	Friends of Russell Fork http://forf.weebly.com/	QA/QC review by DEQ James Beckley, 804-698-4025 E. coli, and temperature data is suitable to assess water quality as VA Category 3C or 3D.	19 stations with 317 sample events collected from January 2009 to June 2010.
Ambient Water Quality Monitoring	SWIM- E. coli	George Mason High School Dr. Peter Mecca 703.248.5500 ext. 3043	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	4 stations with 56 sample events from February 2009 to December 2010.
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria	Goose Creek Association Andrea Rosse 540-687-3073 www.goosecreekassn.org	QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen, pH, temperature data meeting QA/QC requirements, and are acceptable for assessment.	Reference letter February 15, 2008 to Hazle Edens. 23 stations with 667 sample events collected during the six year assessment window.

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			E. coli used for assessment of water quality as VA Category 3C or 3D	
Ambient Water Quality Monitoring	ALUS – Dissolved Oxygen, Nutrients, pH, Temperature, Total Suspended Solids	Historic Green Springs, Inc. 540-967-1099	QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen and total phosphorus tests meeting QA/QC requirements, and temperature data are acceptable for assessment. Dissolved oxygen, total phosphorus data not meeting QA/QC requirements and pH data were determined acceptable for assessment of water quality as VA Category 3C or 3D.	Reference letter February 11, 2010 to Robin Patton. Data for TSS and total nitrogen were not used for assessment because the state does not have water quality standards for comparison. 7 stations with 165 sample events collected during the six year assessment window.
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen,	Hoffler Creek Wildlife Foundation Ashley Morgan 757-686-8684 www.hofflercreek.org/	QA/QC review by DEQ James Beckley, 804-698-4025 Dissolved oxygen, pH, and temperature data is suitable to assess water quality as VA Category 3C or 3D.	Secchi and salinity data not used for assessment because the state does not have water quality standards for comparison. 1 station with 23 sample events collected during 2009
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, pH, Temperature	Isle of Wight Ruritan Club Mitchell Norman	QA/QC review by DEQ James Beckley, 804-698-4025. Upon review of sample collection protocols, dissolved oxygen, pH, and temperature data is suitable to assess water quality as VA Category 3C or 3D.	Reference letter February 11, 2010 to Mitchell Norman. 3 stations with 60 sample events monitored during the 6 year assessment window.
Ambient Lake monitoring	ALUS – Dissolved Oxygen, Nutrients, pH, Secchi Depth, Temperature SWIM – Fecal Bacteria	Lake Anna Civic Association Ken Remmers www.lakeannavirginia.org	QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen, pH, temperature, total phosphorous and E. coli data are acceptable for assessment.	41 stations with 641 sample events over the six year assessment window.

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Ambient Lake monitoring	ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria	Leesville Lake Association Michael Lobue www.leesvillelake.org	QA/QC review by DEQ James Beckley, 804-698-4025. Dissolved oxygen, pH, temperature data are acceptable for assessment. E. coli Coliscan Easygel™ data is acceptable for VA Category 3C and 3D purposes.	Reference May 2007 Quality Assurance Project Plan. 12 stations with 368 sample events monitored from May 2007 to October 2010.
Benthic Macroinvertebrate Monitoring	ALUS – Benthic SWIM- E. coli	Loudoun Wildlife Conservancy David Ward www.loudounwildlife.org	QA/QC plan and SOPs for benthic macroinvertebrates reviewed. Benthic macroinvertebrate data were used for assessment of water quality as VA Category 3C or 3D. E. coli used for assessment of water quality as VA Category 3C or 3D	33 stations with 936 sample events collected during the six year assessment window.
Ambient Water Quality Monitoring	SWIM- Fecal Bacteria	Mattaponi and Pamunkey Rivers Association Joyce Brooks www.mpra.org/	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Joyce Brooks. 13 stations with 90 sample events.
Ambient Water Quality Monitoring	SWIM- Fecal Bacteria	McClure River Restoration Project Noreen Fleming 276-926-6621 http://lpswcd.org/MRRP/MRRP.htm	QA/QC review by James Beckley 804-698-4025. E. coli samples collected after August 2006 were determined acceptable for assessment	Reference letter February 15, 2008 to McClure River Restoration Project. 38 stations with 391 sample events.
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria	National Committee for the New River Courtney Wait 336-982-6267 www.ncnr.org	QA/QC Review by James Beckley 804-698-4025. Dissolved oxygen, and temperature data are suitable for assessment. E. coli and pH data suitable for VA Category 3C or 3D assessment.	Reference letter February 11, 2010 to Courtney Wait. 34 stations with 326 sample events collected from April 2008 to December 2010.

