

Appendix 9 – Water Quality Monitoring Stations List

Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA						WATER COLUMN				SEDIMENT				FISH TISSUE				BENTHIC		NUTRIENTS *						COMMENTS							
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals		Other Toxics		BioMon	Total Phosphorous			Chlorophyll a											
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples		Status						
Roanoke and Yadkin Rivers Basin																																														
4ABDC002.36	VAW-L02R_BDC01A04	A	RU08	0	12	S	1	12	S	3	12	IM	2	12	IM				0	S																						2010 initially 303(d) Listed Bacteria (Nested) E.coli 2/12- 'IM' and pH 4 / 16- 'IM'. No additional data beyond the 2010 IR.				
4ABEE000.80	VAC-L75R_BEE01A98	A,B	RL01	0	15	S	0	15	S	0	15	S	4	11	IM				0	S																						2010/2014 Bio 4ABEE000.80 exhibits seasonal variability. Further sampling indicates an unbalanced benthic community. Sedimentation and nutrient enrichment are probable stressors.				
4ABEE001.20	VAC-L75R_BEE01A98	FPM,B	RL01																																					2002 Probabilistic Monitoring Insufficient information prohibits an accurate assessment. Personnel who performed the spring 2002 monitoring are no longer with the agency, therefore pertinent information about the stream is unavailable.						
4ABHA002.47	VAC-L30R_BHA01A02	A,B	RU63	0	13	S	0	13	S	0	14	S	4	11	IM				0	S																						2010 Bio				
4ABHB004.40	VAC-L75L_ROA05L98	L	RL07	0	231	S	33	161	IM	0	231	S	0	21	S				0	S																			0	3	S	2010/2012/2014 Kerr Reservoir Pooled DO Data: 134/1437				
4ABHB008.63	VAC-L75R_BHB01A98	A	RL07	0	12	S	1	12	S	0	12	S	1	12	S				0	S																						No New Data				
4ABHB013.93	VAC-L75R_BHB01A98	A	RL07	0	12	S	0	12	S	0	12	S	1	12	S				0	S																						No New Data				
4ABHT001.90	VAW-L04R_BHT01A10	B,TM	RU14	0	3	S	0	3	S	0	3	S																															3 surveys (2009 & 2010). Avg. VSCI 36.8.			
4ABHT-1-SOS	VAW-L04R_BHT01A10	CMON	RU14																																					SOS 5 surveys 2010-2012 [3C] Lv. 2. One survey Outside Acceptable Season Range.						
4ABIR001.00	VAC-L63R_BIR01A98	A,TM	RD47										6	11	IM				0	S																						2004 Birch Creek TMDL				
4ABIR004.22	VAC-L63R_BIR01A98	TM,B	RD47	0	2	S	0	2	S	0	2	S	5	11	IM																												2013 Bio 2004 Birch Creek TMDL			
4ABIR005.34	VAC-L63R_BIR01A98	TM	RD47										6	11	IM																												2004 Birch Creek TMDL			
4ABIR011.55	VAC-L63R_BIR01A98	A,TM,B	RD47	0	14	S	0	14	S	0	14	S	4	12	IM				0	S																						2004 Birch Creek TMDL 2013 Bio 4ABIR011.55 has an unbalanced benthic community. A breached mill dam is present upstream which may negatively affect the flow regime. Moderate algae production and embeddedness indicate nutrient enrichment and sedimentation are also likely stressors.				
4ABIR014.28	VAC-L63R_BIR01A98	TM	RD47										2	11	IM																												2004 Birch Creek TMDL			
4ABKN000.52	VAC-L65R_BKN01A00	A,B	RD53	0	17	S	0	17	S	0	17	S	1	12	S				0	S																									2008/2011/2012/2014 Bio Sediment and flow regime seem to affect the stream community negatively. Showing improvement in 2012 and 2014. Sedimentation still seems to be the main stressor. However, when in-stream snag habitat is present a fairly diverse benthic community is supported.	
4ABKN002.47	VAC-L65R_BKN01A00	TM	RD53	0	11	S	0	12	S	0	11	S	4	12	IM				0	S																						No New Data Banister River Watershed TMDL				
4ABLE001.21	VAC-L40R_BLE01A06	B,SS	RU87	0	4	S	0	4	S	0	4	S	3	6	IM				0	S																									2010/2014 Bio Heavy to moderate embeddedness observed in 2014 samples. Sedimentation is a likely stressor. PRO Hog Farm Special Study & Follow-up	
4ABLG000.24	VAW-L01R_BLG01A10	PA	RU02	1	13	S	0	13	S	1	13	S	0	13	S																						0	13	S							
4ABLG001.95	VAW-L01R_BLG01A10	FPM,B	RU02	0	2	S	0	2	S	0	2	S	0	1	IN																															
4ABLG-1-SOS	VAW-L01R_BLG01A10	CMON	RU02																																								SOS 8 surveys 2007 & 2009-2012 [3D] Lv. 2- Two surveys Outside Acceptable Date Range.			
4ABLG-RN01-UVA	VAW-L01R_BLG01A10	CMON	RU02							1	1	IN/O																																		
4ABLU002.02	VAC-L74R_BLU01A08	A	RD73	0	11	S	2	11	IM	0	11	S	2	11	IM				0	S																										
4ABMA002.00	VAC-L76L_BMA01A06	A,TR	RD77	0	35	S	0	35	S	0	36	S	3	36	S				0	S																										
4ABNN001.85	VAC-L40R_BNN01A06	TM,SS,B	RU87	0	2	S	0	2	S	0	2	S	5	6	IM																															2009 Bio 4ABNN001.85 exhibits significant seasonal variability. Further sampling is required to accurately assess the waterbody. 4ABNN001.85 is linked to 4ABNN002.17, a PROBMON trend station which is currently impaired (sediment a likely stressor). PRO Hog Farm Special Study & Follow-up
4ABNN002.17	VAC-L40R_BNN01A06	B	RU87	0	4	S	0	4	S	0	4	S	1	2	IN				0	S																									2012/2014 Bio 4ABNN002.17 exhibits seasonal variability near the impairment threshold. Habitat scores and Taxa lists indicate bank scour and sedimentation to be likely stressors within this reach.	
4A-BNN-CHA02-SSWCD	VAC-L40R_BNN01A06	CMON	RU87	0	10	S							13	37	IN/O																												Southside SWCD Station - Level II Coliscan Category 3C			
4ABNR000.40	VAW-L08R_BNR01A00	A,B,TR	RU20	0	41	S	0	41	S	0	41	S	16	34	IM				0	S																			0	36	S				6 surveys 2007 & 2009-2011). Avg. VSCI 49.5. N.F. Blackwater River Bacteria TMDL Study U.S. EPA approved 03/09/2001. Fed. ID 7790 / 20479. SWCB approved 6/17/2004. Originally 303(d) Listed 1996 for FC. Bacteria Implementation Plan SWCB approved 6/17/20	
4ABNR001.53	VAW-L08R_BNR01A00	B,TM	RU20	0	4	S	0	4	S	0	4	S																																		2 VSCI surveys (2010). N.F. Blackwater River General Standard Benthic (Fed ID 24548 Phosphorus & Fed ID 24550 Sediment) TMDL Study is U.S. EPA approved 4/26/2004. Fed ID 7789. SWCB approved 8/31/2004.

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				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals	Other Toxics	BioMon	Total Phosphorous			Chlorophyll a									
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Status	Exceed	Samples	Status	Exceed	Samples	Status					
Roanoke and Yadkin Rivers Basin																																										
4ABNR004.56	VAW-L08R_BNR02A00	A, TM	RU20	0	12	S	0	12	S	0	11	S	3	12	IM				0	S																						No additional data beyond the 2010 IR where E.coli exceeds in 4 / 13- 'IM'. N.F. Blackwater River Bacteria TMDL Study U.S. EPA approved 03/09/2001. Fed. ID 7790 / 20479. SWCB approved 6/17/2004. Originally 303(d) Listed 1996 for FC. No additional data
4ABNR-1-SOS	VAW-L08R_BNR02A00	CMON	RU20																									LP										4 surveys 2011-2012 [3D] Lv. 2.				
4ABOE001.34	VAW-L21R_BOE01A08	A	RU40	0	12	S	0	12	S	0	12	S	4	12	IM																2	12	IN							Goose Creek Fed ID 24552 and its tributaries are nested within the Staunton River TMDL Watershed.		
4ABOE005.27	VAW-L21R_BOE01A08	FPM,B	RU40	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN	0	S							IM	0	2	S	0	1	IN				VAR511-091- 2 surveys 2012. Avg. VSCI 54.1. No sediment collection.			
4ABOR000.62	VAC-L28R_BOR01A00	A, TM, TR, B	RU59	0	37	S	0	37	S	0	37	S	12	35	IM				0	S	0	S	0	S				FS										PWS; Big Otter FC TMDL Approved Trend Analysis Performed - Statistically significant trends were detected (TP, decreasing & TSS, decreasing) 2007-2008 Roanoke River PCB TMDL Sampling No Violations 2005 SPMD Data found to be invalid USGS Temperature Data Level III - 0/14				
4ABOR008.32	VAC-L28R_BOR01A00	TM	RU59	0	2	S	0	2	S	0	2	S							0	S																			No New Data PWS; Big Otter FC TMDL Approved			
4ABOR012.18	VAC-L28R_BOR01A00	C, A	RU57	0	12	S	0	12	S	0	12	S	2	12	IM						0	S	0	S	0	S	1	O										2016 - EC Impairment 2006 FT/Sediment - PCB 1 Species				
4ABOR016.26	VAW-L27R_BOR01A00	A, TM	RU55	0	24	S	0	23	S	0	24	S	8	23	IM				0	S										2	24	IN							Big Otter River Bacteria TMDL Study U.S. EPA approved on 02/02/2001. Fed ID 1427 / 9485 / 36497. SWCB approved 6/17/2004. Bacteria Implementation Plan SWCB approved 3/27/2007. Originally 303(d) Listed 2002 for FC			
4ABOR024.46	VAW-L25R_BOR01A02	A	RU52	0	12	S	0	12	S	0	12	S	2	12	IM				0	S										0	12	S							Bacteria TMDL Study EPA Approved 02/02/01.			
4ABOR033.22	VAW-L23R_BOR01A02	A, B	RU49	0	2	S	0	2	S	0	2	S							0	S							FS	0	2	S										2 surveys 2011. Avg. VSCI 65.8.		
4ABOR034.32	VAW-L23R_BOR01A02	A	RU49																0	S																			Bacteria Impairment remains. No additional data beyond the 2010 IR where E.coli exceeds in 4 /23- 'IM'. Sheeps Creek/Big Otter River Bacteria TMDL Study U.S. EPA approved 02/02/2001. Fed ID 1650 / 7798 / 23400. SWCB approved 6/17/2004. Bacteria Implement			
4ABOR-1-SOS	VAW-L23R_BOR01A02	CMON	RU49																								LP										SOS 2 surveys '07 [3C] Lv. 2					
4ABPA-3-SOS	VAW-L05R_BPA01A04	CMON	RU11																								LP										SOS 6 surveys 2007-2010 [3D] Lv. 2. One survey Outside Acceptable Season Range.					
4ABPC003.14	VAC-L75R_BPC01A04	A	RL03	0	12	S	1	12	S	0	12	S	1	11	S				0	S																						
4ABRA-FR02-UVA	VAW-L51R_RBC03A02	CMON	RD18							0	1	IN																														
4ABRY000.05	VAW-L52R_BRY01A00	A, TM	RD22	0	19	S	0	18	S	0	19	S	7	21	IM				0	S																			No additional data beyond the 2008 IR where E.coli exceed in 7 /21- 'IM'. Same location as SS 2000W0034E.			
4ABRY010.27	VAW-L52R_BRY03A00	TM	RD22	0	10	S	0	10	S	1	10	IN	4	12	IM																								No additional data beyond the 2008 IR where E.coli exceed in 4 /12- 'IM'. B Berry Study. (formerly coded 2000W0034J).			
4ABRY011.44	VAW-L52R_BRY04A02	TM	RD22	0	10	S	0	10	S	1	10	IN	6	12	IM																								No additional data beyond the 2008 IR where E.coli exceed in 6 /12- 'IM'. B Berry Study. (formerly coded 2000W0034L).			
4ABSA000.62	VAW-L10L_BSA01A10	A, L, TR	RU26	0	1171	S	2	654	S	0	77	S	0	38	S				0	S																			Smith Mtn. Lake 2016 Pooled Data: Temp 2 / 15,851 (S); DO 196 / 8,940 (S); pH 27 / 1,233 (S).			
4ABSA-T6-FC	VAW-L10R_BSA01A06	CMON	RU26																											0	17	S							SML TP stream - 'W' No additional data beyond 2012 IR.			
4ABSF001.15	VAW-L08R_BSF01A00	TM, TR	RU21	4	36	IM	0	36	S	0	36	S	28	36	IM				0	S										0	36	S							2014 DELIST Temp. S.F. Blackwater River TMDL Bacteria Study U.S. EPA approved 2/02/2001 [Fed. IDs: 1886 / 7791 / 21330 / 24549]. SWCB approved 6/17/2004. Bacteria Implementation Plan SWCB approved 6/17/2004. Originally 303(d) Listed in 1996 for FC. Tem			
4ABST001.13	VAC-L77L_BST01A06	L, SS	RU93	0	139	S	11	95	IM	3	139	S	0	22	S				0	S													1	3	IN				2010/2012/2014 Kerr Reservoir Pooled DO Data: 134/1437			
4ABST009.45	VAC-L77R_BST01A98	FPM, B	RU91	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S							FS										2014 Probmon 4ABST009.45 exhibits seasonal variation near the assessment threshold of 60. A 2014 PROBMON station on private property; therefore it will not be revisited.			
4ABST013.64	VAC-L77R_BST01A98	B	RU91	0	2	S	0	2	S	0	2	S															IM													2012 Bio 4ABST013.64 has limited habitat due to scour and sedimentation. Riparian vegetation was suitable but bank scour was evident. Spring taxa list was dominated by Simuliidae and Chironomidae, bringing VSCI scores well below the impairment threshold.		
4ABST014.94	VAC-L77R_BST01A98	FPM, B	RU91	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S	0	W	0	W				J										2007 FPM 4ABST014.94 exhibits significant seasonal variation. Additional data must be collected to accurately characterize the status of the stream community; however this site is on private property and was sampled as part of the Probabilistic Monitoring program. Therefore it will not be revisited. 4ABST014.94 is linked to 4ABST013.64 which is listed as impaired (scour and sediment likely stressors) in 2012.		
4ABST017.09	VAC-L77R_BST02A06	A, PA	RU91	0	23	S	0	23	S	0	24	S	9	24	IM				0	S																						
4ABTC000.60	VAC-L62R_BTC01A08	A	RD46	0	12	S	0	12	S	0	12	S	6	12	IM				0	S																						

