

The Upper Delaware

The quarterly newsletter about the environment and people of the Upper Delaware River

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Summer 1993



In This Issue...

Welcome to the Summer, 1993 issue of *The Upper Delaware!* In this issue of *The Upper Delaware*, divers who've been to the bottom of the Narrowsburg pool talk about what it's like down there. In this issue you'll also find:

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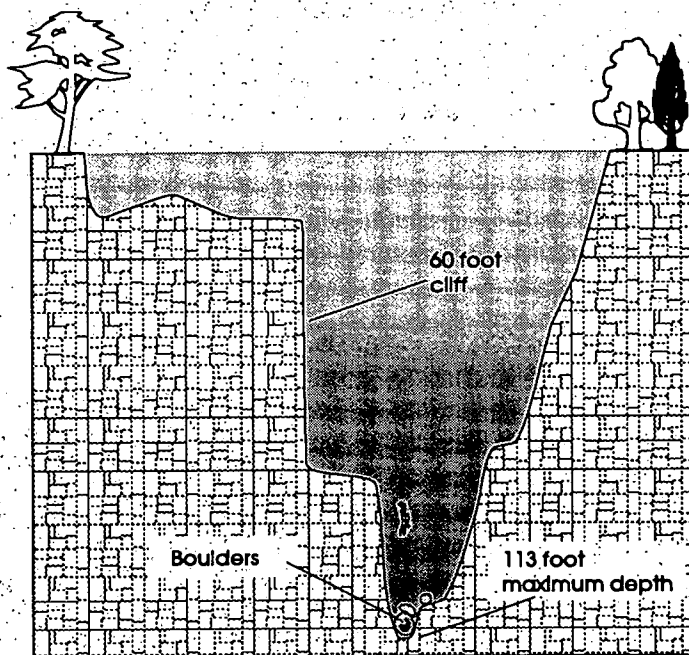
PLUS.....

Friends of the Upper Delaware, The UDC, and New York Audubon team up to monitor water quality throughout the river valley; and a calendar of UDC meetings and events8

Most land along the Upper Delaware River is privately owned. Please respect private property.

The Hole in the River

Do you want to get the wil-lies? The next time you're in Narrowsburg, New York, venture over to the little wood-decked park across from the post office. Look down at that vast pool so calm that raftsmen used to store their lumber rafts there overnight for safekeeping. Then think about the fact that out there in that pool is a cold, deep, dark hole in the river 113 feet deep that could swallow an eleven story tall radio tower and still leave plenty of clearance for fishing boats to glide by overhead.



A cross section of the hole in the Narrowsburg pool. Vertical elements are to scale. Horizontal distance is compressed by a factor of ten to fit onto this page. Cross section runs approx. NE to SW from NY bridge abutment, left, to island on New York side, right.

"Something Exotic"

This is surprising. In places near Philadelphia the river must be dredged constantly to provide the 40 foot depth that big container ships need to navigate safely. Explains Dr. Vladimir N. Kosmynin, who lectures on the evolution of rivers and landforms at Moscow University (in Russia), "In the life of most rivers, there are three ways that deep spots are made: They get dug out in the soft sediments near the river's mouth; they are excavated where tributaries join the main channel; or they form on the far side of meanders, where the current is fast compared with the slow (inner) part of the meander where sand and gravel gets deposited. If there's a deep spot and

it's not the result of one of these three processes, then something exotic has happened."

So what, exactly, did make the hole in the river? There are a number of mechanisms that could do the job. But two theories were mentioned repeatedly by geologists, divers, and National Park Service personnel interviewed for this article. These two theories are that it is a long-drowned "plunge pool" from a glacial waterfall; or that it is a pothole scoured out by erosion.

A Cold Waterfall

The plunge pool theory is by far the most glamorous. To understand this theory, we must go back 20,000 years or so to

(Please see "Hole," page 6 ...)