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Ambient Water Quality Monitoring	SWIM- Fecal Bacteria	Nelson County Master Gardeners www.nelsonmastergardeners.org	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	23 stations with 86 sample events collected from May to December 2008.
Ambient Water Quality Monitoring	SWIM- E. coli	Opequon Watershed Inc. Jim Lawrence 540-667-0761	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Jim Lawrence. 25 stations with 208 sample events. Stations are shared with Friends of Shenandoah River.
Ambient Water Quality Monitoring	ALUS- pH, Temperature SWIM- E. coli	Phi Theta Kappa- Blue Ridge Community College Larry Rasheed (540) 453-2388	QA/QC review by James Beckley, 804-698-4025 Calibrated pH probe data acceptable for assessment. E. coli and temperature data used for assessment of water quality as VA Category 3C or 3D	2 stations with 36 sample events from January to December 2010
Ambient Water Quality Monitoring	ALUS- pH, Salinity, Temperature SWIM – Fecal Bacteria	Poquoson Citizens for the Environment Philip Prisco 757-868-8785	QA/QC review by James Beckley, 804-698-4025. Temperature and pH data passing calibration checks are acceptable for assessment. E. coli used for assessment of water quality as VA Category 3C or 3D	32 stations with 305 sample events from January 2008 to December 2010.
Ambient Water Quality Monitoring	ALUS- Benthic, Dissolved Oxygen, pH, Temperature	Potomac Appalachian Trail Club Robert Pickett http://potomacappalachian.org	QA/QC review by James Beckley, 804-698-4025. Benthic macroinvertebrate, dissolved oxygen, pH, and temperature data are suitable for VA Category 3C or 3D assessment.	7 stations with 28 sample events collected from May 2005 to December 2008.

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Ambient Water Quality Monitoring	SWIM- Fecal Bacteria	Randolph Macon College Dr. Charles Gowan 804-752-7293	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Dr. Charles Gowan. 12 stations with 108 observations collected September 2005 to October 2006.
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria	RappFLOW Beverly Hunter 540-937-4038 www.rappflow.org	QA/QC review by James Beckley, 804-698-4025. E. coli, pH, temperature, and dissolved oxygen results were acceptable for of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Beverly Hunter. 20 stations with 89 observations collected from April 2006 to December 2006.
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, pH, Temperature SWIM- E. coli	Riverine Chapter of the Virginia Master Naturalists Kathleen Ogilvy 804-798-8362 www.virginiamasternaturalist.org/riverine.html	QA/QC review by James Beckley, 804-698-4025. E. coli, pH, temperature, and dissolved oxygen used for assessment of water quality as VA Category 3C or 3D	6 stations with 29 observations collected from March 2009 to December 2009.
Ambient Water Quality Monitoring	SWIM- Fecal Bacteria	Rockfish Valley Foundation Peter Agelasto www.rockfishvalley.org	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	6 sites with 48 sample events from December 2006 to September 2007
Ambient Water Quality Monitoring	SWIM- Fecal Bacteria	Save Little Pimmit Run http://savelittlepimmitrun.org	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	5 sites with 22 sample event from February to July 2008
Benthic Macroinvertebrate Monitoring	ALUS – Benthic SWIM- E. coli	StreamWatch Rose Brown 434-242-1145 www.streamwatch.org	QA/QC review by James Beckley, 804-698-4025. After completion of a validation study and review of protocols, StreamWatch Adopted Stream Condition Index (ASCI) is equal to DEQ protocols. Benthic	Reference letter February 11, 2010 to John Murphy. 72 stations with 787 sampling events collected over the six-year assessment window.

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			macroinvertebrate ASCI data is acceptable for assessment. E. coli used for assessment of water quality as VA Category 3C or 3D	
Ambient Water Quality Monitoring	ALUS – Dissolved Oxygen, Nutrients, pH, Secchi Depth, Temperature SWIM- Fecal Bacteria	Timberlake Homeowners Association	QA/QC review by James Beckley, 804-698-4025. Upon review of sampling methods, calibration logs, equipment and use of DCLS for laboratory analysis, data is acceptable for assessment purposes.	Reference letter February 15, 2008 to Kenneth Bumgarner. 11 stations with 114 sample events from January to July 2006
Ambient Water Quality Monitoring	SWIM- Fecal Bacteria	Upper Tennessee River Roundtable Martha Chapman 276-628-1600 www.upperrnriver.org	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Martha Chapman. 9 stations with 126 sample events collected from February 2006 to August 2007
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, pH, Temperature SWIM- E. coli	Virginia Karst Monitors Charles W. Maus 540-381-0790	QA/QC review by James Beckley, 804-698-4025 Dissolved oxygen, E. coli, pH, temperature used for assessment of water quality as VA Category 3C or 3D	10 stations with 44 sample events collected from March 2009 to December 2010.
Benthic Macroinvertebrate Monitoring	ALUS – Benthic	Virginia Save Our Streams Leah Miller 301-548-0150 x219 www.vasos.org	QA/QC plan and SOPs for benthic macroinvertebrates. James Beckley, 804-698-4025 Benthic macroinvertebrate data used for assessment of water quality as VA Category 3C or 3D.	Reference letter February 15, 2008 to Virginia Save Our Streams. 449 stations with 1,795 sampling events collected over the six-year assessment window.