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				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals	Other Toxics	BioMon	Total Phosphorous			Chlorophyll a						
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Status	Exceed	Samples	Status		Exceed	Samples	Status	
Roanoke and Yadkin Rivers Basin																																							
4ACAS003.45	VAC-L57R_CAS01A00	A,B	RD31	0	19	S	0	19	S	0	19	S	0	10	S				0	W	0	S										FS							2009/2011/2012/2014 Bio 4ACAS003.45 has VSCI scores close to the impairment cutoff of 60. Further sampling is required to accurately assess this waterbody. This stream section was involved with a pollution incident involving the improper disposal of nutrient rich wastes. This reach should be monitored to track recovery. It was sampled in 2011, 2012, and 2014. Optimal habitat enables this community to score well. However, nutrient enrichment may still be affecting this reach.
4ACBA000.22	VAC-L36R_CBA01A06	TM	RU73	0	12	S	0	12	S	0	12	S	1	12	IM																						2016 - Delist 2006 Roanoke Basin TMDL		
4ACCK001.80	VAW-L12L_CCK01A02	A,L	RU27	0	1123	S	0	729	S	1	78	S	0	40	S							0	S														Smith Mtn. Lake 2016 Pooled Data: Temp 2 / 15,851 (S); DO 196 / 8,940 (S); pH 27 / 1,233 (S).		
4ACCK004.26	VAW-L12R_XME01A02	A	RU27	0	12	S	0	12	S	0	12	S	3	11	IM							0	S							0	11	S							
4ACEC001.24	VAW-L18R_CEC01A10	FPM,B	RU37	0	4	S	0	4	S	0	4	S	0	1	IN				0	S	0	S	0	S				FS	0	4	S	0	1	IN		VAW05547-300 (2010).			
4ACLA000.88	VAC-L13R_CLA01A10	A	RU28	0	12	S	0	12	S	0	12	S	1	12	IM							0	S														2016 - Delist EC? 2014 - New Bacteria Impairment		
4ACLB001.00	VAC-L74R_CLB01A06	TM	RD72	0	12	S	5	12	IM	0	12	S	1	12	S				0	S															2016 - Impaired for EC Actual station monitored for TMDL development. 1.90 Probmon station no longer accessible.				
4ACLB001.90	VAC-L74R_CLB01A06	FPM,TM,B	RD72																									IM							2006 Probabilistic Monitoring Lack of suitable habitat is negatively affecting the stream community. DO Impairment at RM 1.00				
4ACLB004.14	VAC-L74R_CLB01A06	B	RD72	0	2	S	0	2	S	0	2	S																IM							2012 Bio Beaver dam downstream. Very slow-moving water. Habitat rather lacking and livestock have access upstream of bridge.				
4ACLB005.17	VAC-L74R_CLB01A06	SS	RD72	0	6	S	0	6	S	0	6	S	1	6	IM							0	S														PRO Hog Farm Special Study & Follow-up		
4ACLB007.78	VAC-L74R_CLB01A06	SS	RD72	0	6	S	0	6	S	0	6	S	3	6	IM							0	S														No New Data PRO Hog Farm Special Study & Follow-up		
4ACMC001.58	VAW-L22R_CMC01A12	A	RU44	0	12	S	0	12	S	0	12	S	2	12	IM													0	12	S					Goose Creek Fed ID 24552 and its tributaries are nested within the Staunton River TMDL Watershed.				
4ACNE-6-RVTU	VAW-L05R_CNE01A14	CMON	RU13	0	6	S							0	6	S																				RVTU Temp Lv. 3/E.coli Lv. 2.				
4ACNT001.32	VAW-L15R_CNT01A00	A,B	RU31	0	24	S	0	24	S	0	24	S	3	24	IM							0	S				FS	0	24	S					DELIST Bacteria 2014. 2008 IR E.coli exceeds in 6 / 12-'IM'. Pigg River TMDL Study U.S. EPA approved on 9/11/2006 Fed ID 30414. Bacteria Implementation Plan SWCB approved 12/13/2010. FC Listed 2004 2/17-'IM'.				
4ACNT003.84	VAW-L15R_CNT01A00	FPM,B	RU31	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN	0	S	0	S				FS	0	2	S	0	1	IN		VAW05547-339 2 surveys 2010. Avg. VSCI 67.6.			
4ACNT017.37	VAW-L15R_CNT02A14	PA,TM	RU31	0	11	S	0	11	S	0	11	S	4	11	IM																								
4ACNT022.05	VAW-L15R_CNT03A14	FPM,B	RU31	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN	0	S	0	S				J	0	2	S	0	1	IN		VARS11-070- 2 surveys 2011. Avg. VSCI 59.7.			
4ACOA000.60	VAW-L10L_COA01A10	A,L,TR	RU26	0	1176	S	22	690	S	0	75	S	0	37	S							0	S											Smith Mtn. Lake 2016 Pooled Data: Temp 2 / 15,851 (S); DO 196 / 8,940 (S); pH 27 / 1,233 (S).					
4ACOX000.38	VAC-L78R_COX01A04	A	RL11				0	4	IM	1	4	IM																							Flow below 7Q10 8/6/02 Reference Gage #02079640; Ambient Sediment Sample DO - 3/11 Violation Rate No New Data - 2012				
4ACOX003.23	VAC-L78R_COX01A04	A	RL11	0	12	S	4	12	IM	1	12	S	1	12	S							0	S											No New Data					
4ACOX007.73	VAC-L78R_COX01A04	FPM,B	RL11	0	1	W	0	1	W	0	1	W	0	1	W				0	W	0	S	0	S	0	S				IM							2005 Probabilistic Monitoring Lack of suitable habitat is negatively affecting the stream community. Beaver activity has made the reach unwadeable. Accurate assessment depends on locating a suitably accessible site.		
4ACPC-1-SOS	VAW-L43R_CPC01A12	CMON	RD06																									LP					SOS 4 surveys '09 & '10 [3D] Lv. 2.						
4ACRE002.52	VAC-L30R_CRE01A00	A,TM,B	RU72	0	4	S	0	4	S	0	4	S	2	12	IM							0	S				J								PWS 2011/2014 Bio This stream had increased sediment deposition.				
4ACRE008.75	VAC-L30R_CRE01A00	A,B	RU72	0	16	S	0	16	S	0	16	S	3	12	IM							0	S				J								2011/2014 Bio This stream had increased sediment deposition and marginal habitat.				
4ACRR000.80	VAC-L66R_CRR01A00	A,C,TM	RD55	0	11	S	0	12	S	0	11	S	1	12	S							0	S	0	S	0	S	1	O	0	S					99 FT/Sed 2007 FT Sampling			
4ACRR003.56	VAC-L66R_CRR01A00	A	RD55	0	11	S	0	11	S	0	12	S	9	12	IM							0	S																
4ACRR008.32	VAC-L66L_CRR01A02	L	RD55	0	81	S	11	51	IM	0	81	S	1	14	S							0	S							0	2	S		2011/2012 Cherrystone Creek Reservoir					
4ACRV001.88	VAW-L05R_CRV01A00	A	RU12	0	12	S	0	12	S	0	12	S	6	12	IM							0	S							0	12	S		2008 FC bacteria: 3/10-'IM'.					
4ACRV006.19	VAW-L05L_CRV01A02	A,L	RU12	0	296	S	1	152	S	1	28	S	0	14	S							0	S							0	2	S		2016 Cycle: Carvin Cove Res. Pooled Data: Temp 0 / 296 (S); DO 0 / 152 (S); pH 1 / 28 (S); LZ Nutrients (1 station) CHLa 0 / 2 (FS)- 90 %tile 3.8/3.4 µg/L.					
4ACRV-2-SOS	VAW-L05R_CRV01A00	CMON	RU12																									LP					SOS 10 surveys '07, '08, '09 & '10 [3D] Lv. 2. Three surveys Outside Acceptable Season Range.						
4ACRV-5-SOS	VAW-L05R_CRV02A00	CMON	RU12																									IN					1 survey 2011. Gray Zone.						
4ACTT000.70	VAC-L78R_CTT01A08	A,C	RL12	0	24	S	2	24	IM	0	24	S	8	24	IM													0	S					2016 - DO Delist					
4ACUB002.21	VAC-L37R_CUB02A06	A	RU72	0	12	S	0	12	S	0	12	S	3	11	IM							0	S		0	S								2006 Roanoke Basin Bacteria TMDL 2007-2008 Roanoke River PCB TMDL Sampling					
4ACUB005.46	VAC-L37R_CUB02A06	TM	RU79	0	14	S	0	14	S	0	14	S	3	12	IM																				No New Data 2006 Roanoke Basin TMDL				

Appendix 9 – Water Quality Monitoring Stations List

Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA						WATER COLUMN				SEDIMENT				FISH TISSUE				BENTHIC			NUTRIENTS *						COMMENTS
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals		Other Toxics		BioMon	Total Phosphorous		Chlorophyll a						
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	
<i>Roanoke and Yadkin Rivers Basin</i>																																								
4ACUB010.96	VAC-L37R_CUB01A00	A,C,TR	RU78	0	35	S	0	35	S	0	36	S	6	35	IM				0	S	0	S	0	S	2	IM	3	IM										2006 FT/Sediment - Hg 2 Species, PCBs 3 Species 2014 FT/Sediment - PCBs 1 Species USGS Temperature Data Level III - 0/7		
4ACUB017.46	VAC-L37R_CUB01A00	A,TR	RU78	0	11	S	0	11	S	0	12	S	1	12	S				0	S																2006 Roanoke Basin TMDL				
4A-CUB-CHA04-SSWCD	VAC-L37R_CUB01A00	CMON	RU78	0	10	S							5	37	IN/O																						Southside SWCD Station - Level II Coliscan Category 3C			
4A-CUB-CHA05-SSWCD	VAC-L37R_CUB01A00	CMON	RU78	0	10	S							5	37	IN/O																						Southside SWCD Station - Level II Coliscan Category 3C			
4A-CUB-CHA06-SSWCD	VAC-L37R_CUB01A00	CMON	RU78	0	10	S							4	35	IN/O																						Southside SWCD Station - Level II Coliscan Category 3C			
4A-CUB-CHA07-SSWCD	VAC-L37R_CUB02A06	CMON	RU79	0	10	S							4	37	IN/O																						Southside SWCD Station - Level II Coliscan Category 3C			
4A-CUB-CHA09-SSWCD	VAC-L37R_CUB02A06	CMON	RU79	0	10	S							6	37	IN/O																						Southside SWCD Station - Level II Coliscan Category 3C			
4ADAN000.00	VAC-L73L_DAN07A04	L,SS	RD76	0	7	S	0	7	S	0	7	S							0	S			0	S													2014 Dan River Coal Ash Spill Response			
4ADAN001.18	VAC-L73L_DAN07A04	C,SS	RD76																				0	S	3	IM	4	IM										VDH Fish Adv. PCB & Mercury Dan River within the state of Virginia from the Brantley Steam Plant Dam in Danville downstream to the confluence with Roanoke River on John. H. Kerr Reservoir, including its tributaries Hyco River up to Rt. 738 bridge and Banister River up to the Banister Dam. These river segments comprise ~67 miles. (10/27/99; modified 12/13/04; mercury, 8/31/07; modified 9/16/08) 2007 FT Sampling PCB 3 Species Hg 3 Species 2013 FT/Sediment - PCBs 3 Species		
4ADAN009.93	VAC-L73R_DAN06A98	C	RD76																								2	IM							2013 FT/Sediment - PCBs 4 Species					
4ADAN012.51	VAC-L64R_DAN05A98	C	RD51																0	S	0	S	0	S			2	IM							VDH Fish Adv. 02 FT/Sed PCB 3 Sp.					
4ADAN012.82	VAC-L64R_DAN05A98	C,SS	RD51																				0	S			1	IM							VDH Fish Adv. 00 FT/Sed PCB 3 Sp.					
4ADAN013.34	VAC-L64R_DAN05A98	C,SS	RD51																0	S	0	S	3	IM	6	IM										VDH Fish Adv. PCBs & Mercury Dan River within the state of Virginia from the Brantley Steam Plant Dam in Danville downstream to the confluence with Roanoke River on John. H. Kerr Reservoir, including its tributaries Hyco River up to Rt. 738 bridge and Banister River up to the Banister Dam. These river segments comprise ~67 miles. (10/27/99; modified 12/13/04; mercury, 8/31/07; modified 9/16/08) 99 FT/Sed PCB 7 Sp. 2007 FT Sampling PCB 5 Species & DDT 1 Species Hg 3 Species OE - Pb 1 Species Possible Delist for DDE & DDT				
4ADAN015.30	VAC-L64R_DAN05A98	A,C,SS,TR	RD51	0	35	S	0	35	S	0	36	S	11	36	IM				0	S							2	IM							VDH Fish Adv. 99 FT/Sed PCB 2 Sp. 2013 FT/Sediment - PCBs 3 Species Trend Analysis Performed - Statistically significant trends were detected for Nitrogen Oxides (declining), Nitrogen (declining), and Total Phosphorous (declining)					
4ADAN017.44	VAC-L64R_DAN04A98	C,SS	RD51																0	S	0	S	0	S			1	IM							VDH Fish Adv. 99 FT/Sed PCB 2 Sp.					
4ADAN027.56	VAC-L62R_DAN03A98	FPM,B	RD46	0	1	W	0	1	W	0	1	W	0	1	W				0	W	0	W																2011 Large River Probmon Large river non-target for current DEQ sampling techniques. No assessment tool available for large river benthic communities.		
4ADAN028.90	VAC-L62R_DAN02A98	A,TR,SS	RD46	0	45	S	0	45	S	0	47	S	11	36	IM				0	S	0	S					2	IM							2013 FT/Sediment - PCBs 4 Species 2014 Dan River Coal Ash Spill Response					
4ADAN042.01	VAC-L60R_DAN01A00	FPM,SS,B	RD44	0	3	S	0	3	S	0	3	S	0	2	S				0	S			0	W														2013 Large River Probmon 2014 Dan River Coal Ash Spill Response Large river non-target for current DEQ sampling techniques. No assessment tool available for large river benthic communities.		
4ADAN042.80	VAC-L60R_DAN01A00	PA,TR,SS	RD41	0	22	S	0	22	S	0	22	S	3	12	S				0	S	0	S	0	S			2	IM							2013 FT/Sediment - PCBs 3 Species VDH Fish Adv.					
4ADAN053.40	VAC-L60R_DAN03A02	A	RD39	0	17	S	0	17	S	0	15	S	1	12	S																							2014 Dan River Coal Ash Spill Response		

Appendix 9 – Water Quality Monitoring Stations List

Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA						WATER COLUMN				SEDIMENT				FISH TISSUE				BENTHIC	NUTRIENTS *						COMMENTS							
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals		Other Toxics		BioMon	Total Phosphorous			Chlorophyll a										
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Status	Exceed	Samples	Status		Exceed	Samples	Status				
<i>Roanoke and Yadkin Rivers Basin</i>																																													
4AFIN008.76	VAW-L07L_FIN01A02	A,L	RU16	0	62	S	0	31	S	0	21	S	0	7	S				0	S																			0	1	IN	Falling Cr. Reservoir Pooled Data: Temp 0 / 62 (S); DO 0 / 31 (S); pH 0 / 21 (S,B); CHLa 0 / 1 (IN). PWS. One year collection 2007 only. Recreation not assessed No Public Access. No additional data.			
4AFLT002.60	VAC-L79R_FLT02A96	A,B,TR	RL14	0	37	S	0	37	S	0	38	S	6	35	IM				0	S																						2008/2011 Bio Flat Creek is a very slow moving stream at rivermile 2.60. Habitat was adequate with abundant leaf packs. Field measurements indicate a slight depression of dissolved oxygen in the warmest summer months.			
4AFLT003.30	VAC-L79R_FLT02A96	FPM	RL14	0	1	W	0	1	W	0	1	W	0	1	W				0	W																						2012 FPM			
4AFLT008.79	VAC-L79R_FLT02A96	A,B,C	RL14	0	2	S	0	2	S	0	2	S	1	7	IM				0	S	0	S	0	S	0	S	0	S	0	S	0	S													2002 Sed/FT 2004 Flat Creek TMDL The benthic TMDL completed in 2004 identified sediment as the stressor to the benthic community. No New Bacteria Data 2008/2010-2011 Bio 4AFLT008.79 has sparse habitat, effluent affected flow, and is subject to occasionally significant storm flows
4AFLT008.80	VAC-L79R_FLT02A96	TM	RL14										3	6	IM																											2014 - No New Data 2004 Flat Creek TMDL			
4AFLT009.17	VAC-L79R_FLT01A00	B,TM	RL14				2	8	IM				3	7	IM																											2014 - No New Data 2004 Flat Creek TMDL The benthic TMDL completed in 2004 identified sediment as the stressor to the benthic community. 4AFLT009.17 is in the headwater segment of Flat Creek with several small channels. Flow regime related sedimentation seems to be negatively affecting the stream community.			
4AFRV002.78	VAC-L34R_FRV01A00	A,TM	RU71										6	10	IM																											2012 - No New Data PWS; 2004 Falling River TMDL EPA Approved 7/9/2004; Ambient Sediment Sample 2007-2008 Roanoke River PCB TMDL Sampling USGS Temperature Data Level III - 0/14			
4AFRV003.07	VAC-L34R_FRV01A00	TM	RU71	0	12	S	0	12	S	0	12	S	2	12	IM				0	S																						2011-2012 IP Monitoring			
4AFRV010.99	VAC-L34R_FRV04A00	A,TM,TR	RU69	0	35	S	0	35	S	0	36	S	16	36	IM				0	S	0	S	0	S	0	S	0	S	0	S													2004 Falling River TMDL EPA Approved 7/9/2004 Trend Analysis Performed - Statistically significant trends were detected (TN, increasing)		
4AFRV017.71	VAC-L34R_FRV06A02	PA,TM	RU69	0	24	S	0	24	S	0	24	S	9	24	IM				0	S																						2004 Falling River TMDL EPA Approved 7/9/2004			
4AFRV017.85	VAC-L34R_FRV06A02	FPM,B	RU69	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S																						2013 FPM	
4AFRV025.34	VAC-L32R_FRV01A06	TM	RU66	0	12	S	0	12	S	0	12	S	4	12	IM																											2004 Falling River TMDL EPA Approved 7/9/2004			
4AFRV029.24	VAC-L32R_FRV01A06	TM	RU65	0	12	S	0	12	S	0	12	S	5	12	IM																											2014 - No New Data 2004 Falling River TMDL EPA Approved 7/9/2004			
4AFRY006.08	VAW-L18R_FRY01A06	TM,B	RU37	0	17	S	0	17	S	0	17	S	6	12	IM																											2 surveys 2011. Avg. VSCI 40.4. (former FPM VAEQ99-281).			
4AFSF000.66	VAC-L33R_FSF01A06	TM	RU67										3	10	IM																											2014 - No New Data 2004 Falling River TMDL EPA Approved 7/9/2004			
4AFSF004.56	VAC-L33R_FSF01A06	A	RU67	0	11	S	0	11	S	0	12	S	4	12	IM				0	S																						2014 - No New Data			
4AFSF011.11	VAC-L33R_FSF01A06	TM	RU67										5	11	IM																											2014 - No New Data			
4AGCR000.01	VAW-L08R_GCR01A00	A,TM,TR	RU21	2	12	IM	0	12	S	0	12	S	1	12	S				0	S																						South Fork Blackwater River TMDL Bacteria Study & Allocations U.S. EPA approved 2/02/2001 [Fed. ID 1886/7791]. Bacteria Implementation Plan SWCB approved 6/17/2004. 2010 temperature De-list. Re-Listed 2012 for temperature. No additional data 2014.			
4AGEO006.26	VAC-L68R_GEO01B14	FPM,B	RD57	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S	0	W																			2011 FPM Good banks, somewhat embedded with marginal sediment deposition		
4AGEO006.73	VAC-L68R_GEO01B14	FPM,B	RD57	0	2	S	0	2	S	0	2	S																														2013 Bio 4AGEO006.73 exhibits drastic seasonal variability around the assessment threshold score of 60. Abundant algal growth indicates nutrient enrichment is a probable stressor. Link 4AGEO006.73 to 4AGEO006.26 (a probmon assessed J)			
4AGEO011.38	VAC-L68L_GEO01A02	L	RD57	0	45	S	0	22	S	1	45	S	0	12	S				0	S	0	S	0	S																			2003 & 2007 Georges Creek Reservoir		
4AGER001.17	VAC-L63R_GER01A08	A	RD47	0	12	S	0	12	S	0	12	S	5	12	IM				0	S																									
4AGIB000.66	VAC-L71R_GIB01A08	A	RD67	0	6	S	1	6	S	0	5	S	2	6	IM				0	S																									
4AGIL002.39	VAW-L11L_GIL01A10	A,L	RU25	0	593	S	7	302	S	0	77	S	1	39	S				0	S																						Smith Mtn. Lake 2016 Pooled Data: Temp 2 / 15,851 (S); DO 196 / 8,940 (S); pH 27 / 1,233 (S).			
4AGIL004.46	VAW-L11R_GIL01A00	A,TM,TR	RU25	0	36	S	0	36	S	0	36	S	18	36	IM				0	S				0	S																			Gills Creek Bacteria TMDL Study U.S. EPA approved on 5/31/2002 [Fed ID 9472 / 18765]. SWCB approved 6/17/2004. Lower Blackwater River Implementation Plan SWCB approved 9/27/2006. Originally 303(d) Listed 1996 for FC. '04 sediment PCB only.	

