

*Each Watershed Report Card covers a single 12 digit Hydrologic Unit Code (HUC12), on average a 34 square mile area. Each Watershed Report Card has three components;*

1. REPORT CARD - A one page card that summarizes the overall use support for Aquatic Life, Primary Contact (i.e. Swimming), and Secondary Contact (i.e. Boating) Designated Uses on every Assessment Unit ID (AUID) within the HUC12.
2. HUC 12 MAP - A map of the watershed with abbreviated labels for each AUID within the HUC12.
3. ASSESSMENT DETAILS - Anywhere from one to forty pages with the detailed assessment information for each and every AUID in the Report Card and Map.

***How are the Surface Water Quality Assessment determinations made?***

All readily available data with reliable Quality Assurance/Quality Control is used in the biennial surface water quality assessments. For a full understanding of how the Surface Water Quality Standards (Env-Wq 1700) are translated into surface water quality assessments we urge the reader to review the 2016 Consolidated Assessment and Listing Methodology (CALM) at <https://www.des.nh.gov/organization/divisions/water/wmb/swqa/2016/documents/r-wd-17-08.pdf>

***Where can I find more advanced mapping resources?***

GIS files are available by assessment cycle at <ftp://pubftp.nh.gov/DES/wmb/WaterQuality/SWQA/>

***I'd like to see the more raw water quality data?***

The web mapping tool allows you to download the data used in the assessment of the primary contact and aquatic life designated uses by clicking on the “Data Access Waterbody Data (Aquatic Life and Swimming Uses)” link for any assessment unit. ([http://www2.des.state.nh.us/WaterShed\\_SWQA/SWQA\\_Map.aspx](http://www2.des.state.nh.us/WaterShed_SWQA/SWQA_Map.aspx))

***How are assessments coded in the report card?***

Assessment outcomes are displayed on a color scale as well as an alpha numeric scale that provides additional distinctions for the designated use and parameter level assessments as outlined in the table below.

	Severe	Poor	Likely Bad	No Data	Likely Good	Marginal	Good
	Not Supporting, Severe	Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good
CATEGORY	Description						
*Category 2	Meets standards					2-M or 2-OBS	2-G
Category 3	Insufficient Information		3-PNS	3-ND	3-PAS		
Category 4	Does not Meet Standards;						
4A	TMDL^ Completed	4A-P	4A-M or 4A-T				
4B	Other enforceable measure will correct the issue.	4B-P	4B-M or 4B-T				
4C	Non-pollutant (i.e. exotic weeds)	4C-P	4C-M				
Category 5	TMDL^ Needed	5-P	5-M or 5-T				

\* “Category 1” only exists at the Assessment Unit Level.

^ TMDL stands for Total Maximum Daily Load studies (<http://des.nh.gov/organization/divisions/water/wmb/tmdl/index.htm>)

# WATERSHED 305(b) ASSESSMENT SUMMARY REPORT:

HUC 12 010600020902

HUC 12 NAME SOUTH RIVER

(Locator map on next page only applies to this HUC12)