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Soil and Water Conservation Districts				
Ambient Water Quality Monitoring	SWIM- Fecal Bacteria	Headwaters SWCD Sandy Greene 540-248-6218, ext. 3 www.headwatersswcd.org	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Sandy Greene. 14 stations with 65 sample events collected from March 2006 to December 2008
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, pH, Temperature, SWIM- Fecal Bacteria	John Marshall SWCD Chuck Hoysa 540 347-3120 www.fauquiercounty.gov/government/departments/jmswcd	QA/QC review by James Beckley, 804-698-4025. Dissolved oxygen, E. coli, pH, and temperature used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Chuck Hoysa. 35 stations with 1131 sample events collected over the six-year assessment window.
Ambient Water Quality Monitoring	SWIM- E. coli	Lord Fairfax SWCD http://lfswcd.org	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Lisa Zirkle. 12 stations with 233 sample events from November 2005 to October 2007.
Ambient Water Quality Monitoring	SWIM- E. coil	Prince William SWCD Kelly Jimenez 703-594-3621 www.pswcd.org	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	12 stations with 36 sample events from May to July 2010.
Ambient Water Quality Monitoring	SWIM- E. coil	Southside SWCD Patricia Mays 434-542-5342	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	21 stations with 412 sample events from April 2009 to December 2010.
Ambient Water Quality Monitoring	SWIM- E. coil	Thomas Jefferson SWCD Emily Nelson 434-975-0224 http://tjswcd.org/	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	11 stations with 161 sample events from July 2009 to December 2010

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DEQ Chesapeake Bay Program				
Chesapeake Bay Biological Monitoring	ALUS – Benthic B-IBI	DEQ-CBP Rick Hoffman 804-698-4334	Documented QA/QC Plan Rick Hoffman	Approx. 21 mainstem and tributary fixed stations, 100 random stations yearly
Chesapeake Bay Program Water Quality Monitoring	ALUS – Chlorophyll a Dissolved Oxygen, Nutrients, pH, Temperature	DEQ-CBP Rick Hoffman 804-698-4334	Documented QA/QC Plan Rick Hoffman	128 mainstem and tributary, and non-tidal stations sampled during the assessment cycle
DEQ Ambient and Biological Water Quality Monitoring Program				
Ambient Watershed Monitoring Program – Water Column	ALUS – Dissolved Oxygen, Nutrients, pH, Temperature SWIM – Fecal Bacteria	DEQ-WQA Roger Stewart 804 698-4449	Documented QA/QC Plan James Beckley (804) 698-4025	Approximately 1400 stations monitored monthly or quarterly for entire 305(b) window.
Ambient Watershed Monitoring Program – Sediment Sampling, Water Column Toxics, Nutrients	ALUS – Chlorophyll a, Nutrients, Sediment Organics & Metals, Water Column Organics & Metals	DEQ-WQA Roger Stewart 804 698-4449	Documented QA/QC Plan James Beckley 804-698-4025	Approximately 1400 stations monitored once a year for at least part of the 305(b) window.
Biological Monitoring Program	ALUS – Benthic, Dissolved Oxygen, pH, Temperature	DEQ-WQA Richard Browder 804-698-4134	Protocols and QA/QC Plan: Alex Barron 804-689-4119	Approximately 200 stations sampled twice a year (spring & fall) by Regional Biologists
Statewide Lake Monitoring	ALUS – Chlorophyll a, Dissolved Oxygen, Nutrients, pH, Sediment Organics & Metals, Temperature SWIM – Fecal Bacteria	DEQ-WQA Richard Browder 804-698-4134	Followed ambient watershed QA/QC procedures	Approx. 100 significant lakes. Regions sample priority ranked lakes 3 seasons for one year out of 5 on rotation
DEQ Water Quality Standards Program				
Statewide Fish Tissue Program	FISH – Fish Tissue Analysis	DEQ-WQS Alex Barron 804-689-4119	Protocols and QA/QC Plan: Alex Barron 804-689-4119	37 stations sampled
Statewide Sediment Contamination Program	ALUS – Sediment Organics, Sediment Metals	DEQ-WQS Alex Barron 804-689-4119	Protocols and QA/QC Plan: Alex Barron 804-689-4119	Approximately 40-80 selected stations sampled each year.

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James River Monitoring of Fish Tissue for Kepone	ALUS – Kepone	DEQ-WQS Alex Barron 804-689-4119	Protocols for fish sampling Kepone verified by VIMS: Alex Barron 804-698-4119	Five stations in James River sampled once every two years.
Wadeable Stream Nutrient Criteria pilot Project	ALUS- Nutrients	DEQ-WQS David Whitehurst 804-698-4121	Followed ambient watershed QA/QC procedures	46 stations
DEQ Special Studies				
Ammonia Special Study	ALUS- Ammonia	DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227	Followed ambient QA/QC procedures	7 stations
Buffalo River TMDL	ALUS- Benthic SWIM– Fecal Bacteria	DEQ- BRRO-Lynchburg Paula Nash 434-582-6216	Followed ambient and benthic QA/QC procedures	7 stations
Banister River TMDL	SWIM- Fecal Bacteria	DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227	Followed ambient QA/QC procedures	21 stations
Dan River TMDL	SWIM- Fecal Bacteria	DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227	Followed ambient QA/QC procedures	13 stations
Flat Rock Creek TMDL	SWIM- Fecal Bacteria	DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227	Followed ambient QA/QC procedures	8 stations
Great Creek TMDL	SWIM- Fecal Bacteria	DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227	Followed ambient QA/QC procedures	5 stations
Hog Farm Special Study	SWM- Fecal Bacteria	DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227	Followed ambient QA/QC procedures	17 stations
Little Buffalo Creek Special Study	ALUS- Benthic	DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227	Followed benthic QA/QC procedures	3 stations
Lynchburg Watershed TMDL	SWIM– Fecal Bacteria	DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227	Followed ambient QA/QC procedures	13 stations
North Creek TMDL	ALUS- Benthic	DEQ- BRRO-Lynchburg Paula Nash 434-582-6216	Followed benthic QA/QC procedures	3 stations

