

RIVANNA RIVER STEWARDS

END OF THE YEAR REPORT

2016



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The Rivanna Conservation Alliance (RCA) is a 501(c)(3) nonprofit watershed organization created to provide the community with a set of tools and programs specifically designed to help clean and protect the Rivanna River and its tributaries.

The Rivanna River Steward program was launched in the Spring of 2014, with two Stewards, two boats and a significant amount of enthusiasm. The Stewards just completed the third program year and a summary of their findings and accomplishments, as well as future plans in the local community are contained within this report.



About the Rivanna River

The Rivanna Conservation Alliance (RCA) is completing its first year of programs, following the merger between The Rivanna Conservation Society (RCS) and Stream-Watch in January 2016. So this was the first year of the Stewards program

under the new organization, RCA. The Stewards program continued to function in the same capacity for RCA as it did with RCS previously.

RCA hosts events throughout each year for the Annual Rivanna River Makeover, has begun construction of an education center at its Scheier Natural Area in Fluvanna County and is in the process of upgrading and completing the Water Trail and Kiosk system at boat launches along the Rivanna. This is all in addition to the biennial Rivanna River Sojourns RCA hosts, the work of the River Stewards, and the River Guardians Volunteer Corps.

The Rivanna River is often referred to as "Mr. Jefferson's River" because Thomas Jefferson grew up on its shores and later built his Monticello home along its banks. Sharing Mr. Jefferson's appreciation for this historic River,

a group of Fluvanna County residents established The Rivanna Conservation Society (RCA) in 1990.

The Rivanna was named to honor Queen Anne (1665-1714), and is a tributary of the James River, flowing ultimately into the Chesapeake Bay. The Rivanna River is a 42.1-mile-long River originating in the Blue Ridge Mountains (North Fork in Greene County and South Fork in Albemarle County).

The Rivanna watershed is 766 square miles and 100,000+ people live in the watershed. Approximately 65% of the watershed is forested and is considered to be some of the healthiest small Piedmont streams in the mid-Atlantic region. Based on land use, StreamWatch estimates that 70% of Rivanna streams failed the Virginia aquatic health standard. However, only 5%-10% of streams are severely degraded.

The Rivanna River Watershed is polluted primarily by:

- Pathogens (E. coli)
- Sediment caused by erosion from development and rainwater runoff





Goals

The paddling season is from March through October, the two River Stewards, Dan Triman and Justin Altice, paddled the Rivanna River and local reservoirs, typically once a week, to monitor the Rivanna watershed and report on their findings. With winter approaching, the Stewards will be on hiatus until the Spring of 2017.

The goal of the River Steward program is to give The Rivanna Conservation Alliance (RCA) a presence on the River, to document pollution sources, interact with community members on and around the River, and to share information about the native flora and fauna. In our

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third year of the Stewards program we have already been able to reach a wide audience as well as document a significant amount of information about the Rivanna River and water conditions throughout the Rivanna watershed.

RCA is delighted by all that has been accomplished by the River Stewards and we expect that this program will be continually improving as experience is gained, community awareness of the program grows, and with greater on the water participation of the RCA River Guardians Corps.

Every time the Stewards go out for a paddle, they write a trip report that summarizes their findings. These reports are then emailed to our local partner organizations, as well as posted on RCA's website (<http://www.rivannaRiver.org/stewards-reports/>) for the general public to access.

Of great inspiration to the Stewards and to the Guardians is the natural beauty of the Rivanna River, which cannot be fully appreciated unless one actually is on the water. Over time our goal is to have more members of the community on the River so they too can experience this natural beauty located in their backyard. The Stewards have a personal goals to spread the word about what a hidden gem the Rivanna is and to inspire people to enjoy, as well as protect their local River.

Observations

The Rivanna River changes significantly in width, depth, and rapids, as well as the surrounding landscape nearby, depending on which section the Stewards are paddling. The characteristics of the Rivanna change as a result of the urban, rural and x-urban areas that the River passes through.