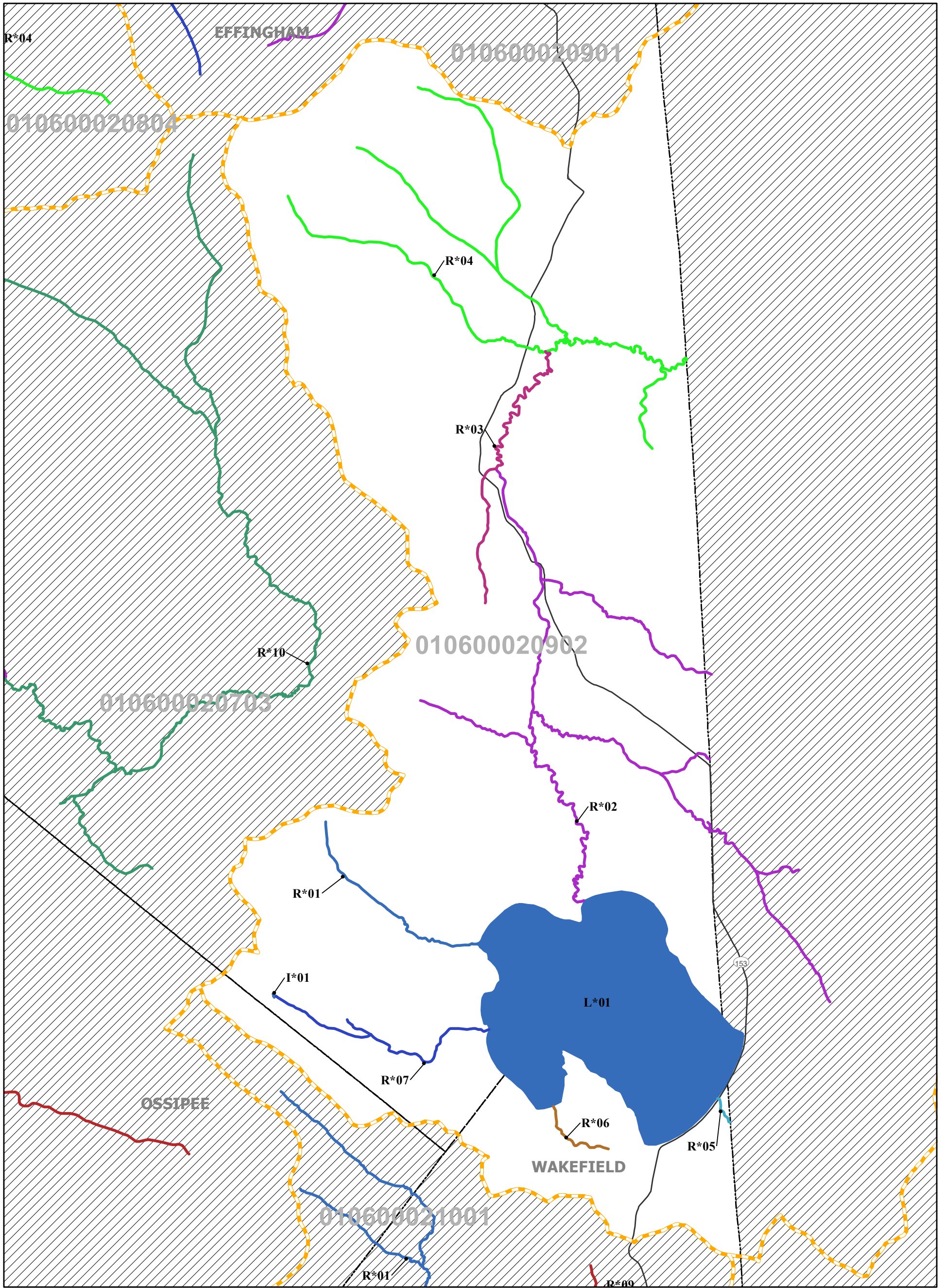
Assessment Cycle 2016

Good	Full Support Good
Marginal	Full Support Marginal
Likely Good	Insufficient Information – Potentially Full Support
No Data	No Data
Likely Bad	Insufficient Information – Potentially Not Support
Poor	Not Support Marginal
Severe	Not Support Severe



ASSESSMENT UNIT ID	MAP LABEL	ASSESSMENT UNIT NAME	AQUATIC LIFE	SWIMMING	BOATING	FISH CONSUMP.
NHIMP600020902-01		DOWNNS DAM	3-ND	3-ND	3-ND	4A-M
NHLAK600020902-01		PROVINCE LAKE	3-M	3-M	3-G	4A-M
NHRIV600020902-01		HOBBS BROOK	3-M	3-G	3-G	4A-M
NHRIV600020902-02		SOUTH RIVER - UNNAMED BROOKS	3-PAS	3-PNS	3-PAS	4A-M
NHRIV600020902-03		SOUTH RIVER - UNNAMED BROOKS	3-ND	3-ND	3-ND	4A-M
NHRIV600020902-04		SOUTH RIVER - SALMON BROOK - HOBBS BROOK	3-ND	3-ND	3-ND	4A-M
NHRIV600020902-05		PROVINCE LAKE-RTE 153 INLET	5-P	3-G	3-G	4A-M
NHRIV600020902-06		PROVINCE LAKE-ISLAND INLET	3-M	3-PNS	3-PAS	4A-M
NHRIV600020902-07		SOUTH RIVER - TO PROVINCE LAKE	3-M	4A-M	3-G	4A-M