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Pedlar River Reservoir pH Special Study	ALUS- pH	DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227	Followed ambient QA/QC procedures	6 stations
Slate River TMDL	SWIM- Fecal Bacteria	DEQ- BRRO-Lynchburg Amanda Gray 434-582-6227	Followed ambient QA/QC procedures	14 stations
Blackwater River (Franklin County) TMDL	ALUS– Dissolved Oxygen, Nutrients, pH, Temperature SWIM- Fecal Bacteria	DEQ- BRRO-Roanoke Jason Hill 540-562-6724	Followed ambient QA/QC procedures	12 stations
Jackson River TMDL	ALUS- Benthic	DEQ- BRRO-Roanoke Mike McLeod 540-562-6721	Followed benthic QA/QC procedures	13 stations
Looney Creek TMDL	SWIM- Fecal Bacteria	DEQ- BRRO-Roanoke Mike McLeod 540-562-6721	Followed ambient QA/QC procedures	1 station
New River Valley TMDL	ALUS- Benthic SWIM- Fecal Bacteria FISH- PCB's	DEQ- BRRO-Roanoke Mike McLeod 540-562-6721	Followed ambient and benthic QA/QC procedures	13 stations
Pigg River Watershed TMDL Study	SWIM- Fecal Bacteria	DEQ- BRRO-Roanoke Mike McLeod 540-562-6721	Followed ambient QA/QC procedures	20 stations
Roanoke River Fish Consumption TMDL	FISH- PCB	DEQ- BRRO-Roanoke Mike McLeod 540-562-6721	Followed ambient QA/QC procedures	7 stations
Roanoke River Watershed TMDL	ALUS- Temperature, SWIM- Fecal Bacteria	DEQ- BRRO-Roanoke Mike McLeod 540-562-6721	Followed ambient QA/QC procedures	18 stations
South Mayo River TMDL	ALUS– Dissolved Oxygen, pH, Temperature SWIM – Fecal Bacteria	DEQ- BRRO-Roanoke Mike McLeod 540-562-6721	Followed ambient QA/QC procedures	3 stations
Stroubles Creek TMDL	ALUS– Benthic, Dissolved Oxygen, pH, Temperature	DEQ- BRRO-Roanoke Mike McLeod 540-562-6721	Followed ambient and benthic QA/QC procedures	3 stations

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Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Accotink Creek TMDL	ALUS- Benthic	DEQ- NRO Bryant Thomas 703-583-3843	Followed benthic QA/QC procedures	3 stations
Catoctin Creek TMDL Implementation Plan Monitoring	SWIM- Fecal Bacteria	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	3 stations
Difficult Run TMDL	ALUS- Benthic SWIM- Fecal Bacteria	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient and benthic QA/QC procedures	8 stations
Goldmine Creek TMDL	ALUS- Dissolved Oxygen	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	1 station
Lower Rapidan River TMDL	SWIM- Fecal Bacteria	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	7 stations
Massaponax Creek Special Study	ALUS- pH SWIM- Fecal Bacteria	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	6 stations
Neabsco Creek TMDL	SWIM- Fecal Bacteria	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	2 stations
Occoquan River Basin TMDL	SWIM- Fecal Bacteria	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	6 stations
Potomac River Shallow Water Tidal Embayment Monitoring Program	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	14 stations
Potomac River Tributary PCB Study	FISH- PCB	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	19 stations
Potomac River Tributary Bacteria Study	SWIM- Fecal Bacteria	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	9 stations
Rappahannock River	SWIM- Fecal Bacteria	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	9 stations

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Rappahannock River Freshwater Tidal	SWIM- Fecal Bacteria	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	8 stations
Rush River Benthic and Water Chemistry Special Study	ALUS- Benthic, Dissolved Oxygen, pH, Temperature	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient and benthic QA/QC procedures	4 stations
South and North Fork Catoctin Creek TMDL	ALUS- Metals, Nutrients, Solids SWIM- Fecal Bacteria	DEQ- NRO Jeff Talbott 703-583-3902	Followed ambient QA/QC procedures	8 stations
Terry's Run Special Study	ALUS- Dissolved Oxygen	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	4 stations
Thumb Run TMDL Implementation Plan Monitoring	SWIM- Fecal Bacteria	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	1 station
Tripps and Holmes Run TMDL	ALUS- Metals, Nutrients, Solids SWIM- Fecal Bacteria	DEQ- NRO Jeff Talbott 703-583-3902	Followed ambient QA/QC procedures	2 stations
Upper Hazel River Basin TMDL	SWIM- Fecal Bacteria	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	5 stations
Upper Rapidan River Basin TMDL	SWIM- Fecal Bacteria	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	8 stations
Upper Rappahannock River TMDL	SWIM- Fecal Bacteria	DEQ- NRO Bryant Thomas 703-583-3843	Followed ambient QA/QC procedures	2 stations
Appomattox- Hopewell Sediment Special Study	ALUS- Metals, Organic Compounds,	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	3 stations
Beaverdam Creek TMDL and Class VII Special Study	ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	7 stations
Blackwater and Warwick Swamp TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling	Followed ambient QA/QC procedures	32 stations

