

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21/14, 2014

Name: Jim Dowd

1. Watercraft used (Circle appropriate one):

☒ Hard shell kayak

☐ Inflatable kayak

☐ OC1

☐ OC2

☐ C1

Sunday + Monday

☐ Stand up paddle board

☐ C2

☐ Raft

☐ Cataract

☐ Other (describe):

Oar Rieged Hydco  
Paddle cat raft  
on Saturday

2. Your whitewater boating skill level (Circle one):

☐ Beginner

☐ Novice

☐ Intermediate

☒ Advanced

☐ Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

☐ 0 times

☐ 1-5 times

☒ 6-10 times

☐ 11-20 times

☐ >20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/21/14	10000	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

8000 cfs

10000 cfs

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500			✓		
2	2500			✓		
3	3000			✓		
4	2000				✓	
5	10000					✓
6	15000			✓		

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive					✗
Other rivers in Massachusetts					✓
Other rivers in the northeast				✓	
Other rivers in the country			✗		

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsom to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	3	3	3	3	1	3	3	3	3	3	3	
Suitable for intermediate boater	2	2	1	2	2	2	2	2	2	2	2	
Suitable for advanced boater	2	2	2	2	2	2	2	2	2	2	2	
Size & difficulty of features	3	3	2	3	3	3	3	3	3	3	3	
Play boating	3	3	3	3	3	3	3	3	3	3	3	
Rafting	3	3	3	3	2	3	3	3	3	3	3	
Tubing	0	0	0	0	1	0	0	0	0	0	0	
Canoeing	2	2	0	0	2	0	2	2	2	0	0	
Kayaking	2	2	2	2	2	2	2	2	2	2	2	
Eddy hopping	2	2	2	2	2	2	2	2	2	2	2	
Technical maneuvering	2	2	1	2	2	1	1	2	1	1	2	
River gradient	1	2	1	2	2	1	1	1	2	1	2	
Driving distance to river	3	3	3	3	2	3	3	3	2	3	3	
Shuttles	2	2	2	2	2	2	2	2	2	2	2	
Access to river	1	1	1	1	1	1	1	1	1	1	1	
Parking	2	2	2	2	2	2	2	2	2	2	2	
Scenery	1	3	1	1	1	1	2	1	2	1	2	
Water quality	1	3	1	1	1	1	2	1	3	1	2	
Overall	2	3	1	1	1	1	2	1	2	1	2	

#### 11. Any other comments?

The Take-Out is horrible for rafts and heavy boats. Please obtain "Right of way" to River left shore for take-out access. This was possible in the past and hopefully could be arranged. Without a winch raft take out would be extremely difficult and potentially dangerous

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/19, 2014  
Name: Scott Kallman

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
2:50	2500	-2	-1	0	1	2
	2000	-2	-1	0	1	2
	5000	-2	-1	0	1	2
	8000	-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

- From a recreational perspective what is the **minimum acceptable flow** for this run? Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

8000 Flow (cfs)

3000

8000

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	250					
2	300					
3	500					
4	800					✓
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		✓			
Other rivers in Massachusetts					
Other rivers in the northeast	✓				
Other rivers in the country	✓				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	2	1								
Suitable for intermediate boater	4			2								
Suitable for advanced boater				1								
Size & difficulty of features				1								
Play boating	4											
Rafting												
Tubing												
Canoeing												
Kayaking												
Eddy hopping												
Technical maneuvering												
River gradient												
Driving distance to river												
Shuttles												
Access to river												
Parking												
Scenery												
Water quality												
Overall												

11. Any other comments?

8600 PLOS  
Sumf City

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7.20, 2014

Name: Tracey Kallman

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataract

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study?  
(Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7.19.14	3500	-2	-1	0	1	2
7.19.14	5000	-2	-1	0	1	2
7.20.14	8000	-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

35008000

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	3500				✓	
2	5000					✓
3	8000					✓
4						
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		✓			
Other rivers in Massachusetts					
Other rivers in the northeast		✓			
Other rivers in the country					

no experience

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river

*no for all*

	Westfield, N. Branch – all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsom to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater												
Suitable for intermediate boater												
Suitable for advanced boater												
Size & difficulty of features												
Play boating												
Rafting												
Tubing												
Canoeing												
Kayaking												
Eddy hopping												
Technical maneuvering												
River gradient												
Driving distance to river												
Shuttles												
Access to river												
Parking												
Scenery												
Water quality												
Overall												

11. Any other comments?

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project-FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21, 2014

Name: Zach Peterson

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataract

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/71	16,000	-2	-1	0	1	2
7/24	13,000	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run? Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

3,000  
3,000

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1						
2						
3						
4						
5	16,000				✓	
6	13,000				✓	

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive			✓		
Other rivers in Massachusetts			✓		
Other rivers in the northeast		✓			
Other rivers in the country	✓				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut  
 2 = Similar to the Turners Falls bypass section of the Connecticut  
 3 = Less desirable than the Turners Falls bypass section of the Connecticut  
 4 = No experience boating the river

	Westfield, N. Branch – all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater					3							
Suitable for intermediate boater					3							
Suitable for advanced boater					3							
Size & difficulty of features					3							
Play boating					3							
Rafting					3							
Tubing					4							
Canoeing					4							
Kayaking					4							
Eddy hopping					2							
Technical maneuvering					1							
River gradient					3							
Driving distance to river					2							
Shuttles					3							
Access to river					3							
Parking					2							
Scenery					1							
Water quality					1							
Overall					47							

11. Any other comments?

I had A Blast

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21/, 2014

Name: Matt Gervasio

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Catacraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/15 9-11	2500	-2	-1	0	1	2
7/15 1-3	3500	-2	-1	0	1	2
7/21 9-11	10000	-2	-1	0	1	2
7/21 1-3	13000	-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

⑤ 5000

⑤ 10,000

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500	X				
2	3500		X			
3						
4						
5	10000				X	
6	12000					X

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive					X
Other rivers in Massachusetts					X
Other rivers in the northeast			X		
Other rivers in the country			X		

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut  
 2 = Similar to the Turners Falls bypass section of the Connecticut  
 3 = Less desirable than the Turners Falls bypass section of the Connecticut  
 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsun to Shaw's Corner	Deerfield, E. Branch, Somers to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater						4		5			4	
Suitable for intermediate boater						4		4			4	
Suitable for advanced boater						4		4			4	
Size & difficulty of features						4		4			4	
Play boating						4		4			4	
Rafting						4		4			4	
Tubing						4		4			4	
Canoeing						4		4			4	
Kayaking						4		4			4	
Eddy hopping						4		4			4	
Technical maneuvering						4		4			4	
River gradient						4		4			4	
Driving distance to river						4		4			4	
Shuttles						4		4			4	
Access to river						4		4			4	
Parking						4		4			4	
Scenery						4		4			4	
Water quality						4		4			4	
Overall						4		4			4	

11. Any other comments?

Conn R. is big water -  
 its not like the other rivers!!

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/20, 2014  
Name: PATRICK WYMAN

1. Watercraft used (Circle appropriate one):

<input checked="" type="radio"/> Hard shell kayak	Stand up paddle board
<input type="radio"/> Inflatable kayak	C2
<input type="radio"/> OC1	Raft
<input checked="" type="radio"/> OC2	<input checked="" type="radio"/> Cataract
<input type="radio"/> C1	Other (describe): _____

2. Your whitewater boating skill level (Circle one):

<input type="radio"/> Beginner	<input checked="" type="radio"/> Advanced
<input type="radio"/> Novice	<input type="radio"/> Expert
<input type="radio"/> Intermediate	

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

☒ 0 times      1-5 times      6-10 times      11-20 times      >20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
	2500	-2	-1	0	1	2
	3500	-2	-1	0	1	2
	5000	-2	-1	0	1	2
	8000	-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

5000

- From your perspective, what is the **optimum flow** for this run?