Delaware In Substantial Conformance

The Town of Delaware, New York, has been welcomed into the community of towns and townships that are in substantial conformance with the River Management Plan and Land and Water Use Guidelines. A May 6 Upper Delaware Council Resolution recommending the town be found in substantial conformance, and a June 2 letter from NPS Regional Director John J. Reynolds finding the town in substantial conformance, make Delaware the ninth town/ship to enjoy such status.

"I'm very happy with it. Everyone, including the Town Planning Board and UDC staff, did a fine job. It wasn't the easiest thing in the world to do, as a lot of changes were made to the Zoning Law," says Ed Sykes, Town of Delaware Representative to the UDC, of the whole process.

Town to Enjoy Benefits

A town or township found to be in substantial conformance benefits in many ways. Land use decisions continue to be made at the local level, without interference by the National Park Service. Local control is the hallmark of the town-developed River Management Plan, which seeks to protect a national treasure—the Upper Delaware—through local action. There is also the satisfaction of knowing that future development will be sensitive to the environment and the need to protect the river.

Finally, in towns and townships that are in substantial conformance, the land acquisition authority of the Secretary of Interior is sharply curtailed.

The Town of Delaware had been reviewing and considering updates to its Zoning Law over the past couple of years. Council staff met numerous times with the Town Board, Planning Board, the Town's planning consultant, and the National Park Service to help ensure that the final product would meet the town's needs and also protect the Upper Delaware region's resources and lead to a positive substantial conformance

determination. "It was a long process, but I think everyone is pleased with the results," says UDC Executive Director Bill Douglass. ♣

Manna Leaves DEC Region 3

Ralph Manna, Jr., who long supported the Council as Regional Director for the New York State Department of Environmental Conservation (DEC) Region 3, has moved on to a new job as Director of DEC Region 7. There he'll supervise a staff of more than 250 and manage all state environmental programs within a nine-county area that stretches from Lake Ontario to the Susquehanna River.

"Ralph will be missed," says New York State UDC representative Bruce MacMillan of Manna's departure. Indeed, the effort, support and cooperation that Manna gave to the Council over the years is greatly appreciated, and we wish him well in his new position.

McGrane to Head Region 3

Ralph Manna's replacement as DEC Region 3 Director is Jean-Ann McGrane, a former official with the New York City Health and Hospital Corporation. She began her new position on June 28.

"Jean McGrane brings to DEC more than 15 years of public and private sector experience in initiating, executing and managing large-scale environmental and occupational health programs. Her knowledge and expertise will be invaluable to DEC and to the cities and communities throughout the region as we grapple with the many environmental and natural resource issues that confront us. I am confident that Jean will continue to build on New York's record of excellence and leadership," said DEC Commissioner Thomas C. Jorling in a news release.

The Council looks forward to working with Ms. McGrane on issues of importance to us all. ♣

Upper Delaware Council, Inc.

P. O. Box 217
Narrowsburg, NY 12764
Telephone: (914) 252-3022
FAX: (914) 252-3359

The Upper Delaware is the free quarterly publication of the Upper Delaware Council, a 501(c)(3) non-profit organization of member governments from New York and Pennsylvania directly affected by the management plan for the Upper Delaware Scenic and Recreational River. Contact the UDC for more information.