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
		804-527-5021		
Blackwater River (Sussex County) TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	16 stations
Bridges Creek TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	6 stations
Buckskin Creek TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	10 stations
Bush Mill Stream Class VII Swamp Water Study	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	7 stations
Butterwood Creek & Tributaries TMDL	ALUS- Dissolved Oxygen, pH	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	17 stations
Chickahominy River Unnamed Tributary TMDL	ALUS- Benthic	DEQ- PRO Mark Alling 804-527-5021	Followed benthic QA/QC procedures	7 stations
Coan Mill Stream TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	5 stations
Collins Run TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	20 stations
Crump Creek TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	6 stations
Diascund Creek Class VII Swamp Water Study	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	12 stations
Dickeys Swamp Class VII Swamp Water Study	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	9 stations
Dragon Swamp and Piankatank River	FISH- Mercury	DEQ- PRO Mark Alling	Followed ambient QA/QC procedures	13 stations

Final 2012

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Mercury Source Assessment		804-527-5021		
Farmers Hall Creek Class VII Swamp Water Study	ALUS- Dissolved Oxygen, Nutrients, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	1 station
Flat, Nibbs, Deep, and West Creeks TMDL Implementation Plan	ALUS- Benthic SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient and benthic QA/QC procedures	16 stations
Fox Mill Run TMDL and Class VII Swamp Water Study	ALUS- Dissolved Oxygen, pH, Temperature SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	8 stations
Hornquarter Swamp Class VII Swamp Water Study	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	3 stations
Hoskins Creek TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	11 stations
James River TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	7 stations
Little Wicomico River TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	2 stations
Lower Potomac River PCB TMDL	FISH- PCB	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	7 stations
Masons Mill Swamp Class VII Swamp Water Study	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	1 stations
Mattaponi River TMDL	FISH- Advisory	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	3 stations
Meherrin River and Great Creek TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	44 stations

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Mill Creek (Northumberland County) TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	2 stations
Monquin Creek Class VII Swamp Water Study	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	17 stations
Monroe Creek Class VII Swamp Water Study	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	5 stations
Mud Creek Class VII Swamp Water Study	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	1 station
Occupacia Creek TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	7 stations
Pamunkey River TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	10 stations
Pamunkey River Unnamed Tributary TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	2 stations
Pine Hill Creek TMDL	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	5 stations
Popes Creek Class VII Swamp Water Study	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	6 stations
Rumley Marsh Class VII Swamp Water Study	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	7 stations
Sappony Creek TMDL	ALUS- Dissolved Oxygen SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	8 stations
Severn River TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	3 stations
Spring Branch TMDL	ALUS- Benthic	DEQ- PRO Mark Alling	Followed benthic QA/QC procedures	10 stations

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
		804-527-5021		
Stony Run TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	15 stations
Sullens Creek Class VII Swamp Water Study	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	6 stations
Tastine and Little Tastine Swamp TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	17 stations
Thompson Branch Class VII Swamp Water Study	ALUS- Dissolved Oxygen, pH, Temperature	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	1 station
Totopotomoy Creek TMDL	ALUS- Benthic SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient and benthic QA/QC procedures	1 station
Totuskey Creek TMDL	SWIM- Fecal Bacteria	DEQ- PRO Mark Alling 804-527-5021	Followed ambient QA/QC procedures	26 stations
Bluestone River TMDL	ALUS- Benthic FISH- PCB SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient and benthic QA/QC procedures	12 stations
Bull Creek TMDL	ALUS- Benthic	DEQ- SWRO Allen Newman 276-676-4804	Followed benthic QA/QC procedures	2 stations
Callahan Creek TMDL	ALUS- Benthic SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient and benthic QA/QC procedures	1 station
Chestnut Creek TMDL	ALUS- Benthic SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient and benthic QA/QC procedures	2 stations
Christians Creek TMDL	SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient QA/QC procedures	2 stations

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Clinch River Basin TMDL	SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient QA/QC procedures	36 stations
Clinch River TMDL	SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient QA/QC procedures	7 stations
Clinch River Mercury Study	ALUS- Mercury	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient QA/QC procedures	5 stations
Clinch River (Tazewell County) TMDL	ALUS- Benthic	DEQ- SWRO Allen Newman 276-676-4804	Followed benthic QA/QC procedures	1 station
Garden Creek TMDL	ALUS- Benthic SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient and benthic QA/QC procedures	9 stations
Guest River TMDL	ALUS- Benthic SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient and benthic QA/QC procedures	1 station
Indian Creek (Tazewell County)	ALUS- Benthic, Nutrients, Metals, Solids, Toxicity SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient and benthic QA/QC procedures	1 station
Lick Creek TMDL	ALUS- Benthic SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient and benthic QA/QC procedures	4 stations
Long Glade Run TMDL	SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient QA/QC procedures	1 station
Middle Creek TMDL	ALUS- Benthic	DEQ- SWRO Allen Newman 276-676-4804	Followed benthic QA/QC procedures	1 station
Middle River TMDL	SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient QA/QC procedures	2 station
Moffetts Creek TMDL	SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient QA/QC procedures	1 station