Generally, the Rivanna is, for the most part, healthy. This is largely due to the minimal amount of industrial activity in our area and the large number of forested acres. The Stewards did not notice significant odors, or significant water discolorations during this year's paddles. The River does suffer from strong urban runoff following rain events, resulting in noticeable discoloration from sediment and pollution. These events also wreak havoc on the few access points along the Rivanna River.

Water levels were generally good during the Spring, and early Summer. Around the middle to end of July, there was a significant drop in the amount of rainfall we got, resulting in lower water levels for the rest of the year. The water levels remained pretty low the majority of the time until the end of the year. There were a couple of smaller rain events that provided some

much needed bumps in the water levels, but they never increased by very much. There were many weeks that went by between August and October where paddling was very difficult on the Rivanna because of such low water levels. Low water levels can hinder the community's ability to get out on the water because paddling the Rivanna is very difficult during these times.

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River Sections Observed

This year, the Stewards were able to monitor the entire South Fork of the Rivanna, portions of the North Fork of the Rivanna, and the entire main stem of the Rivanna. The South Fork of the Rivanna starts in Albemarle County where the Mechums River ends (just above Reas Ford Rd), and the North Fork starts in Greene County at the confluence of the Lynch River and Roach River. The North and South Forks of the Rivanna meet one another to form the main stem of the Rivanna, a few miles north of Darden Towe Park. The main stem of the Rivanna then extends down to Columbia, where it meets the James River. In addition to the paddles on the Rivanna River, the Stewards also monitored local reservoirs, including Beaver Creek Reservoir, Ragged Mountain Reservoir, and the Rivanna Reservoir.

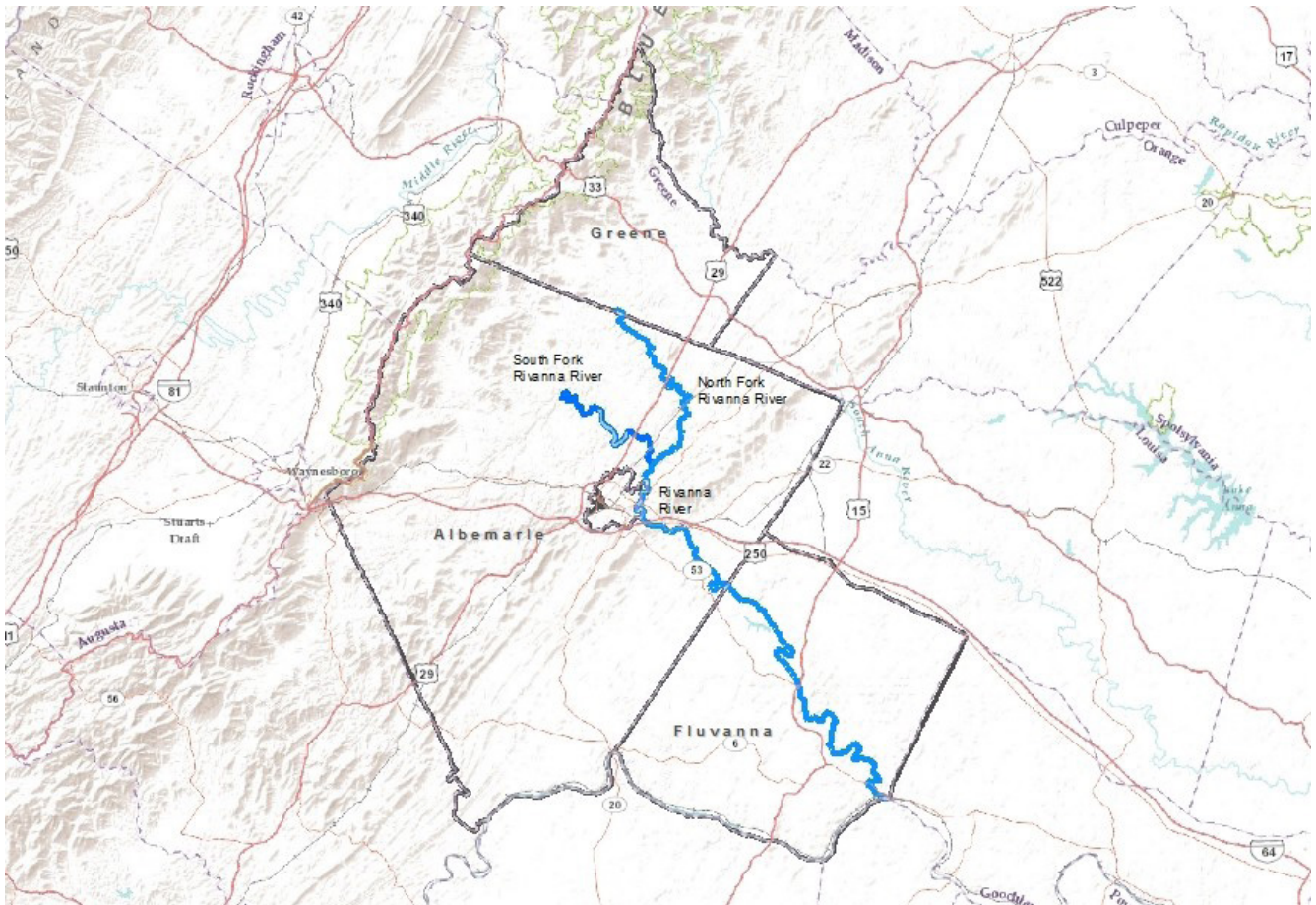
This year was the first year the Stewards were able to extend the areas of the River covered to include the North Fork of the Rivanna, as well as the Ragged Mountain Reservoir. The North Fork of the Rivanna is much more difficult to paddle than the South Fork due to the River being narrower and low water levels most of the year.