8000

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500	<del>✓</del>				✓
2	3300	<del>✓</del>				✓
3	5000	<del>✓</del>				✓
4	8000					✓
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		✓			
Other rivers in Massachusetts		✓			
Other rivers in the northeast		✓			
Other rivers in the country		✓			

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	<del>4</del>	3	1	4	1	<del>4</del>	1	1	3	2	2	4
Suitable for intermediate boater	<del>4</del>	3	1	4	1	<del>4</del>	1	1	3	2	2	4
Suitable for advanced boater	4	1	1	4	1	4	1	2	1	2	1	4
Size & difficulty of features	4	1	1	4	1	4	1	2	1	1	1	4
Play boating	4	1	1	4	1	4	1	2	1	1	1	4
Rafting	4	2	1	4	1	4	2	2	1	1	1	4
Tubing	4	1	2	4	1	4	1	1	3	1	1	"
Canoeing	4	1	1	4	1	4	1	2	1	1	1	"
Kayaking	4	1	1	4	1	4	1	2	1	1	1	"
Eddy hopping	4	1	1	4	1	4	1	2	1	1	1	"
Technical maneuvering	4	1	1	4	1	4	1	2	1	1	1	"
River gradient	4	1	1	4	1	4	1	2	1	1	1	"
Driving distance to river	4	3	2	4	1	4	3	3	2	1	1	"
Shuttles	4	3	3	4	1	4	3	3	2	1	1	"
Access to river	4	2	2	4	1	4	2	2	2	2	2	"
Parking	4	2	2	4	1	4	2	2	2	2	2	"
Scenery	4	1	1	4	1	4	1	1	1	1	1	"
Water quality	4	1	2	4	1	4	1	2	2	1	1	"
Overall	4	1	1	4	1	4	1	2	2	2	1	4

11. Any other comments?

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: July 21st, 2014

Name: James Kelly-Rand

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19-9:30	2500	-2	-1	0	1	2
7/19-1:00	3500	-2	-1	0	1	2
7/20-9:30	5000	-2	-1	0	1	2
7/20-1:00	8000	-2	-1	0	1	2
7/21 9:30	10,000				1	

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

2500

- From your perspective, what is the **optimum flow** for this run?

5000

## Modified Revised Study Plan

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500				✓	
2	3500					✓
3	5000					✓
4	8000					✓
5	10,000				✓	
6						

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	④	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	④	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		✓			
Other rivers in Massachusetts		✓			
Other rivers in the northeast		✓			
Other rivers in the country		✓			

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut  
2 = Similar to the Turners Falls bypass section of the Connecticut  
3 = Less desirable than the Turners Falls bypass section of the Connecticut  
4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	3	4	4	2	4	3	4	3	3	3	3
Suitable for intermediate boater	4	3	1	1	2	1	3	1	2	2	3	2
Suitable for advanced boater	4	1	1	1	2	1	1	1	1	1	1	1
Size & difficulty of features	4	1	1	1	2	1	1	1	1	1	1	1
Play boating	4	2	1	1	1	1	1	1	1	2	2	1
Rafting	4	3	1	1	2	1	1	1	1	1	1	1
Tubing	4	3	1	1	1	1	1	1	1	1	1	1
Canoeing	4	2	1	1	2	1	1	1	1	1	1	1
Kayaking	4	2	1	1	2	1	1	1	1	1	1	1
Eddy hopping	4	1	1	1	1	1	1	1	1	1	1	1
Technical maneuvering	4	1	1	1	1	1	1	1	1	1	1	1
River gradient	4	1	1	1	2	1	1	1	2	1	1	1
Driving distance to river	4	1	1	1	3	1	3	1	2	2	2	3
Shuttles	1	1	1	1	1	1	1	1	3	1	2	2
Access to river	1	1	1	1	1	1	1	1	3	1	2	1
Parking	1	1	1	1	1	1	1	1	2	2	2	2
Scenery	1	2	1	1	2	1	2	1	2	2	1	2
Water quality	1	2	1	1	1	1	1	1	2	1	1	1
Overall	1	1	1	1	2	1	1	1	1	1	1	1

11. Any other comments?

With regular predictable releases I would come here to boat occasionally with family and friends. The take out access will need major improvement. The put in will need similar boat drop off access as on this stretch -

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21, 2014

Name: Jack Gill

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Catacraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/21	13000	-2	-1	0	1	2
7/21	10000	-2	-1	0	1	2
7/19	3500	-2	-1	0	1	2
7/20	5000	-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

2500

- From your perspective, what is the **optimum flow** for this run?

5000

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500				✓	
2	3500					✓
3	5000					✓
4	8000					✓
5	10000					✓
6	13000				✓	

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		✓	<del>✗</del>		
Other rivers in Massachusetts		✓			
Other rivers in the northeast		✓			
Other rivers in the country		✓			

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsun to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	1	3	1	4	1	3	3	2	2	1	1	1
Suitable for intermediate boater	1	3	3	4	2	2	3	2	2	1	1	1
Suitable for advanced boater	3	1	3	4	3	1	1	3	3	3	3	3
Size & difficulty of features	3	2	3	4	3	1	1	3	3	3	3	3
Play boating	1	1	3	4	2	2	1	3	2	2	3	1
Rafting	4	4	4	4	4	4	4	4	4	4	4	4
Tubing	4	4	4	4	4	4	4	4	4	4	4	4
Canoeing	1	1	1	4	1	1	1	1	1	1	1	1
Kayaking	1	1	2	4	1	1	1	1	1	1	1	1
Eddy hopping	1	1	2	4	1	1	1	1	1	1	1	1
Technical maneuvering	2	1	3	4	2	1	1	3	3	3	3	2
River gradient				4								
Driving distance to river	1	2	3	3	2	1	1	3	3	3	3	1
Shuttles	2	2	2	3	2	2	2	3	3	2	3	2
Access to river	1	1	1	4	1	1	1	3	2	1	1	1
Parking	2	2	2	4	2	2	2	3	2	2	2	2
Scenery	1	3	2	4	2	2	2	1	3	3	2	1
Water quality	1	3	1	4	1	1	1	1	2	1	1	1
Overall	1	1	3	4	2	1	1	3	3	3	3	1

11. Any other comments?

The 1st Rapids . after the put-in and Rock Dam are the features that make this run worthwhile. The Rock Dam is not suitable for Novices . The 1st Rapid is only suitable for Beginners and Novices at the lower flows.

3.6.3 - Whitewater Boating Evaluation

An alternate take-out needs to be found to make this river frequently used.

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: July 19, 2014 2014  
Name: Mark Blatchley

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataract

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/18	2500	-2	-1	0	1	2
7/19	3500	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

- Flow (cfs)
- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate. 4000
  - From your perspective, what is the **optimum flow** for this run? 6,000+

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500		X			
2	3500				X	
3						
4						
5						
6						

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive	X				
Other rivers in Massachusetts	X				
Other rivers in the northeast	X				
Other rivers in the country	X				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	1	1	1	1	1	1	1	1	1	1	1	1
Suitable for intermediate boater												
Suitable for advanced boater												
Size & difficulty of features												
Play boating												
Rafting												
Tubing												
Canoeing												
Kayaking												
Eddy hopping												
Technical maneuvering												
River gradient												
Driving distance to river												
Shuttles												
Access to river												
Parking												
Scenery												
Water quality												
Overall												

11. Any other comments?  
All these rivers are better  
Section is short  
a competent boater should do it.

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/19, 2014

Name: Stephen Robinson (Zogor Outdoor)

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataract

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19 AM	2500	-2	-1	0	1	2
7/19 PM	3500	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run? Note that minimum acceptable differs from minimum flow necessary to navigate.