Appendix 9 – Water Quality Monitoring Stations List

Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA			WATER COLUMN		SEDIMENT		FISH TISSUE		BENTHIC	NUTRIENTS *			COMMENTS										
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals	Other Toxics	Metals	Other Toxics	Metals	Other Toxics	BioMon		Total Phosphorous		Chlorophyll a							
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed		Samples	Status	Status	Exceed	Samples	Status	Exceed	Samples	Status	
Roanoke and Yadkin Rivers Basin																																				
4AGSE025.64	VAW-L21R_GSE01A00	A	RU41	0	9	S	0	9	S	0	9	S	3	9	IM																				No additional data beyond the 2008 IR. Goose Creek Fed ID 24552 and its tributaries are nested within the Staunton River TMDL Watershed.	
4AGSE037.78	VAW-L20R_GSE01A00	A	RU39	0	12	S	0	12	S	0	12	S	6	12	IM														0	12	S				No additional data beyond the 2008 IR where E.coli exceeds in 8 / 12- 'IM'.	
4AGSE-1-SOS	VAW-L22R_GSE02A02	CMON	RU43																							HP							SOS 7 surveys '07, '08, '09 & '10 [3C] Lv. 2. Two surveys Outside Acceptable Range.			
4AGSH001.28	VAW-L04R_GSH01A14	FPM,B	RU10	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN	0	S								0	2	S	0	1	IN	2 surveys 2012. Avg. VSCI 47.9. No 2012 sediment collection.
4AGSY004.60	VAC-L64R_GSY01A08	B	RD51	0	4	S	0	4	S	0	4	S																							2010/2014 Bio 4AGSY004.60 exhibits significant seasonal variability and a VSCI score close to the impairment cutoff of 60. Very low flows are characteristic of this waterbody. Further sampling is required to accurately assess this waterbody. 4AGSY004.60 was sampled in response to a J assessment of an upstream PROBMON station (4AGSY004.98).	
4AGSY004.98	VAC-L64R_GSY01A08	FPM,B	RD51										1	1	IN				0	W															2006 Probabilistic Monitoring Probabilistic survey lists as: 4AXUY000.58 Headwater stream which flows through an active cattle pasture. The stream community may be negatively impacted from sedimentation and excess nutrients.	
4AHAG002.95	VAC-L80R_HAG01A06	TM	RL18										3	9	IM																				2006 Great Creek TMDL	
4AHCK000.51	VAC-L34R_HCK01A10	A,B	RU69	0	4	S	0	4	S	0	4	S	2	12	IM																				2010/2012 Bio Seasonal variability in 2010 necessitated further sampling of 4AHCK000.51. Additional sampling yielded consistent scores above the assessment threshold. Riparian vegetation was adequate to maintain a balanced community.	
4AHEN002.16	VAC-L39R_HEN01A00	A	RU85	0	12	S	0	12	S	0	12	S	4	12	IM																					
4AHEN004.27	VAC-L39R_HEN02A04	B	RU85	0	4	S	0	4	S	0	4	S																							2009/2012 Bio 4AHEN004.27 exhibits significant seasonal variation. Additional data were collected in 2012 and characterize the stream community as unbalanced. Sediment and bank scour seem to be likely stressors within this reach.	
4AHEN004.74	VAC-L39R_HEN02A04	FPM,B	RU85																																2001 Probabilistic Monitoring Potential sediment impacts and lack of instream habitat.	
4AHL000.45	VAC-L57R_HLL01A14	FPM,B	RD31	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S													2011 FPM Riffles in this stream were somewhat embedded but overall it had decent habitat.	
4AHNT001.29	VAW-L22R_HNT01A10	A	RU43	0	11	S	0	11	S	0	11	S	11	12	IM																				No additional data beyond the 2010 IR.	
4AHOO-PT07-UVA	VAW-L42R_HOO01A02	CMON	RD03							0	1	IN																								
4AHPN001.62	VAW-L18R_HPNO1A06	A,TM	RU36	0	11	S	0	11	S	0	11	S	7	12	IM														1	12	IN				No additional data beyond the 2008 IR where E.coli exceeds in 13 / 21- 'IM'. Pigg R. Bacteria TMDL [Fed ID 30414] EPA Approved 9/11/2006; SWCB Approved 6/27/2007.	
4AHRN004.93	VAW-L47R_HRN01A00	A,B,TM	RD11	0	29	S	0	28	S	0	29	S	9	24	IM															0	23	S				3 VSCI surveys (2008, 2009 & 2010) to validate 4AHRN007.65. 2010 IR E.coli exceeds in 6 / 21- 'IM'. 2004 Bacteria (FC) Listed (5/17). Dan River Bacteria TMDL U.S. EPA approved 12/08/2008 Fed ID: 35748. SWCB approved 4/28/2009.
4AHTA000.77	VAC-L38R_HTA01A06	A,TM	RU80	0	11	S	0	11	S	0	12	S	3	12	IM																					
4AHTA003.26	VAC-L38L_HTA01L00	L,C	RU80	0	56	S	6	40	IM	0	56	S	0	14	S																	1	2	IN/O	2013-2014 Lake Conner Only one sample year 2006 FT/Sediment - Hg 2 Species	
4AHYC002.70	VAC-L74R_HYC01A00	A,C,SS	RD74	0	12	S	2	12	S	0	12	S	0	12	S														3	IM	4	IM				VDH Fish Adv. PCB & Mercury Dan River within the state of Virginia from the Brantley Steam Plant Dam in Danville downstream to the confluence with Roanoke River on John. H. Kerr Reservoir, including its tributaries Hyco River up to Rt. 738 bridge and Banister River up to the Banister Dam. These river segments comprise ~67 miles. (10/27/99; modified 12/13/04; mercury, 8/31/07; modified 9/16/08)
4AHYC010.76	VAC-L74R_HYC01A00	C	RD72																										1	O				2013 FT/Sediment - PCBs 1 Species		
4AHYC016.70	VAC-L74R_HYC02A06	A,TR	RD70	0	34	S	0	34	S	0	36	S	6	36	IM																					
4AIND-1-SOS	VAW-L07R_IND01A02	CMON	RU18																																SOS 2 surveys '09 & '10 [3D] Lv. 2	
4AIND-T20-FC	VAW-L07R_IND01A02	CMON	RU18																										1	17	IN				SML TP stream - 'W' No additional data beyond 2012 IR.	
4AINN-1-SOS	VAW-L02R_INN01A12	CMON	RU06																																SOS 4 surveys 2009-2010 [3D] Lv. 2. One survey Outside Acceptable Season Range.	
4AIVV002.00	VAW-L42R_IVV01A02	FPM,B	RD01	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN	0	S								0	2	S	0	1	IN	VAW05547-307- 2 surveys 2010. Avg. VSCI 72.2.
4AJCR000.42	VAW-L53R_JCR01A16	FPM,B	RD24	0	4	S	0	4	S	0	4	S	1	1	IN															0	2	S	0	1	IN	
4AJHN000.01	VAW-L26R_JHN01A00	B,TM	RU54	0	4	S	0	4	S	0	4	S	2	3	IN				0	IN	0	S								0	3	S				PWS. 3 VSCI surveys 2008 & 2011-2012. Avg. VSCI 48.6. No Sediment PEC exceedances from 2008 data; metals only. FC TMDL Surface observations; FC stirred Bottom observations 2/2-W. Bacteria TMDL Study APPROVED 02/02/01.

Appendix 9 – Water Quality Monitoring Stations List

Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA						WATER COLUMN				SEDIMENT				FISH TISSUE				BENTHIC	NUTRIENTS *						COMMENTS				
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals	Other Toxics	BioMon	Total Phosphorous			Chlorophyll a									
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Status	Exceed	Samples	Status	Exceed	Samples	Status					
Roanoke and Yadkin Rivers Basin																																										
4ALOR021.92	VAW-L26R_LOR04A00	TM	RU54	0	12	S	0	12	S	0	12	S	10	12	IM				0	S																			No additional data beyond the 2010 IR. Little Otter River Bacteria TMDL Study is U.S. EPA approved on 02/02/2001. Fed ID 1547 / 9486 / 19639 / 24557 / 24780. SWCB approved 6/17/2004. Bacteria Implementation Plan SWCB approved 3/27/2007. Originally 303			
4ALOU001.16	VAC-L37R_LOU01A06	TM	RU79										4	12	IM																					2006 Roanoke Basin TMDL						
4ALPP004.46	VAC-L81R_LPP01A16	PA	RL20	0	12	S	0	12	S	0	12	S	2	12	IM																					2013 Probambient						
4ALPP004.52	VAC-L81R_LPP01A16	FPM,B	RL20	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S						J										2013 Probmon 4ALPP004.52 exhibits significant seasonal variation. Additional data must be collected to accurately characterize the status of the stream community; however this site is on private property and was sampled as part of the Probabilistic Monitoring program. Therefore it will not be revisited.				
4ALRC-PT03-UVA	VAW-L50R_RCC20A04	CMON	RD15							0	1	IN																								2016 Cycle: One 2010 pH measurement of 6.7. Temp and pH data are Level II; Nitrate data are Level I.						
4ALRO003.34	VAC-L39R_LRO01A00	A	RU82	0	12	S	0	12	S	0	12	S	0	12	S							0	S													Flow below 7Q10 on 6-25-02 & 8-12-02 (02065500)						
4ALRO010.18	VAC-L39R_LRO02A10	B	RU81	0	2	S	0	2	S	0	2	S															IM										2012 Bio This stream had good habitat, a good riparian zone, and relatively stable banks. There was some sediment deposition occurring.					
4ALRO010.68	VAC-L39R_LRO02A10	FPM,B	RU81	0	2	S	0	2	S	0	2	S	0	1	W				0	S	0	S						IM										2007 Probmon 4AROC010.68 exhibited high seasonal variation. The spring sample half the taxa of the fall sample and both samples were dominated by tolerant taxa (Hydropsychidae in the spring and Chironomidae in the fall).				
4ALRV005.17	VAC-L34R_LRV01A00	TM	RU70										5	11	IM																					2004 Falling River TMDL EPA Approved 7/9/2004						
4ALRV007.84	VAC-L34R_LRV01A00	A	RU70	0	12	S	0	12	S	0	12	S	3	12	IM							0	S																			
4ALRV009.74	VAC-L34R_LRV03A06	A	RU70	0	11	S	0	11	S	0	12	S	3	12	IM							0	S																			
4ALRV013.53	VAC-L34R_LRV04A12	A	RU70	0	12	S	0	12	S	1	12	S	4	12	IM							0	S																			
4ALSN001.04	VAC-L64R_LSN02A02	A,C	RD50																			0	S				0	S	1	O												
4ALSN007.45	VAC-L64R_LSN01A98	A,TM	RD50	0	12	S	2	12	IM	0	12	S	3	12	IM							0	S										2	12	O				No New Data Dan River TMDL Study			
4ALUB000.12	VAC-L37R_LUB01A06	TM,B	RU77	0	14	S	0	14	S	0	14	S	1	12	S												J										2016 Delist Candidate for EC 2013 Bio 4ALUB000.12 exhibits drastic seasonal variability around the assessment threshold score of 60. Additional monitoring is needed to accurately assess this reach.					
4A-LUB-CHA08-SSWCD	VAC-L37R_LUB01A06	CMON	RU77	0	10	S							6	35	IN/O																					Southside SWCD Station - Level II Coliscan Category 3C						
4ALVL001.11	VAW-L07L_LVL01A10	A,L	RU16	0	9	S	0	8	S	0	9	S	0	9	S							0	S																Smith Mtn. Lake Pooled Data: Temp 2 / 15,739 (S); DO 367 / 7,408 (S); pH 31 / 1,246 (S); TP 0 / 2 (S); CHLa 0 / 2 (S).			
4ALVL-1-SOS	VAW-L07R_LVL01A02	CMON	RU16																								LP										SOS 4 surveys '08, '09 & '10 [3D] Lv. 2. Three surveys Outside Acceptable Season Range.					
4ALVL-T18-FC	VAW-L07R_LVL01A02	CMON	RU16																											1	12	IN				SML TP stream - 'W' No additional data beyond 2012 IR.						
4ALVL-T19-FC	VAW-L07R_LVL01A02	CMON	RU16																											1	21	IN				SML TP stream - 'W' No additional data beyond 2012 IR.						
4ALWD002.54	VAW-L56R_LWD01A00	A,TM	RD29	0	12	S	0	12	S	0	12	S	4	12	IM							0	S										0	12	S				No additional data beyond the 2008 IR where E.coli exceeds in 8 / 31-'IM'. Dan River Bacteria TMDL U.S. EPA approved 12/08/2008. Fed ID: 35753. SWCB approved 4/28/2009. 2008 E.coli exceeds GM 2/5 calcs-'IM'. Bacteria (FC) 2002 Listed 3/23 >1000; FC 20			
4ALWD011.03	VAW-L56R_LWD03A00	A	RD27	0	12	S	0	12	S	0	12	S	6	12	IM							0	S										0	12	S				2008 IR E.coli exceeds in 8 / 21-'IM'. Dan River Bacteria TMDL U.S. EPA approved 12/08/2008. Fed ID: 35753. SWCB approved 4/28/2009. Station Bacteria (E.coli) 2006 Listed 2/9.			
4ALWF004.32	VAW-L56R_LWF01A00	A	RD28	0	12	S	0	12	S	0	12	S	6	12	IM															1	12	IN							No additional data beyond the 2012 IR. Dan River Bacteria TMDL U.S. EPA approved 12/08/2008. Fed ID: 35753. SWCB approved 4/28/2009.			
4ALYA000.60	VAC-L80R_LYA01A06	TM	RL18										5	9	IM																								2006 Great Creek TMDL			
4ALYH000.17	VAC-L19R_LYH01A02	TM	RU48	0	1	W	0	1	W	0	1	W										1	O																2007-2008 Roanoke River PCB TMDL Sampling PCB Violation - 34,673 pg/L			
4ALYH000.22	VAC-L19R_LYH01A02	SS,TM	RU48																								1	O										2000 PCB Altavista/Hurt Soil & Sediment SS				
4ALYH000.26	VAC-L19R_LYH01A02	SS	RU48																								1	O										2000 PCB Altavista/Hurt Soil & Sediment SS				
4ALYH000.33	VAC-L19R_LYH01A02	SS	RU48																								1	O										2000 PCB Altavista/Hurt Soil & Sediment SS				
4ALYH000.50	VAC-L19R_LYH01A02	A,B	RU48	0	13	S	0	13	S	0	13	S	9	11	IM												IM													2008/2012 Bio 4ALYH000.50 is located in a city park with significant impervious surface coverage in the riparian zone.		
4ALYT003.77	VAC-L78R_LYT01A06	A,B,TR	RL10	0	40	S	1	40	S	0	41	S	11	36	IM							0	S							IM										2005-2012/2014 Bio 4ALYT003.77 was negatively affected by drought in 2007-2008, with periods of very low flow. Logging in the upgradient watershed appears to have negatively affected the benthic community with sedimentation. Current monitoring (2014) has yielded similar results.		
4AMAY018.17	VAW-L48R_ZZZ01A00	A	RD13	0	12	S	0	12	S	0	12	S	4	12	IM							0	S							1	12	IN							2008 Listed Bacteria (E.coli) 3/9-'IM'. Station located in North Carolina. Dan River Bacteria TMDL U.S. EPA approved 12/08/2008 Fed ID: 35748. SWCB approved 4/28/2009.			