AUIDs For HUC12: 010600020902 - South River

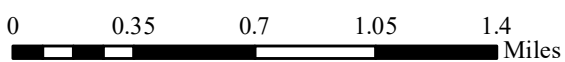


	HUC12 Boundaries	<b>Assessment Unit Coloring</b>	4 =
	Town Boundaries	<b>AUs Ending with:</b>	5 =
	Major Roads	0 =	6 =
	Interstate Highway	1 =	7 =
	US Highway	2 =	8 =
	State Highway	3 =	9 =



Abbrev. Label	HUC 12
L*03	010 700060201
AUID = NH LAK700060201-03	

Assessment Unit IDs are derived from the HUC12 they reside within. The labels have been shortened on this map for presentation purposes. Example: the Label "L\*03" in HUC12 = 010700060201 represents AUID = "NHLAK700060201-03" In rare cases where an AUID extends beyond the boundary of a single HUC12, additional portions of the end of the HUC 12 number have also been replaced.



Scale: 1:35,150

Assessment Unit ID NHIMP600020902-01

Size 0.3400 ACRES

2016, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Assessment Unit Name DOWNS DAM

Beach N

Primary Town EFFINGHAM

Assessment Unit Category\*~ 3-ND

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority	Source Name (Impairments only)
Aquatic Life	3-ND		Chlorophyll-a	N			3-ND		
			Dissolved oxygen saturation	N			3-ND		
			Oxygen, Dissolved	N			3-ND		
			pH	N			3-ND		
Drinking Water After Adequate Treatment	2-G								
Fish Consumption	4A-M		Mercury	N			4A-M	Atmospheric Deposition - Toxics	
Primary Contact Recreation	3-ND		Escherichia coli	N			3-ND		
Secondary Contact Recreation	3-ND		Escherichia coli	N			3-ND		
Wildlife	3-ND								

<b>Severe</b> Not Supporting, Severe	<b>Poor</b> Not Supporting, Marginal	<b>Likely Bad</b> Insufficient Information - Potentially Full Supporting	<b>No Data</b> No Data	<b>Likely Good</b> Insufficient Information - Potentially Full Supporting	<b>Marginal</b> Full Support, Marginal	<b>Good</b> Full Support, Good
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\*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure will rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginal Impairment, P=Severe Impairment, T=Threatened (<http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm>)

Assessment Unit ID NHLAK600020902-01  
 Assessment Unit Name PROVINCE LAKE  
 Primary Town EFFINGHAM

Size 965.6490 ACRES

Beach N

2016, 305(b)/303(d) - All Reviewed  
 Parameters by Assessment Unit

Assessment Unit Category\*~ 5-M

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority	Source Name (Impairments only)
Aquatic Life	5-M		ALKALINITY, CARBONATE AS CaCO3	N	2007	2007	3-PNS		
			CHLORIDE	N	2015	N/A	3-PAS		
			Chlorophyll-a	N	2015	NLV	5-M	LOW	Source Unknown
			DISSOLVED OXYGEN SATURATION	N	2015	2007	3-PNS		
			OXYGEN, DISSOLVED	N	2015	N/A	3-PAS		
			Phosphorus (Total)	N	2015	NLV	5-M	LOW	Source Unknown
			TURBIDITY	N	2015	2015	3-PAS		
			pH	N	2015	2015	4A-M		Atmospheric Deposition - Acidity
Drinking Water After Adequate Treatment	2-G		ESCHERICHIA COLI	N	2009	N/A	3-PAS		
			SULFATES	N	2007	N/A	3-PAS		
				N	2006	N/A	3-PAS		
Fish Consumption	4A-M		Mercury	N			4A-M		Atmospheric Deposition - Toxics
Primary Contact Recreation	5-M		CHLOROPHYLL-A	N	2015	N/A	2-G		
			Cyanobacteria hepatotoxic microcystins	N	2016	2013	5-M	LOW	Source Unknown
			ESCHERICHIA COLI	N	2009	N/A	2-G		
Secondary Contact Recreation	2-G		ESCHERICHIA COLI	N	2009	N/A	2-G		
Wildlife	3-ND								