4,000

- From your perspective, what is the **optimum flow** for this run?

5,000 - 8,000

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500		✓			
2	3500		✓			
3						
4						
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

*At today's flows*

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive	✓				
Other rivers in Massachusetts	✓				
Other rivers in the northeast	✓				
Other rivers in the country	✓				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river

	Westfield, N. Branch – all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsom to Shaw's Corner	Deerfield E. Branch, Somers to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater					1		2					
Suitable for intermediate boater					2		2					
Suitable for advanced boater					3		2					
Size & difficulty of features					2		2					
Play boating					1							
Rafting					2		3					
Tubing					2							
Canoeing					1		2					
Kayaking												
Eddy hopping												
Technical maneuvering												
River gradient												
Driving distance to river					3		3					
Shuttles												
Access to river					2		2					
Parking					2		2					
Scenery					1		1					
Water quality					1		1					
Overall					2		2					

11. Any other comments?

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: July 21, 2014

Name: Michael Beauregard

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
9am-11am 7/21/14	10,000	-2	-1	0	1	2
1pm-3pm 7/21/14	13,000	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

10,000

- From your perspective, what is the **optimum flow** for this run?

10,000

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	13,000					X
2	10,000					X
3						
4						
5						
6						

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive				X	
Other rivers in Massachusetts				X	
Other rivers in the northeast			X		
Other rivers in the country			X		

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut  
2 = Similar to the Turners Falls bypass section of the Connecticut  
3 = Less desirable than the Turners Falls bypass section of the Connecticut  
4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsun to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	3	4	3	4	3	4	4	4	4	4
Suitable for intermediate boater	1	1	3	1	3	1	3	1	1	1	1	1
Suitable for advanced boater			3		3		3					
Size & difficulty of features			2		3		3					
Play boating			3		3		3					
Rafting			3		3		3					
Tubing			2		2		2					
Canoeing			3		3		3					
Kayaking			3		3		3					
Eddy hopping			3		3		3					
Technical maneuvering			3		3		3					
River gradient			3		3		3					
Driving distance to river			2		2		3					
Shuttles			3		3		3					
Access to river			2		2		2					
Parking	✓	✓	2	✓	2	✓	2		✓	✓	✓	✓
Scenery	✓	✓	2	✓	2	✓	2		✓	✓	✓	✓
Water quality			2		2		2	✓		✓		
Overall			3		3		3					

11. Any other comments?

at higher flow, rock dam is a smaller drop, but surfing is better

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/19/14, 2014

Name: Jonathan Pennell

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Catacraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	(3)	4	5
Size/difficulty of features	1	2	3	(4)	5
Driving distance to river	1	2	(3)	4	5
Accessibility	1	2	(3)	4	5
Shuttle Availability	1	(2)	3	4	5
Crowding	1	2	(3)	4	5
Weather	(1)	2	3	4	5
Water temperature	1	(2)	3	4	5
Attractive scenery	1	(2)	3	4	5
Water quality	1	2	3	(4)	5
Thrilling experience	1	2	3	4	(5)
Safe trip	1	2	3	4	(5)

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19 AM	2500	(-2)	-1	0	1	2
7/19 PM	3500	-2	(-1)	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

over 3500

- From your perspective, what is the **optimum flow** for this run?

?

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500		✓			
2	3500		✓	✓		
3						
4						
5						
6						

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive			✓		
Other rivers in Massachusetts		✓			
Other rivers in the northeast		✓			
Other rivers in the country	✓				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch – all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsom to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	3	3	4	4	1	1	3	4	4	4	4	
Suitable for intermediate boater	1	1			1	1	2	4	4	4	4	
Suitable for advanced boater	1	1			1	1	1	4	4	4	4	
Size & difficulty of features	3	3			2	2	1	4	4	4	4	
Play boating	3	3			1	1	1	4	4	4	4	
Rafting	1	1			1	1	3	1	1	1	1	
Tubing	1	1			1	1	3	1	1	1	1	
Canoeing	2	2			1	1	1	1	1	1	1	
Kayaking	2	2			1	1	2	1	1	1	1	
Eddy hopping	3	3			1	1	1	1	1	1	1	
Technical maneuvering	1	1			1	1	1	1	1	1	1	
River gradient	1	1			2	2	1	1	1	1	1	
Driving distance to river	1	1			3	3	3	1	1	1	1	
Shuttles	3	3			2	2	3	1	1	1	1	
Access to river	3	3			2	2	2	1	1	1	1	
Parking	3	3			2	2	2	1	1	1	1	
Scenery	1	1			1	1	1	1	1	1	1	
Water quality	1	1			1	1	1	1	1	1	1	
Overall	1	1	↓	↓	2	2	2	↓	↓	↓	↓	

11. Any other comments?

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7.21, 2014  
Name: Glenn Stewart

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7-19-14	2500/3500	-2	-1	0	1	2
7-20-14	5000/8000	-2	-1	0	1	2
7-31-14	10000/13000	-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

2500

- From your perspective, what is the **optimum flow** for this run?

unsure

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500			✓		
2	3500			✓		
3	5000				✓	
4	8000				✓	
5	10,000					✓
6	13,000					✓

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive					
Other rivers in Massachusetts					
Other rivers in the northeast					
Other rivers in the country					

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	3	2	4	4	1	4	3	1	4	4	4	
Suitable for intermediate boater	2	2	4		2		2	2				
Suitable for advanced boater	2	2	4		3		2	2				
Size & difficulty of features	1	2	4		3		2	2				
Play boating	1	1	4		3		3	3				
Rafting	4	4	4		4		4	4				
Tubing	4	4	4		4		4	4				
Canoeing	4	4	4		4		4	4				
Kayaking	1	1	4		3		2	2				
Eddy hopping	1	1	4		3		2	3				
Technical maneuvering	1	1	4		3		1	2				
River gradient	1	1	4		2		1	3				
Driving distance to river	3	3	4		3		3	2				
Shuttles			4									
Access to river	1	1	4		1		1	3				
Parking	1	1	4		1		1	3				
Scenery	2	2	4		2		3	1				
Water quality	1	2	4		1		1	1				
Overall	2	2	4		3		1	3				

11. Any other comments?

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/20/14, 2014

Name: Zachary Huizdak

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
	2500	2	-1	0	1	2
	3500	2	-1	0	1	2
	5000	-2	-1	0	1	2
	8000	-2	1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

5000

- From your perspective, what is the **optimum flow** for this run?

5000 for Rock Dam  
Much Higher than 8000 for everything else

## Modified Revised Study Plan

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500	X				
2	3500	X				
3	5000				X	
4	8000			X		
5						
6						

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	3
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		?			
Other rivers in Massachusetts					
Other rivers in the northeast		X			
Other rivers in the country	X				

not local  
not local

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut  
2 = Similar to the Turners Falls bypass section of the Connecticut  
3 = Less desirable than the Turners Falls bypass section of the Connecticut  
4 = No experience boating the river

Dry way?