Appendix 9 – Water Quality Monitoring Stations List

Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA						WATER COLUMN				SEDIMENT				FISH TISSUE				BENTHIC	NUTRIENTS *						COMMENTS	
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals		Other Toxics		BioMon	Total Phosphorous			Chlorophyll a				
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed		Samples
Roanoke and Yadkin Rivers Basin																																							
4AMBY001.33	VAW-L54R_MBY01A10	FPM,B	RD26	0	2	S	0	2	S	0	2	S	0	1	IN				0	S	0	S	0	S										IM					VAW05547-175- 2 surveys 2008. Avg. VSCI 46.8. No Sediment PEC exceedances from 2008 data; metals only.
4AMBY001.51	VAW-L54R_MBY01A10	TM,B	RD26	0	16	S	0	15	S	0	16	S	4	12	IM																IM	0	11	S					
4AMCC002.05	VAC-L81R_MCC01A14	B	RL21	0	2	S	0	2	S	0	2	S																			J					2012 Bio Spring 2012: "Failing banks. Small, incised stream, some clay. Gravel riffles with some cobble." Fall 2012 "Recent clear-cut on right bank. Very low flow. Failing banks."			
4AMCG000.56	VAC-L57R_MCG01A06	FPM,B	RD32	0	1	W	0	1	W	0	1	W							0	W											FS					2003 Probabilistic Monitoring SPMD Station 2008 Bio 4AMCG000.56 exhibited strong seasonal variation in 2003. Additional data collected in 2008 indicate the support of the aquatic life use water quality standard.			
4AMCH000.53	VAW-L54R_MCH01A10	B,TM	RD26	0	17	S	0	17	S	0	17	S	4	13	IN				0	S	0	S							IM	0	14	S	0	1	IN		3 surveys 2008 & 2009. Avg. VSCI 24.0.		
4AMCR004.60	VAW-L26R_MCR01A00	A,TM	RU53	0	36	S	0	35	S	0	35	S	17	36	IM						0	S														Little Otter River Bacteria TMDL Study U.S. EPA approved on 02/02/2001. Fed ID 1547 / 9486 / 19639 / 24557 / 24780. SWCB approved 6/17/2004. Bacteria Implementation Plan SWCB approved 3/27/2007. Originally 303(d) Listed 1996 for FC.			
4AMDL000.34	VAW-L04R_MDL01A06	TM	RU14																																Bacteria Impairment carries. 2010 and 2008 assessments find E.coli exceeds in 4/12- 'IM'.				
4AMDL002.93	VAW-L04R_MDL01A06	B	RU14	0	2	S	0	2	S	0	2	S							0	IN	0	S	0	S							IM					No data beyond the 2012 IR where 6 surveys have an average VSCI score of 24.3 (24.3).4 VSCI surveys 2007 FPM, 2009. Avg. VSCI 20.1. No Sediment PEC exceedances from 2007 data; metals only.			
4AMDL-1-SOS	VAW-L04R_MDL01A06	CMON	RU14																												HP					SOS 13 surveys 2007-2012 [3C] Lv. 2. Four surveys Outside Acceptable Season Range.			
4AMEE002.38	VAW-L09R_MEE01A00	B,TM	RU23	0	4	S	0	4	S	0	4	S																			IM					4 surveys 2010-2011. Avg. VSCI 57.4.			
4AMEE004.90	VAW-L09R_MEE01A00	A,TR	RU23	0	36	S	0	36	S	0	36	S	18	35	IM						0	S											2	36	IN		Maggodee Creek Bacteria TMDL Study U.S. EPA approved 4/27/2001 [Fed ID 1562 / 9475]. SWCB approved 6/17/2004. Lower Blackwater River Bacteria Implementation Plan SWCB approved 9/27/2006. Originally 303(d) Listed 1996 for FC.		
4AMEE009.86	VAW-L09R_MEE03A00	A	RU23	0	24	S	0	24	S	0	24	S	9	24	IM						0	S											2	24	IN		Maggodee Creek Bacteria TMDL Study U.S. EPA approved 4/27/2001 [Fed ID 1562 / 9475]. SWCB approved 6/17/2004. Lower Blackwater River Bacteria Implementation Plan SWCB approved 9/27/2006. Originally 303(d) Listed 1996 for FC.		
4AMEE016.75	VAW-L09R_MEE04A00	PA,FPM	RU23	0	6	S	0	6	S	0	6	S	0	6	S																	0	6	S					
4AMEE017.24	VAW-L09R_MEE04A00	FPM,B	RU23	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN	0	S							IM	0	2	S	0	1	IN				
4AMEE021.13	VAW-L09R_MEE05A00	A	RU23	5	24	IM	0	24	S	0	24	S	5	23	IM						0	S											0	24	S		Re-Listed 2012 Bacteria. 2008 E.coli Partial delist (4.4 mi.) Bacteria TMDL Study APPROVED 4/27/01. Imp Pan APPROVED 9/27/2006. Bacteria (FC) '98 Listed station.		
4AMEE-1-SOS	VAW-L09R_MEE04A00	CMON	RU23																												MP					SOS 8 surveys 2010-2012 [3C] Lv. 2. Two surveys Outside Acceptable Date Range.			
4AMEE-2-SOS	VAW-L09R_MEE05A00	CMON	RU23																												LP					SOS 8 surveys '10 [3D] Lv. 2. Two surveys Outside Acceptable Date Range.			
4AMEE-T1a-FC	VAW-L09R_MEE01A00	CMON	RU23																										1	6	IN		SML TP stream - 'W' No additional data beyond 2012 IR.						
4AMEE-T1-FC	VAW-L09R_MHA01A00	CMON	RU23																										1	11	IN		SML TP stream - 'W' No additional data beyond 2012 IR.						
4AMES004.78	VAC-L79R_MES01A98	A	RL13	0	12	S	0	12	S	0	12	S	2	11	IM						0	S														2016 New EC Impairment			
4AMES007.54	VAC-L79L_MES01L00	L,C	RL13	0	56	S	8	41	IM	0	56	S	1	14	S						0	S	0	S	0	S	2	IM	0	S				2	2	IM		2013-2014 Lake Gordon 2006 FT/Sediment - Hg 2 Species	
4AMEY000.40	VAC-L35R_MEY02A06	TM	RU68										8	11	IM																				2004 Falling River TMDL EPA Approved 7/9/2004				
4AMEY006.72	VAC-L35R_MEY02A06	FPM,B	RU68	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S										J					2013 FPM 4AMEY006.72 exhibits seasonal variability near the assessment threshold of 60. This stream is on private property and was sampled as part of the Probabilistic Monitoring program, therefore it will not be revisited. 4AMEY016.00 is assessed as impaired within the watershed.		
4AMEY007.76	VAC-L35R_MEY02A06	PA	RU68	0	12	S	0	12	S	0	12	S	5	12	IM																								
4AMEY010.46	VAC-L35R_MEY02A06	A,TM	RU68	0	11	S	0	11	S	0	12	S	6	12	IM																				2004 Falling River TMDL EPA Approved 7/9/2004				
4AMEY016.00	VAC-L35R_MEY01A00	A,TM,B	RU68	0	7	S	0	7	S	0	7	S	3	6	IM				0	S	0	S	0	S	0	S				IM	4	15	O		2004 Falling River TMDL EPA Approved 7/9/2004 2006 - 5/22 TP OE 2007-2008/2013 Bio Agricultural watershed influences in addition to a small POTW several miles upstream.				
4AMIL002.17	VAC-L68R_MIL01A16	B	RD56	0	1	W	0	1	W	0	1	W																			FS					2013 Bio Agricultural watershed. Good in-stream habitat with low sedimentation.			
4AMRR000.02	VAW-L55R_MRR01A00	A,TM	RD25	0	12	S	0	12	S	0	12	S	2	12	IM						0	S											0	12	S		Dan River Bacteria TMDL U.S. EPA approved 12/08/2008. Fed ID: 35753. SWCB approved 4/28/2009. Bacteria (FC) 2002 Listed 5/23 >1000; FC 2004 >400 4/29.		
4AMRY000.82	VAC-L64R_MRY01A04	A,TM,B	RD48	0	15	S	0	15	S	0	16	S	6	12	IM						0	S										J					2010/2014 Bio 4AMRY000.82 continues to exhibit significant seasonal variation. Additional data must be collected to accurately characterize the status of the stream community. Sedimentation is a probable stressor.		
4AMSN000.53	VAW-L04R_MSN01A00	B,TM	RU10	0	2	S	0	2	S	0	2	S																			IM					2 VSCI surveys (2005).			

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Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA						WATER COLUMN				SEDIMENT				FISH TISSUE				BENTHIC		NUTRIENTS *						COMMENTS							
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals		Other Toxics		BioMon	Total Phosphorous			Chlorophyll a											
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Status	Exceed	Samples	Status	Exceed		Samples	Status					
Roanoke and Yadkin Rivers Basin																																														
4AMSN000.67	VAW-L04R_MSN01A00	TM	RU10	0	13	S	0	13	S	0	13	S	2	12	IM																												No additional data beyond the 2008 IR.			
4AMSN003.05	VAW-L04R_MSN01A00	B, TM	RU10	0	2	S	0	2	S	0	2	S																															2 VSCI surveys (2005).			
4AMSN-4-SOS	VAW-L04R_MSN01A00	CMON	RU10																																					SOS 1 survey 2011 [3D] Lv. 2.						
4AMTR010.33	VAW-L49R_MTR01A02	A	RD14	0	12	S	0	12	S	0	12	S	1	12	S				0	S																	0	12	S				2008 Bacteria Listed (E.coli) 3/9- 'IM'. Dan River Bacteria TMDL U.S. EPA approved 12/08/2008 Fed ID: 35748. SWCB approved 4/28/2009.			
4AMUR001.82	VAW-L04R_MUR01A00	B, TM	RU14	0	3	S	0	3	S	0	3	S																															3 VSCI surveys (2009 & 2010). Avg. VSCI 19.4.			
4AMUR-B-SOS	VAW-L04R_MUR01A00	CMON	RU14																																					SOS 6 surveys 2007-2010 [3C] Lv. 2. One survey Outside Acceptable Season Range.						
4AMWW004.53	VAW-L22R_MWW01A10	PA	RU43	0	12	S	0	12	S	0	12	S	4	12	IM				0	S																	0	12	S				No additional data beyond the 2010 IR.			
4AMY0001.48	VAC-L74R_MYO01A04	A	RD71	0	12	S	0	12	S	0	12	S	2	12	IM																															
4AMY0001.87	VAC-L74R_MYO01A04	C	RD71																						1	O		0	S														2007 FT Sampling OE - Hg 1 Species			
4ANCH001.23	VAW-L51R_NCH01A12	A	RD19	0	12	S	0	12	S	0	12	S	4	12	IM																									0	12	S				
4ANCH-1-SOS	VAW-L51R_NCH01A12	CMON	RD19																																								SOS 1 survey '09 & '10 [3D] Lv.2. One survey Outside Acceptable Season Range.			
4ANFA000.35	VAC-L73R_NFA01A06	A	RD75	0	11	S	0	11	S	0	12	S	2	12	IM				0	S																										
4ANFS-PT15-UVA	VAW-L50R_NFS01A00	CMON	RD15							0	1	IN																																		
4ANMR002.60	VAW-L46R_NMR01A00	A, C	RD12	0	36	S	0	36	S	0	36	S	14	36	IM				0	S					0	S		0	S								1	36	IN				2004 Bacteria Listed. 3/25-IM. '07 FT no exceedances; no sediment collection. Dan River Bacteria TMDL U.S. EPA approved 12/08/2008. Fed ID: 35754. SWCB approved 4/28/2009.			
4ANOT001.06	VAW-L24R_NOT01A02	A, TM	RU50	0	36	S	0	36	S	0	36	S	16	35	IM				0	S																	0	36	S				Bacteria TMDL Study EPA Approved 02/02/01.			
4ANUT001.50	VAC-L75L_ROA05L98	C	RL08																						0	S		0	S		1	O		1	O								2006 FT/Sediment - Hg 1 Species (OE - Exceeds 1.1 ppm) OE - PCB 1 Species			
4AORE000.01	VAW-L04R_ORE01A00	FPM, B	RU14	0	2	S	0	2	S	0	2	S	1	1	IN										1	O											0	2	S	0	1	IN				2 surveys 2011. Avg. VSCI 23.3. 2011 sediment finds lead (Pb) exceeding the PEC SV of 128 ppm at 168 ppm.
4AORE000.19	VAW-L04R_ORE01A00	A, TM	RU14	0	12	S	0	12	S	0	12	S	6	12	IM				0	S																							No additional data beyond the 2008 IR E.coli 23/36). Roanoke River Bacteria TMDL US EPA approved 8/02/2006. SWCB approved 6/27/2007. NESTED.			
4AOST002.01	VAW-L24R_OST02A02	B, A	RU50	0	2	S	0	2	S	0	2	S																												0	2	S				Benthic community VSCI scores average 85.9 (S 81.88, F 89.84). Sampled as a benthic reference site. Majority of the watershed is National Forest.
4AOST-BE02-UVA	VAW-L24R_OST02A02	CMON	RU50							0	1	IN																																		
4AOWC002.35	VAC-L13R_OWC01A00	TM	RU38										3	6	IM																															
4AOWC005.36	VAC-L13R_OWC01A00	A, B	RU38	0	3	S	0	3	S	0	3	S	2	3	IM				0	S		0	S																							
4APAA000.71	VAW-L17R_PAA01A04	B, PA	RU35	0	15	S	0	15	S	0	15	S	2	11	IM																															
4APBA003.71	VAW-L46R_PBA02A02	A	RD10	1	12	S	0	12	S	0	12	S	1	12	S																									0	12	S				2016 is the first cycle reported.
4APBA-PT13-UVA	VAW-L46R_PBA02A02	CMON	RD10							0	1	IN																															2016 Cycle: Temp and pH are Level II. One 2010 pH measurement of 6.7.			
4APCP-1-SOS	VAW-L10R_PCP01A02	CMON	RU24																																								3 surveys 2011-2012 [3D] Lv. 2. One survey Outside Acceptable Date Range.			
4APCP-T4-FC	VAW-L10R_PCP01A02	CMON	RU24																																		0	17	S				SML TP stream - 'W' No additional data beyond 2012 IR.			
4APDA000.35	VAC-L64R_PDA01A10	B	RD51	0	2	S	0	2	S	0	2	S																																		
4APDD001.13	VAC-L65R_PDD01A12	A	RD54	0	11	S	0	11	S	0	12	S	1	12	S																															
4APDE002.12	VAC-L66R_PDE01A10	A	RD55	0	12	S	0	12	S	0	11	S	4	12	IM																															
4APEC002.42	VAC-L71R_PEC01A04	A, B	RD65	0	16	S	0	16	S	0	16	S	3	12	IM																															
4APEC006.49	VAC-L71R_PEC01A04	A, B	RD65	0	4	S	0	4	S	0	4	S	2	12	IM																															
4APEE001.04	VAW-L04R_PEE01A02	A, C, TM	RU14	0	2	S	0	2	S	0	2	S	1	2	IM				0	S		0	S		10	O		0	S																	
4APEE001.16	VAW-L04R_PEE01A02	B, TM	RU14	0	2	S	0	1	IN	0	2	S																																		

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Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA						WATER COLUMN				SEDIMENT				FISH TISSUE				BENTHIC	NUTRIENTS *						COMMENTS
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals	Other Toxics	BioMon	Total Phosphorous			Chlorophyll a					
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Status	Exceed	Samples	Status	Exceed	Samples	Status	
Roanoke and Yadkin Rivers Basin																																						
4APRS008.76	VAW-L42R_PRS01A02	A	RD05	0	12	S	0	12	S	0	12	S	4	12	IM																			0	12	S	No additional data beyond the 2012 IR.	
4APWL001.11	VAC-L74R_PWL01A10	A	RD69	0	12	S	0	12	S	0	12	S	3	12	IM																						2016 New EC Impairment	
4ARAB000.52	VAC-L19R_RAB01A00	B	RU48	0	3	S	0	3	S	0	3	S																IM							2011/2012 Bio 4ARAB000.52 exhibited high seasonal variability, with one score approaching the impairment cutoff of 60. Sedimentation and elevated nutrients may be negatively affecting the stream community.			
4ARAB003.64	VAC-L19R_RAB01A00	FPM,B	RU48	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S							J							2012 FPM This stream had moderately unstable banks and increased sediment deposition. Condition of stream drastically different seasonally. 4ARAB003.64 was sampled within the PROBMON program. The reach is accessed by private property and will not be revisited. 4ARAB003.71 is accessible from the road and will be linked to this reach for future assessments.		
4ARAB003.71	VAC-L19R_RAB01A00	B	RU48	0	1	W	0	1	W	0	1	W																FS							2014 Bio 4ARAB003.71 is affected by slight sedimentation but still meets WQS.			
4ARAC000.92	VAC-L64R_RAC01A04	B	RD51	0	2	S	0	2	S	0	2	S																IM							2012 Bio 4ARAC000.92 is located in an older suburban watershed with abundant impervious surfaces which negatively affects flows and sedimentation. There is also an unlined municipal landfill in the watershed which has historical leachate issues.			
4ARAR-PT04-UVA	VAW-L42R_RAR01A02	CMON	RD02																																			
4ARBC005.44	VAW-L51R_RBC02A02	A	RD18	3	12	IM	0	12	S	0	12	S	3	12	IM						0	S										1	12	IN	2002 Temp °C Listing 2/6- IM. No additional data beyond the 2008 IR.			
4ARBC-FR03-UVA	VAW-L51R_RBC02A02	CMON	RD18						0	1	IN																											
4ARCC006.89	VAW-L50R_RCC02A02	B,A	RD15	0	2	S	0	2	S	0	2	S																FS	0	2	S				Reference station. VSCI scores average 78.0 (2013).			
4ARCC008.86	VAW-L50R_RCC02A02	B,SS	RD15	0	2	S	0	2	S	0	2	S																FS							Regional Monitoring Network station RMN-VA-4ARCC008.86. VSCI scores average 77.2 (2014).			
4ARCC-PT01-UVA	VAW-L50R_RCC02A02	CMON	RD15						0	1	IN																											
4AREE000.80	VAW-L53R_REE01A00	A	RD23	0	12	S	0	12	S	0	12	S	3	12	IM						0	S										0	12	S	2008 IR E.coli exceed 4 / 21- 'IM'. Dan River Bacteria TMDL U.S. EPA approved 12/08/2008 Fed ID: 35748. SWCB approved 4/28/2009. Bacteria (E.coli) 2008 Listed.			
4ARFK000.20	VAC-L66L_RFK01A06	L	RD55	0	63	S	5	35	IM	9	63	IM	1	14	S						0	S										0	2	S	2011/2012 Roaring Fork Reservoir			
4ARHY-PT12-UVA	VAW-L43R_RHY01A02	CMON	RD06						0	1	IN																											
4ARNF002.97	VAW-L02R_RNF01A00	TM	RU08	0	12	S	0	12	S	0	12	S	1	12	S						0	S										0	12	S	No additional data beyond the 2010 IR.			
4ARNF013.66	VAW-L02R_RNF03A02	A,TR	RU07	0	36	S	0	36	S	0	35	S	10	35	IM						0	S										1	36	IN	1 survey 2007. VSCI 72.6. Trend Analysis.			
4ARNF015.22	VAW-L02R_RNF04A02	FPM,B	RU06	0	4	S	0	4	S	0	4	S	0	1	IN				0	IN	0	S	0	S				FS	0	2	S	0	1	IN	VAW05547-319 (2010). 4 surveys 2010 & 2012. Avg. VSCI 69.2. No 2010 sediment PEC SV excursions.			
4ARNF016.80	VAW-L02R_RNF04A02	A	RU06	0	24	S	0	24	S	0	24	S	6	24	IM																0	24	S	The 2012 E.coli exceedances cause the extension of the impairment upstream and is a nested extension of the initially 2002 Listed 4ARNF013.66. No additional data beyond the 2012 IR.				
4ARNF-1-SOS	VAW-L02R_RNF05A02	CMON	RU06																									W							SOS 1 survey 2010. Survey Outside Acceptable Season Range. Not assessed.			
4AROA000.00	VAC-L80L_ROA08A04	L	RL18	0	191	S	9	158	S	0	191	S	0	21	S						0	S										0	3	S	2010/2012/2014 Lake Gaston Pooled DO data: 18/379			
4AROA004.54	VAC-L80L_ROA08A04	L,C,SS	RL18	0	147	S	2	104	S	1	147	S	0	14	S						0	S	0	S	0	S	1	O	1	IM				2010/2012/2014 Lake Gaston Not in Lacustrine Zone Pooled DO data: 18/379 2002 FT/Sed PCBs 1 Species & Hg 1 Species; Lake Gaston 2006 FT/Sediment - Hg 1 Species, PCBs 2 Species Observed Effects				
4AROA008.66	VAC-L79L_ROA07A98	L	RL14	0	136	S	7	117	S	0	136	S	0	21	S						0	S													2010/2012/2014 Lake Gaston Not in Lacustrine Zone Pooled DO data: 18/379 4B - Renovations at Kerr Dam to aerate water discharged from dam in months when Kerr Reservoir is stratified.			
4AROA012.08	VAC-L78R_ROA06A98	A,TR	RL12	0	35	S	1	35	S	0	37	S	1	37	S						0	S													Tail water of Kerr Dam and Reservoir. 4B - Renovations at Kerr Dam to aerate water discharged from dam in months when Kerr Reservoir is stratified.			
4AROA018.04	VAC-L78R_ROA06A98	A,SS,TR	RL12	0	22	S	2	22	S	0	24	S	1	23	S						0	S						1	O				1999 FT/Sed PCBs 1 Species Trend Analysis Performed - No statistically significant trends were detected Tail water of Kerr Dam and Reservoir 4B - Renovations at Kerr Dam to aerate water discharged from dam in months when Kerr Reservoir is stratified.					
4AROA018.36	VAC-L75L_ROA05L98	L,SS	RL09	0	466	S	33	288	IM	5	466	S	0	21	S						0	S										0	3	S	2010/2012/2014 Kerr Reservoir Pooled DO Data: 134/1437			
4AROA022.52	VAC-L75L_ROA05L98	L,SS	RL09	0	443	S	13	248	S	2	443	S	0	21	S						0	S										0	3	S	2010/2012/2014 Kerr Reservoir Pooled DO Data: 134/1437			