The table on the next page shows the sections of the Rivanna paddled by the Stewards, dates paddled, and, the length of each section. The total mileage from all the paddle trips the Stewards completed this year was approximately 115.5 River miles. The average mile on the water takes 20-30 minutes but that can vary greatly depending on how high the water levels are, the wind direction and force, as well as many other factors.

River Section	Starting Point	Ending Point	Section Mileage	Dates Paddled
Section 1	Mechums River Junction above Reas Ford Rd (South Fork)	Earlysville Rd (Reservoir)	3.5	04/08/16
Section 2	Earlysville Rd (Reservoir)	Rio Mills Dam (Reservoir)	1.5	06/03/16, 09/09/16, 09/17/16
Section 3	Rio Mills Dam (Reservoir)	Confluence South Fork and North Fork	3.5	05/07/16, 07/10/16
Section 4	Confluence South Fork and North Fork	Darden Towe Park	3.0	05/07/16, 07/10/16, 08/26/16
Section 5	Darden Towe Park	Free Bridge	0.6	03/27/16, 05/15/16, 06/15/16, 09/05/16, 10/26/16
Section 6	Free Bridge	Riverview Park	1.4	03/27/16, 05/15/16, 05/29/16, 06/15/16, 08/20/16, 09/05/16, 10/26/16
Section 7	Riverview Park	Milton Shadwell	4.3	04/02/16, 05/29/16, 07/15/16, 08/20/16
Section 9	Milton Shadwell	Crofton	10.0	06/22/16, 10/16/16
Section 9	Crofton	Palmyra	6.5	04/17/16, 04/24/16, 07/23/16
Section 10	Palmyra	Columbia	16.0	06/13/16 *(only 11 miles paddled from Palmyra to private residence)
Section 11	Beaver Creek Reservoir	Beaver Creek Reservoir	2 miles (round trip)	07/30/16
Section 12	Ragged Mountain Reservoir	Ragged Mountain Reservoir	2 miles (round trip)	06/13/16, 09/25/16
Section 13	Frays Mill Rd (North Fork)	Route 29 (North Fork)	3.0	08/10/16
Section 14	Proffit Rd (North Fork)	Confluence of South Fork and North Fork	2.0	08/26/16

Rivanna River Map

The map below provides a general context of where the Stewards paddled this year, and where the boat access locations are along the Rivanna River that were used this season. The map shows the South and North Forks of the Rivanna, as well as the main stem of the Rivanna once the two forks meet. From the map you can see that the Rivanna extends from Albemarle County (South Fork) and Greene County (North Fork) at the north, through Charlottesville, and then down to Fluvanna County at the southern terminus when it meets the James River.