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	4	3	3	4	3	4	4	4	4	4
Suitable for intermediate boater	1	1	1	3	3	1	3	1	1	1	1	1
Suitable for advanced boater	1	1	1	1	3	1	3	1	1	1	1	1
Size & difficulty of features	1	1	1	1	3	1	3	1	1	1	1	1
Play boating	1	1	1	1	3	1	3	1	1	1	1	1
Rafting	1	1	1	2	2	1	N/A	1	1	1	1	1
Tubing	1	1	1	3	2	1	?	1	1	1	1	1
Canoeing	1	1	1	2	3	1	3	1	1	1	1	1
Kayaking	1	1	1	1	3	1	3	1	1	1	1	1
Eddy hopping	1	1	1	1	1	1	1	1	1	1	1	1
Technical maneuvering	1	1	1	1	3	1	3	1	1	1	1	1
River gradient	1	1	1	1	3	1	2	1	1	1	1	1
Driving distance to river	1	1	1	N/A	N/A	1	N/A	1	1	1	1	1
Shuttles	1	1	1	2	3	1	3	1	1	1	1	1
Access to river	1	1	1	2	2	1	3	1	1	1	1	1
Parking	1	1	1	2	2	1	3	1	1	1	1	1
Scenery	1	1	1	1	2	1	3	1	1	1	1	1
Water quality	1	1	1	1	1	1	1	1	1	1	1	1
Overall	1	1	1	1	3	1	3	1	1	1	1	1

Not local

11. Any other comments?

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21, 2014  
Name: Alex Trebenberg

1. Watercraft used (Circle appropriate one):

☒ Hard shell kayak  
☐ Inflatable kayak  
☐ OC1  
☐ OC2  
☐ C1

☐ Stand up paddle board  
☐ C2  
☐ Raft  
☐ Cataract  
☐ Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

☐ Beginner  
☒ Novice  
☐ Intermediate

☐ Advanced  
☐ Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times    ☒ 1-5 times    6-10 times    11-20 times    >20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/21 9am	10,000	-2	-1	0	1	2
7/21 1pm	14,000	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

5000

- From your perspective, what is the **optimum flow** for this run?

8500

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	10,600				✓	✓
2	14,000				✓	✓
3						
4						
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	-1 Worse than average	0 Average	1 Better than average	2 Excellent	3 Among the very best
Other rivers within a 1 hour drive		✓			
Other rivers in Massachusetts		✓			
Other rivers in the northeast		✓			
Other rivers in the country		✓			

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsun to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	4	4	2	4	4	4	2	4	4	4
Suitable for intermediate boater					2				2			
Suitable for advanced boater					2				2			
Size & difficulty of features					3				3			
Play boating					3				3			
Rafting					2				2			
Tubing					1				1			
Canoeing					2				2			
Kayaking					2				2			
Eddy hopping					3				3			
Technical maneuvering					2				2			
River gradient					1				2			
Driving distance to river					3				2			
Shuttles					3				3			
Access to river				2	1				2			
Parking					1				3			
Scenery					2				2			
Water quality					2				2			
Overall					2				2			

11. Any other comments?

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21, 2014

Name: Ryan Mooney

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Catacraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
		-2	-1	0	1	2
		-2	-1	0	1	2
7/21	10,000	-2	-1	0	1	2
7/21	13,000	-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

2,500

- From your perspective, what is the **optimum flow** for this run?

13,000

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	10,000					X
2	13,000					X
3						
4						
5						
6						

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences; ✓	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft; ✓	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive				X	
Other rivers in Massachusetts			X		
Other rivers in the northeast			X		
Other rivers in the country			X		

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

10,000 - 13,000

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsom to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	3	4	3	4	4	4	2	4	4	4
Suitable for intermediate boater	4	4	2	4	2	4	4	4	2	4	4	4
Suitable for advanced boater	4	4	2	4	2	4	4	4	2	4	4	4
Size & difficulty of features	4	4	2	4	3	4	4	4	1	4	4	4
Play boating	4	4	3	4	2	4	4	4	2	4	4	4
Rafting	4	4	2	4	2	4	4	4	2	4	4	4
Tubing	4	4	4	4	4	4	4	4	4	4	4	4
Canoeing	4	4	3	4	4	4	4	4	4	4	4	4
Kayaking	4	4	2	4	2	4	4	4	2	4	4	4
Eddy hopping	4	4	2	4	1	4	4	4	2	4	4	4
Technical maneuvering	4	4	2	4	1	4	4	4	2	4	4	4
River gradient	4	4	2	4	2	4	4	4	2	4	4	4
Driving distance to river	4	4	2	4	2	4	4	4	2	4	4	4
Shuttles	4	4	2	4	3	4	4	4	2	4	4	4
Access to river	4	4	2	4	2	4	4	4	3	4	4	4
Parking	4	4	1	4	2	4	4	4	2	4	4	4
Scenery	4	4	2	4	1	4	4	4	2	4	4	4
Water quality	4	4	2	4	1	4	4	4	3	4	4	4
Overall	4	4	2	4	2	4	4	4	2	4	4	4

11. Any other comments?

This section of river is very fun and would be valuable to New England whitewater. The more water the better for this section. Having a "big" water option in this region would be very valuable.

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/20/2014, 2014

Name: Michael D. Parker

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataract

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19	2500	-2	-1	0	1	2
7/19	3500	-2	-1	0	1	2
7/20	5000	-2	-1	0	1	2
7/20	8000	-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?
- Note that minimum acceptable differs from minimum flow necessary to navigate.

5000

- From your perspective, what is the **optimum flow** for this run?

Maybe 10,000

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500		✓			
2	3500		✓			
3	5000				✓	
4	8000				✓	
5						
6						

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	①	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	①	2	3	4	5

or, ☒ it isn't important to provide a variety of flow levels for boating.

Optimal Flow would be great, the Boater can choose easy, or difficult while on that optimal level.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		✓			
Other rivers in Massachusetts		✓			
Other rivers in the northeast					
Other rivers in the country					

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsom to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater					1				1			
Suitable for intermediate boater					2				2			
Suitable for advanced boater					3				3			
Size & difficulty of features					3				3			
Play boating					2				2			
Rafting					2				2			
Tubing					1				1			
Canoeing					1				1			
Kayaking					1				1			
Eddy hopping					1				1			
Technical maneuvering					1				1			
River gradient					1				1			
Driving distance to river					1				1			
Shuttles					1				1			
Access to river					1				1			
Parking					1				1			
Scenery					1				1			
Water quality					1				1			
Overall					1				1			

11. Any other comments?

Figure 3.6.3-1c: Comparative Flow Evaluation Form

## COMPARATIVE FLOW EVALUATION FORM

## Turners Falls Hydroelectric Project FERC No. 1889

## Whitewater Controlled Flow Study

Date: 7/21, 2014Name: Tyler Rando

## 1. Watercraft used (Circle appropriate one):

☒ Hard shell kayak☐ Inflatable kayak☐ OC1☐ OC2☐ C1☐ Stand up paddle board☐ C2☐ Raft☐ Cataract☐ Other (describe): \_\_\_\_\_

## 2. Your whitewater boating skill level (Circle one):

☐ Beginner☐ Novice☒ Intermediate☐ Advanced☐ Expert

Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.

## 3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

☒ 0 times☐ 1-5 times☐ 6-10 times☐ 11-20 times☐ >20 times

## 4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/21	10,000	-2	-1	0	5	2
7/21	13,000	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

7,000  
9,000

## Modified Revised Study Plan

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	10,000				✓	
2	13,000				✓	
3						
4						
5						
6						

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		✓			
Other rivers in Massachusetts		✓			
Other rivers in the northeast		✓			
Other rivers in the country					

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch – all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsun to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	3	4	1	4	4	4	3	4	4	4
Suitable for intermediate boater			2		2				2			
Suitable for advanced boater			3		3				1			
Size & difficulty of features			1		1				1			
Play boating			2		2				1			
Rafting			2		1				1			
Tubing			3		1				3			
Canoeing			2		2				1			
Kayaking			2		2				1			
Eddy hopping			1		1				1			
Technical maneuvering			1		2				1			
River gradient			1		3				1			
Driving distance to river			3		1				3			
Shuttles			3		1				1			
Access to river			3		1				1			
Parking			1		1				1			
Scenery			1		1				1			
Water quality			2		1				1			
Overall			1		2				1			