Appendix 9 – Water Quality Monitoring Stations List

Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA			WATER COLUMN				SEDIMENT		FISH TISSUE				BENTHIC	NUTRIENTS *						COMMENTS					
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals	Other Toxics	BioMon	Total Phosphorous				Chlorophyll a				
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Status	Exceed		Samples	Status	Exceed	Samples	Status
<i>Roanoke and Yadkin Rivers Basin</i>																																						
4AROA028.04	VAC-L75L_ROA05L98	L,C,SS	RL09	0	403	S	19	211	S	0	403	S	0	20	S				0	S	0	S	0	S	2	IM	1	IM				0	3	S	2010/2012/2014 Kerr Reservoir Pooled DO Data: 134/1437 2002 FT PCB 5 sp. 2006 FT/Sediment - Hg 2 Species (Exceeds 1.1 ppm), PCBs 3 Species VDH Fishing Advisory for PCBs			
4AROA028.44	VAC-L75L_ROA05L98	C,SS	RL07																				0	S			2	IM							1999 FT/Sed; Fall 98 PCB 6 Sp. & H epoxide 1 Sp.			
4AROA032.42	VAC-L75L_ROA05L98	L	RL06	0	314	S	15	194	S	0	314	S	0	21	S				0	S													0	3	S	2010/2012/2014 Kerr Reservoir Pooled DO Data: 134/1437		
4AROA036.59	VAC-L75L_ROA05L98	C	RL06																0	S	0	S	1	O	1	IM										2006 FT/Sediment - Hg 1 Species (OE - Exceeds 1.1 ppm), PCBs 4 Species		
4AROA038.49	VAC-L75L_ROA05L98	L,A,SS	RU94	0	163	S	7	138	S	0	163	S	0	21	S				0	S													0	3	S	2010/2012/2014 Kerr Reservoir Pooled DO Data: 134/1437		
4AROA043.14	VAC-L75L_ROA05L98	L,SS	RU94	0	122	S	3	102	S	0	122	S	0	21	S				0	S	0	S	0	S										0	3	S	2010/2012/2014 Kerr Reservoir Pooled DO Data: 134/1437	
4AROA059.12	VAC-L40R_ROA03A98	A,SS,TM,TR	RU87	0	35	S	0	35	S	0	36	S	10	36	IM				2	IM					4	IM	2	IM										98 FT PCB 4 Sp. & 02 FT/Sed PCB 8 Sp. Trend Analysis Performed - No statistically significant trends were detected 2006 FT/Sediment - Hg 4 Species (Exceeds 1.1 ppm), As 1 Species (OE), PCBs 7 Species VDH Fish Advisory 2013 FT/Sediment - PCBs 6 Species 2007-2008 Roanoke River PCB TMDL Sampling PCB Violations - 1627 pg/L & 1359 pg/L
4AROA064.69	VAC-L38R_ROA02A98	FPM,B	RU80				0	1	W	0	1	W	0	1	W				0	W	0	W	0	W							FS							2008 Probmon 4AROA064.69 is a large river site. VSCI is not applicable to large rivers. However, benthic community did not indicate an unbalanced system.
4AROA067.91	VAC-L38R_ROA02A98	A,C,TR,SS,TM	RU80	0	42	S	0	42	S	0	43	S	7	42	IM				0	W	2	IM			4	IM	2	IM										99 PCB 3 Species 2006 FT/Sediment - Hg 4 Species, PCBs 7 Species VDH Fish Advisory 2013 FT/Sediment - PCBs 6 Species 2007-2008 Roanoke River PCB TMDL Sampling PCB Violations - 1336 pg/L & 1307 pg/L
4AROA076.57	VAC-L38R_ROA02A98	FPM,B	RU80	0	1	W	0	1	W	0	1	W																	J							2014 FPM 4AROA076.57 was sampled as part of the large river PROBMON program. The VSCI is tailored to smaller rivers. This segment can be assessed when assessment techniques are refined in the future.		
4AROA090.50	VAC-L30R_ROA02A00	TM	RU64	0	3	S	0	3	S	0	3	S							2	IM			0	S													2007-2008 Roanoke River PCB TMDL Sampling PCB Violations - 1192 pg/L & 1625 pg/L	
4AROA096.62	VAC-L30R_ROA02A00	C	RU64																								2	IM							PWS; VDH Fish Adv.; 00 FT Only PCB 2 Sp.			
4AROA096.65	VAC-L30R_ROA02A00	SS	RU64																				4	O													*PWS; VDH Fish Adv.; 99 Sed Only	
4AROA097.07	VAC-L30R_ROA03A00	C,SS	RU64																0	S	1	O	2	IM	4	IM										PWS; VDH Fish Adv.; 02 FT/Sed 2006 FT/Sediment - Hg 2 Species (Exceeds 1.1 ppm), PCBs 5 Species 2013 FT/Sediment - PCBs 5 Species		
4AROA097.46	VAC-L30R_ROA03A00	A,B,TM,TR	RU64	0	34	S	0	34	S	0	36	S	6	36	IM				0	S									J							PWS; VDH Fish Advisory; 2006 Roanoke Basin TMDL Trend Analysis Performed - Statistically significant trends were detected (TN, decreasing & TP decreasing & TSS, decreasing) Large river non-target for current DEQ sampling techniques; river is only Wadeable at this site during periods of very low flow. USGS Temperature Data Level III - 0/3		
4AROA097.76	VAC-L30R_ROA04A00	TM	RU64	0	2	S	0	2	S	0	2	S							2	IM			0	S													2007-2008 Roanoke River PCB TMDL Sampling PCB Violations - 1115 pg/L & 4304 pg/L	
4AROA108.09	VAC-L30R_ROA06A00	A,C,TM	RU63	0	13	S	0	13	S	0	13	S	0	12	S				0	S	1	O	0	S	0	S	1	IM	2	IM							PWS; 98 FT/Sed PCB 6 Sp. 2006 FT/Sediment - PCBs 4 Species VDH Fish Advisory 2013 FT/Sediment - PCBs 5 Species 2007-2008 Roanoke River PCB TMDL Sampling PCB Violation - 1147 pg/L	
4AROA118.49	VAC-L30R_ROA06A00	FPM,B	RU60	0	1	W	0	1	W	0	1	W	0	1	W				0	W									J							2012 Fall Probmon 4AROA118.49 was sampled as part of the large river PROBMON program. The VSCI is tailored to smaller rivers. This segment can be assessed when assessment techniques are refined in the future.		
4AROA124.59	VAC-L30R_ROA06A00	A,TM	RU60	0	1	W	0	1	W	0	1	W							2	IM	0	S	0	S													PWS; VDH Fish Advisory 2007-2008 Roanoke River PCB TMDL Sampling PCB Violations - 2909 pg/L & 4466 pg/L	
4AROA127.79	VAC-L19R_ROA01A00	TM	RU48	0	1	W	0	1	W	0	1	W																										2007-2008 Roanoke River PCB TMDL Sampling
4AROA128.27	VAC-L19R_ROA01A00	CMON	RU48																0	S																CVGS Hg Mercury Sampling		

Appendix 9 – Water Quality Monitoring Stations List

Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA			WATER COLUMN				SEDIMENT		FISH TISSUE		BENTHIC	NUTRIENTS *						COMMENTS						
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		BioMon	Total Phosphorous				Chlorophyll a					
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status		Status	Exceed	Samples	Status	Exceed	Samples
Roanoke and Yadkin Rivers Basin																																					
4AROA202.32	VAW-L04R_ROA05A00	FPM	RU14	0	2	S	0	2	S										0	S	0	S	0	S	1	O											VDH Fish Consumption Advisory. VAEQ99-466 (2004 - Algal). 2004 sediment exceeds 99th percentile acenaphthene (SV 170) @ 310 ppb. EDAS coded 4AROA202.20.
4AROA204.76	VAW-L04R_ROA06A00	TM	RU14	0	2	S	0	2	S										1	IM															ROA PCB TM 2008 two SPMD-'IM (2/2)'. VDH Fish Consumption Advisory (PCB). Roanoke R. PCB TMDL Study US EPA approved 4/9/2010. SWCB approved 12/9/2010. Fed IDs: L04R Roanoke River 24537, 38552, 38632, 38633, 38634, 38635, 38636.		
4AROA205.67	VAW-L04R_ROA05A00	A	RU14	0	2	S	0	2	S																										Roanoke R. PCB TMDL Study US EPA approved 4/9/2010. Fed ID: 38634. SWCB approved 12/9/2010.		
4AROA205.73	VAW-L04R_ROA05A00	TM	RU14	0	12	S	0	12	S	0	12	S	1	12	IM				0	S															No additional data beyond the 2008 IR (E.coli 8/32). VDH Fish Consumption Advisory. Roanoke R. PCB TMDL Study US EPA approved 4/9/2010. [Fed ID: 38634]. SWCB approved 12/9/2010. Roanoke R. Bacteria TMDL US EPA approved 8/02/2006 [Fed ID: 24538]. SWCB a		
4AROA206.27	VAW-L04R_ROA06A00	B, TM	RU14	0	4	S	0	4	S	0	4	S																							2014 DELIST Gen. Std. Benthic. 4 VSCI surveys (2009, 2010 & 2012) (EDAS 4AROA206.95). Avg. VSCI 66.2. VDH Fish Consumption Advisory. Roanoke R. PCB TMDL Study US EPA approved 4/9/2010. Fed ID: 38634. SWCB approved 12/9/2010.		
4AROA206.80	VAW-L04R_ROA06A00	C	RU14																0	S	0	S	1	IM	1	IM										VDH Fish Consumption Advisory (PCB). '06 PCB [Apex E-1] 3 sp.; mercury (Hg) [Apex E-1] 2 sp.; no PEC exceedances. '02 FT PCBs [Apex E-1] 1 sp.; sediment no PEC exceedances.	
4AROA207.08	VAW-L04R_ROA06A00	TM	RU14	0	2	S	0	2	S										1	O															VDH Fish Consumption Advisory (PCB). ROA PCB TM 2008 SPMD (1/2)-'OE'. Roanoke R. PCB TMDL Study US EPA approved 4/9/2010. Fed ID: 38634. SWCB approved 12/9/2010.		
4AROA210.56	VAW-L03R_ROA01A00	FPM, B	RU14	0	4	S	0	4	S	0	2	S	0	1	IN				0	S	0	S	0	S											VAW05547-260 (2009). 2 surveys 2009. Avg. VSCI 61.2.		
4AROA212.17	VAW-L03R_ROA02A00	A, B, TM	RU09	1	6	IM	0	6	S	0	4	S																							2014 DELIST Gen. Std. Benthic. Insufficient Temp data to delist. VDH Fish Consumption Advisory (PCB). ROA PCB TM 2008 SPMD-'S' Two deployments. Roanoke R. PCB TMDL Study US EPA approved 4/9/2010. SWCB approved 12/9/2010. PCB Fed IDs for: L03R- 38624,		
4AROA212.99	VAW-L03R_ROA01A00	A	RU09	0	2	S	0	2	S																												
4AROA215.13	VAW-L03R_ROA03A00	B, TM, SS	RU09	0	6	S	0	6	S	0	6	S	0	2	S				0	S	0	S	0	S											2014 DELIST Gen. Std. Benthic. VDH Fish Consumption Advisory (PCB). 4 VSCI surveys (2009-2010 & 2012). Avg. VSCI 62.9. Roanoke R. PCB TMDL Study US EPA approved 4/9/2010. SWCB approved 12/9/2010. PCB Fed IDs for: L03R- 38624, 38625, 38627, 38629, 38543, 38630.		
4AROA216.33	VAW-L03R_ROA01A00	A, TM	RU09	0	2	S	0	2	S																												
4AROA220.94	VAW-L03R_ROA04A00	TM	RU09																0	S															Bacteria Impairment carries. Bacteria TMDL Approved. VDH Fish Consumption Advisory (PCB). Roanoke R. PCB TMDL Study US EPA approved 4/9/2010. SWCB approved 12/9/2010. PCB Fed IDs for: L03R- 38624, 38625, 38627, 38629, 38543, 38630. No data since '08 IR.		
4AROA224.54	VAW-L03R_ROA06A00	B, TM	RU09	0	4	S	0	4	S	0	4	S							0	S	0	S													PWS. 4 VSCI surveys 2009 & 2010-2012. Avg. VSCI 64.0. VDH Fish Consumption Advisory (PCB). Roanoke R. PCB TMDL Study US EPA approved 4/9/2010. SWCB approved 12/9/2010. PCB Fed IDs for: L03R- 38624, 38625, 38627, 38629, 38543, 38630. No additional E.coli		
4AROA227.42	VAW-L03R_ROA06A00	TM, TR	RU09	0	36	S	0	36	S	0	35	S	6	36	S				0	S															VDH Fish Consumption Advisory (PCB). ROA PCB TM 2008 SPMD-'S'. Roanoke R. PCB TMDL Study US EPA approved 4/9/2010. SWCB approved 12/9/2010. Fed IDs: L04R Roanoke River 24537, 38552, 38632, 38633, 38634, 38635, 38636. Partial Delist BAC (E.coli) 2008. 2		
4AROA-3-SOS	VAW-L03R_ROA01A00	CMON	RU09																															SOS 6 surveys 2008-2011 [3D] Lv. 2. Five surveys Outside Acceptable Season Range- not assessed.			
4AROA-5-SOS	VAW-L03R_ROA04A00	CMON	RU09																															3 surveys 2009 & 2011-2012 Lv.2 [3D]. One survey outside acceptable date range.			
4AROA-6-SOS	VAW-L04R_ROA08A02	CMON	RU14																															SOS 1 survey 2009 [3C] Lv. 2.			
4AROA-SM-BA1-SP	VAW-L07L_ROA02A10	NONA	RU19										0	19	S																			Citizen Smith Mountain Lake Pooled Field data Lv. 3 'FS'. (No additional field data 2012). Temp: 0 / 2,466- 0% exceedance rate- 'FS'. DO: 0 / 125- 0% exceedance rate- 'FS'. pH: 14 / 1,630- 0.8% exceedance rate- 'FS'. DCR Beach station E.coli 'FS'			
4AROA-SM-BA2-SP	VAW-L07L_ROA02A10	NONA	RU19										0	29	S																			Citizen Smith Mountain Lake Pooled Field data Lv. 3 'FS'. (No additional field data 2012). Temp: 0 / 2,466- 0% exceedance rate- 'FS'. DO: 0 / 125- 0% exceedance rate- 'FS'. pH: 14 / 1,630- 0.8% exceedance rate- 'FS'. DCR Beach station E.coli 'FS'			
4AROA-SM-BA3-SP	VAW-L07L_ROA02A10	NONA	RU19										0	19	S																			Citizen Smith Mountain Lake Pooled Field data Lv. 3 'FS'. (No additional field data 2012). Temp: 0 / 2,466- 0% exceedance rate- 'FS'. DO: 0 / 125- 0% exceedance rate- 'FS'. pH: 14 / 1,630- 0.8% exceedance rate- 'FS'. DCR Beach station E.coli 'FS'			
4AROC001.00	VAC-L39R_ROC02A06	TM	RU86										0	0	IM																			2012 - No New Bacteria Data 2006 Roanoke River Basin Bacteria TMDL 2007-2008 Roanoke River PCB TMDL Sampling			