<b>Severe</b> Not Supporting, Severe	<b>Poor</b> Not Supporting, Marginal	<b>Likely Bad</b> Insufficient Information - Potentially Full Supporting	<b>No Data</b> No Data	<b>Likely Good</b> Insufficient Information - Potentially Full Supporting	<b>Marginal</b> Full Support, Marginal	<b>Good</b> Full Support, Good
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Assessment Unit ID NHRIV600020902-01

Size 1.3280 MILES

2016, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Assessment Unit Name HOBBS BROOK

Beach N

Primary Town EFFINGHAM

Assessment Unit Category\*~ 5-M

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority	Source Name (Impairments only)
Aquatic Life	5-M		Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND		
			CHLORIDE	N	2013	N/A	3-PAS		
			Dissolved oxygen saturation	N			3-ND		
			Fishes Bioassessments (Streams)	N			3-ND		
			Oxygen, Dissolved	N			3-ND		
			PHOSPHORUS (TOTAL)	N	2013	NLV	3-PAS		
			TURBIDITY	N	2013	N/A	3-PAS		
			pH	N	2013	2013	5-M	LOW	Source Unknown
Drinking Water After Adequate Treatment	2-G		ESCHERICHIA COLI	N	2013	2013	3-PNS		
Fish Consumption	4A-M		Mercury	N			4A-M		Atmospheric Deposition - Toxics
Primary Contact Recreation	2-G		ESCHERICHIA COLI	N	2013	N/A	2-G		
Secondary Contact Recreation	2-G		ESCHERICHIA COLI	N	2013	N/A	2-G		
Wildlife	3-ND								

<b>Severe</b> Not Supporting, Severe	<b>Poor</b> Not Supporting, Marginal	<b>Likely Bad</b> Insufficient Information - Potentially Full Supporting	<b>No Data</b> No Data	<b>Likely Good</b> Insufficient Information - Potentially Full Supporting	<b>Marginal</b> Full Support, Marginal	<b>Good</b> Full Support, Good
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Assessment Unit ID NHRIV600020902-02

Size 9.2740 MILES

2016, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Assessment Unit Name SOUTH RIVER - UNNAMED BROOKS

Beach N

Primary Town EFFINGHAM

Assessment Unit Category\*~ 3-PAS

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority	Source Name (Impairments only)
Aquatic Life	3-PAS		Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND		
			CHLORIDE	N	2015	N/A	3-PAS		
			DISSOLVED OXYGEN SATURATION	N	2015	N/A	3-PAS		
			Fishes Bioassessments (Streams)	N			3-ND		
			OXYGEN, DISSOLVED	N	2015	N/A	3-PAS		
			PH	N	2015	2015	2-M		
			PHOSPHORUS (TOTAL)	N	2015	NLV	3-PAS		
			TURBIDITY	N	2015	N/A	3-PAS		
Drinking Water After Adequate Treatment	2-G		ESCHERICHIA COLI	N	2013	2013	3-PNS		
Fish Consumption	4A-M		Mercury	N			4A-M		Atmospheric Deposition - Toxics
Primary Contact Recreation	3-PNS		ESCHERICHIA COLI		2013	2011	3-PNS		
Secondary Contact Recreation	3-PAS		ESCHERICHIA COLI		2013	N/A	3-PAS		
Wildlife	3-ND								

<b>Severe</b> Not Supporting, Severe	<b>Poor</b> Not Supporting, Marginal	<b>Likely Bad</b> Insufficient Information - Potentially Full Supporting	<b>No Data</b> No Data	<b>Likely Good</b> Insufficient Information - Potentially Full Supporting	<b>Marginal</b> Full Support, Marginal	<b>Good</b> Full Support, Good
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Assessment Unit ID NHRIV600020902-03  
 Assessment Unit Name SOUTH RIVER - UNNAMED BROOKS  
 Primary Town EFFINGHAM