Water Testing Summary

Chemical & Physical

Each paddle trip the Stewards completed, they took a basic water monitoring kit with them to record chemical and physical properties of the Rivanna River. All of the readings that were collected for temperature, turbidity, pH, and Dissolved Oxygen were within the expected range this year. There were a couple of pH readings that were higher than usual, measuring a 9, and some of the turbidity readings were fairly high (40-50 JTU) after large storms, as expected. A summary of the water testing data recorded for each paddle trip follows:



Date Tested	Location Test Performed	USGS Water Gauge Reading (ft)	Air Temp (°F)	Water Temp (°C)	DO (ppm)	PH	Turbidity (JTU)
06/15/16	38°01.4'N 78°27.2'W @ Riverview Boat Ramp River Right	Earlsville – 1.54 Palmyra – 3.20	75	26	5	8	10
06/22/16	37°55.1'N 78°17.9'W @ Crofton Boat Ramp River Left	Earlsville – 1.65 Palmyra – 3.40	80	24	5	8	10
07/10/16	38°02.7'N 78°26.9'W @ Lewis & Clark Center River Left	Earlsville – 1.40 Palmyra – 3.00	85	29	5	9	0
07/15/16	38°00.4'N 78°24.0'W @ Milton Rd Bridge River Left	Earlsville – 1.30 Palmyra – 2.95	90	30.5	4	8	0
07/23/16	37°51.5'N 78°16.0'W Palmyra Boat Ramp River Right	Earlsville – 1.25 Palmyra – 2.70	90	31	4	7	0
07/30/16	38°05'N 78°39.9'W Northwest Corner of Beaver Creek Reservoir	Earlsville – 1.14 Palmyra – 2.65	75	31	4	7	10
08/07/16	38°06.2'N 78°28.2'W Just above Rivanna Reservoir Dam Center of Reservoir	Earlsville – 1.40 Palmyra – 4.20	85	26.5	5	7	30
08/10/16	38°09.8'N 78°25.5'W @ Dickerson Rd Bridge River Left	Earlsville – 1.34 Palmyra – 3.27	85	24	4	7	10
08/20/16	38°00.4'N 78°24.0'W @ Free Bridge River Right	Earlsville – 1.22 Palmyra – 2.78	87	31	4	8	10
08/26/16	38°05.3'N 78°24.7'W @ Proffit Rd Bridge on the North Fork River Right	Earlsville – 1.11 Palmyra – 2.62	85	28	4	7	10
09/05/16	38°01.4'N 78°27.2'W @ Riverview Boat Ramp River Right	Earlsville – 1.01 Palmyra – 2.48	80	24.5	4	8	0

09/09/16	38°05.8'N 78°29.2'W @ UVA Boathouse Dock Reservoir Right	Earlysville – 1.04 Palmyra – 2.47	95	32	4	8	20
09/17/16	38°05.8'N 78°29.2'W @ UVA Boathouse Dock Reservoir Right	Earlysville – 0.88 Palmyra – 2.37	75	28	4	7	20
09/25/16	38°01.8'N 78°33.6'W Just Below Parking Area @ East Side of Ragged Mountain Reservoir	Earlysville – 0.94 Palmyra – 2.50	63	32	5	8	20
10/16/16	37°57.3' N 78°22.4' W @ Buck Island River Left	Earlysville – 1.24 Palmyra – 2.63	70	20	4	7	0
10/26/16	38°01.4'N 78°27.2'W @ Riverview Boat Ramp River Right	Earlysville – 1.21 Palmyra – 2.50	60	14	5	7	0



Flora and Fauna

On every Steward paddle this year, Justin and Dan were able to see a variety of wildlife on the Rivanna River. The wildlife came in many different forms and species, including small insects and bugs, birds, fish, reptiles, and some larger mammals. Having now had three years of the Steward program to paddle the Rivanna and get familiar with where wildlife tends to be seen and at what times of day, the



Stewards have noticed some patterns. Examples of this are seeing bald eagles (and their nest) in the same location, seeing schools of long nose gar in the same locations, finding specific islands where turtles tend to gather, and noticing that when paddling around twilight the wildlife sightings tend to be the most common. This implies that these animals live in specific areas and are finding these locations

suitable for their needs. The most common wildlife observed every year on the Rivanna are turtles, birds and fish.