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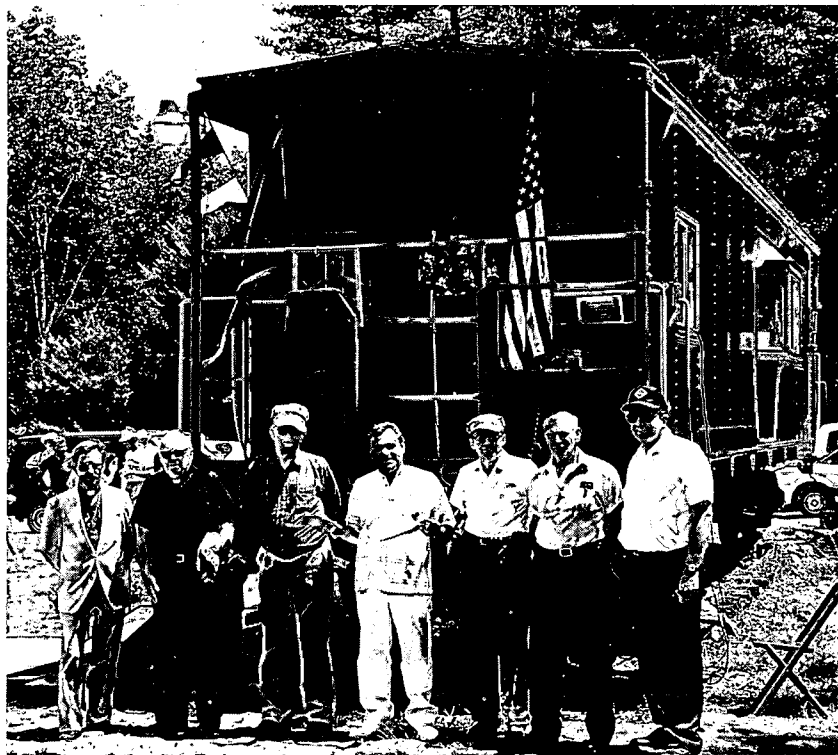
All Aboard the Shohola Caboose!

The river valley gained a fine new attraction when the Shohola Railroad and Historical Society opened its caboose museum and visitor information center on July 11. The museum, which is certain to become an important tourist attraction in the area, was made possible thanks to a huge outpouring of support from the local community, the Upper Delaware Council, and Conrail.

The museum is housed in —and is—caboose #21754, built in 1949 to New York Central System Equipment Department Engineering specifications for an N7 caboose. Before coming to rest in Shohola, the caboose rolled for many years and miles along Reading, Penn Central, and Conrail lines. The caboose was donated to Shohola Township in 1989 by Conrail, which is phasing out its use of that venerable symbol of railroading legend and lore.

Local Group Gets the Job Done

A local group headed the effort to bring the museum to the valley. In 1991 the Shohola Railroad and Historical Society, popularly known as “the caboose group,” was formed to preserve and maintain the Shohola Caboose. After several meetings, it was decided to use the caboose as a museum and visitor information center. The Society’s goals were soon expanded to include the preservation of local history and railroad history, especially as it relates to the



The Caboose Group and friends pose in front of our valley's newest museum. Shown, left to right: Rev. Arvo Beck, pastor, St. Jacobi Lutheran Church in Shohola; Father John O'Hare, St. Ann's Catholic Church, Shohola; Austin Smith, a former Erie Railroad worker who cut the ceremonial ribbon; Michael Ortolano, President of the Shohola Railroad and Historical Society; George Fluhr, Secretary-Treasurer of the Society and Shohola's Representative to the Upper Delaware Council; Donald Knealing, Shohola Township Supervisor; and Andrew Monisera, Museum Trustee. Photo by D. Soete.

Shohola area. Within a year, the caboose group had over 200 members.

Planning, fund raising, and extensive volunteer work soon began. In Spring, 1991, the caboose was set upon rails at its current site in Shohola on PA Route 434 near the Shohola-Barryville Bridge and next to Harry Graber's Midtown Convenience Store and Exxon Service Center.

With the help of a \$2,630 grant from the Upper Delaware Council to Shohola Township, a “Plan For Conversion” was completed in January 1992. A colorful brochure about the caboose was also produced. The caboose was cleaned, refurbished, painted inside and out, and rewired with the aid of hundreds of hours of volunteer labor.

Displays include a copy of the original newspaper account of the disastrous prison train wreck (discussed below), an explanation of the switchback railroad that served the turn-of-the-century Shohola Glen Resort, and reproductions of vintage trading cards featuring former baseball great and Shohola native “Smokey” Joe Wood. Regional travel and visitor brochures are available at the caboose, and one storage area is being devoted to a small library of local and railroad history.

