

Figure 2. Trends and Probability of Meeting Criteria/Standards in the South Branch Raritan River Watershed

Constituent	South Branch Raritan River				Spruce Run	Mulhockaway Creek	Neshanic River
	Middle Valley	High Bridge	Stanton	Three Bridges	Glen Gardner	Van Syckle	Reaville
Alkalinity	NSIG	NSIG	NT	NSIG			
Total Ammonia							
Total Organic Nitrogen				NSIG			
Nitrate + Nitrite	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG
Total Phosphorus				NSIG			NSIG
BOD	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG
DO*	NSIG	NSIG		NSIG	NSIG	NSIG	NSIG
TOC			NT	NSIG			NSIG
TDS			NT	NSIG			NSIG
Chloride			NT				NSIG
Sodium	NSIG		NT	NSIG			NSIG
Sulfate			NT	NSIG	NSIG		
Hardness**		NSIG	NT	NSIG			NSIG
pH**	NSIG	NSIG	NSIG	NSIG			NSIG
Fecal Coliform	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG
Temperature	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG
TSS	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG
Un-ionized Ammonia	NT	NT	NT	NT	NT	NT	NT

EXPLANATION OF SYMBOLS	
Downward arrows are decreasing trends over 1986-1995 Upward arrows are increasing trends over 1986-1995.	
	= Regression slope with a value < 1 (slight trend)
	= Regression slope with a value ≥ 1 & ≤ 5 (trend)
	= Regression slope with a value > 5 (strong trend)
NSIG= No significant trend; NT= Not tested	
	< 1% probability of not meeting ½ the criterion/standard
	= 10%-1% probability of not meeting ½ the criterion/standard
	= over 10% probability of not meeting ½ the criterion/standard
	= 10%-1% probability of not meeting criterion/standard
	= over 10% probability of not meeting criterion/standard
<b>**Criterion/standard is a range therefore:</b>	
	= within the criterion/standard range
	= 1-10% probability of not being in criterion/standard range
	= over 10% probability of not being in criterion/standard range

\*A decreasing trend in DO is not favorable. An increasing trend in DO is favorable.

Figure 3. Trends and Probability of Meeting Criteria/Standards in the North Branch Raritan River Watershed

Constituent	North Branch Raritan River		Lamington River				Rockaway Creek	
	Chester	Burnt Mills	Pottersville	Burnt Mills	Whitehouse	Whitehouse	Whitehouse	
Alkalinity		NSIG	NSIG					
Total Ammonia								
Total Organic Nitrogen						NSIG		
Nitrate + Nitrite		NSIG	NSIG	NSIG	NSIG	NSIG	NSIG	
Total Phosphorus				NSIG	NSIG	NSIG	NSIG	
BOD		NSIG	NSIG	NSIG	NSIG	NSIG	NSIG	
DO*	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG	
TOC		NSIG	NSIG	NSIG	NSIG	NSIG	NSIG	
TDS								
Chloride								
Sodium			NSIG					
Sulfate	NSIG	NSIG		NSIG	NSIG	NSIG	NSIG	
Hardness**								
pH**						NSIG	NSIG	
Fecal Coliform		NSIG	NSIG	NSIG	NSIG	NSIG	NSIG	
Temperature	NSIG	NSIG		NSIG	NSIG	NSIG	NSIG	
TSS	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG	NSIG	
Un-ionized Ammonia	NT	NT	NT	NT	NT	NT	NT	

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Figure 12. Trends and Probability of Meeting Criteria/Standards in the Lower Raritan WMA

Constituent	Main Stem Raritan River		Matchaponix Brook	Manalapan Brook
	Manville	Bound Brook	Spotswood	Manalapan
Alkalinity	NSIG	NSIG	NSIG	NSIG
Total Ammonia		NT		
Total Organic Nitrogen			NSIG	
Nitrate + Nitrite	NSIG	NSIG	NSIG	NSIG
Total Phosphorus	NSIG	NSIG		NSIG
BOD	NSIG	NSIG	NSIG	
DO*	NSIG	NSIG	NSIG	NSIG
TOC	NSIG	NT	NSIG	NSIG
TDS	NSIG	NSIG	NSIG	
Chloride		NSIG	NSIG	
Sodium	NSIG	NSIG	NSIG	
Sulfate	NSIG	NSIG	NSIG	
Hardness**	NSIG	NSIG	NSIG	NSIG
pH**	NSIG	NSIG	NSIG	
Fecal Coliform	NSIG	NSIG	NSIG	NSIG
Temperature	NSIG	NSIG	NSIG	
TSS	NSIG	NSIG	NSIG	NSIG
Un-ionized Ammonia	NT	NT	NT	NT

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Figure 16. Trends and Probability of Meeting Criteria/Standards in the Millstone WMA

Constituent	Millstone River						Stony Brook		Beden Brook	
	Manalapan		Grovers Mill		Blackwells Mills		Princeton		Rocky Hill	
Alkalinity	NSIG				NT					
Total Ammonia										
Total Organic Nitrogen							NSIG			
Nitrate + Nitrite			NSIG		NSIG		NSIG		NSIG	
Total Phosphorus							NSIG		NSIG	
BOD	NSIG				NSIG		NSIG		NSIG	
DO*	NSIG				NSIG		NSIG		NSIG	
TOC	NSIG				NT		NSIG		NSIG	
TDS					NT					
Chloride			NSIG						NT	
Sodium					NT		NSIG			
Sulfate	NSIG		NSIG		NT		NSIG			
Hardness	NSIG		NSIG		NT					
pH	NSIG				NSIG		NSIG		NSIG	
Fecal Coliform	NSIG		NSIG		NSIG		NSIG		NSIG	
Temperature	NSIG		NSIG		NSIG		NSIG			
TSS	NSIG		NSIG		NSIG		NSIG		NSIG	
Un-ionized Ammonia	NT		NT		NT		NT		NT	

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