

**Appendix A**  
**Single Flow Surveys**

**A1 – Paddling Survey for Bridgewater, Wylie, Wateree Sections**

**A2 – Angling Survey for Bridgewater**

**A3 –Paddling Survey for Great Falls Short and Long Channels**

<b>Name:</b>
<b>Date:</b>
<b>Flow Release:</b>

**Catawba River Paddling Flow Study  
Single Flow Survey for Bridgewater, Wylie, Wateree  
Paddling Single Flow Evaluation Survey**

**Craft Used:** (circle)      OC1      OC2      K1Touring      K1Recreation      Raft      Other:  
**Skill Level:** (circle)      Novice      Intermediate      Advanced

Please answer each of the following questions based on your own experience or reaction to the river at this flow. If you have no opinion about a particular item, please write "NA". Please do not discuss the questions with other study team participants until finishing the survey.

1. Rate this flow or water level with regard to the following characteristics. For each one that you rate as "Totally Unacceptable" or "Unacceptable", indicate whether the flow was "Too High" or "Too Low". Check one value for each characteristic.

Characteristic	Totally Unacceptable -2	Unacceptable -1	Neutral 0	Acceptable +1	Totally Acceptable +2	Water Too High	Water Too Low
Navigability							
Overall velocity/current speed							
Aesthetic quality of river							
Safety							
Interesting river surroundings							
Time for Run							
River "play areas"							
Ease of access at put-in							
Ease of access at take-out							
Other:							

**2. Please estimate the number of hits, stops, drags and portages you had on this run.**

I hit rocks/obstacles (but did not stop)\_\_\_\_\_times.

I was stopped (but did not get out of boat) after hitting rocks/obstacles about \_\_\_\_\_times.

I had to get out to drag boat off rocks/obstacles about \_\_\_\_\_times

I had to portage around rocks/obstacles/rapids about \_\_\_\_\_times.

**3. How many times would you be willing to experience each of the above experiences on this section of river before your trip is negatively impacted?**

I would accept \_\_\_\_\_hits on this section.

I would accept \_\_\_\_\_stops on this section.

I would accept \_\_\_\_\_drags on this section.

I would accept \_\_\_\_\_portages on this section.

**4. Please rate the suitability of this flow for novice, intermediate, and advanced paddlers. Assume they all desired to be on this river section. If you used a rating of “Totally Unacceptable” or “Unacceptable”, then indicate whether the flow was “too high”, “too low”, or “NA”.**

<b>Rating / Skill Level</b>	<b>Novice</b>	<b>Intermediate</b>	<b>Advanced</b>
Totally Unacceptable (-2)			
Unacceptable (-1)			
Neutral (0)			
Acceptable (+1)			
Totally Acceptable (+2)			
Water too high			
Water too low			

**5. What were the three primary advantages of this flow level? Use “1” for the greatest advantage, “2” for next greatest, and “3” for third biggest advantage. (circle only three choices)**

- Easy to maneuver through shoals ( )
- Current speed just right for this river ( )
- High aesthetic quality ( )
- Interesting river surroundings ( )
- Time for run just right ( )
- Some good places to play in current ( )
- A positive challenge ( )
- Easy to move boat to desired spots ( )
- Other ( )

6. **What were the three primary disadvantages of this flow level? Use “1”, the greatest disadvantage, “2” next greatest, and “3” for third greatest disadvantage. (select only three choices)**

Shoals had too many rocks	( )
Current speed too slow or too fast	( )
Low aesthetic quality	( )
Dull and uninteresting river surroundings	( )
Low aesthetic quality	( )
Time for run too long or too short	( )
Few places to play in current	( )
A negative challenge	( )
Hard to move boat to desired spots	( )
Other:	( )

7. **How would you rate the overall paddling experience at this flow? (circle one rating)**

Totally Unacceptable	-2
Unacceptable	-1
Neutral	0
Acceptable	+1
Totally Acceptable	+2

8. **Compared to this flow level would you prefer a level that was higher, lower, or about the same? (circle one rating)**

Much Lower	1
Lower	2
No Change	3
Higher	4
Much Higher	5

9. **Assuming you wanted to paddle this type of river, given the opportunity to paddle here again, at the same flow level, would you choose to return? (circle one)**

1. I would definitely make a point of paddling here at this flow
2. I would probably paddle here at this flow
3. It would be a toss-up between this and other similar options, if available
4. I would paddle here at this flow only if I really wanted to paddle and other similar options were not available
5. I would not return at this flow

Briefly explain why?