During the paddles the Stewards observed the following wildlife:

BIRDS - Great Blue Herons, Green Herons, Bald Eagles, Ospreys, Hawks, Crows, Geese, Ducks, Bluebirds, Robins, Cardinals, Kingfishers, Cormorants, Tree Swallows, Vultures, Woodpecker, and several other smaller birds.

INSECTS AND BUGS - Spiders, Dragonflies, Damselflies, Bees, Wasps, Butterflies, Water Striders, Ladybugs

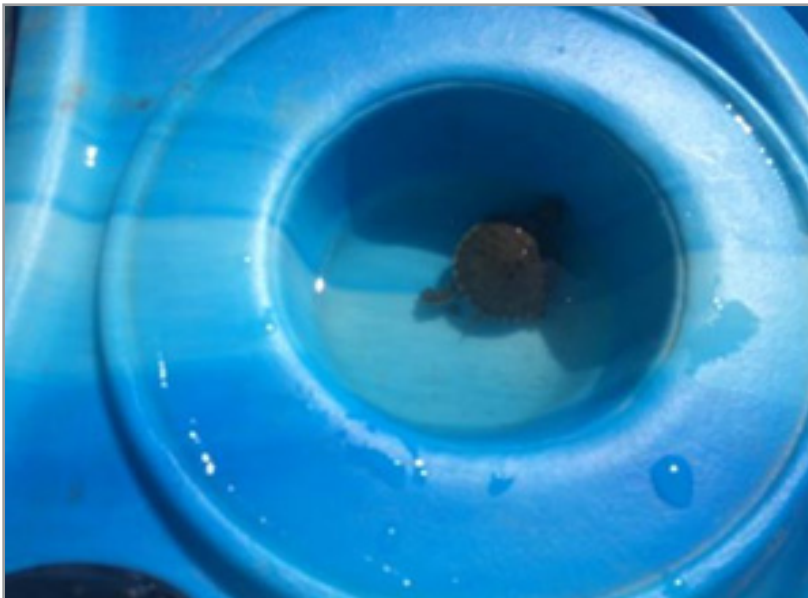
REPTILES AND AMPHIBIANS - Frogs, Toads, Eastern Painted Turtles, Snapping Turtle

FISH - Long Nose Gar, Bass, Catfish, and several other smaller minnows

MAMMALS - Beaver, Otter, Deer, Squirrel

OTHER - Mussel Shells (in Beaver Creek Reservoir)

One of the best moments of this year's Stewards program occurred on May 7, 2016 when the



Stewards paddled from Rio Mills to Darden Towe Park. The water was high on that day and the River was flowing very fast. A few miles from Darden Towe Park, the Stewards spotted a baby turtle caught in a fast moving rapid that was struggling to stay afloat. So they took the baby turtle on board in one of their kayaks, and paddled it down to Darden Towe Park, where it was safely released at the edge of the Rivanna River.

As for vegetation, there is a wide range of vegetation to be found in and around the Rivanna River. Some of this vegetation is native species and others are invasive species. A few of the plants that were identified during the paddles included redbuds, bamboo, mimosa, cardinal flowers, and mountain laurel. There was also a significant amount of underwater growth of vegetation in the Rivanna and Reservoirs found this year.