11. Any other comments?

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: July, 21, 2014

Name: Jeffrey Green

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataract

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/21 9-11	10,000	-2	-1	0	1	2
7/21 1-3	13,000	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

5,000

10,000

Northfield Mountain Pumped Storage Project (No. 2485) and Turners Falls Hydroelectric Project (No. 1889)  
Modified Revised Study Plan

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1						
2						
3						
4						
5	10,000					X
6	13,000				X	

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive				X	
Other rivers in Massachusetts			X		
Other rivers in the northeast		X			
Other rivers in the country	X				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsun to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New-Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	4	4	1	4	4	4	3	4	4	4
Suitable for intermediate boater					1				2			
Suitable for advanced boater					3				1			
Size & difficulty of features					3				2			
Play boating					2				3			
Rafting					2							
Tubing					1				1			
Canoeing					2				1			
Kayaking					2				1			
Eddy hopping					1				1			
Technical maneuvering					2				1			
River gradient					3				1			
Driving distance to river					2				3			
Shuttles					2				2			
Access to river					1				2			
Parking					1				3			
Scenery					1				2			
Water quality	✓	✓	✓	✓	1	✓	✓	✓	2	✓	✓	✓
Overall					3	✓	✓	✓	2	✓	✓	✓

11. Any other comments?

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21, 2014

Name: Jesse Cohen

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study?  
(Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/21 9-11	10K	-2	-1	0	1	2
1-3	13K	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

5K?

- From your perspective, what is the **optimum flow** for this run?

8-9K

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	10 K				✓	
2	13 K				✓	
3						
4						
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		X			
Other rivers in Massachusetts		X			
Other rivers in the northeast	X				
Other rivers in the country					

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river

	Westfield, N. Branch – all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsom to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater					1				3			
Suitable for intermediate boater					2				1			
Suitable for advanced boater					3				2			
Size & difficulty of features					3				2			
Play boating					3				2			
Rafting					2				1			
Tubing					3				3			
Canoeing					2				2			
Kayaking					3				2			
Eddy hopping					1				1			
Technical maneuvering					3				1			
River gradient					3				1			
Driving distance to river					3				3			
Shuttles					3				3			
Access to river					1				2			
Parking					2				3			
Scenery					1				2			
Water quality					1				2			
Overall	4	4	4	4	1	4	4	4	1	4	4	4

11. Any other comments?

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7-21, 2014

Name: Robert Mastorakis

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
AM 7-21	10 K	-2	-1	0	1	2
PM 7-21	13 K	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

5 K

5-10 K

## Modified Revised Study Plan

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	10 K				✓	
2	13 K		✓			
3						
4						
5						
6						

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive	X				
Other rivers in Massachusetts	X				
Other rivers in the northeast	X				
Other rivers in the country	X				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch – all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	4	4	1	4	4	4	3	4	4	4
Suitable for intermediate boater	↓	↓	↓	↓	1	↓	↓	↓	1	↓	↓	↓
Suitable for advanced boater					2				1			
Size & difficulty of features					1				2			
Play boating					1				1			
Rafting					1				1			
Tubing					3				3			
Canoeing												
Kayaking												
Eddy hopping												
Technical maneuvering					1				1			
River gradient					1				1			
Driving distance to river					3				3			
Shuttles					3				3			
Access to river					1				2			
Parking					1				2			
Scenery					1				2			
Water quality					1				2			
Overall					1				2			

11. Any other comments?

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7-21-14, 2014  
Name: Mackae Freeman

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataract

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/21 10:00-11:00	10,000	-2	-1	0	1	2
11:30	13,000	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

5,000  
5,000 - 50,000  
cfs

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	11,000			✓		
2	13,000			✓		
3						
4						
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive	✓				
Other rivers in Massachusetts	✓				
Other rivers in the northeast	✓				
Other rivers in the country	✓				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

*Score using the following system:*

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	4	4	1	4	4	4	1	4	4	4
Suitable for intermediate boater	1	1	1	1	1	1	1	1	1	1	1	1
Suitable for advanced boater	1	1	1	1	2	1	1	1	1	1	1	1
Size & difficulty of features	1	1	1	1	1	1	1	1	1	1	1	1
Play boating	1	1	1	1	1	1	1	1	1	1	1	1
Rafting	1	1	1	1	1	1	1	1	1	1	1	1
Tubing	1	1	1	1	1	1	1	1	1	1	1	1
Canoeing	1	1	1	1	1	1	1	1	1	1	1	1
Kayaking	1	1	1	1	1	1	1	1	1	1	1	1
Eddy hopping	1	1	1	1	1	1	1	1	1	1	1	1
Technical maneuvering	1	1	1	1	1	1	1	1	1	1	1	1
River gradient	1	1	1	1	1	1	1	1	1	1	1	1
Driving distance to river	1	1	1	1	3	1	1	1	3	1	1	1
Shuttles	1	1	1	1	3	1	1	1	1	1	1	1
Access to river	1	1	1	1	3	1	1	1	1	1	1	1
Parking	1	1	1	1	3	1	1	1	3	1	1	1
Scenery	1	1	1	1	1	1	1	1	3	1	1	1
Water quality	1	1	1	1	3	1	1	1	1	1	1	1
Overall	1	1	1	1	1	1	1	1	1	1	1	1

11. Any other comments?

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21/14, 2014

Name: COLLIN SCHAUERMAN

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Catacraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/21 9-11	10,000	-2	-1	0	1	2
7/21 1-3	13,000	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

2,500

10,000

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1						
2						
3						
4						
5	10,000					✓
6	13,000					✓

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive			✓	✓	
Other rivers in Massachusetts		✓	✓		
Other rivers in the northeast		✓			
Other rivers in the country		✓			

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch – all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsun to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater												
Suitable for intermediate boater												
Suitable for advanced boater												
Size & difficulty of features												
Play boating												
Rafting			3	2	1				2			
Tubing												
Canoeing												
Kayaking												
Eddy hopping												
Technical maneuvering												
River gradient												
Driving distance to river												
Shuttles												
Access to river												
Parking												
Scenery												
Water quality												
Overall												

11. Any other comments?

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21/14, 2014  
Name: SHAHID JALIL

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/21	10,000	-2	-1	0	1	2
		-2	-1	0	1	2
7/21	13,000	-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

Flow (cfs)

10,000<sup>cfs</sup>  
 LOWER  
 THAN  
 10,000<sup>cfs</sup>

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	10,000					✓
2	13,000					✓
3						
4	13,000					
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive			✓		
Other rivers in Massachusetts		✓			
Other rivers in the northeast	✓				
Other rivers in the country	✓				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut  
2 = Similar to the Turners Falls bypass section of the Connecticut  
3 = Less desirable than the Turners Falls bypass section of the Connecticut  
4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	4	not suitable	1	not suitable	not suitable	4	not suitable	4	4	4
Suitable for intermediate boater	↓	↓	↓	1	1	1	1	↓	1	↓	↓	↓
Suitable for advanced boater	↓	↓	↓	1	1	1	1	↓	1	↓	↓	↓
Size & difficulty of features	↓	↓	↓	1	1	1	1	↓	1	↓	↓	↓
Play boating	↓	↓	↓	3	1	3	1	↓	3	↓	↓	↓
Rafting	↓	↓	↓	1	1	1	3	↓	1	↓	↓	↓
Tubing	↓	↓	↓	not suitable	1	3	3	↓	not suitable	↓	↓	↓
Canoeing	↓	↓	↓	1	1	1	1	↓	1	↓	↓	↓
Kayaking	↓	↓	↓	1	1	1	1	↓	1	↓	↓	↓
Eddy hopping	↓	↓	↓	1	1	3	1	↓	1	↓	↓	↓
Technical maneuvering	↓	↓	↓	1	1	1	1	↓	1	↓	↓	↓
River gradient	↓	↓	↓	1	1	1	2	↓	1	↓	↓	↓
Driving distance to river	↓	↓	↓	1	1	1	3	↓	2	↓	↓	↓
Shuttles	↓	↓	↓	1	1	1	1	↓	1	↓	↓	↓
Access to river	↓	↓	↓	1	1	1	1	↓	1	↓	↓	↓
Parking	↓	↓	↓	3	1	1	1	↓	1	↓	↓	↓
Scenery	↓	↓	↓	2	1	1	1	↓	1	↓	↓	↓
Water quality	↓	↓	↓	1	1	1	3	↓	3	↓	↓	↓
Overall	↓	↓	↓	1	1	1	2	↓	1	↓	↓	↓

11. Any other comments?

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7-21, 2014

Name: FRANK MOONEY

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/21 AM	10,000	-2	-1	0	1	2
		-2	-1	0	1	2
7/21 PM	13,000	-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

3500

- From your perspective, what is the **optimum flow** for this run?