10. **Did you observe any specific safety hazards at this flow? If so, please describe them below.**

11. **Additional Comments**

**Thanks for your participation!**

<b>Name:</b>
<b>Date:</b>
<b>Flow Release:</b>

**Catawba River Angling Flow Study  
Bridgewater Access to Watermill Road Access  
Angling Single Flow Evaluation Survey**

**Gear Type:** *(circle)*      **Bait**      **Fly**      **Spin/Lure**  
**Skill Level:** *(circle)*      **Novice**      **Intermediate**      **Advanced**  
**Indicate:** *(circle)*      **Bank**      **Wade**      **Drift Boat**      **Canoe**      **Kayak**

Please answer each of the following questions based on your own experience or reaction to the river at this flow. If you have no opinion about a particular item, please write "NA". Please do not discuss the questions with other study team participants until finishing the survey.

1. **Rate this flow or water level with regard to the following characteristics. For each one that you rate as "Totally Unacceptable" or "Unacceptable", indicate whether the flow was "Too High" or "Too Low". Check one value for each characteristic.**

<b>Characteristic</b>	<b>Totally Unacceptable -2</b>	<b>Unacceptable -1</b>	<b>Neutral 0</b>	<b>Acceptable +1</b>	<b>Totally Acceptable +2</b>	<b>Water Too High</b>	<b>Water Too Low</b>
Ease of walking shoreline/bank							
Number of quality fishing spots							
Ease of walking stream channel							
Ease of casting							
Aesthetic quality of river							
Visibility of fish							
Ease of landing fish							
Challenge/Interesting areas to fish							
Ease of moving boat to desired area							
Ease of moving boat through shoals							
Overall velocity or current speed							
Ease of access at put-in							
Ease of access at take-out							

**2. If boat fishing, please estimate the number of hits, stops, drags and portages you had on this run.**

I hit rocks/obstacles (but did not stop)\_\_\_\_\_times.

I was stopped (but did not get out of boat) after hitting rocks/obstacles about\_\_\_\_\_times.

I had to get out to drag boat off rocks/obstacles about\_\_\_\_\_times

I had to portage around rocks/obstacles/rapids about\_\_\_\_\_times.

**3. How many times would you be willing to experience each of the above experiences on this section of river before your trip is negatively impacted?**

I would accept\_\_\_\_\_hits on this section.

I would accept\_\_\_\_\_stops on this section.

I would accept\_\_\_\_\_drags on this section.

I would accept\_\_\_\_\_portages on this section.

**4. Please rate the suitability of this flow for novice, intermediate, and advanced anglers. If you used a rating of “Totally Unacceptable” or “Unacceptable”, then indicate whether the flow was “too high”, “too low”, or “NA”.**

<b>Rating / Skill Level</b>	<b>Novice</b>	<b>Intermediate</b>	<b>Advanced</b>
Totally Unacceptable (-2)			
Unacceptable (-1)			
Neutral (0)			
Acceptable (+1)			
Totally Acceptable (+2)			
Water too high			
Water too low			

**5. What were the three primary advantages of this flow level? Use “1”, “2”, “3” to indicate priority with “1” being the biggest advantage.**

Easy to walk shoreline/bank ( )

Lots of quality fishing spots ( )

Easy to walk in river channel ( )

Easy to cast ( )

High aesthetic quality ( )

Easy to spot fish ( )

Easy to land fish ( )

A positive challenge ( )

Easy to move boat to desired spots ( )

Easy to maneuver through shoals ( )

Current speed good for fishing ( )

6. **What were the three primary disadvantages of this flow level? Use “1”, “2”, “3” to indicate priority with “1” being the biggest disadvantage.**

Hard to walk shoreline/bank	( )
Few quality fishing spots	( )
Difficult to walk in river channel	( )
Difficult to cast	( )
Low aesthetic quality	( )
Difficult to spot fish	( )
Difficult to land fish	( )
A negative challenge	( )
Hard to move boat to desired spots	( )
Shoals had too many rocks	( )
Current speed too slow or too fast	( )

7. **How would you rate the overall angling experience at this flow? (circle one rating)**

Totally Unacceptable	-2
Unacceptable	-1
Neutral	0
Acceptable	+1
Totally Acceptable	+2

8. **Compared to this flow level would you prefer a level that was higher, lower, or about the same? (circle one rating)**

Much Lower	1
Lower	2
No Change	3
Higher	4
Much Higher	5

9. **Given the opportunity to fish here again, at the same flow level, would you choose to return?**

Yes ( ) or No ( )      Briefly explain why?

