

NJS11-164-R3

Whippany River

end of Daniel Drive

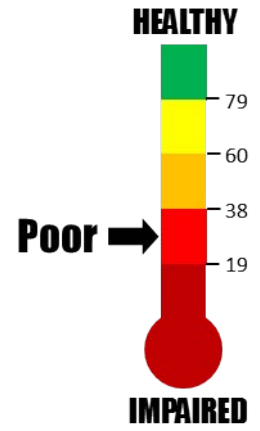
Municipality: East Hanover Twp

County: Morris

Drainage Area (sq miles): 51

Sample Date: 08/20/2014

Site Type: Probabilistic



IBI Metrics

Metric 1-%Rheophilic Richness	9.98
Metric 2-%Cold Non-tolerant Coolwater	72.06
Metric 3-%Generalist Richness	49.71
Metric 4-Tolerance Index	70.51
Metric 5-%Lithophilic Richness	0.00
Metric 6-%Cyprinidae	14.43
Metric 7-%Dominant 3 Taxa	27.82
Metric 8-%Benthic Insectivore Richness	17.66

Field Chemistry

Air Temp (°C)	24.6
Water Temperature (°C)	21.96
Dissolved Oxygen (mg/L)	7.72
% Saturation	88.4
pH	7.49
Conductivity (µS/cm)	936.5

Northern Fish IBI Score (0-100): 32.77

IBI Rating: Poor

High Gradient Habitat Score (0-200): 103

Habitat Rating: Marginal

Summary: The specific conductance measured at NJS11-164 on the Whippany River is the highest value (936.5 µS/cm) ever measured in the Fish IBI network since monitoring was initiated in 2000. The stream exhibited numerous habitat impairments and there was a strong sewage smell.

NJS11-164-R3

Whippany River

Common Name	Scientific Name	Abundance
Tessellated Darter	<i>Etheostoma olmstedii</i>	153
Pumpkinseed	<i>Lepomis gibbosus</i>	34
Redbreast Sunfish	<i>Lepomis auritus</i>	23
Eastern Mudminnow	<i>Umbra pygmaea</i>	19
Redfin Pickerel	<i>Esox americanus americanus</i>	12
Green Sunfish	<i>Lepomis cyanellus</i>	10
White Sucker	<i>Catostomus commersoni</i>	7
Yellow Bullhead	<i>Ameiurus natalis</i>	5
Black Crappie	<i>Pomoxis nigromaculatus</i>	5
Bluegill	<i>Lepomis macrochirus</i>	4
Eastern Silvery Minnow	<i>Hybognathus regius</i>	4
Largemouth Bass	<i>Micropterus salmoides</i>	2
Golden Shiner	<i>Notemigonus crysoleucas</i>	1
Spottail Shiner	<i>Notropis hudsonius</i>	1
Northern Pike	<i>Esox lucius</i>	1