5000 - 8000

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1						
2						
3						
4						
5	10,000			✓	✓	
6	15,000				✓	

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive			✓		
Other rivers in Massachusetts			✓		
Other rivers in the northeast		✓			
Other rivers in the country	✓				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut  
2 = Similar to the Turners Falls bypass section of the Connecticut  
3 = Less desirable than the Turners Falls bypass section of the Connecticut  
4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsom to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	1	4	1	4	3	4	1	4	4	4
Suitable for intermediate boater			1		1		1		1			
Suitable for advanced boater			1		3		1		3			
Size & difficulty of features			1		1		1		3			
Play boating			1		3		1		2			
Rafting			1		1		3		2			
Tubing												
Canoeing												
Kayaking												
Eddy hopping			1		1		1		2			
Technical maneuvering			1		1		1		1			
River gradient			1		1		1		2			
Driving distance to river			3		1		3		3			
Shuttles			3		1		2		2			
Access to river			1		1		2		2			
Parking			3		1		2		2			
Scenery			1		1		1		1			
Water quality			1		1		1		2			
Overall			1		1		1		2			

11. Any other comments?

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21, 2014

Name: Rodney Claiborne

1. Watercraft used (Circle appropriate one):

☒ Hard shell kayak

☐ Inflatable kayak

☐ OC1

☐ OC2

☐ C1

☐ Stand up paddle board

☐ C2

☐ Raft

☐ Cataraft

☐ Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

☐ Beginner

☐ Novice

☐ Intermediate

☒ Advanced

☐ Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

☒ 0 times

☐ 1-5 times

☐ 6-10 times

☐ 11-20 times

☐ >20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	(3)	4	5
Size/difficulty of features	1	2	3	(4)	5
Driving distance to river	1	2	(3)	4	5
Accessibility	1	(2)	3	4	5
Shuttle Availability	1	(2)	3	4	5
Crowding	1	2	(3)	4	5
Weather	(1)	2	3	4	5
Water temperature	(1)	2	3	4	5
Attractive scenery	1	(2)	(3)	4	5
Water quality	1	(2)	3	4	5
Thrilling experience	1	2	(3)	4	5
Safe trip	1	2	3	(4)	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/21 9:00-10:00	10000	-2	-1	0	(1)	2
7/21 11:00-3:00	13000	-2	-1	0	1	(2)
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

7500

13000 maybe higher

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	10000				X	
2	12000					X
3						
4						
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		X			
Other rivers in Massachusetts		X			
Other rivers in the northeast	X				
Other rivers in the country	X				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch – all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsom to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	4	2	1	4	2	4	2	4	4	4
Suitable for intermediate boater	4	4	4	2	2	4	2	4	2	4	4	4
Suitable for advanced boater	4	4	4	2	2	4	2	4	2	4	4	4
Size & difficulty of features	4	4	4	2	3	4	2	4	2	4	4	4
Play boating	4	4	4	3	1	4	4	4	3	4	4	4
Rafting	4	4	4	4	4	4	4	4	4	4	4	4
Tubing	4	4	4	4	4	4	4	4	4	4	4	4
Canoeing	4	4	4	4	4	4	4	4	4	4	4	4
Kayaking	4	4	4	2	2	4	2	4	2	4	4	4
Eddy hopping	4	4	4	1	1	4	1	4	1	4	4	4
Technical maneuvering	4	4	4	1	1	4	1	4	1	4	4	4
River gradient	4	4	4	1	2	4	2	4	2	4	4	4
Driving distance to river	4	4	4	2	1	4	3	4	2	4	4	4
Shuttles	4	4	4	1	1	4	2	4	2	4	4	4
Access to river	4	4	4	3	3	4	3	4	1	4	4	4
Parking	4	4	4	3	2	4	2	4	3	4	4	4
Scenery	4	4	4	3	3	4	2	4	1	4	4	4
Water quality	4	4	4	3	3	4	2	4	2	4	4	4
Overall	4	4	4			4		4		4	4	4

11. Any other comments?

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21, 2014  
Name: Jim Michaud

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19 <del>2500</del>	2500	-2	-1	0	1	2
7/19	3500	-2	-1	0	1	2
7/20	5000	-2	-1	0	1	2
7/20	8000	-2	-1	0	1	2

7/21 10000  
7/21 13000

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

8000

10000

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500	✓				
2	3500		✓			
3	5000			✓		
4	8000				✓	
5	10000					✓
6	13000				✓	

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive			✓		
Other rivers in Massachusetts		✓			
Other rivers in the northeast		✓			
Other rivers in the country		✓			

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	2	2	4	4	1	4	3	4	1	4	4	
Suitable for intermediate boater	1	1			3		1		2			
Suitable for advanced boater	1	3			3		1		3			
Size & difficulty of features	1	3			3		1		3			
Play boating	3	2			3		1		3			
Rafting	3	3			3		3		3			
Tubing	1	3			1		3		2			
Canoeing	1	1			3		1		3			
Kayaking	1	1			3		1		3			
Eddy hopping	1	2			3		1		3			
Technical maneuvering	1	1			2		1		3			
River gradient	1	2			3		1		2			
Driving distance to river	2	1			2		1		2			
Shuttles	1	1			2		1		2			
Access to river	1	1			2		1		1			
Parking	1	1			1		2		1			
Scenery	1	2			2		1		1			
Water quality	2	3			1		1		2			
Overall	1	2			3		1		2			

11. Any other comments?

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**

**Turners Falls Hydroelectric Project FERC No. 1889**

**Whitewater Controlled Flow Study**

Date: 7/20/14, 2014

Name: Robert Brean

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Catacraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	(4)	5
Size/difficulty of features	1	2	3	(4)	5
Driving distance to river	1	2	(3)	4	5
Accessibility	1	2	(3)	4	5
Shuttle Availability	1	(2)	3	4	5
Crowding	1	2	3	(4)	5
Weather	1	2	(3)	4	5
Water temperature	1	2	(3)	4	5
Attractive scenery	1	2	3	(4)	5
Water quality	1	2	(3)	4	5
Thrilling experience	1	2	3	(4)	5
Safe trip	1	2	3	(4)	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19/14/9 AM	2500	-2	-1	0	(1)	2
7/19/14/1 PM	3500	-2	-1	0	1	2
7/20/14/9 AM	5000	-2	-1	0	1	2
7/20/14/1 PM	8000	-2	-1	0	1	(2)

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run? Note that minimum acceptable differs from minimum flow necessary to navigate.