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Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA						WATER COLUMN				SEDIMENT				FISH TISSUE				BENTHIC	NUTRIENTS *						COMMENTS
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals		Other Toxics		BioMon	Total Phosphorous			Chlorophyll a			
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Status	Exceed	Samples	Status	
Roanoke and Yadkin Rivers Basin																																						
4AROC005.35	VAC-L39R_ROC01A98	A,C	RU86	0	12	S	0	12	S	0	12	S	2	12	IM				0	S	0	S	0	S	2	IM	1	O										No New Data Flow below 7Q10 on 6-25-02 & 8-12-02 Reference Gage 02065500 2006 FT/Sediment - Hg 2 Species New Mercury FT Impairment OE - PCB 1 Species
4AROC006.55	VAC-L39R_ROC01A98	FPM,B	RU86	0	1	W	0	1	W	0	1	W	0	1	W				0	W	0	W	0	W	0	W				FS							2006 Probabilistic Monitoring 4AROC006.55 was only Wadeable in the spring of 2006. Further sampling will be improbable due to the overall depth of the stream.	
4AROC006.93	VAC-L39R_ROC01A98	FPM,B	RU86	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S	0	W	0	W				J							2011 Probmon This was sampled using boatable methods and therefore cannot be assessed using the SCL. This site is on private property and was sampled as part of the Probabilistic Monitoring program, therefore it will not be revisited.	
4AROL-1-SOS	VAW-L51R_ROL01A12	CMON	RD20																									LP							SOS 2 surveys '09 & '10 [3D] Lv. 2. One survey Outside Acceptable Season Range.			
4ARSF000.88	VAW-L01R_RSF02A00	CMON	RU05	2	12	IM	0	12	S	0	12	S	2	12	IM														0	12	S							
4ARSF014.02	VAW-L01R_RSF03A00	A	RU03	3	12	IM	0	12	S	0	12	S	2	12	IM														1	12	IN				Extends the temperature and bacteria impairments upstream. No additional data beyond the 2012 IR.			
4ARSF-2-SOS	VAW-L01R_RSF01A00	CMON	RU05																									LP							SOS 9 surveys 2007-2012 [3D] Lv. 2. Six surveys Outside Acceptable Season Range- 1 survey invalid.			
4ARSL003.20	VAW-L43R_RSL01A12	A	RD07	0	12	S	0	12	S	0	12	S	7	12	IM														0	12	S				NESTED Dan River Bacteria TMDL Study is U.S. EPA approved on 12/08/2008. Fed ID 35757. SWCB approved 4/28/2009.			
4ARUN-FR01-UVA	VAW-L51R_RBC03A02	CMON	RD18						1	IN																												
4ARUT000.45	VAC-L60R_RUT01A12	FPM,B	RD39	0	6	S	0	6	S	0	6	S	0	1	W				0	W																	2009 & 2011 & 2014 Bio 4ARUT000.45 is located in an older suburban watershed with abundant impervious surfaces. An historic pollution event at an upgradient industrial facility may be affecting the benthic community as well.	
4ARUT002.04	VAC-L60R_RUT01A12	B	RD39	0	3	S	0	3	S	0	3	S																									2009 & 2014 Bio 4ARUT002.04 is located in an older suburban watershed with abundant impervious surfaces. An historic pollution event at an upgradient industrial facility may be affecting the benthic community as well. Beaver have dammed the stream as well.	
4ARYE-PT09-UVA	VAW-L43R_RYE02A14	CMON	RD06						1	IN																												
4ASBA004.54	VAW-L21R_SBA01A08	A	RU42	0	12	S	0	12	S	0	12	S	6	11	IM														1	12	IN				Goose Creek Fed ID 24552 and its tributaries are nested within the Staunton River TMDL Watershed. No additional data beyond the 2012 IR.			
4ASCB000.16	VAW-L23R_SCB01A00	A	RU49	0	11	S	0	11	S	0	11	S	2	11	IM																							
4ASCB004.58	VAW-L23L_SCB01A02	A,L	RU49	0	74	S	0	39	S	2	22	S	0	7	S					0	S									1	2	IN				Bedford (Stony Creek) Reservoir: Temp 0 / 120 (S); DO 0 / 67 (S); pH 2 / 33 (S); CHLA 0 / 1 (IN). PWS.		
4ASCB005.38	VAW-L23R_SCB04A10	FPM,B	RU49	0	2	S	0	2	S	0	2	S	0	1	IN				0	S	0	S	0	S					FS	0	2	S	0	1	IN	VAW05547-184 4 surveys 2008-2009. Avg. VSCI 72.3. No Sediment PEC exceedances from 2008 data; metals only.		
4ASCB-1-SOS	VAW-L23R_SCB01A00	CMON	RU49																									LP							SOS 1 survey '10 [3D] Lv. 2. Two surveys Outside Acceptable Season Range.			
4ASCB-BE01-UVA	VAW-L23R_SCB04A10	CMON	RU49						1	IN																												
4ASCE000.26	VAC-L19R_SCE01A00	A,TM	RU47	0	13	S	0	13	S	0	13	S	0	12	S					0	S																PWS 2007-2008 Roanoke River PCB TMDL Sampling	
4ASCE007.71	VAC-L19R_SCE01A00	FPM,B	RU47	0	2	S	0	2	S	0	2	S	1	1	IN				0	W	0	S							FS							2011 FPM This stream had high sedimentation but good habitat.		
4ASCR000.64	VAC-L59R_SCR01A02	A	RD37	0	12	S	0	12	S	0	12	S	0	12	S					0	S																	
4ASCR003.33	VAC-L59R_SCR01A02	FPM,B	RD37	0	5	S	0	5	S	0	5	S	0	1	W				0	W	0	S	0	S	0	S				J							2008 Probmon 2011 & 2012 Bio 4ASCR003.33 exhibits significant seasonal variation. Additional data were collected in 2012 and 2014 and seasonal variability continued. Bank scour and sediment are likely stressors within this reach. Additional monitoring is needed to accurately assess this reach.	
4ASCR007.06	VAC-L59R_SCR02A02	A,TM	RD37	0	12	S	0	12	S	0	11	S	4	12	IM					0	S		0	S	0	S												
4ASDA000.67	VAW-L14R_SDA01A00	TM	RU29	0	12	S	0	12	S	0	12	S	5	12	IM					0	S									0	12	S				No additional data beyond the 2008 IR where E.coli exceeds in 7 / 12. Pigg River (Storey Creek) TMDL Study U.S. EPA approved on 9/11/2006 [Fed ID 30412]. SWCB approved 6/27/2007. Pigg River Bacteria Implementation Plan SWCB approved 12/13/2010. Origin		
4ASDA004.19	VAW-L14R_SDA01A00	PA	RU29	0	12	S	0	12	S	0	12	S	5	12	IM														1	12	IN							
4ASDA004.94	VAW-L14R_SDA01A00	FPM	RU29	0	2	S	0	1	IN	0	2	S	1	1	IN/O														0	2	S	0	1	IN				
4ASDA007.24	VAW-L14R_SDA01A00	TM	RU29	0	12	S	0	12	S	0	11	S	8	12	IM					0	S																No additional data beyond the 2010 IR where E.coli exceeds in 10 / 18. Pigg River (Storey Creek) TMDL Study U.S. EPA approved on 9/11/2006 [Fed ID 30412]. SWCB approved 6/27/2007. Pigg River Bacteria Implementation Plan SWCB approved 12/13/2010. Origin	
4ASDA009.77	VAW-L14R_SDA01A00	TM	RU29	0	12	S	0	12	S	0	11	S	3	12	IM					0	S																No additional data beyond the 2010 IR where E.coli exceeds in 3 / 12. Pigg River (Storey Creek) TMDL Study U.S. EPA approved on 9/11/2006 [Fed ID 30412]. SWCB approved 6/27/2007. Pigg River Bacteria Implementation Plan SWCB approved 12/13/2010. Origin	

Appendix 9 – Water Quality Monitoring Stations List

Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA						WATER COLUMN				SEDIMENT				FISH TISSUE				BENTHIC	NUTRIENTS *						COMMENTS							
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals		Other Toxics		BioMon	Total Phosphorous			Chlorophyll a										
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed		Samples	Status					
<i>Roanoke and Yadkin Rivers Basin</i>																																													
4ASDA009.79	VAW-L14R_SDA02A00	TM	RU29	0	12	S	0	12	S	0	11	S	5	11	IM																									No additional data beyond the 2010 IR where E.coli exceeds in 10 / 23. Pigg River (Storey Creek) TMDL Study U.S. EPA approved on 9/11/2006 [Fed ID 30412]. SWCB approved 6/27/2007. Pigg River Bacteria Implementation Plan SWCB approved 12/13/2010. Original					
4ASDE002.18	VAC-L70R_SDE01A12	FPM,B	RD63	0	3	S	0	3	S	0	3	S	0	1	W				0	W	0	S																2012 FPM This site is on private property and was sampled as part of the Probabilistic Monitoring program, therefore it will not be revisited. The stream had relatively unstable banks and increased sediment deposition. There was a large beaver dam just downstream of the reach in fall 2012 in addition to several smaller beaver dams throughout the sampling reach. 4ASDE002.18 will be linked to 4ASDE004.07 for future monitoring.							
4ASDE002.65	VAC-L70R_SDE01A12	FPM,B	RD63	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S	0	W														2010 FPM 4ASDE002.65 has VSCI scores close to the impairment cutoff of 60. Further sampling is required to accurately assess this waterbody, however, this site is on private property and sampled as part of the Probabilistic Monitoring program, therefore it will not be revisited. Link to 4ASDE004.07							
4ASDE004.07	VAC-L70R_SDE01A12	B	RD63	0	2	S	0	2	S	0	2	S																									2014 Bio This reach is linked with the PROBMON station 4ASDE002.65 which will not be revisited due to private property access. Sedimentation is the likely stressor for both reaches.								
4ASEE003.16	VAW-L23R_SEE01A00	A,B,TM	RU49	0	36	S	0	36	S	0	36	S	10	36	IM							0	S										0	36	S				1 VSCI survey 2008-Low flow impacts. Not assessed. Bacteria TMDL Study APPROVED 2/2/01.						
4ASEN000.40	VAC-L31R_SEN01A00	A,B	RU61	0	15	S	0	15	S	0	15	S	0	12	S							0	S	0	S	0	S											Ambient Sediment Sample 2007-2008 Bio 4ASEN000.40 exhibits seasonal variability and is affected by sedimentation. However, the more recent data indicate support of the aquatic life use narrative water quality standard.							
4ASFD-T5-FC	VAW-L10R_SFD01A02	CMON	RU24																												0	6	S				SML TP stream - 'W' No additional data beyond 2012 IR.								
4ASHB-1-SOS	VAW-L51R_SHB01A12	CMON	RD20																																		SOS 2 surveys '09 & '10 [3D] Lv. 2. One survey Outside Acceptable Season Range.								
4ASHR000.24	VAW-L03L_SHR01A06	A,L	RU09	0	244	S	2	127	S	1	14	S	0	7	S							0	S													0	1	IN	Spring Hollow Reservoir pooled data: Temp 0 / 244 (S); DO 2 / 127 (S); pH 1 / 14 (S); CHLa 0 / 1 (IN); No additional data.						
4ASIT001.46	VAW-L02R_SIT02A16	FPM	RU06	0	1	IN	0	1	IN	1	1	IN/O	0	1	IN																			0	1	IN	0	1	IN						
4ASKS002.80	VAC-L64R_SKS01A08	A	RD50	0	11	S	0	11	S	0	11	S	2	11	IM							0	S																						
4ASLA001.52	VAC-L40R_SLA01A06	A,SS	RU87	0	11	S	0	11	S	0	12	S	3	12	IM							0	S																						
4ASLA002.69	VAC-L40R_SLA01A06	SS	RU87																																					2006 - TP = 2/9 OE (2010 No New Data)					
4ASLC002.75	VAC-L62R_SLC01A04	A	RD43	0	22	S	0	22	S	0	24	S	6	24	IM							0	S																						
4ASMI003.58	VAC-L79R_SMI01A08	A	RL16	0	24	S	2	24	S	1	24	S	4	24	IM							0	S																						
4ASMR004.14	VAW-L45R_SMR01A00	A,TM	RD09	0	19	S	0	18	S	0	19	S	4	17	IM							0	S																			No additional data beyond the 2008 IR - E.coli 4 / 17. 2004 Bacteria Listed. 2/16 - 'IM'.			
4ASMR004.17	VAW-L45R_SMR01A00	C	RD09																																					'07 FT mercury (Hg) [Apex E-1] 2 sp.					
4ASMR016.09	VAW-L45R_SMR04A14	A,TM	RD09	0	36	S	0	36	S	0	36	S	6	36	IM							0	S													0	35	S				2010 IR E.coli 15/41 - 'IM'. Dan River Bacteria TMDL Study is U.S. EPA approved on 12/08/2008. Fed ID 35757. SWCB approved 4/28/2009.			
4ASMR027.44	VAW-L43R_SMR02A02	A	RD06	0	12	S	0	12	S	0	12	S	1	11	S							0	S													1	12	IN				No additional data beyond 2010 IR. Dan River Bacteria TMDL Study is U.S. EPA approved on 12/08/2008. Fed ID 35757. SWCB approved 4/28/2009.			
4ASMR031.11	VAW-L43R_SMR03B02	B,A	RD06	0	3	S	0	3	S	0	3	S																															3 surveys 2009-2010. Avg. VSCI 65.3.		
4ASMR033.98	VAW-L43R_SMR04A00	A	RD06	3	12	IM	0	11	S	1	12	S	2	12	IM							0	S																			No additional data beyond the 2010 IR. 2006 Temp De-list returned with 2010 assessment.			
4ASMR-PT08-UVA	VAW-L43R_SMR07A00	CMON	RD06							0	1	IN																																	
4ASNA000.20	VAC-L70R_SNA01A00	A,TM	RD64	0	12	S	0	12	S	0	12	S	2	12	IM							0	S																						
4ASNA002.84	VAC-L70R_SNA01A00	FPM,B	RD64	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S	0	W																				2009 FPM	
4ASNA012.51	VAC-L70R_SNA01A00	TM	RD64	0	12	S	0	12	S	0	11	S	1	12	S							0	S																			No New Data			
4ASNA015.30	VAC-L70R_SNA01B10	A,B	RD63	0	12	S	0	12	S	0	12	S	4	12	IM							0	S																			2008 Bio			
4ASNA019.51	VAC-L70R_SNA01A00	TM	RD63	0	11	S	0	12	S	0	11	S	0	12	S							0	S																			No New Data			
4ASNE005.30	VAC-L69R_SNE01A00	A,TM,B	RD59	0	14	S	0	14	S	0	14	S	1	12	IM							0	S	0	S	0	S														2016 - EC Delist Candidate Banister River Watershed TMDL 2009 Bio				
4ASNE010.46	VAC-L69R_SNE01A00	TM	RD59	0	11	S	0	12	S	0	11	S	2	12	IM							0	S																			Banister River Watershed TMDL			
4ASNF007.64	VAW-L43R_SNF02A04	FPM,B	RD06	0	4	S	0	4	S	0	4	S																																	
4ASNP-PT14-UVA	VAW-L50R_NFS01A00	CMON	RD15							0	1	IN																																	
4ASNW000.60	VAW-L17R_SNW01A00	TM	RU35	0	36	S	0	36	S	0	36	S	9	35	IM							0	S													0	36	S				Pigg R. Bacteria TMDL [Fed ID 30414] EPA Approved 9/11/2006; SWCB Approved 6/27/2007. Bacteria Implementation Plan SWCB approved 12/13/2010.			
4ASNW016.24	VAW-L17R_SNW02A12	A	RU33	0	12	S	0	12	S	0	12	S	6	11	IM																						0	12	S				Pigg R. Bacteria TMDL [Fed ID 30414] EPA Approved 9/11/2006; SWCB Approved 6/27/2007. Bacteria Implementation Plan SWCB approved 12/13/2010. No additional data beyond the 2012 IR.		

