

Saw Mill River and Hudson River Stakeholder Report

THE ONLY WAY FORWARD, IF WE ARE GOING TO IMPROVE THE QUALITY OF THE ENVIRONMENT, IS TO GET EVERYBODY INVOLVED - RICHARD ROGERS

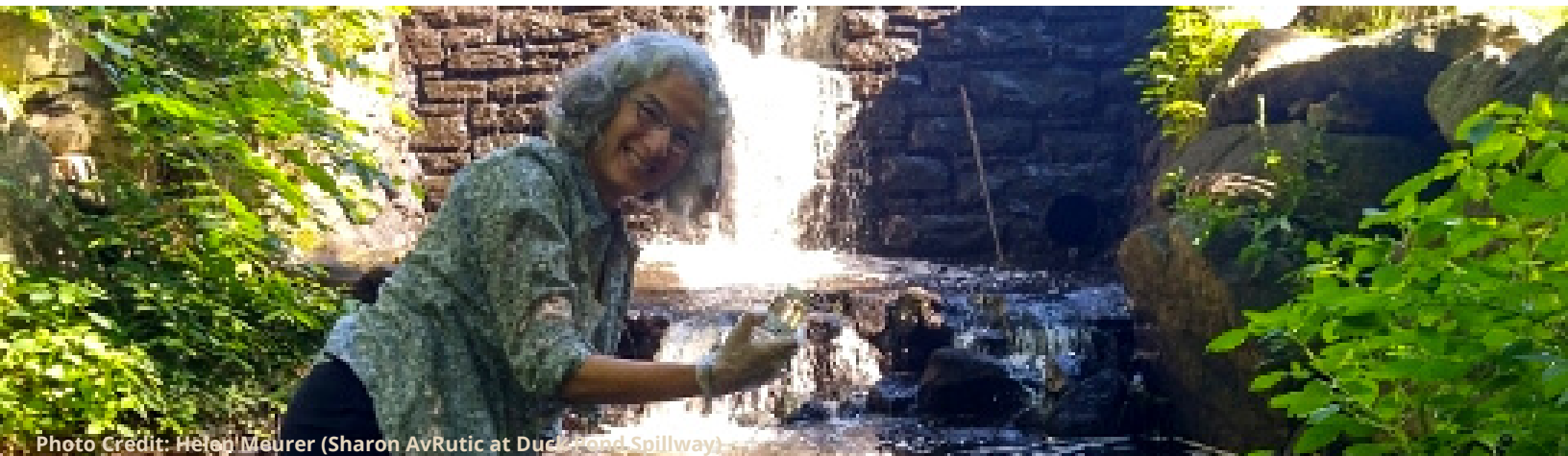


Photo Credit: Helen Meurer (Sharon AvRutic at Duck Pond Spillway)

THE WHOLE RIVER

2020 and 2021 have been two eventful years of sampling for the Saw Mill River. Enterococcus testing has been joined by qPCR source track testing and additional parameters have been collected along the main stem and analyzed by a ELAP certified lab. This upcoming week we will add another layer of our understanding by looking at macroinvertebrates at V.E. Macy park in Ardsley. All of these studies give us a more complete lens of the river from the northernmost sampling site showcased above with sampler Sharon in New Castle, down to the mouth in Yonkers



(The Distinguished River): A section of our newsletter dedicated to the great ever changing rivers

A total of 57 samples made their way through the watershed, passed along from sampler to sampler, and partially ended their journey in our lab refrigerator. As we mentioned in previous reporting, Dr. Michelle Hersh of Sarah Lawrence College will be taking a closer look at samples collected by volunteers with students in a small **qPCR** study. The process of qPCR testing determines the amount of a qualifying DNA that is present within a water sample. Specifically she'll be quantifying the relative amount of fecal indicator bacteria that is sourced from humans, dogs, cats, and birds. Learn more about how the process works here.

DATA

*Most Probable Number of Colony Forming Enterobacteria per 100ml sample. EPA recommends public notification and possible temporary beach closure for single Enterobacteria samples above 60 cells/100ml. Samples testing above this threshold appear in red on the Riverkeeper website, while those below it appear in green. To avoid exposure to chronic contamination, the geometric mean, a weighted 30-day average, should not exceed 30 cells/100ml. To avoid exposure to occasional high levels of contamination, no more than 10% of samples should exceed 110 cells/100ml.

Watershed	River Mile	Site ID	Site Name	Sample Date	MPN*
Hudson		SMR-HR-20	Yonkers - JFK Marina boat launch	7/22/2021 11:31 AM	75
Hudson		SMR-HR-18.5	Yonkers Paddling and Rowing Club	7/22/2021 11:56 AM	20
Saw Mill	0.19	SMR-0.19	Yonkers - Saw Mill River, daylighted section	7/22/2021 12:11 PM	771
Saw Mill	1.11	SMR-1.11	Yonkers - Walsh Road	7/22/2021 9:36 AM	959
Saw Mill	2.44	SMR-2.44	Yonkers - Torre Place	7/22/2021 9:22 AM	565
Saw Mill	4.22	SMR-4.22	Yonkers - Hearst Street	7/22/2021 10:35 AM	173
Saw Mill	4.87	SMR-4.87	Hastings - South County Trail boat access at Farragut Avenue	7/22/2021 10:25 AM	122
Saw Mill	7.9	SMR-7.90	Ardsley- V. E. Macy Park ballfields	7/22/2021 9:05 AM	148
Saw Mill	10.31	SMR-RB-0.13	Greenburgh - Rum Brook tributary	7/22/2021 10:35 AM	677
Saw Mill	10.41	SMR-10.41	Greenburgh - Rum Brook Park ballfields	7/22/2021 10:40 AM	292
Saw Mill	11.72	SMR-MB-0.15	Elmsford- Mine Brook tributary	7/22/2021 9:35 AM	294
Saw Mill	11.82	SMR-11.82	Elmsford- Above Mine Brook	7/22/2021 9:45 AM	496
Saw Mill	14.88	SMR-14.88	Mount Pleasant - Saw Mill River Road	7/22/2021 9:28 AM	528
Saw Mill	17.57	SMR-NB-0.07	Mount Pleasant - Nannyhagen Brook tributary	7/22/2021 9:12 AM	384
Saw Mill	18.84	SMR-18.84	Pleasantville - Pleasant Ave	7/22/2021 8:35 AM	373
Saw Mill	20.66	SMR-TB-0.34	New Castle - Tertia Brook tributary	7/22/2021 8:59 AM	345
Saw Mill	21.18	SMR-21.18	New Castle - Duck Pond spillway	7/22/2021 8:49 AM	216

SPECIAL ACKNOWLEDGMENTS

The program is funded in part by Westchester Community Foundation and is part of the Lower Hudson Urban Waters Collaborative which includes CURB, Riverkeeper, and Bronx River Alliance.

We also take a moment to thank YOU!



WE ACKNOWLEDGE YOUR SUPPORT IN HELPING US CREATE A UNIFIED VOICE SURROUNDING OUR LOCAL WATERWAYS THROUGH VOLUNTEERING, RESEARCH, EDUCATION, AND OUTREACH. IF YOU WISH TO BECOME MORE INVOLVED AND LEARN HOW YOU CAN SUPPORT US, VISIT OUR WEBSITE AT

WWW.CENTERFORTHEURBANRIVER.ORG

TO ACCESS PAST NEWSLETTERS, VISIT
WWW.CENTERFORTHEURBANRIVER.ORG/RESEARCH/WATER-QUALITY.HTML