2500

- From your perspective, what is the **optimum flow** for this run?

around 8000 cfs

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500					X
2	3500				X	X
3	5000					X
4	8000					X
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		X	X		
Other rivers in Massachusetts		X			
Other rivers in the northeast		X			
Other rivers in the country		X			

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

*Score using the following system:*

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsun to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	2	4	4	4	1	4	4	4	4	4	4	2
Suitable for intermediate boater	2	4	4	4	1	4	4	4	4	4	4	2
Suitable for advanced boater	3	4	4	4	1	4	4	4	4	4	4	3
Size & difficulty of features	3	4	4	4	1	4	4	4	4	4	4	3
Play boating	2	4	4	4	1	4	4	4	4	4	4	2
Rafting	3	4	4	4	1	4	4	4	4	4	4	3
Tubing	1	4	4	4	1	4	4	4	4	4	4	1
Canoeing	2	4	4	4	1	4	4	4	4	4	4	2
Kayaking	2	4	4	4	1	4	4	4	4	4	4	2
Eddy hopping	2	4	4	4	1	4	4	4	4	4	4	2
Technical maneuvering	2	4	4	4	1	4	4	4	4	4	4	2
River gradient	2	4	4	4	1	4	4	4	4	4	4	2
Driving distance to river	2	4	4	4	1	4	4	4	4	4	4	2
Shuttles		4	4	4	1	4	4	4	4	4	4	
Access to river	2	4	4	4	1	4	4	4	4	4	4	2
Parking	3	4	4	4	1	4	4	4	4	4	4	3
Scenery	2	4	4	4	2	4	4	4	4	4	4	2
Water quality	2	4	4	4	2	4	4	4	4	4	4	2
Overall	2	4	4	4	1	4	4	4	4	4	4	2

11. Any other comments?

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: July 21, 2014

Name: Carin A. Tinney

1. Watercraft used (Circle appropriate one):

Hard shell kayak creek + play boat

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	(4)	5
Size/difficulty of features	1	2	3	(4)	5
Driving distance to river	1	(2)	3	4	5
Accessibility	1	2	(3)	4	5
Shuttle Availability	1	2	3	4	5
Crowding	(1)	2	3	4	5
Weather	(1)	2	3	4	5
Water temperature	1	(2)	3	4	5
Attractive scenery	(1)	2	3	4	5
Water quality	1	2	(3)	4	5
Thrilling experience	1	(2)	3	4	5
Safe trip	1	2	(3)	4	5

hot day →  
out weather/  
rain  
before  
impacts  
planning

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19	2500	-2	(-1)	0	1	2
7/19	3500	-2	(-1)	0	1	2
7/20	5000	-2	-1	(0)	1	2
7/20	5000	-2	-1	0	(1)	2
7/21	10000				(1)	
7/21	13000				(1)	

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

- I think 5-8000 offer nice technical challenge at rock dam*  
*10,000 - introduced play*  
*13000 - had some play but a bit washed*
- Flow (cfs)
- From a recreational perspective what is the **minimum acceptable flow** for this run?  
 Note that minimum acceptable differs from minimum flow necessary to navigate. 5000
  - From your perspective, what is the **optimum flow** for this run? 9000-10K

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500		X			
2	3500		X			
3	5000			X		
4	8000				X	
5	10000				X	
6	13000				X	

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	(2)	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	(3)	4	5

-Beginner-beginners would do fine without much instr. at 3500

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive	X				
Other rivers in Massachusetts	X				
Other rivers in the northeast		X			
Other rivers in the country	X				

I'm sorry!

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Cavin Timney

## Modified Revised Study Plan

Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsom to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	1	1	1	1	3	1	1	1	1	1	1	1
Suitable for intermediate boater	1	1	1	1	3	1	1	1	1	1	1	1
Suitable for advanced boater	1	1	1	1	N/A	1	1	1	1	1	1	1
Size & difficulty of features	1	4	1	1	3	1	1	1	1	1	1	1
Play boating	1	1	1	1	3	3	3	1	1	1	1	1
Rafting	1	1	1	1	4	4	4	1	1	1	1	1
Tubing	1	1	1	4	4	4	4	1	4	1	1	1
Canoeing	1	1	1	1	4	4	4	1	1	1	1	1
Kayaking	4	1	1	1	3	1	1	4	1	4	4	4
Eddy hopping	1	1	1	1	1	1	1	1	1	1	1	1
Technical maneuvering	1	1	1	1	1	1	1	1	1	1	1	1
River gradient	1	1	1	1	3	1	1	1	1	1	1	1
Driving distance to river	1	1	1	1	same	1	1	1	1	1	1	1
Shuttles	1	1	1	1	3	1	1	1	1	1	1	1
Access to river	1	1	1	1	3	1	1	1	1	1	1	1
Parking	1	1	1	1	3	1	1	1	1	1	1	1
Scenery	1	1	1	1	3	3	3	1	1	1	1	1
Water quality	1	1	1	1	1	1	1	1	1	1	1	1
Overall	1	1	1	1	3	1	1	1	1	1	1	1

11. Any other comments?

It's a great second river (or 1<sup>st</sup> of two); great teaching river - at 8-10K you can easily spend a few hours at first rapid teaching, play, ferry, river reading, skills, surfing

if you add some rocks to make eddies on 1<sup>st</sup> rapid river left - you could have a nice play park!

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21, 2014

Name: JORDAN YARUS

1. Watercraft used (Circle appropriate one):

☒ Hard shell kayak

☐ Inflatable kayak

☐ OC1

☐ OC2

☐ C1

☐ Stand up paddle board

☐ C2

☐ Raft

☐ Cataract

☐ Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

☐ Beginner

☐ Novice

☐ Intermediate

☒ Advanced

☐ Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

☒ 0 times

☐ 1-5 times

☐ 6-10 times

☐ 11-20 times

☐ >20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19 9am	2500	-2	-1	0	1	2
7/19 1pm	3500	-2	-1	0	1	2
7/20 9am	5000	-2	-1	0	1	2
7/20 1pm	8000	-2	-1	0	1	2

7/21 9am 10K  
7/21 1pm 13K

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run? Note that minimum acceptable differs from minimum flow necessary to navigate.

5000

- From your perspective, what is the **optimum flow** for this run?

8000

7. Rate the flows evaluated in terms of your craft and skill level

- See answers to #5

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1						
2						
3						
4						
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		X			
Other rivers in Massachusetts	X				
Other rivers in the northeast	X				
Other rivers in the country	X				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.
- <sup>1</sup>
- Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan


Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river



	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsun to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	4	4	1	4	2	4	4	3	4	4
Suitable for intermediate boater					3		2			1		
Suitable for advanced boater					3		2			3		
Size & difficulty of features					2		3			3		
Play boating					3		3			3		
Rafting					4		4			4		
Tubing					2		3			3		
Canoeing					4		4			4		
Kayaking					1		2			2		
Eddy hopping					3		2			2		
Technical maneuvering					3		1			2		
River gradient					3		2			2		
Driving distance to river					2		2			2		
Shuttles					2		2			2		
Access to river					1		2			2		
Parking					2		2			2		
Scenery					1		1			1		
Water quality					1		1			1		
Overall					1		1			1		

11. Any other comments? My main reason for coming back here would be for teaching. I probably wouldn't return to paddle it with people above an intermediate level.