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Mossy Creek TMDL	SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient QA/QC procedures	1 station
Naked Creek TMDL	SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient QA/QC procedures	1 station
North Fork Holston and Tributaries TMDL	SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient QA/QC procedures	12 stations
North Fork Powell River TMDL	ALUS- Benthic SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient and benthic QA/QC procedures	2 stations
Polecat Draft TMDL	SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient QA/QC procedures	1 station
Pound River TMDL	ALUS- Benthic	DEQ- SWRO Allen Newman 276-676-4804	Followed benthic QA/QC procedures	4 stations
Powell River TMDL	ALUS- Benthic SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient and benthic QA/QC procedures	12 stations
Straight Creek TMDL	ALUS- Benthic SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient and benthic QA/QC procedures	1 station
Three Creeks TMDL	SWIM- Fecal Bacteria	DEQ- SWRO Allen Newman 276-676-4804	Followed ambient QA/QC procedures	3 stations
Wise County Straight Pipe Study	ALUS- Benthic	DEQ- SWRO Allen Newman 276-676-4804	Followed benthic QA/QC procedures	5 stations
Harmful Algal Bloom Monitoring	ALUS- Chlorophyll a, Dissolved Oxygen, Nutrients, pH, Temperature SWIM- Fecal Bacteria	DEQ- TRO Roger Everton 757-518-2150	Followed ambient watershed QA/QC procedures	35 stations
Lafayette River Bacteria Special Study	SWIM- Fecal Bacteria	DEQ- TRO Roger Everton	Followed ambient watershed QA/QC procedures	13 stations

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
		757-518-2150		
2004/2005 VRO BST Study	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	5 stations
2005/2006 VRO BST Study	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	8 stations
Beaver Creek TMDL	ALUS- Dissolved Oxygen, Nutrients, pH, Solids, Temperature SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	5 stations
Cedar Creek TMDL Study	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	2 stations
Cooks Creek and Blacks Run TMDL	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	7 stations
Crooked Run TMDL	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	4 stations
Hawksbill and Mill Creek TMDL	ALUS- Dissolved Oxygen, Nutrients, pH, Temperature SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	4 stations
Hays and Walker Creek TMDL	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	2 stations
Hogue Creek TMDL	ALUS- Benthic, Temperature SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient and benthic QA/QC procedures	2 stations
Holmans Creek TMDL Implementation Plan Monitoring	ALUS- Benthic SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient and benthic QA/QC procedures	1 station

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Lewis Creek TMDL	ALUS- Benthic FISH- PCB's SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient and benthic QA/QC procedures	13 stations
Little Calfpasture River TMDL	ALUS- Benthic	DEQ- VRO Donald Kain 540-574-7815	Followed benthic QA/QC procedures	2 stations
Long Meadow and Turley Creek TMDL	ALUS- Benthic	DEQ- VRO Donald Kain 540-574-7815	Followed benthic QA/QC procedures	3 stations
Maury River TMDL	ALUS- Benthic FISH- PCB	DEQ- VRO Donald Kain 540-574-7815	Followed ambient and benthic QA/QC procedures	1 station
Meadow Creek and Shencks Branch TMDL	ALUS- Benthic	DEQ- VRO Donald Kain 540-574-7815	Followed benthic QA/QC procedures	18 stations
Mill Creek TMDL	ALUS- Dissolved Oxygen, Nutrients, pH, Solids, Temperature SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	1 station
Moores Creek TMDL	ALUS- Benthic SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient and benthic QA/QC procedures	1 station
Naked Creek TMDL	ALUS- Benthic	DEQ- VRO Donald Kain 540-574-7815	Followed benthic QA/QC procedures	2 stations
North Fork Shenandoah River Fish Kill	ALUS- Unknown	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	27 stations
North Fork Shenandoah River TMDL	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	1 station
North River Tributaries TMDL	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	5 stations

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Opequon Creek and Abrams Creek TMDL Implementation Plan	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	3 stations
Rivanna River TMDL	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	4 stations
Rivanna River and North Fork Rivanna River TMDL	ALUS- Benthic	DEQ- VRO Donald Kain 540-574-7815	Followed benthic QA/QC procedures	7 stations
Shenandoah Fish Kill Task Force Study	ALUS- Unknown	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	53 stations
Smith Creek TMDL	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	4 stations
Smith Creek, Mountain Run, Fridley Run TMDL	ALUS- Benthic	DEQ- VRO Donald Kain 540-574-7815	Followed benthic QA/QC procedures	4 stations
South River Mercury Study	ALUS- Mercury	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	3 stations
South River and South Fork Shenandoah TMDL	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	13 stations
South River Sediment Study	ALUS- Water Clarity	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	55 stations
South River and Shenandoah River Smallmouth Bass Mercury Special Study	FISH- Mercury	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	14 stations
Spout Run TMDL	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	4 stations
Stony Creek TMDL	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	2 stations