Size 2.2400 MILES

Beach N

Assessment Unit Category\*~ 3-ND

2016, 305(b)/303(d) - All Reviewed  
 Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority	Source Name (Impairments only)
Aquatic Life	3-ND		Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND		
			Dissolved oxygen saturation	N			3-ND		
			Fishes Bioassessments (Streams)	N			3-ND		
			Oxygen, Dissolved	N			3-ND		
			pH	N			3-ND		
Drinking Water After Adequate Treatment	2-G								
Fish Consumption	4A-M		Mercury	N			4A-M	Atmospheric Deposition - Toxics	
Primary Contact Recreation	3-ND		Escherichia coli	N			3-ND		
Secondary Contact Recreation	3-ND		Escherichia coli	N			3-ND		
Wildlife	3-ND								

<b>Severe</b> Not Supporting, Severe	<b>Poor</b> Not Supporting, Marginal	<b>Likely Bad</b> Insufficient Information - Potentially Full Supporting	<b>No Data</b> No Data	<b>Likely Good</b> Insufficient Information - Potentially Full Supporting	<b>Marginal</b> Full Support, Marginal	<b>Good</b> Full Support, Good
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Assessment Unit ID NHRIV600020902-04  
 Assessment Unit Name SOUTH RIVER - SALMON BROOK - HOBBS BROOK  
 Primary Town EFFINGHAM

Size 7.3680 MILES

Beach N

Assessment Unit Category\*~ 3-ND

2016, 305(b)/303(d) - All Reviewed  
 Parameters by Assessment Unit

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority	Source Name (Impairments only)
Aquatic Life	3-ND		Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND		
			Dissolved oxygen saturation	N			3-ND		
			Fishes Bioassessments (Streams)	N			3-ND		
			Oxygen, Dissolved	N			3-ND		
			pH	N			3-ND		
Drinking Water After Adequate Treatment	2-G								
Fish Consumption	4A-M		Mercury	N			4A-M	Atmospheric Deposition - Toxics	
Primary Contact Recreation	3-ND		Escherichia coli	N			3-ND		
Secondary Contact Recreation	3-ND		Escherichia coli	N			3-ND		
Wildlife	3-ND								

<b>Severe</b> Not Supporting, Severe	<b>Poor</b> Not Supporting, Marginal	<b>Likely Bad</b> Insufficient Information - Potentially Full Supporting	<b>No Data</b> No Data	<b>Likely Good</b> Insufficient Information - Potentially Full Supporting	<b>Marginal</b> Full Support, Marginal	<b>Good</b> Full Support, Good
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Assessment Unit ID NHRIV600020902-05  
 Assessment Unit Name PROVINCE LAKE-RTE 153 INLET  
 Primary Town WAKEFIELD

Size 0.1790 MILES  
 Beach N

2016, 305(b)/303(d) - All Reviewed  
 Parameters by Assessment Unit

Assessment Unit Category\*~ 5-P

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority	Source Name (Impairments only)
Aquatic Life	5-P		Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND		
			CHLORIDE	N	2015	N/A	3-PAS		
			DISSOLVED OXYGEN SATURATION	N	2015	N/A	3-PAS		
			Fishes Bioassessments (Streams)	N			3-ND		
			OXYGEN, DISSOLVED	N	2015	2015	3-PNS		
			PHOSPHORUS (TOTAL)	N	2015	NLV	3-PAS		
			TURBIDITY	N	2015	N/A	3-PAS		
			pH		2015	2015	5-P	LOW	Source Unknown
Drinking Water After Adequate Treatment	2-G		ESCHERICHIA COLI	N	2013	2013	3-PNS		
Fish Consumption	4A-M		Mercury	N			4A-M	Atmospheric Deposition - Toxics	
Primary Contact Recreation	2-G		ESCHERICHIA COLI		2013	N/A	2-G		
Secondary Contact Recreation	2-G		ESCHERICHIA COLI		2013	N/A	2-G		
Wildlife	3-ND								