The vegetation is especially important to keep the River banks from eroding away. It is always nice

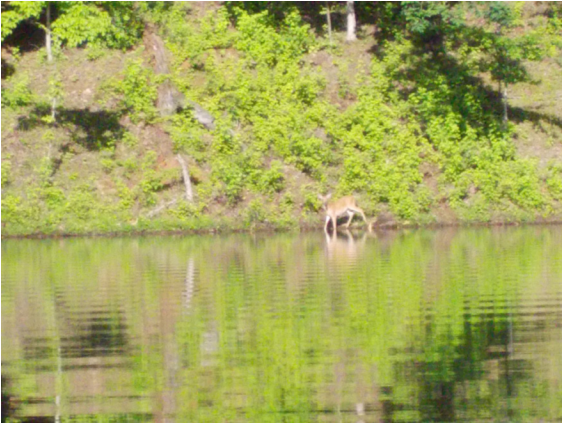
to see the seasonal changes in the vegetation along the Rivanna, as the environment surrounding you when you paddle in various seasons looks vastly different depending on what time of year you are on the River.

Throughout this section and below are photo highlights of wildlife and vegetation observed this year



by the Stewards. The photos show the Rivanna is fairly healthy and is providing sufficient habitat for the living organisms that depend on the River. The Stewards are looking forward to being back on the water in the Spring to observe, document and share the beauty of the Rivanna River and its tributaries with local governments leaders, the RCA Board of Directors and members and the public at large.





Partnerships & Community Outreach

One of the most important aspects of the work being done by RCA and the Stewards is engaging the general public in our efforts to maintain a healthy Rivanna Watershed, as well as partner with



other groups and organizations to have a greater impact. They frequently came across people using the River for fishing, swimming, kayaking, canoeing, motor boating, tubing, and rowing. The Stewards also saw a lot of people hiking, or running along the Rivanna Trails that parallel the River near the City of Charlottesville.

The Stewards continued RCA's partnerships with numerous local groups this year. These organizations included The Lewis and Clark Exploratory Center, The Rivanna River Company, Big Brothers Big Sisters of the Central Blue Ridge, and the UVA Batten School. We held our bi-annual Sojourn paddle trips where we invited the public to come out and enjoy a paddle trip with us. For the Sojourns, in April, we paddled from Crofton to Palmyra, and in October we paddled from Milton to Crofton. In total between the 2 Sojourns we were able to get about 60 people out on the River in kayaks and canoes. In addition we took a group of 12 people from the Virginia Conservation Network conference on a paddle of the Rivanna Reservoir in September.

We also helped to hold a River safety workshop at the The Lewis and Clark Exploratory Center in

April, where the public was invited to come for a free event that provided information about how to stay safe on the Rivanna, and what to do if you ever needed a water rescue. The River Stewards also assisted with the RCA effort to place 911 River safety signs around the area at highly visible locations along the Rivanna.

The Stewards were also able to provide opportunities for educational paddle trips for children and students this year. Among them was a paddle trip on the Rivanna Reservoir with Big Brothers Big Sisters of the Central Blue Ridge (group of 6 elementary school students and their adult matches). RCA



also held several volunteer clean up events in partnership with the UVA Batten School where students and staff came out to Riverview Park and helped clean up the kiosk, and repair the boat launch steps. Cleanups and educational activities were held with several local girl scout troops as well. These opportunities allow Stewards to share their knowledge about the local watershed and how daily actions affect water quality.

RCA also has been working with the City of Charlottesville and Albemarle County to improve River access points in the area. This included building new stairs down to the River at Riverview Park, and current discussions about a new access point at Free Bridge. RCA and the River Stewards are also always working on building relationships with the River Guardians, the community volunteers who monitor sections of the River for RCA.



Litter / Pollution / Safety Concerns

While the amount of litter and pollution in the Rivanna has been reduced since we began the Stewards program, it still does remain something that needs attention. Several people have mentioned they



have been impressed with how clean the Rivanna has looked recently since the implementation of the River Stewards program. On every paddle the Stewards complete, they perform clean-up of litter and other objects that are not intended to be in the water. The Stewards noticed that after heavy rains, the amount of trash in the River was significantly higher, which makes sense due to the heavy stormwater

volumes washing the trash into the water. Trees that came down during storms and get lodged in the River also tend to collect debris and trash to prevent it from flowing downstream any further. More urban areas near Charlottesville seemed to have a higher volume of litter and trash than more rural areas upstream or downstream. The Stewards also found that areas where people were fishing or hanging out along the River banks, on beaches, and under bridges tended to have a higher concentration of litter as well.