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Tye River TMDL	SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient QA/QC procedures	3 stations
West Straight Creek TMDL	ALUS- Benthic, Dissolved Oxygen, Nutrients, Metals, Oxygen Demand, pH, Solids, Temperature SWIM- Fecal Bacteria	DEQ- VRO Donald Kain 540-574-7815	Followed ambient and benthic QA/QC procedures	6 stations
Estuarine Probabilistic Monitoring Program (minor Chesapeake Bay and coastal tidal tributaries)	ALUS- Chlorophyll a, Dissolved Oxygen, Nutrients, pH, Sediment Triad (chemistry, toxicity, benthos), Temperature FISH- Fish Tissue Chemistry	DEQ-WQA Donald Smith 804-698-4429.	Protocols and QA/QC Plan: James Beckley 804-698-4025 QA/QC of field audits, at DCLS laboratories and of locally analyzed results.	273 sample stations during the six year window. Assessed cumulative parameter data, such as sediment and tissue chemistry, sediment toxicity and benthic community structure using a 'weight of evidence' approach.
Near Shore Oceanic Survey	ALUS Dissolved Oxygen, Nutrients, pH, Sediment Triad (chemistry, toxicity, benthos), Temperature, SWIM- Fecal Bacteria	DEQ-WQA Donald Smith 804-698-4429	Protocols and QA/QC Plan: James Beckley 804-698-4025 QA/QC of field audits, at DCLS laboratories and of locally analyzed results.	50 stations sampled once during August 2010. Samples collected off the Eastern Virginia shore using a EPA research vessel. Samples analyzed at DCLS and EPA contracted laboratories
Elizabeth and Upper James Tidal PCB TMDL Special Study	FISH- PCB	DEQ- WQP Mark Richards 804-698-4392	Followed ambient QA/QC procedures	58 stations
Middle Roanoke River PCB study	FISH- PCB	DEQ- WQP Mark Richards 804-698-4392	Followed ambient QA/QC procedures	18 stations
PCB Fish Consumption Study	ALUS- PCB	DEQ- WQP Mark Richards 804-698-4392	Followed ambient QA/QC procedures	37 stations

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Non-Citizen, Non-Agency Monitoring				
Ambient Water Quality Monitoring	ALUS– Dissolved Oxygen, Nutrients, pH, Temperature SWIM– Fecal Bacteria	Abingdon Sewage Treatment Plant Mike Maiden 276-628-4321	QA/QC review by James Beckley 804-698-4025. Dissolved oxygen, pH, temperature, nitrate, total phosphorus, and E. coli data is acceptable for assessment use.	Reference letter February 15, 2008 to Mike Maiden. 1 station with 59 sample events collected during the six year assessment window.
Ambient Water Quality Monitoring	SWIM- Fecal Bacteria	Arlington County Volunteer E. Coli Monitors Aileen Winquist Dept. Environmental Services 703-228-3610	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Aileen Winquist. 13 stations with 213 samples collected from October 2006 to July 2009.
Ambient Water Quality Monitoring	ALUS- Metals	Appalachian Electric Power Jonathan Magalski 614-716-2240 www.smithmtn.com/AquaticVegetation/Default.aspx	QA/QC review by James Beckley 804-698-4025 Dissolved copper analysis is acceptable for assessment use.	10 stations with 100 sample events from June 2005 to September 2009
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, Nutrients, pH, Temperature, Turbidity	Chesterfield County Department of Environmental Engineering Weedon Cole 804-748-1035 www.chesterfield.gov/content2.aspx?id=2851	QA/QC review by James Beckley 804-698-4025. Dissolved oxygen, pH, temperature data is acceptable for assessment use for VA Category 3C and 3D.	Reference letter February 15, 2008 to Weedon Cole. 28 stations with 320 sample events during the six year assessment window.
Ambient Water Quality Monitoring	ALUS– Dissolved Oxygen, pH, Temperature	City of Newport News Raw Water Monitoring Program 804-966-9887 www.nngov.com/waterworks	QA/QC review by James Beckley 804-698-4025. Upon reviewing SOP and calibration logs, dissolved oxygen, pH, and temperature data is acceptable for assessment use.	Reference letter February 15, 2008 to Horace B. Davis Jr. 6 stations with 373 sample events.
Ambient Water Quality Monitoring	ALUS- Chloride, pH	Cumberland Resources Corporation	QA/QC review by James Beckley 804-698-4025.	7 sample stations with 73 sample events collected from