A state historical marker commemorating the Shohola Civil War train wreck is being added to the museum site. The train wreck, one of the worst accidents in American rail-

roading, killed 68 Union and Confederate soldiers and three trainmen. The accident occurred just west of Shohola on August 15, 1864, when a west-bound train packed with prisoners-of-war slammed into an east-bound coal train on a blind curve (see the Fall, 1991 issue of *The Upper Delaware*). Local funds were raised to cover the \$1,250.00 cost of the marker.

Help Mark History

Funds are needed for Society activities and to operate and maintain the caboose and museum. For more information write the Shohola Railroad and Historical Society, Shohola, PA 18458—or better yet, board the caboose! ✚

Local Heroes Honored

It was a night to honor local heroes — those who've saved a life, protected an eagle, resurrected a bridge, or otherwise made the Upper Delaware valley a better place to live, work, and play. It was the fifth annual Upper Delaware Council Awards Banquet held March 20 at the Settlers Inn in Hawley, Pennsylvania.

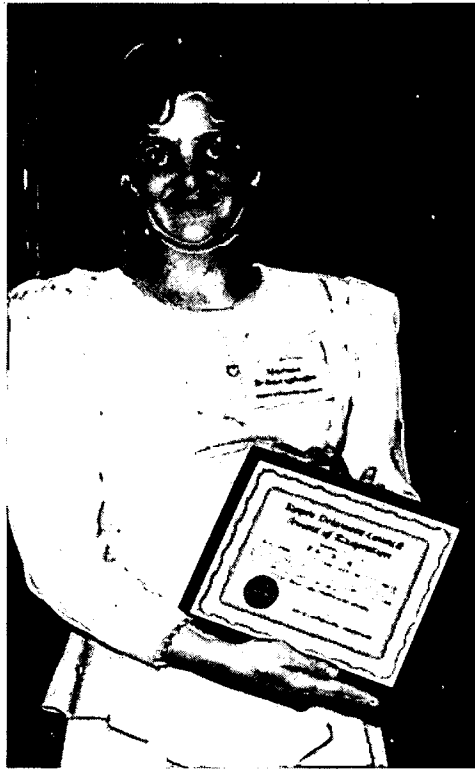
Once again, the Council would like to congratulate the winners, and let our readers share in the good news that so many local folks are working hard and doing great things. Here's a list of this year's award winners:

Volunteer Award — This award went to **Lewis Schmalzle** of the Town of Highland for fifty years of volunteer work for his town and the river, and for otherwise contributing to making life better in the river valley.

Cultural Achievement Award — This award went to the **Delaware Valley Arts Alliance** for their long history of excellence in promoting the appreciation of cultural resources in the Upper Delaware Scenic and Recreational River corridor. **Elaine Giguere** accepted the award on behalf of the Alliance.

Certificate of Merit — This award went to the **NYS Department of Environmental Conservation** for creating the **Mongaup Valley Wildlife Management Area**, which will protect eagle habitat and provide many opportunities for public recreation and education. **Charlie Morrison** of the DEC accepted the award.

Outstanding Community Achievement Award — **Wayne County, PA** received this award for taking quick and aggressive action to convince PennDOT to restore funding for the **Lordville Bridge**. **Reg Wayman**, Chief Clerk, thanked the Council and recognized the many groups and individuals who made the new bridge possible.



Marian Schweighofer accepts the UDC Award of Recognition for Ethel Poley. Photo by D. Soete.

Community Service Award — **St. James Redeemers** received the Community Service Award for their recycling program, which netted over 22,000 bottles and cans in the summer of 1992. Volunteer **Mary Curtis** accepted the award on behalf of the group.

Recreation Achievement Award — **Red Barn Campground & Canoe**

Rental won this award for outstanding efforts to educate visitors to the river, and for demonstrating a concern for resource and safety issues and establishing a reputation for operating an excellent family campground. Campground owners **Scott and Joann Haberli** accepted the award.