10. **Did you observe any specific safety hazards at this flow? If so, please describe them below.**

11. **Additional Comments**

**Thanks for your participation!**

## Single Flow Evaluation Form

### *Great Falls Bypass*

### *Whitewater Controlled Flow Study*

**Name:**

*Circle One:*  
**Long Channel                      Short Channel**

*Circle One:*  
**Flow Release: Sat AM              Sat PM**

**Sun AM              Sun PM**

**Craft Used:** *(circle)*              **K1Rodeo/Play    K1RiverRecreation    K1Creek    OC1    OC2    C1    C2    Other:**

**Skill Level:** *(circle)*              **Novice              Intermediate              Advanced              Expert**

Please answer each of the following questions based on your own experience or reaction to the river at this flow. If you have no opinion about a particular item, please write "NA". Please do not discuss the questions with other study team participants until finishing the survey.

1. **Rate this flow or water level with regard to the following characteristics.** For each one that you rate as "Totally Unacceptable" or "Unacceptable", indicate whether the flow was "Too High" or "Too Low" if it was flow related. **Circle one value for each characteristic.**

Characteristic	Totally Unacceptable -2	Unacceptable -1	Neutral 0	Acceptable +1	Totally Acceptable +2	Water Too High	Water Too Low
<b>Navigability</b> <i>(how passable is the river channel with your boat and skill level)</i>							
<b>Technical Boating Opportunities</b> <i>(quality/quantity of times you can use your technical skills while running the river)</i>							
<b>Size of Hydraulics and Waves</b>							
<b>Whitewater "Play" Areas</b> <i>(quality &amp; quantity of places you can practice various technical skills more than once)</i>							
<b>Size/Difficulty of Rapids</b>							
<b>Overall Whitewater Challenge</b>							
<b>Safety</b>							
<b>Aesthetics</b>							
<b>Length of Run</b>							
<b>Overall Rating</b>							
<b>Other:</b>							

**2. Please estimate the number of hits, stops, drags and portages you had on this run.**

I hit rocks/obstacles (but did not stop)\_\_\_\_\_times.

I was stopped (but did not get out of boat) after hitting rocks/obstacles about \_\_\_\_\_times.

I had to get out to drag boat off rocks/obstacles about \_\_\_\_\_times

I had to portage around rocks/obstacles/rapids about \_\_\_\_\_times.

**3. How many times would you be willing to experience each of the above experiences on this section of river before your trip is negatively impacted?**

I would accept \_\_\_\_\_hits on this section.

I would accept \_\_\_\_\_stops on this section.

I would accept \_\_\_\_\_drags on this section.

I would accept \_\_\_\_\_portages on this section.

**4. At this test flow, under current channel conditions, how would you rate the whitewater difficulty of the river? (Use the International Whitewater Scale that ranges from Class I to Class VI).**

**Class:    I        II        III        IV        V        VI**

**5. At this test flow, under current channel conditions, what skill level would a paddler need to safely paddle this section?**

**Novice**

**Intermediate**

**Advanced**

**Expert**

**6. Relative to this flow, would you consider the minimal acceptable flow (defined as the lowest flow you would return to paddle) to be higher, lower, or about the same? (Circle one rating)**

Much Lower                    1

Lower                            2

No Change                      3

Higher                          4

Much Higher                   5

**7. Relative to this flow, would you consider the optimum flow (defined as the ideal flow you would return to paddle) to be higher, lower, or about the same? (Circle one rating)**

Much Lower                    1

Lower                            2

No Change                      3

Higher                          4

Much Higher                   5

8. If **THIS** test flow were provided periodically, would you return for future boating?  
(Circle one)

I would definitely paddle here again at this flow	1
I would probably paddle here again at this flow	2
It would be a toss up between this and similar river options at this flow	3
I would paddle here again only if other similar options were not available	4
I would not return here to paddle at this flow	5

9. Did you have any significant problems during your run (e.g., become pinned, wrapped a boat, took a bad swim, etc). Please provide a brief description of the incident and the approximate location below.

10. Please provide any additional comments you would like to make about your experience of this flow level.

**Thanks for your participation!**