<b>Severe</b> Not Supporting, Severe	<b>Poor</b> Not Supporting, Marginal	<b>Likely Bad</b> Insufficient Information - Potentially Full Supporting	<b>No Data</b> No Data	<b>Likely Good</b> Insufficient Information - Potentially Full Supporting	<b>Marginal</b> Full Support, Marginal	<b>Good</b> Full Support, Good
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Assessment Unit ID NHRIV600020902-06

Size 0.5090 MILES

2016, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Assessment Unit Name PROVINCE LAKE-ISLAND INLET

Beach N

Primary Town WAKEFIELD

Assessment Unit Category\*~ 5-M

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority	Source Name (Impairments only)
Aquatic Life	5-M		Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND		
			CHLORIDE	N	2015	N/A	3-PAS		
			DISSOLVED OXYGEN SATURATION	N	2015	N/A	3-PAS		
			Fishes Bioassessments (Streams)	N			3-ND		
			OXYGEN, DISSOLVED	N	2015	2015	3-PNS		
			PHOSPHORUS (TOTAL)	N	2015	NLV	3-PAS		
			TURBIDITY	N	2015	2015	3-PAS		
			pH		2015	2015	5-M	LOW	Source Unknown
Drinking Water After Adequate Treatment	2-G		ESCHERICHIA COLI	N	2013	2013	3-PNS		
Fish Consumption	4A-M		Mercury	N			4A-M	Atmospheric Deposition - Toxics	
Primary Contact Recreation	3-PNS		ESCHERICHIA COLI	N	2013	2013	3-PNS		
Secondary Contact Recreation	3-PAS		ESCHERICHIA COLI	N	2013	N/A	3-PAS		
Wildlife	3-ND								

<b>Severe</b> Not Supporting, Severe	<b>Poor</b> Not Supporting, Marginal	<b>Likely Bad</b> Insufficient Information - Potentially Full Supporting	<b>No Data</b> No Data	<b>Likely Good</b> Insufficient Information - Potentially Full Supporting	<b>Marginal</b> Full Support, Marginal	<b>Good</b> Full Support, Good
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Assessment Unit ID NHRIV600020902-07

Size 1.7200 MILES

2016, 305(b)/303(d) - All Reviewed Parameters by Assessment Unit

Assessment Unit Name SOUTH RIVER - TO PROVINCE LAKE

Beach N

Primary Town EFFINGHAM

Assessment Unit Category\*~ 5-M

Designated Use Description	*Desig. Use Category	Desig. Use Threat	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority	Source Name (Impairments only)
Aquatic Life	5-M		ALKALINITY, CARBONATE AS CaCO3	N	1992	1992	3-ND		
			Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND		
			CHLORIDE	N	2015	N/A	3-PAS		
			DISSOLVED OXYGEN SATURATION	N	2015	N/A	3-PAS		
			Fishes Bioassessments (Streams)	N			3-ND		
			OXYGEN, DISSOLVED	N	2015	N/A	3-PAS		
			PHOSPHORUS (TOTAL)	N	2015	NLV	3-PAS		
			TURBIDITY	N	2015	2015	3-PAS		
			pH	N	2015	2015	5-M	LOW	Source Unknown
Drinking Water After Adequate Treatment	2-G		ESCHERICHIA COLI	N	2013	2013	3-PNS		
Fish Consumption	4A-M		Mercury	N			4A-M	Atmospheric Deposition - Toxics	
Primary Contact Recreation	4A-M		Escherichia coli	N	2013	2011	4A-M	Source Unknown	
Secondary Contact Recreation	2-G		ESCHERICHIA COLI	N	2013	N/A	2-G		
Wildlife	3-ND								

<b>Severe</b> Not Supporting, Severe	<b>Poor</b> Not Supporting, Marginal	<b>Likely Bad</b> Insufficient Information - Potentially Full Supporting	<b>No Data</b> No Data	<b>Likely Good</b> Insufficient Information - Potentially Full Supporting	<b>Marginal</b> Full Support, Marginal	<b>Good</b> Full Support, Good
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\*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure will rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginal Impairment, P=Severe Impairment, T=Threatened (<http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm>)