Appendix 9 – Water Quality Monitoring Stations List

Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA						WATER COLUMN				SEDIMENT				FISH TISSUE				BENTHIC		NUTRIENTS *						COMMENTS									
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals		Other Toxics		BioMon	Total Phosphorous			Chlorophyll a													
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples		Status								
<i>Roanoke and Yadkin Rivers Basin</i>																																																
4ASO003.12	VAW-L44R_SOO01A00	A, TM	RD08	0	12	S	0	12	S	0	12	S	3	12	IM				0	S																0	12	S				Dan River Bacteria TMDL Study U.S. EPA approved on 12/08/2008. Fed ID 35757. SWCB approved 4/28/2009.						
4ASOT000.99	VAW-L51R_SOT01A08	A	RD17	5	24	IM	0	24	S	0	24	S	3	24	IM				0	S																0	24	S				2008 IR TEMP 3/8- 'IM'						
4ASOT-FR04-UVA	VAW-L51R_SOT01A08	CMON	RD17							0	1	IN																																				
4ASRE006.91	VAW-L54R_SRE01A00	FPM, B	RD30	0	2	S	0	2	S	0	2	S	0	2	S				0	IN	0	IN	0	S													0	2	S	0	2	S				VAR11-024- Boatable site benthic no Index.		
4ASRE007.90	VAW-L54R_SRE01A00	PA, TR	RD30	0	49	S	0	49	S	0	49	S	7	48	IM																					1	48	IN				Dan River Bacteria TMDL U.S. EPA approved 12/08/2008. Fed ID: 35756. SWCB approved 4/28/2009. Bacteria (FC) 2006 Listed 6/48.						
4ASRE015.43	VAW-L54R_SRE03A00	A, B, TM	RD30	0	20	S	0	20	S	0	20	S																														11 surveys (2007-2012). Avg. VSCI 58.6. Smith River Gen. Std. - Benthic Phased TMDL. Phase I U.S. EPA approved 1/13/2011. Fed IDs: 39703, 39705 (delist), 39706 & 39707. Dan River Bacteria TMDL U.S. EPA approved 12/08/2008. Fed ID: 35756. SWCB approved						
4ASRE019.00	VAW-L54R_SRE03A00	A, B, TM	RD26	0	23	S	0	23	S	0	23	S																														11 surveys (2007-2012). Avg. VSCI 54.3.						
4ASRE021.58	VAW-L54R_SRE03A02	A, TM	RD26	0	9	S	0	9	S	0	9	S	4	9	IM				0	IN	0	S																					No additional data beyond the 2008 IR where E.coli exceeds in 4 / 9- 'IM'. Bacteria (FC) 2002 Listed >1000 (4/29); FC 2004 >400 (6/35).					
4ASRE022.30	VAW-L54R_SRE05A00	B, TM	RD26	0	20	S	0	20	S	0	19	S																														11 surveys (2007-2012). Avg. VSCI 57.3. Smith River Gen. Std. - Benthic Phased TMDL. Phase I U.S. EPA approved 1/13/2011. Fed IDs: 39703, 39705 (delist), 39706 & 39707.						
4ASRE022.90	VAW-L54R_SRE06A00	B, TM	RD26	0	23	S	0	23	S	0	22	S																														8 surveys 2009-2012. Avg. VSCI 66.6. Benthic Delist 2012. Smith River Gen. Std. - Benthic Phased TMDL. Phase I U.S. EPA approved 1/13/2011. Fed IDs: 39703, 39705 (delist), 39706 & 39707.						
4ASRE024.30	VAW-L54R_SRE06A00	B, TM	RD26	0	21	S	0	21	S	0	21	S																														9 surveys 2008-2012. Avg. VSCI 64.3. Benthic Delist 2012. Smith River Gen. Std. - Benthic Phased TMDL. Phase I U.S. EPA approved 1/13/2011. Fed IDs: 39703, 39705 (delist), 39706 & 39707.						
4ASRE026.04	VAW-L54R_SRE06A00	B, C, TM	RD26	0	3	S	0	3	S	0	3	S												1	O	1	O	W													'07 FT PCB [Apx E-1] 1 sp.; arsenic (As) [Apx E-2] 1 sp. 2012 Benthic Delist. No benthic collection due to safety concerns.							
4ASRE031.00	VAW-L53R_SRE01B06	B, TM	RD24	1	21	S	0	21	S	1	21	S																														9 surveys 2008-2012. Avg. VSCI 59.2. Returns to Listing 2014. 2012 Benthic Delist.						
4ASRE032.38	VAW-L53R_SRE01B06	FPM, B	RD24	0	2	S	0	2	S	0	2	S	0	1	IN				0	S	0	S	0	S																			VAW05547-331- 2 VSCI surveys 2010. Avg. VSCI 59.7.					
4ASRE033.19	VAW-L53R_SRE01B06	A, B, TM, TR	RD24	1	60	IM	0	60	S	0	60	S	8	36	IM				0	S	0	S																					Temp 'IM' for 8/4/14 thru 9/2/14 continuous temp monitoring. Device recorded temperature every 30 minutes for 30 days. 2016 IR reveals 20% of the days exceeded the max daily temp at least 10.5% of the day for the Class VI Natural Trout criterion of 20°C.					
4ASRE036.55	VAW-L53R_SRE04A00	A	RD22	0	12	S	0	12	S	0	12	S	1	12	IM																														No additional data beyond the 2008 IR where E.coli exceed 3 / 21- 'IM'. Dan River Bacteria TMDL U.S. EPA approved 12/08/2008. Fed ID: 35756. SWCB approved 4/28/2009. There are no additional data beyond the 2008 assessment. Returned to impaired waters status			
4ASRE043.54	VAW-L52R_SRE03A00	A, TR	RD22	0	39	S	0	39	S	0	39	S	0	36	S																								0	36	S				Trend Analysis.			
4ASRE046.90	VAW-L51L_SRE01A02	A, C, L	RD22	0	636	S	0	336	S	1	42	S	0	21	S									1	O	0	S	1	IM	0	S							0	2	S				The assessment is carried from the 2014 IR. Philpott 2014/2016 Pooled Data: Temp 0 / 2,857 (S); DO 3 / 1,323 (S); pH 4 / 277 (S); CHLa 0/2 (S); 90th %tile 2011 2.95 µg/L; 2012 90th %tile 2.02 µg/L. 4ASRE046.90- 2007 FT mercury (Hg) >0.3 ppm [Apx E-1]				
4ASRE048.98	VAW-L51L_SRE01A02	A, L	RD20	0	640	S	0	298	S	1	41	S	0	21	S																								0	2	S				Philpott 2014/2016 Pooled Data: Temp 0 / 2,857 (S); DO 3 / 1,323 (S); pH 4 / 277 (S); CHLa 0/2 (S); 90th %tile 2011 2.95 µg/L; 2012 90th %tile 2.02 µg/L.			
4ASRE052.31	VAW-L51L_SRE02A02	A, L	RD19	0	649	S	2	286	S	1	42	S	0	21	S																														Philpott Reservoir Pooled Data: Temp 0 / 2,857 (S); DO 3 / 1,303 (S); pH 4 / 277 (S); CHLa 0/2 (S). 2007 FT exceeds the QWS based TV for mercury (Hg) 1 sp.; 3 individual Largemouth Bass (41.8 cm) @ 0.59; (40.9 cm) @ 0.563 and (33.2 cm) @ 0.374 ppm.			
4ASRE056.06	VAW-L51L_SRE03A02	A, L	RD19	0	357	S	1	226	S	1	54	S	0	32	S																														Philpott Reservoir Pooled Data: Temp 0 / 2,857 (S); DO 3 / 1,303 (S); pH 4 / 277 (S); CHLa 0/2 (S). 2007 FT exceeds the QWS based TV for mercury (Hg) 1 sp.; 3 individual Largemouth Bass (41.8 cm) @ 0.59; (40.9 cm) @ 0.563 and (33.2 cm) @ 0.374 ppm.			
4ASRE063.69	VAW-L51R_SRE06A00	FPM, B, PA	RD17	2	15	IN	0	15	S	0	15	IN	1	14	S				0	IN	0	IN															0	15	S	0	2	S				VAR11-008- 1 survey 2012. VSCI 79.7. No sediment collection.		
4ASRE075.69	VAW-L50R_SRE01A00	A, TR	RD15	9	36	IM	0	36	S	1	36	S	8	36	IM																														Dan River Bacteria TMDL U.S. EPA approved 12/08/2008 Fed ID: 35748. SWCB approved 4/28/2009.			
4ASRE-3-SOS	VAW-L51R_SRE07A00	CMON	RD17																																										SOS 11 surveys 2007-2012 [3D] Lv. 2. Four surveys Outside Acceptable Season Range.			
4ASRN005.14	VAC-L39L_SRN01L00	L	RU81	0	59	S	0	37	S	0	59	S	1	21	S									0	S	0	S	0	S										0	3	S	0	3	S				Algaecide Use 2008-2010 Keysville Reservoir
4ASRV000.20	VAC-L58R_SRV01A00	A, SS, TM	RD36	0	12	S	0	12	S	0	12	S	2	12	IM																														Dan River Watershed TMDL			
4ASRV007.46	VAC-L58R_SRV02A04	A	RD36	0	12	S	0	12	S	0	11	S	0	12	S																														No New Data			
4ASRV010.68	VAC-L58R_SRV02A04	A	RD36	0	12	S	0	12	S	0	12	S	1	12	S																																	
4ASRV012.19	VAC-L58R_SRV02A04	FPM	RD36																																										2001 Probabilistic Monitoring			
4ASRV015.06	VAC-L58R_SRV03A06	B	RD36	0	2	S	0	2	S	0	2	S																																	2012 Bio Habitat and taxa scores indicate a balanced community.			
4ASRV018.79	VAC-L58R_SRV03A06	TM	RD35	0	11	S	0	11	S	0	11	S	1	12	S																																	

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Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA						WATER COLUMN				SEDIMENT				FISH TISSUE				BENTHIC	NUTRIENTS *						COMMENTS								
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals	Other Toxics	BioMon	Total Phosphorous			Chlorophyll a													
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Status	Exceed	Samples	Status	Exceed	Samples	Status									
Roanoke and Yadkin Rivers Basin																																														
4ASRV022.99	VAC-L58R_SRV04A06	A,B	RD35	0	12	S	0	12	S	0	14	S	1	12	IM																			FS							2014 - No New Data 2009 Bio This site was sampled as a potential reference station based on water quality data and instream habitat.					
4ASRV025.40	VAC-L58R_SRV04A06	A	RD35	0	12	S	0	12	S	0	12	S	6	12	IM																															
4ASRW002.32	VAC-L65R_SRW02A08	TM,B	RD52	0	2	S	0	2	S	0	2	S																									IM							2011 Bio Habitat scores and taxa lists indicate sedimentation as a stressor causing an unbalanced community.		
4ASSC002.98	VAC-L30R_SSC01A02	TM	RU62	0	11	S	0	11	S	0	11	S	6	12	IM																															No New Data 2006 Roanoke Basin TMDL
4ASSC012.62	VAC-L30R_SSC02A12	FPM,B	RU62	0	1	W	0	1	W	0	1	W	0	1	W				0	W	0	W	0	W							J							2009 FPM - No Fall Sample 4ASSC012.62 is a probmon site on private property. High beaver activity has turned this reach of stream into a slow moving swamp. The VSCI is not tuned to assessing swamp waters. The single sample with such a low VSCI score warrants further study at a suitably accessible site within the watershed, without beaver activity.								
4ASSP000.64	VAC-L58R_SSP01A06	FPM,B	RD34	0	2	S	0	2	S	0	2	S	1	1	IN				0	W	0	S										J							2012 FPM Additional data needed to accurately characterize the benthic community; however this site is on private property and was sampled as part of the Probabilistic Monitoring program, therefore it will not be revisited.							
4ASSP002.44	VAC-L58R_SSP01A06	A,B	RD34	0	13	S	0	13	S	0	14	S	0	12	S																			FS							2014 Bio 4ASSP002.44 is linked with 4ASSP000.64 a 2012 PROBMON station assessed J. Sedimentation is a limiting stressor within the reach but the community seems balanced.					
4ASSP004.06	VAC-L58R_SSP01A06	FPM,B	RD34	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S	0	W							FS							2009 FPM 4ASSP004.06 exhibits seasonal variability around the impairment threshold of 60 but scores well in the fall. Bank scour and sedimentation seem to be probable stressors within the reach. This reach is on private property and was sampled as part of the Probabilistic Monitoring program and therefore will not be revisited. Link with 4ASSP002.44 sampled in 2014 and assessed as FS								
4ASUC001.31	VAC-L34R_SUC01A06	A,B	RU69	0	13	S	0	13	S	0	13	S	4	12	IM																FS							2009 Bio								
4ASUT000.89	VAC-L58R_SUT01A08	A,B	RD36	0	12	S	0	12	S	0	12	S	3	10	IM																FS							2010 Bio								
4ASWA002.97	VAC-L58R_SWA01A08	TM	RD36	0	11	S	0	11	S	0	11	S	3	12	IM																												No New Data			
4ASWC-1-SOS	VAW-L07R_SWC01A02	CMON	RU18																												LP							SOS 4 surveys 2010-2011 [3D] Lv. 2.								
4ASWC-T13-FC	VAW-L07R_SWC01A02	CMON	RU18																															0	17	S				SML TP stream - 'W' No additional data beyond 2012 IR.						
4ASYC002.02	VAW-L50R_SYC01A12	A	RD16	0	12	S	0	12	S	0	12	S	2	12	IM																			0	12	S				No additional data beyond the 2012 IR.						
4ATCC003.71	VAW-L17R_TCC01A06	TM	RU34	0	12	S	0	12	S	0	12	S	2	12	IM																			0	12	S				Originally Listed 2008. No additional data beyond the 2012 IR.						
4ATEL001.02	VAW-L08R_TEL01A00	A,B,TR	RU22	0	40	S	0	40	S	0	40	S	15	36	IM																IM	1	35	IN				4 surveys 2010-2011. Avg. VSCI 58.3. Bacteria TMDL Study APPROVED 12/04/2001. Stream Flow								
4ATIP002.55	VAC-L36R_TIP01A00	A,TM,B	RU74	0	17	S	0	17	S	0	17	S	4	12	IM																FS							2006 Roanoke River Bacteria TMDL 2008/2011/2012/2014 Bio Additional data collected in 2012 and 2014 continue the trend of seasonal variability. Spring VSCI scores are below the assessment threshold of 60 and fall scores are well above. Riparian vegetation is nearly optimal while bank scour and sediment scores are suboptimal. Sediment deposition is a probable stressor within this reach. Snag habitat is a limiting factor in the VSCI score for this reach. 4ATIP002.55, while seasonally variable, is very stable year to year.								
4ATIP008.76	VAC-L36R_TIP02A06	TM	RU74	0	11	S	0	11	S	0	11	S	6	12	IM																									No New Data 2006 Roanoke Basin TMDL						
4ATIP013.21	VAC-L36R_TIP02A06	TM	RU74	0	11	S	0	11	S	0	11	S	4	12	IM																									No New Data 2006 Roanoke Basin TMDL						
4A-TIP-CHA12-SSWCD	VAC-L36R_TIP02A06	CMON	RU74	0	10	S							7	37	IN/O																									Southside SWCD Station - Level II Coliscan Category 3C						
4A-TIP-CHA13-SSWCD	VAC-L36R_TIP01A00	CMON	RU74	0	10	S							8	33	IN/O																									Southside SWCD Station - Level II Coliscan Category 3C						
4A-TIP-CHA14-SSWCD	VAC-L36R_TIP02A06	CMON	RU74	0	10	S							9	37	IN/O																									Southside SWCD Station - Level II Coliscan Category 3C						
4ATKR000.17	VAW-L05R_TKR01A00	C	RU13																			0	S	12	O	0	S	1	IM													VDH Fish Consumption Advisory (PCB). '06 FT PCB Apx [E-1] 3 sp.; lead (Pb) detected 3 sp.; sediment exceeds PEC SV (22,800 ppb) Total PAH @967,921 ppb; NAP (561) @2,065; Fluorene (536) @9,967; PHH (1170) @245,951; ATH(845) @27,045; FTH (2230) @198,509; Py				
4ATKR000.69	VAW-L05R_TKR01A00	A,B,TR	RU13	4	36	IM	0	35	S	0	35	S	13	35	IM							0	S	0	S				IM	0	36							1 VSCI survey 2008. VSCI 50.9. Tinker Creek Bacteria TMDL Study US EPA approved 8/05/2004. Fed IDs: 7787 (FC), 21671 & 21672. SWCB approved 12/02/2004. Originally 303(d) Listed in 1998 for FC. 2006 Trend Analysis.								

Appendix 9 – Water Quality Monitoring Stations List

Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA						WATER COLUMN				SEDIMENT				FISH TISSUE				BENTHIC	NUTRIENTS *						COMMENTS
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals	Other Toxics	BioMon	Total Phosphorous			Chlorophyll a					
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Status	Exceed	Samples	Status	Exceed	Samples	Status	
Roanoke and Yadkin Rivers Basin																																						
4AWEL000.59	VAW-L26R_WEL01A02	FPM,B	RU53	0	2	S	0	2	S	0	2	S	1	1	IN				0	S	0	S	0	S	0	S				IM							VAEQ99-586 (2005). No Sediment PEC exceedances from 2005 data.	
4AWEL001.14	VAW-L26R_WEL01A02	A,B,TM	RU53	0	16	S	0	16	S	0	16	S	11	12	IM				0	S								IM							4 surveys 2011-2012. Avg. VSCI 50.2.			
4AWFC002.12	VAC-L39R_WFC01A00	A,TR	RU83	0	35	S	0	35	S	0	36	S	10	36	IM				0	S																		
4AWFE000.60	VAC-L62R_WFE01A08	B	RD44	0	1	W	0	1	W	0	1	W															J							2012 Bio This stream had marginal bank stability and increased sedimentation as well as marginal habitat.				
4AWFE001.57	VAC-L62R_WFE01A08	FPM,B	RD44	0	1	W	0	1	W	0	1	W	0	1	W				0	W	0	W	0	W	0	W				IM							2007 Probabilistic Monitoring 4AWFE001.57 has VSCI scores very close to the impairment cutoff score of 60. Further sampling is required to accurately assess the waterbody. This station was a former PROBMON site on private property. Downstream access to resample is limited but should be pursued.	
4AWID-PT02-UVA	VAW-L51R_WID01A02	CMON	RD17				0	1	IN																													
4AWLF000.09	VAW-L21R_WLF01A08	A	RU41	0	9	S	0	9	S	0	9	S	3	9	IM				0	S															No additional data beyond the 2008 IR. Goose Creek Fed ID 24552 and its tributaries are nested within the Staunton River TMDL Watershed.			
4AWLF001.20	VAW-L21R_WLF01A08	FPM,B	RU41	0	2	S	0	2	S	0	2	S	1	1	IN				0	IN	0	S	0	S				IM							VAW05547-296- 2 surveys 2010. Avg. VSCI 51.4.			
4AWLN000.40	VAW-L02R_WLN01A00	TM	RU07	0	3	S	0	2	S	0	3	S	1	3	IM				0	S															No additional data beyond the 2008 IR (E.coli 13 of 27)- 'IM'.			
4AWMB001.07	VAC-L39R_WMB01A08	A	RU83	0	12	S	0	12	S	0	12	S	7	12	IM				0	S																		
4AWNN000.10	VAC-L71R_WNN01A06	FPM,B	RD67	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S	0	W				FS							2010 FPM			
4AWNN000.99	VAC-L71R_WNN01A06	A	RD67										1	3	IM																							
4AWNS004.02	VAC-L62R_WNS01A04	A	RD45	0	12	S	0	12	S	0	12	S	2	12	IM																			2016 - New EC Impairment				
4AWOA002.43	VAC-L65R_WOA01A10	A	RD54	0	12	S	0	12	S	0	11	S	6	12	IM				0	S															No New Data			
4AWPP002.53	VAC-L30R_WPP01A02	TM,A,B	RU64	0	16	S	0	16	S	0	17	S	3	12	IM												J							2006 Roanoke Basin TMDL 2008/2011/2012 Bio 4AWPP002.53 exhibits drastic seasonal variation. The habitat is somewhat lacking, but there was plenty of large woody debris present. The spring scores are dominated by tolerant Chironomidae taxa. Sediment is a probable stressor; however, the community has the potential to be quite diverse. Monitoring will continue in 2017.				
4AWRN000.43	VAC-L68R_WRN01A00	A,TM,B	RD57	0	16	S	0	16	S	0	16	S	5	11	IM				0	S								FS							2009/2013 Bio 4AWRN000.43 exhibits significant seasonal variation and VSCI scores close to the impairment cutoff. Additional sampling should improve the accuracy of the assessment.			
4AWRN005.50	VAC-L68R_WRN02A06	A,B	RD56	0	16	S	0	16	S	0	16	S	6	12	IM												IM							2009/2013 Bio 4AWRN005.50 exhibited significant seasonal variation. Additional data were collected to accurately characterize the stream community. 2013 data are dominated by tolerant Chironomidae taxa and may indicate sediment as a probable stressor.				
4AWTH000.40	VAW-L12L_WTH01A10	A,L	RU27	0	1111	S	19	726	S	1	78	S	0	40	S																			Smith Mtn. Lake 2016 Pooled Data: Temp 2 / 15,851 (S); DO 196 / 8940 (S); pH 27 / 1,233 (S); TP 0 / 2 (S); CHLa 0 / 2 (S). PWS. NEW-1. VDH Fish Consumption Advisory issued PCBs 7/27/2005. No VDH Drinking Water Advisory.				
4AXCN000.31	VAC-L19R_XCN01A02	B	RU48	0	4	S	0	4	S	0	4	S															IM							2012/2014 Bio 4AXCN000.31 appears to be negatively affected by high nutrient levels and suburban storm flows. Recent data indicate a slight improvement from the 2008 data but nutrients and sedimentation are still primary stressors.				
4AXDK000.94	VAC-L63R_XDK01A06	TM	RD47										4	11	IM																			2014 - No New Data				
4AXKD003.34	VAW-L07L_XKD01A02	A,L	RU17	0	91	S	0	45	S	5	26	IM	0	7	S				0	S								0	1	IN				No additional data beyond the 2012 IR. Beaverdam Creek Res.: Temp 0 / 150 (S); DO 0 / 69 (S); pH 0 / 26 (S.B); CHLa 0 / 1 (IN). This lake has been submitted for removal from the WQS section 187 Lakes List.				
4AXKF000.20	VAW-L08R_XKF01A06	TM	RU22										3	3	IM																			No additional data beyond the 2008 IR where E.coli exceeds 5 / 5- 'IM'. Middle Blackwater River Bacteria TMDL Study U.S. EPA approved 12/04/2001. SWCB approved 6/17/2004. [Fed. ID 1887 / 1889 / 9633]. Bacteria Implementation Plan SWCB approved 6/17/2004.				
4AXLN000.00	VAC-L19R_XLN01A02	TM	RU48	0	2	S	0	2	S	0	2	S							1	O														2007-2008 Roanoke River PCB TMDL Sampling PCB Violation - 1,489,098 pg/L				
4AXLN000.25	VAC-L19R_XLN01A02	SS	RU48																															2000 PCB Altavista/Hurt Soil & Sediment SS				
4AXMA000.85	VAC-L28R_XMA01A02	TM	RU57																															PWS; TMDL Surface Observation; Big Otter FC TMDL Approved 2006 FC bacteria: 1/1 = IN				
4AXMC000.54	VAC-L40R_XMC01A06	SS	RU87	0	6	S	0	6	S	0	6	S	2	5	IM				0	S														PRO Hog Farm Special Study & Follow-up				
4A-XMC-CHA03-SSWCD	VAC-L40R_XMC01A06	CMON	RU87	0	10	S							4	37	IN/O																			Southside SWCD Station - Level II Coliscan Category 3C				
4AXMP000.44	VAW-L53R_XMP01A06	TM,B	RD24	0	15	S	0	15	S	0	15	S	5	11	IM												J	0	12	S				Four surveys with average VSCI score of 52.3 (2013-2014).				
4AXMP001.26	VAW-L53R_XMP01A06	TM,B	RD24	0	1	IN	0	1	IN	0	1	IN							0	IN	0	S	0	S				IM							1 VSCI survey (Fall 2006).			
4AXMV000.63	VAW-L01R_XMV01A10	FPM,B	RU04	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN	0	S	0	S				IM							VAW05547-095- 2 surveys 2007. Avg. 54.6. VSCI 2007 sediment metals only.			