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
		Brooks Smith 804-787-8086	Upon review of sampling procedures and laboratory protocols, chloride and pH data is accepted for assessment use.	August 2005 to October 2010.
Ambient Water Quality Monitoring	ALUS– Dissolved Oxygen, Nutrients, pH, Temperature SWIM– Fecal Bacteria	Edge Valley Preservation LLC Leif Riddervold 434-295-3700	QA/QC review by James Beckley 804-698-4025. After review of sampling and laboratory protocols, nutrient and E. coli data is acceptable for assessment. Dissolved oxygen, pH, and temperature data acceptable for VA Category 3C and 3D determination.	8 sample stations with 48 sample events collected from March 2007 to February 2008.
Ambient Water Quality Monitoring	SWIM- Fecal Bacteria	James City County Stormwater Division Suzanne Dyba 757-259-1460 www.jccegov.com/stormwater/	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	12 stations with 140 sample events collected from April 2009 to March 2010
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, Nutrients, pH, Temperature	National Park service- Assateague Island National Seashore Brian Sturgis 410-629-6075		6 stations with 306 sample events from October 2005 to December 2009
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, pH, Temperature	National Park Service- Mid Atlantic Monitoring Network Jim Comiskey 540-654-5328 http://science.nature.nps.gov/im/units/midn/	QA/QC review by James Beckley 804-698-4025 Data collected for dissolved oxygen, pH, and temperature using DEQ calibration protocols accepted for assessment use.	43 stations with 351 sample events collected from October 2008 to December 2010

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Benthic Macroinvertebrate Monitoring	ALUS- Benthic Monitoring	National Park Service- Richmond Area National Parks Kristen Allen 804-795-5019	QA/QC review by James Beckley, 804-698-4025 and Aimee Budd 804-698-4046. Benthic macroinvertebrate data were used for assessment of water quality as VA Category 3C or 3D.	Reference letter February 11, 2010 to Kristen Allen. 8 stations with 24 sample events collected from November 2005 to December 2008.
Routine reservoir monitoring	ALUS- Dissolved Oxygen, pH, Temperature	Occoquan Watershed Monitoring Laboratory Harry Post 703-361-5606 www.owml.vt.edu/	QA/QC review by James Beckley 804-698-4025. Sample collection protocols, analytical methods, and laboratory reviewed. Dissolved oxygen, pH, an temperature data is accepted by DEQ	Reference letter February 15, 2008 to Harry Post. 15 stations with 1,747 sample events collected during six years of the assessment window
Ambient Water Quality Monitoring	SWIM- Fecal Bacteria	Page County Department of Environmental Services www.pagecounty.virginia.gov	QA/QC review by James Beckley, 804-698-4025. E. coli used for assessment of water quality as VA Category 3C or 3D	Reference letter February 15, 2008 to Page County Department of Environmental Services. 26 stations with 739 observations collected from September 2005 to February 2010.
Ambient lake monitoring	ALUS- Dissolved Oxygen, pH, Temperature	Reston Association Nicki Foremsky 703-435-6560 www.reston.org	Data submitted in time for consideration did not provide sufficient QA/QC information or metadata. Data was not included in the assessment report	Reference letter February 15, 2008 to Nicki Foremsky. 6 stations with approximately 96 sample events
Routine reservoir monitoring	SWIM- Fecal Bacteria ALUS- Dissolved Oxygen, pH, Temperature, Nutrients, Chlorophyll, Metals	Tennessee Valley Authority Susan Malone 423-876-4179 www.tva.gov/environment/water	QA/QC review by James Beckley, 804-698-4025. E. coli data is acceptable for assessment purposes. Field parameters, nutrients, and metals used for assessment of water quality as VA Category 3C or 3D	3 stations with 91 observations from April 2005 to October 2010

APPENDIX 8 DATASETS CONSIDERED FOR 2012 ASSESSMENT

WATER QUALITY DATA SETS CONSIDERED FOR the 2012 305(b) ASSESSMENT				
Data Set	Parameters/Use Goals	Organization/Contact	QA/QC Review	Comments
Benthic Macroinvertebrate Monitoring	ALUS-Benthic Monitoring	United States Forest Service Dawn Kirk 540-291-1759 www.fs.fed.us	ALUS method comparable to DEQ protocols.	157 stations with 278 biological sample events collected from March 2005 to May 2010.
Water quality monitoring	ALUS- Benthic, Dissolved Oxygen, pH, Temperature	United States Environmental Protection Agency Dr. Ariamalar Selvakumar 732-906-6990 www.epa.gov/region03	QA/QC review by James Beckley (804) 698-4025. Benthic monitoring follows EPA protocols. QA/QC information on field probe calibration was not available for review. Benthic data accepted for assessment use.	4 stations with 15 sample events collected from November 2005 to March 2006.
Ambient Water Quality Monitoring	ALUS- Dissolved Oxygen, Metals, PCB's, pH, Temperature	United States Geological Survey Kenneth E. Hyer 804-261-2636 http://va.water.usgs.gov	Standard methods are used. Data included in assessment for parameters that have Virginia Water Quality Standards	100 ambient stations with 1,900 sample events. 10 continuous monitoring stations with 1,106,666 sample events collected during the six years of the assessment window.
Ambient Water Quality Monitoring	SWIM- Fecal Bacteria	VDH Beach Monitoring Program Daniel Dietrich 804-864-8128 www.vdh.virginia.gov/epidemiology/DZEE/BeachMonitoring	Methods for sampling Enterococcus are consistent with DEQ sampling and testing procedures. Bacteria data is acceptable for assessment purposes.	50 stations with 5,104 bacteria samples collected from May to October during the six year assessment window.