Best Friend Award — This Best Friend Award is a brand new award category that recognizes outstanding dedication and hard work on the new Friends of the Upper Delaware program. **Lori Danuff McKean** received this inaugural award for building a citizen-based water quality monitoring program. **Al Norris**, Town of Highland Representative to the UDC, accepted the award on behalf of Lori, who could not be present.

Awards of Recognition — **Richard C. Albert** received an Award of Recognition for his efforts to maintain existing water quality within the river. **Chris Wallingford** and **George Frosch** both received awards for their tireless—and ultimately successful—efforts to get the **Lordville Bridge** replaced. **Ethel Poley** was given an award posthumously for her diligent work on the River Management Plan during the planning years, her 18-years of successful operation of **Fort Delaware**, and a life of gracious giving of herself to the community. **Ed and Marian Schweighofer** accepted the award and fondly remembered Mrs. Poley, who passed away last year.

Keynote speaker **Jerry Birmelin**, Pennsylvania State Representative 139th District, also received an award — and our thanks — for his support in getting the **Lordville Bridge** replaced.

Oaken Gavel Award — **George J. Fluhr**, UDC representative from **Shohola Township**, received this award for completing the tough job of chairing the



Two men who worked tirelessly to get the Lordville Bridge replaced. They are, left, Chris Wallingford; and right, UDC Rep. from Hancock, George Frosch. Center is UDC Chair Larry Richardson. Photo by D. Soete.



Three men who saved four lives. They each received the Council's highest honor, the Distinguished Service Award, for saving people from drowning. Shown, left to right: Luis Alvarez, Sullivan County Sheriff's Office; Glenn Peter Clouse, Kittatinny Canoes; and Robert Weber, III, NPS. Photo by Soete.

Council. Fluhr expressed thanks to Council members, advisory members, and staff for their support.

Distinguished Service Award— This is the Council's highest honor, given to that individual who acted with distinction in support of the goals and objectives of the River Management Plan. This Award was given this year to three individuals for heroically saving another person's life. Luis Alvarez saved a teenager from drowning on July 20, 1992. Glenn Peter Clouse saved two people from drowning on June 13, 1992.

And Robert Weber, III saved a man from drowning on July 11, 1992.

Keynote Address

The Honorable Jerry Birmelin, Pennsylvania State Representative 139th District, presented the keynote address. Said Birmelin, "I've traveled much of the country, but I've never visited natural areas more beautiful than our own."

Birmelin predicted that tourism will be Pennsylvania's primary industry by the year 2000—making it difficult to maintain a balance of economic and

preservation interests. He noted that as tourism promotion draws more people to an area, it necessarily brings a greater need to safeguard the resources that attract people there.

Birmelin invited UDC input into his sub-committee work and said both should continue as "good stewards ... to take care of and preserve what we have for future generations."