The majority of the trash that was found in the River was smaller items such as beverage containers (plastic, glass, and metal), plastic bags, food trash, fishing bait boxes, Styrofoam, and sporting equipment (balls, Frisbee, boogie board, canoe paddle, inner tube). But there also were a wide variety

of larger items found in and around the River as well, such as a Construction Cone in the Rivanna Reservoir, a piece of a car near Darden Towe Park, a broken canoe and piece of farm equipment between Milton and Crofton, sandbags from 29 pipe Construction project, a kid's playground slide between Riverview and Milton, a wheelbarrow and kid's bicycle near Darden Towe, a cylindrical tank / container on the North Fork, hay bales near Crofton, a milk crate, and a hubcap.

One of the biggest issues the Stewards continue to come across is tires in the Rivanna. Most of these tires were buried in the Riverbed and have been there a long time. Despite previous efforts



by the Stewards to remove the buried tires in the Rivanna, it is estimated that there are still probably on the order of 100 tires needing to be removed. Most tires are standard vehicle sized, but several are larger truck sized tires. Four (4) tires were removed from near Milton in July, one (1) tire was removed from Beaver Creek Reservoir in July, one (1) tire was removed from near Riverview in August, and three (3) tires were removed from the North Fork

just above the confluence with the South Fork in August. So in total, the Stewards removed 9 tires from the Rivanna River this year.

In all the Stewards estimate that they removed about 25 large trash bags worth of trash from the Rivanna from the River this year.

In addition to trash, sediment and pollution from runoff, downed trees, bacteria from dead animals, and any other safety concerns are all monitored by the Stewards. The Stewards helped to notify local authorities on several occasions of issues and concerns identified during paddle trips.

Some of these included:

Sediment build up on the Darden Towe Boat Ramp, safety concerns about the existing Riverview Park boat access stairs, a pipe hanging out of the water just below Darden Towe Park, reporting dead fish sightings in the Rivanna Reservoir and Ragged Mountain Reservoir, the degrading condition of the Woodlands Rd boat access road on the Rivanna Reservoir, erosion issues at the Milton boat access stairs, several dead animals found in the River, eroded stream banks, downed trees blocking the River, algae found in the Reservoirs, people illegally swimming in the Reservoirs, and a report of a heavily polluted and trashed area just below the Rivanna Reservoir Dam near Schroder Branch.

The Stewards investigated the pollution near Schroder Branch with a site visit to the area. It became quickly apparent that this area was heavily polluted with piles of tires found, mattresses, and lots of trash. A report was put together with pictures of the pollution found and a map showing the exact location of the pollution and the private landowners of the sites. This report was shared with Albemarle



County officials who reported they would be reaching out to the landowners for a dumping zoning violation and an order to clean up the area.

The Stewards also have been keeping an eye on the new bridge construction project as part of the Berkmar extension road development, which is occurring just below the Rivanna Reservoir Dam.

The Stewards also followed up on several reports we received from the

public on things like missing boats on the River, trees down on the River that could be considered “strainers” and cause safety concerns, and highly visible pollution and trash areas.

Throughout this section and on the subsequent page is some photos of trash found during the Steward paddle trips this year to give a sense of the types of materials typically found in and around the Rivanna.





Issues to Address

Throughout the regular paddle trips on the Rivanna, the Stewards noted several areas that need future attention to make sure that the health of the River and the organisms that live in it and depend on it are maintained. Overall, as mentioned above, the River is generally in good shape, and none of the items below is extremely critical or urgent. These items are just ones that RCA thinks could improve the overall experience for people using the Rivanna River, as well as remove items that may cause any harm.

Below is some information about some of the most critical areas of concern that the Stewards hope to address in the future.

ISSUE #1: Improved boat access points for the Rivanna River, along with improved signage at boat take out and put in locations.