Appendix 9 – Water Quality Monitoring Stations List

Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA			WATER COLUMN				SEDIMENT		FISH TISSUE		BENTHIC	NUTRIENTS *						COMMENTS										
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals	Other Toxics	BioMon	Total Phosphorous			Chlorophyll a								
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status		Status	Exceed	Samples	Status	Exceed	Samples	Status			
Roanoke and Yadkin Rivers Basin																																									
4AXMY000.22	VAW-L17R_XMY01A08	B,FPM	RU34	0	2	S	0	2	S	0	2	S																			FS	0	2	S				Two 2012 VSCI surveys with an average score of 61.8.			
4AXNA001.18	VAW-L07R_XNA02A12	FPM,B	RU16	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN	0	S	0	S							FS	0	2	S	0	1	IN	VAW05547-328- 2 surveys 2010. Avg. VSCI 61.6.			
4AXNC000.10	VAW-L20R_XNC01A12	FPM,B	RU39	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN	0	S	0	S							FS	0	2	S	0	1	IN	VAW05547-232- 2 surveys 2009. Avg. VSCI 72.1.			
4AXNE000.48	VAW-L25R_XNE01A12	FPM,B	RU51	0	1	IN	0	1	IN	0	1	IN	0	1	IN				0	IN	0	S	0	S							W	0	2	S	0	1	IN	VAW05547-248 (2009). Not assessed - headwater VSCI not applicable.			
4AXNK-T14-FC	VAW-L07R_XNK01A10	CMON	RU19																												2	28	IN				SML TP stream - 'W' No additional data beyond 2012 IR.				
4AXNU-SCR08-FC	VAW-L07L_ROA01A10	CMON	RU19																																		Secchi depth only.				
4AXNV-SCR07-FC	VAW-L07L_ROA01A10	CMON	RU19																																		Secchi disk only.				
4AXNX-T8-FC	VAW-L10R_XNX01A10	CMON	RU26																												0	13	S				SML TP stream - 'W' No additional data beyond 2012 IR.				
4AXNY-T7-FC	VAW-L10R_XNY01A10	CMON	RU26																												0	16	S				SML TP stream - 'W' No additional data beyond 2012 IR.				
4AXOC-1-SOS	VAW-L07R_XOC02A10	CMON	RU19																									LP										SOS 9 surveys '07, '09 & '10 [3D] Lv. 2. One survey Outside Acceptable Season Range.			
4AXOD000.38	VAW-L26R_XOD01A14	FPM,B	RU54	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN	0	S	0	S							FS	0	2	S	0	1	IN	VAR11-243- 2 surveys 2011. Avg. VSCI 65.1. No sediment excursions of PEC SVs- metals only.			
4AXOE001.26	VAW-L42R_XOE01A14	FPM,B	RD03	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN	0	S										FS	0	2	S	0	1	IN	VAR11-101- 2 surveys 2012. Avg. VSCI 79.6. No sediment collection.		
4AXOE-PT05-UVA	VAW-L42R_XOE01A14	CMON	RD03							0	1	IN																													
4AXOF001.26	VAW-L17R_XOF02A14	FPM,B	RU34	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN	0	S										FS	0	2	S	0	1	IN	VAR11-110- 2 surveys 2012. Avg. VSCI 74.1. No sediment collection.		
4AXOH000.06	VAW-L20R_XOH01A16	PA	RU39	0	13	S	0	13	S	0	13	S	0	10	S				0	IN	0	S										0	11	S	0	1	IN				
4AXOI000.04	VAW-L20R_XOI01A16	FPM	RU39	0	2	S	0	2	S	0	2	S	0	2	S																			0	2	S					
4AXOL000.94	VAW-L20R_XOL01A14	FPM,B	RU39	0	4	S	0	4	S	0	4	S	0	2	S				0	IN	0	S										J	0	4	S	0	2	S	VAR11-004- 2 surveys 2012. Avg. VSCI 50.0. No sediment collection.		
4AXOM-1-SOS	VAW-L07R_XOM01A12	CMON	RU18																												HP							SOS 10 surveys 2009-2012 [3C] Lv. 2. Five surveys Outside Acceptable Season Range.			
4AXON-1-USPS	VAW-L11R_XON01A12	USPS	RU25	0	27	S	0	25	S	0	26	S																												Lv. 3	
4AXOO-5-USPS	VAW-L11R_XOO01A12	USPS	RU25	0	26	S	0	24	S	0	26	S																												Lv. 3	
4AXOQ-FL04-UVA	VAW-L01R_LKF01A02	CMON	RU01							0	1	IN																													
4AXOR-PT06-UVA	VAW-L42R_LDR20A02	CMON	RD03							0	1	IN																													
4AXSP001.93	VAW-L44R_XSP02A14	FPM,B	RD08	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN	0	S	0	S							FS	0	2	S	0	1	IN	VAR11-040- 2 surveys 2011. Avg. VSCI 72.0.			
4AXUO000.49	VAW-L07R_XUO01A06	FPM,B	RU19	0	2	S	0	2	S	0	1	S	0	1	IN						0	S	0	S	0	S							IM							VAEQ99-456- 2 surveys 2008. Avg. VSCI 47.9.	
4AXUP000.06	VAC-L31R_XUP01A06	FPM,B	RU61																0	W										IM							2011/2013 Bio Sediment and nutrients are primary stressors to this reach. VSCI scores exhibit seasonal variability over several years.				
4AXUQ000.00	VAC-L78R_XUQ01A04	SS	RL11																		2	O										5	6	IN/O				Formerly ST AB No New Data! 2006 FC bacteria: 2/4 = IM			
4AXUS000.65	VAC-L70R_XUS01A08	FPM,B	RD64	0	1	W	0	1	W				0	1	W				0	W	0	W	0	W	0	W				FS							2005 Probabilistic Monitoring Stable riffles, some evidence of storm flow-related bank failure.				
4AXUZ000.03	VAC-L65R_XUZ01A10	FPM,B	RD54	0	1	W	0	1	W	0	1	W	0	1	W				0	W	0	S	0	S	0	S				J							2007 Probmon 4AXUZ000.03 is a small un-named tributary to the Banister River which was sampled as a probabilistic site in the spring of 2007. Access to the site is limited by private landowners and additional sampling will be difficult. The stream was not flowing during the fall 2007 sampling event.				
4AXVK001.44	VAC-L34R_XVK01A12	FPM,B	RU70	0	3	S	0	3	S	0	3	S	1	2	IN				0	S	0	S	0	S							IM							2009-2010 FPM 4AXVK001.44 is a very small intermittent stream within the PROBMON program. Sampling in the fall of 2010 was halted due to lack of flow. The site is within an agricultural watershed and cattle do have direct access to the stream. Access to the site is limited by private landowners and additional sampling will be difficult. The intermittent nature of the stream makes it non-target for the VSCI			
4AXVL000.82	VAC-L75R_XVL01A12	FPM,B	RL03	0	1	W	0	1	W	0	1	W	0	1	W				0	W	0	W	0	W							J							2009 FPM 4AXVL000.82 is a small stream within the PROBMON program. The fall sample was halted due to a lack of flow. Access to the site is limited by private landowners and additional sampling will be difficult. The intermittent nature of the stream makes it non-target for the VSCI			
4AXVN001.55	VAC-L41R_XVN01A12	FPM,B	RU88	0	2	S	0	2	S	0	2	S	0	1	W				0	W	0	S	0	W							J							2010 Bio 4AXVN001.55 exhibits significant seasonal variation. Additional data is needed to accurately characterize the status of the stream community. This site is on private property and was sampled as part of the Probabilistic Monitoring program; therefore, it will not be revisited.			
4AXVO000.50	VAC-L39R_XVO01A14	FPM,B	RU81	0	2	S	0	2	S	0	2	S	1	1	IN				0	W	0	S										IM							2012 FPM 4AXVO000.50 is a small stream within the PROBMON program. This stream was incised and a likely stressor is sedimentation. The habitat was marginal and the banks were unstable. Access to the site is limited by private landowners and additional sampling will not be possible.		
4AXVP000.20	VAC-L61R_XVP01A16	FPM,B	RD38	0	2	S	0	2	S	0	2	S	0	1	W																FS										2013 FPM
4AXVQ000.77	VAC-L62R_XVQ01A16	FPM,B	RD43	0	2	S	0	2	S	0	2	S	1	1	IN				0	W										IM										2013 FPM 4AXVQ000.77 is a small stream within the PROBMON program. Access to the site is limited by private landowners and additional sampling will not be possible.	

Appendix 9 – Water Quality Monitoring Stations List

Station ID	Assessment Unit ID	Station Type(s)	VAHU6	CONVENTIONAL WATER COLUMN DATA									BACTERIA						WATER COLUMN				SEDIMENT				FISH TISSUE				BENTHIC	NUTRIENTS *						COMMENTS							
				Temperature			Dissolved Oxygen			pH			E. coli			Enterococci			Metals		Other Toxics		Metals		Other Toxics		Metals		Other Toxics		BioMon	Total Phosphorous			Chlorophyll a										
				Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Exceed	Samples	Status	Status	Exceed	Samples	Status		Exceed	Samples	Status				
<i>Roanoke and Yadkin Rivers Basin</i>																																													
4AXVQ000.97	VAC-L62R_XVQ01A16	PA	RD43	0	12	S	0	12	S	0	12	S	4	12	IM																									2016 - New bacteria impairment					
4AXVR-1-SOS	VAW-L05R_XVR01A14	CMON	RU13																																		LP				SOS 2 surveys '11 [3D] 'v. 2. Two surveys Outside Acceptable Season Range.				
4AXVR-2-RVTU	VAW-L05R_XVR01A14	CMON	RU13	0	3	S							0	3	IN																										RVTU Temp Lv.3 / Ecoli [3D] Lv. 2.				
4AXVS-1-SOS	VAW-L04R_XVS01A14	CMON	RU14																																						SOS 2 surveys 2011-2012 [3D] Lv. 2.				
4AXVT-1-SOS	VAW-L14R_XVT01A14	CMON	RU29																																						1 survey 2012 [3D] Lv. 2.				
4AXVU-1-SOS	VAW-L14R_XVU01A14	CMON	RU30																																						1 survey 2012 [3D] Lv. 2. One survey Outside Acceptable Date Range.				
4AXVV000.54	VAC-L41R_XVV01A16	FPM,B	RU88	0	2	S	0	2	S	0	2	S	1	1	IN				0	W																					J				2014 FPM 4AXVV000.54 is a small stream within the PROBMON program. Access to the site is limited by private landowners and additional sampling will not be possible.
4BARA035.07	VAW-M03R_ARA01A00	C	YA03																									1	IM							0	S				PWS: '07 FT mercury (Hg) [Apx E-1] 3 sp.				
4BARA035.13	VAW-M03R_ARA01A00	A	YA03	0	9	S	0	9	S	0	9	S	3	9	IM							0	S																					No additional data beyond the 2008 IR where E.coli 3/9-'IM'.	
4BBIR002.57	VAW-M03R_BIR01A14	FPM,B	YA03	0	2	S	0	2	S	0	2	S	0	1	IN				0	IN		0	S																		FS				VAR511-239- 2 surveys 2011. Avg. VSCI 76.3.
4BELK000.96	VAS-M02R_ELK01A02	FPM,PA,B	YA05	0	2	S	0	2	S	0	2	S	0	1	IN																						0	2	S				@ Rt 823 crossing, Class VI, PWS VSCI: 08/29/2011 70.16 05/12/2011 78.23 PWS is supported		
4BJOH004.45	VAW-M03R_JOH01A02	A	YA04	2	12	IM	0	12	S	0	12	S	2	12	IM																			0	12	S								PWS. Temp initially Listed 2008 2/9-'IM'.	
4BLOV007.92	VAS-M02R_LOV01A02	A,C	YA05	3	12	IM	0	12	S	0	12	S	7	12	IM													0	S							2	IM								Bridge. # 6089 on SR 687 off SR 686, Class V Carryover: Fish station sampled 12 June 2007, metals, PCB and pesticide analysis. DDT and DDE exceed TV in a redbone sucker. No TSV for metals in fish are exceeded.
4BLOV008.45	VAS-M02L_LOV01B10	C	YA05																									11	IM							6	IM								Carryover from 2014 IR: Lovills Creek Lake-Class VI Fish station sampled on 08 Aug 2007; metals, PCB and pesticide analysis: six largemouth bass exceeded the VDH level of concern for mercury. In addition, DDD, DDE and DDT exceeded Department of Environmental Quality screening values in carp. VDH recommends no more than two meals per month of largemouth bass due to mercury contamination.
4BPAU007.19	VAS-M02R_PAU01A02	A	YA07	0	12	S	0	12	S	0	12	S	1	12	S																			0	12	S								Bra. # 6091 on SR 690 off SR 52, Class V	
4BSTE007.99	VAS-M02R_STE01A02	A	YA06	4	12	IM	0	12	S	0	12	S	0	12	S																			0	12	S								Bra. no # guard rail on NC SR # 1602 Class V	
CA01-UVA	VAS-M01R_LFR01A16	NONA	YA02										1	IN																														Little Fisher Creek headwaters, tributary to Little Fisher River (NC) from Rich Mtn. Level III Chloride Level II pH 0/1 3D	
CA02-UVA	VAS-M02R_STW01A02	NONA	YA06										1	IN																														Level III Chloride Level II pH 0/1	
LVLAWC000.58	VAC-L13L_OWC01A02	CMON	RU38	0	31	S	0	11	S	0	28	S	0	63	IN																													Leesville Lake Association #5	
LVLAROA140.66	VAC-L13L_ROA01A02	CMON	RU38	0	405	S	10	226	IM	11	405	S	0	32	IN																						1	2	IN				Leesville Lake Association #11		
LVLAROA140.93	VAC-L13L_ROA01A02	CMON	RU38	0	1	W	0	1	W	0	1	W	0	8	IN																													Leesville Lake Association #10	
LVLAROA141.42	VAC-L13L_ROA01A02	CMON	RU38	0	186	S	7	85	IM	1	145	S	0	41	IN																													Leesville Lake Association #7	
LVLAROA142.50	VAC-L13L_ROA01A02	CMON	RU38	0	30	S	0	12	S	0	27	S	0	41	IN																													Leesville Lake Association #6	
LVLAROA143.84	VAC-L13L_ROA01A02	CMON	RU38	0	30	S	0	12	S	0	27	S	0	13	IN																													Leesville Lake Association #4	
LVLAROA146.87	VAC-L13L_ROA01A02	CMON	RU38	0	412	S	7	276	S	4	473	S	0	5	IN																													Leesville Lake Association #8	
LVLAROA149.94	VAC-L13L_ROA01A02	CMON	RU38	0	44	S	0	20	S	0	41	S	1	61	IN																													Leesville Lake Association #2	
LVLAROA153.47	VAC-L13L_ROA01A02	CMON	RU38	0	310	S	0	270	S	0	282	S	5	64	IN																						0	2	IN				Leesville Lake Association #1		
LVLAROA157.92	VAC-L13L_ROA03A02	CMON	RU28	0	8	S	0	8	S	0	8	S	0	7	IN																													Leesville Lake Association #12	
LVLATER000.33	VAC-L13L_ROA01A02	CMON	RU38	0	31	S	0	13	S	0	28	S	1	62	IN																													Leesville Lake Association #3	

* For lake/reservoir NUTRIENTS (i.e. Total Phosphorus or Chlorophyll a), "Exceed" refers to the number of exceedences of the Water Quality Standards criteria per monitoring year (April-October) and "Samples" represent the number of monitoring years. A minimum of two monitoring years are required to make a supporting (S) or impaired (IM) assessment determination. Less than two full monitoring years result in an insufficient (IN) determination. Also, nutrients are only assessed in lakes listed in Section 187 of the WQS if there is documented algaecide use.

NOTE: Values in VAHU6 refer to the 6th order watershed in version 4 of Virginia's portion of the National Watershed Boundary Dataset as it was the most current dataset available during the 2016 assessment data window.