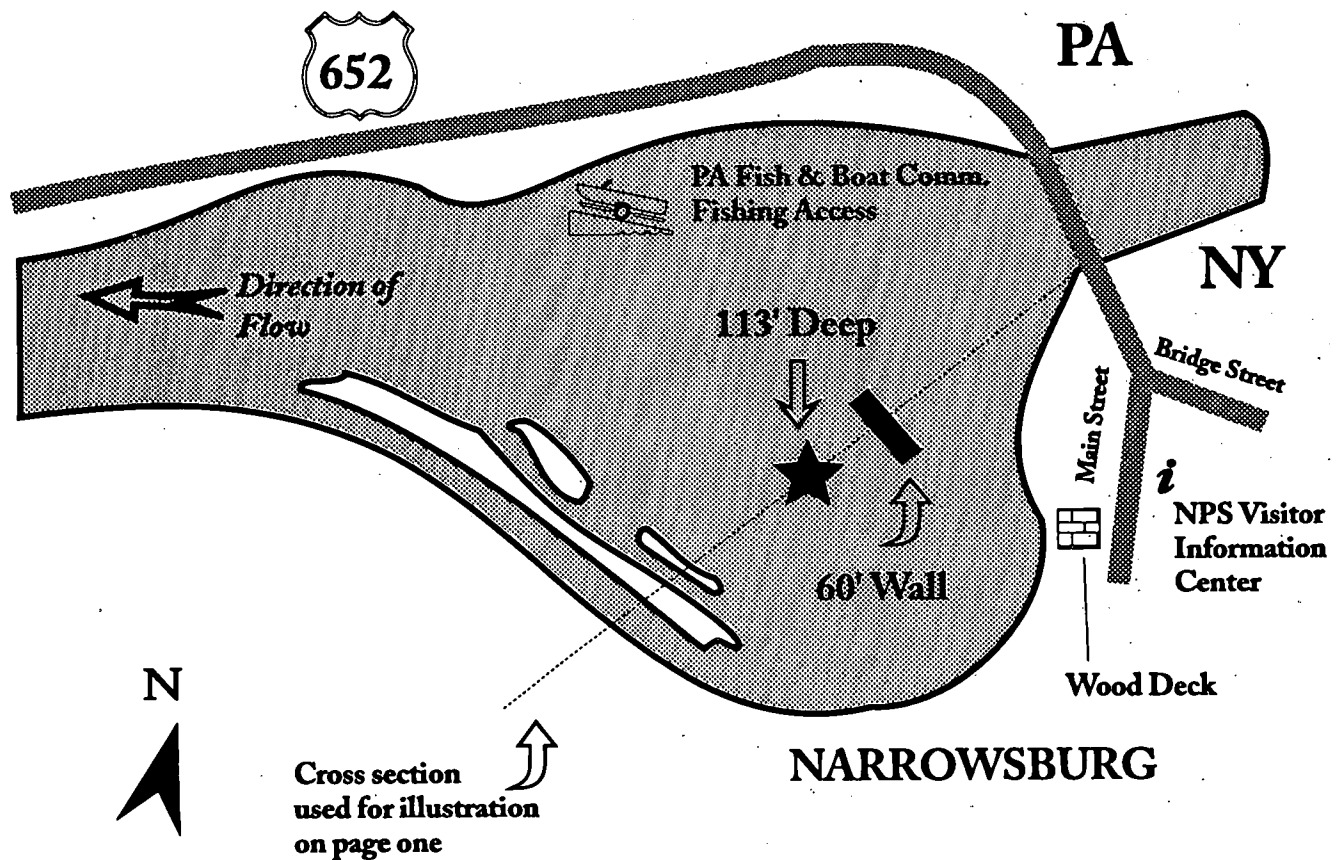
Fitzpatrick Recognized

A surprise Special Award of Appreciation was presented to Phil Fitzpatrick,



UDC Award Winners. Seated, left to right: Chris Wallingford—Award of Recognition; Joann and Scott Haberli, Red Barn Campgrounds—Recreation Award; Marian Schweighofer for Ethel Poley—Award of Recognition; Mary Curtis for St. James Redeemers—Community Service Award; Elaine Giguere for Delaware Valley Arts Alliance—Cultural Achievement Award; Richard C. Albert—Award of Recognition; George J. Fluhr—Oaken Gavel Award. Standing, left to right: Lewis Schmalzle—Volunteer Award; Robert Weber, III, Luis Alvarez, and Glenn Clouse—Distinguished Service Awards; PA State Rep. Jerry Birmelin—Award of Recognition; UDC Chair Larry Richardson; George Frosch—Award of Recognition; Charlie Morrison for the NYS DEC—Certificate of Merit; Reg Wayman for Wayne County—Outstanding Community Achievement Award; Phil Fitzpatrick—Award of Appreciation; UDC Exec. Dir. Bill Douglass. Not shown, Lori McKean, Best Friend Award. Photo: Soete.

former UDC Representative from Westfall Township, for his many years of outstanding dedication to the success of the Upper Delaware Council and strong commitment to the goals and objectives of the River Management Plan. Said Fitzpatrick, "It's time for the Council to re-examine its vision and move on to the next level. Let's put the river first in all our efforts. Short-term political goals must not take precedence over the well-being of the river." ✦



("Hole," continued from page 1)

the last ice age when the Laurentide Ice Sheet crushed much of Canada, gouged through New England, deposited a huge sand and gravel bar now known as Long Island, and stopped along a line not far from the Upper Delaware. The ice sheet was actually built up of many glaciers that grew together. These glaciers were laced through with cold glacial streams.