The Stewards have noticed that the Rivanna River could greatly benefit from some improvements being made to the existing boat access points, as well as improving the signage that is available to let paddlers know where the take

out locations are on the River. While some of the existing boat access locations are in good shape, there are several that are in need of some work and improvements.

Earlier this year, the River Stewards worked with The Rivanna River Company, the City of Charlottesville, and several volunteer groups from UVA to install a new set of stairs and a boardwalk to the Rivanna at Riverview Park. The original access point had been washed out by the River and began to become unsafe to use. A new access point was identified by River Stewards and the RRC and discussions with the City to develop a plan lead to the constructed project.

The River Stewards are also currently in discussions and planning with The Rivanna River Company, and the City of Charlottesville to investigate the potential for a new boat access location at Free Bridge. This project is currently in the design stage and construction is scheduled to begin in early spring.

Other locations that the Stewards have noted

require some attention include the erosion issues at the Milton boat access point, and the degrading of the road at the Woodlands Road boat access point on the Rivanna Reservoir.

It can be fairly difficult to find or see some of the take out locations on the River, and there is little to no signage for people to indicate where these

locations are. It also makes it look like the River is being taken care of and cared about by somebody if nice signage is present. RCA would like to work with The City of Charlottesville and Albemarle County to create and install some better signage at each of the boat launch / take out locations on the Rivanna River. In general more access points and an increased level of maintenance of existing

access points would increase the community's interaction with the Rivanna River.

It should be noted that any signage being installed should be well thought out, so that it doesn't end up washing away during storms and creating further trash and pollution issues.

ISSUE #2: Remove the larger objects found in the River

There are several large items requiring removal from the Rivanna. They require heavy equipment to remove. Examples are tires, metal objects, and construction debris. RCA will need the assistance of the City and County for these efforts. Details about when to do the removal (during low water levels), what equipment we need, and disposal locations needs to be worked out. The Stewards



locations are. Recently, several new signs have shown up at some of the boat take out locations on the Rivanna River, but there is still a lot of room for improvement. The Stewards feel that better signage or another form of indication where boat ramps are located might help paddlers on the River not miss their take out locations.

have GPS coordinates of some items, like tires, already, and will continue noting other locations in the coming years. Specific items that require attention are noted in the report above and photos are also provided.

ISSUE #3: Pipe discharges

The Stewards have noticed numerous pipe (point source) discharges into the Rivanna River during their paddles. Generally there are no issues noticed at these locations as far as pollution coming out of the pipes. The Stewards have noted several pipes that don't seem to be working properly any more as pieces of them are floating in the River, or they have come out of the ground where they were once buried. So far response to these issues has been timely by the local authorities, but keeping an eye on these point source potential pollution sources is an ongoing effort.

An inventory of all current pipe outfalls locations could be helpful so that any future pipes installed could be identified and checked for validity as well as a check of existing outfalls could be verified.

ISSUE #4: Erosion of River banks



On several paddle trips and in several locations this year the Stewards have noticed areas where the River banks have eroded away and vegetation has been washed away. It appears that some of these locations have been experiencing erosion for quite some time, but others may have occurred more recently during some of the very heavy storms we experienced this year. These heavy storms also deposited a good amount of fallen trees and other debris in the River in various locations. There are several bridge overpasses where a significant amount of debris has accumulated. RCA plans to see if a few specific areas along the Rivanna can be targeted where it would be possible to implement some re-vegetation and bank stabilization projects to try to avoid further damage to the River banks. RCA will look to partner with the government agencies and other organizations for these efforts.

ISSUE #5: Close the loop between reported issues on the River and results

On many occasions throughout the year the Stewards find issues needing to be addressed by various local agencies or government officials. While the communication channel is setup so that the information can be conveyed to the proper official to initiate a response to an issue, a feedback loop needs to be created so that actions resulting in a resolution of the reported issue can also be reported back to the Stewards. This allows for a mechanism to know that an issue is actual being addressed so that information can be conveyed to the community.

ISSUE #6 Increase the number of paddles and segments of the River and creeks being covered

Every year the Stewards desire to increase the frequency of their paddles to allow for more areas to be covered as well as an increased opportunity to take community members along .



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