In the plunge pool theory, such a glacier parked itself right next to what is now downtown Narrowsburg. A torrent of cold water poured out of it—most likely popping out of a hole in the side of the glacier, rather than spilling off the top of it. This freezing torrent, loaded with abrasive sand and gravel carried by the glacier (glaciers are dirty ice rivers) plunged into the rock below and dug for thousands of years while the ice sheet hesitated before starting its slow retreat northward.

But there are two problems with this theory. The first is that the glacier would've had to linger a good, long time to carve a hole so deep. The other is that many glaciers don't end in waterfall-making cliffs, but just peter out.

Swirling Rocks

This brings us to the less glamorous but still amazing pothole theory. William Rogers, of the New York State Geological Survey in Albany, NY, describes this theory: "Basically, it happens when there's a constriction upriver, or some natural feature that creates a whirlpool effect. During floods boulders are twirled around and they literally scour out a hole."

Divers who have explored the hole say that it is shaped like a stair-stepped funnel, with a series of vertical drops separated by horizontal ledges that end in a final, narrow plunge to a field of smooth boulders at 113 feet. "If it's a pothole, then those smooth rocks are the tools that did the job," says Rogers. To this author, at least, the funnel shape suggests a whirlpool action rather than a plunge pool. And, there is a natural constriction upstream.

Even if this theory is proved correct, glaciers may have played an important role in the hole's formation, says Rogers. "Most of the work in rivers gets

done during floods. And when glaciers were melting the river may have had flow characteristics very different than it has now."

So which theory is right, the glacial waterfall or the swirling rocks? Small details are the key to answering this question, the kind of details that only divers can provide (see the accompanying interview). A detailed and accurate map of the river bottom is also very important. No such map now exists—an illustration based on the best one available accompanies this article. But thanks to inquiries made on behalf of the Upper Delaware Council for this article, the interest of staff members of the New York State Geological Survey has been piqued. And perhaps, with the help of Park Service personnel and the Council, we will one day determine what made the hole in the river.

This article was written by Keith Fletcher. The Upper Delaware Council would like to thank Al Henry, Bill Weber, William Rogers, and Vladimir Kosmynin for the information they provided for this article. ♣

Nineteen Fathoms Under the The Delaware

What follows is an interview with two National Park Service divers who have seen the hole in the Narrowsburg Pool first-hand. Bill Weber is Law Enforcement Ranger for the Upper Delaware Scenic and Recreational River. Al Henry, North District Ranger, was interviewed separately.

Why did you decide to dive into the hole?

Weber: Basically, I enjoy diving the river because it's an area that I work in, and because the water clarity in the river is better than most lakes.

On land, you are two dimensional. But in the water, you can move in three dimensions like a bird or bumblebee. That enables you to explore in the nooks and crannies that most people never see. For example, the rocks at Skinner's Falls have interesting underwater structure. The fish like to live in these nooks and crannies, and since they are not afraid of people, they don't flee, so you get a good look at them—and by the way, a good diver would never chase them.

I choose to dive at the Narrowsburg pool because there is relatively easy access, and you can dive deep there.

Where in the pool is the hole located?

Weber: Contrary to the popular notion, the hole is not located under the bridge, but is thirty or forty yards downstream from it, and off towards the New York side.

How deep did you go?

Weber: I have been to 113 feet. That has been verified by dive computers. That's the bottom, to the best of my knowledge. At the bottom, it's sandy and silty.

What is the hole's shape? This is an important question to answer if we are to determine the hole's origin.

Weber: It's not round, it's roughly a large, oval-shaped funnel. It does not remind me of what I would typically think of

as a plunge pool.

Henry: There's a roughly oval-shaped rim that starts about 15 to 20 feet down. It's shaped almost like a big oval bowl. At the upstream edge of the hole, there's a long (maybe 60 foot) sheer drop—I think that at one time it could have been a waterfall. As you descend, there's a series of ledges where the hole narrows. The deep scour hole starts at about 80 feet or so, though it's hard to tell. That hole's not more than 15 feet across. There are a couple of good-sized rocks down there—and a couple of beer cans.

What is it like down there?

Weber: Not very romantic. It's dark and cold. There's not much you can do down there because if you spend any time near the bottom you have to go through decompression. You pretty much touch the bottom then head back up. It's not a place for an inexperienced diver to go.

Henry: There's a lot of silt.

What kind of fish do you see down there?

Weber: The river has many different species. I have seen muskellunge about 4 feet in length, walleye in excess of 2 feet, American eels 4 feet or longer.

Have you seen anything more exotic or unusual?

Weber: At certain times of the year, there are freshwater jellyfish about the size of a quarter.

The geologists I've spoken to have put forth two main theories about how the hole formed: that it's a plunge pool, or else was scoured out over the ages by rocks in a whirlpool action. Have you done any research into this?

Weber: I've talked to some geologists, too, and those are the same two theories that I've heard. ✚

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If your address has changed or you no longer own property in the Upper Delaware River area, please help us to maintain the accuracy of our records. Fill in your new address or the name and address of the new owner of your property and return this part of the page to the: Upper Delaware Council, P. O. Box 217, Narrowsburg, NY 12764. Thank you for your assistance.

Old Address

Name _____
Address _____
Address _____
City _____ State _____ Zip _____

New Address

Name _____
Address _____
Address _____
City _____ State _____ Zip _____

Check this line and return the form if you wish to have your name removed from the mailing list. _____

Bugs Don't Bug Water Monitors

Volunteer water monitors got their feet wet, literally and figuratively, at three workshops sponsored by the New York Audubon Society in cooperation with the Friends of the Upper Delaware. The most recent workshop, held August 28, was a huge success and shows that the program is rapidly maturing into a major volunteer water quality monitoring effort, with more than 25 participants monitoring tributary streams in New York and Pennsylvania along the 73.4-mile long Upper Delaware River.

Says Lori McKean of NY Audubon, "It went very well, especially for this time of year, when people are on vacation. We had a good turnout, everyone was very enthusiastic, and there were some newcomers. Some of the experienced people are starting to teach the new recruits, which is great to see."

"We really focused on the macroinvertebrate testing (which involves studying insect larvae from a stream). We went through it step-by-step." The specific testing method

used is recommended by the Delaware River Basin Commission, so it fits in well with, and can readily contribute to, that agency's data base.

One thing that impresses Lori is the level of excitement she sees in the volunteers: "Enthusiasm is the key word here. The volunteers are very concerned with water quality. Often, the streams they adopt are right in their own backyards. And there is a real commitment—I think people will stick with it."

Lori continues, "New York Audubon Society's premise for all our programming is to promote 'individual stewardship of the land.' You can't just wait for somebody else to do something; you've got to be the one to do it. This Water Watch program fits right in with that philosophy."

The Upper Delaware Council continues to support the Friends of the Upper Delaware and volunteer water quality monitoring programs through grants and other forms of assistance.

Calendar of Upper Delaware Events

September 1993							October 1993							November 1993						
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2 UD	3	4						1	2		1	2	3	4 UD	5	6
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26	27	28 OP PR	29	30			24	25	26 OP PR	27	28	29	30	28	29	30				
							31													

Legend

- UD** Monthly Meeting, 7:30 pm, Tusten Town Hall, Narrowsburg, NY
- RM** Water Use/Resource Management Committee, 7:00 pm, Tusten Town Hall, Narrowsburg, NY
- OP** Operations Committee, 6:30 pm, UDC office, Bridge Street, Narrowsburg, NY
- PR** Project Review Committee, 7:00 pm, UDC office (Upon adjournment of the Operations Committee)

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