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21, 2014  
Name: Evan Eichorn

1. Watercraft used (Circle appropriate one):

Hard shell kayak	Stand up paddle board
Inflatable kayak	C2
<u>OC1</u>	Raft
OC2	Cataract
C1	Other (describe): _____

2. Your whitewater boating skill level (Circle one):

Beginner	<u>Advanced</u>
Novice	Expert
Intermediate	

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times      1-5 times      6-10 times      11-20 times      >20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19-9	2500	-2	-1	0	1	2
7/19-1	3500	-2	-1	0	1	2
7/20-9	5000	-2	-1	0	1	2
7/20-1	8000	-2	-1	0	1	2
7/21-9	10000				1	
7/21-1	13000				1	

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

3500

5000

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500			✓		
2	3500					✓
3	5000					✓
4	8000					✓
5	10000				✓	
6	13000				✓	

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		✓	✓		
Other rivers in Massachusetts		✓			
Other rivers in the northeast			✓		
Other rivers in the country		✓			

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsom to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4		2		2	1	3	1	1	3		
Suitable for intermediate boater			2		3	1	1	1	1	1		
Suitable for advanced boater			1		3	1	1	1	1	1		
Size & difficulty of features			1		3	1	1	1	1	2		
Play boating			2		2	1	1	1	1	1		
Rafting			4		4	1	1	1	1	4		
Tubing			4		1	1	1	1	1	4		
Canoeing			1		2	1	1	1	1	1		
Kayaking			4		4	1	1	1	1	4		
Eddy hopping			1		1	1	1	1	1	1		
Technical maneuvering			1		2	1	1	1	1	1		
River gradient			1		2	1	1	1	1	1		
Driving distance to river			2		3	2	2	1	1	1		
Shuttles			2		2	1	1	1	1	2		
Access to river			2		2	1	1	1	1	2		
Parking			2		2	1	1	1	1	2		
Scenery			2		1	1	1	1	1	1		
Water quality			1		1	1	1	1	1	1		
Overall	4	4	1	4	2	4	1	4	4	1	4	4

11. Any other comments?

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21/14, 2014  
Name: Ryan Galway

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Catacraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19/14	2500	-2	-1	0	1	2
7/19/14	3500	-2	-1	0	1	2
7/26/14	5000	-2	-1	0	1	2
7/27/14	10000	-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run? Note that minimum acceptable differs from minimum flow necessary to navigate.

3500

- From your perspective, what is the **optimum flow** for this run?

10,000

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsun to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	4	4	1	4	2	4	4	1	4	4
Suitable for intermediate boater					2		1			2		
Suitable for advanced boater					3		1			3		
Size & difficulty of features					2		1			2		
Play boating					1		3			1		
Rafting					2		3			2		
Tubing					3		3			3		
Canoeing					2		1			2		
Kayaking					2		1			2		
Eddy hopping					3		1			3		
Technical maneuvering					2		1			2		
River gradient					1		1			1		
Driving distance to river					2		2			2		
Shuttles					2		2			2		
Access to river					1		1			1		
Parking					2		2			2		
Scenery					2		1			2		
Water quality					1		1			1		
Overall					2		1			2		

11. Any other comments?

## Modified Revised Study Plan

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500		✓			
2	3500					✓
3	5000					✓
4	8000				✓	
5	10000					✓
6	13000				✓	

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		✓			
Other rivers in Massachusetts		✓			
Other rivers in the northeast		✓			
Other rivers in the country		✓			

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21/2014, 2014

Name: Patrick Joyce

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/21	10,000	-2	-1	0	1	2
7/21	13,000	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

10,000

- From your perspective, what is the **optimum flow** for this run?

13,000

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1						
2						
3						
4						
5	10,000					✓
6	13,000					✓

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive					✓
Other rivers in Massachusetts				✓	✓
Other rivers in the northeast			✓	✓	
Other rivers in the country			✓		

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater				3	2			3	2	2		
Suitable for intermediate boater				3	2			3	2	2		
Suitable for advanced boater				3	2			3	2	2		
Size & difficulty of features				3	2			3	2	2		
Play boating				3	2			3	2	2		
Rafting	4	4	4	3	2	4	4	3	2	2	4	4
Tubing				3	2			3	2	2		
Canoeing				3	2			3	2	2		
Kayaking				3	2			3	2	2		
Eddy hopping				3	1			3	2	2		
Technical maneuvering				3	1			3	2	2		
River gradient				3	2			3	2	2		
Driving distance to river				3	2			3	2	2		
Shuttles				3	2			3	2	2		
Access to river				3	2			3	2	2		
Parking				3	2			3	2	2		
Scenery				3	2			3	2	2		
Water quality				3	1			3	2	2		
Overall				3	2			3	2	2		

11. Any other comments?

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/19-20, 2014

Name: John Modena

1. Watercraft used (Circle appropriate one):

☒ Hard shell kayak

☐ Inflatable kayak

☐ OC1

☐ OC2

☐ C1

☐ Stand up paddle board

☐ C2

☐ Raft

☐ Cataract

☐ Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

☐ Beginner

☐ Novice

☐ Intermediate

☒ Advanced

☐ Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

☒ 0 times

☐ 1-5 times

☐ 6-10 times

☐ 11-20 times

☐ >20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19	2500	-2	-1	0	1	2
7/19	3500	-2	-1	0	1	2
7/20	5000	-2	-1	0	1	2
7/20	8000	-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

5000

- From your perspective, what is the **optimum flow** for this run?

8000

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500			✓		
2	3500			✓		
3	5000				✓	
4	8000					✓
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive			✓		
Other rivers in Massachusetts		✓			
Other rivers in the northeast		✓			
Other rivers in the country		✓			

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somers to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	1	4	2	4	1	4	2	1	4	2
Suitable for intermediate boater					2							
Suitable for advanced boater												
Size & difficulty of features												
Play boating												
Rafting												
Tubing												
Canoeing												
Kayaking												
Eddy hopping												
Technical maneuvering												
River gradient												
Driving distance to river												
Shuttles												
Access to river												
Parking												
Scenery												
Water quality												
Overall												

11. Any other comments?

Jaw guys did a great job. Thanks  
for the opportunity. A model for a study.

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/20, 2014  
Name: Steve Bridges

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataract

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/20 9	5000	-2	-1	0	1	2
7/20 1	8000	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

5000

- From your perspective, what is the **optimum flow** for this run?

9000-10,000

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1						
2						
3	5000				✓	
4	8000					✓
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive			✓		
Other rivers in Massachusetts			✓	✓	
Other rivers in the northeast			✓		
Other rivers in the country		✓			

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river

	Westfield, N. Branch – all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsom to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	2	4	4	4	1	4	3	4	2	4	4	2
Suitable for intermediate boater	2	4	4	4	3	4	2	4	2	4	4	2
Suitable for advanced boater	2	4	4	4	3	4	2	4	2	4	4	2
Size & difficulty of features	3	4	4	4	3	4	3	4	2	4	4	3
Play boating	2	4	4	4	3	4	2	4	3	4	4	2
Rafting	3	4	4	4	2	4	3	4	2	4	4	2
Tubing	3	4	4	4	3	4	3	4	3	4	4	2
Canoeing	2	4	4	4	2	4	2	4	2	4	4	2
Kayaking	2	4	4	4	2	4	2	4	2	4	4	2
Eddy hopping	3	4	4	4	3	4	3	4	3	4	4	3
Technical maneuvering	3	4	4	4	3	4	3	4	3	4	4	3
River gradient	2	4	4	4	2	4	2	4	2	4	4	2
Driving distance to river	1	4	4	4	1	4	1	4	1	4	4	1
Shuttles	1	4	4	4	1	4	1	4	1	4	4	1
Access to river	1	4	4	4	2	4	1	4	1	4	4	1
Parking	1	4	4	4	1	4	1	4	1	4	4	1
Scenery	3	4	4	4	3	4	3	4	3	4	4	3
Water quality	3	4	4	4	3	4	3	4	3	4	4	3
Overall	2	4	4	4	3	4	1	4	1	4	4	2

11. Any other comments?

Thank You!

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: July 17, 2014

Name: Julia Khorane

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1 run 1

OC2

C1

Stand up paddle board

C2

Raft

Catacraft

Other (describe): Shredder run 2

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19	2500	-2	-1	0	1	2
7/19	2500	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

2500

3500

7. Rate the flows evaluated in terms of your craft and skill level

OC1-  
Shredde

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2560				X	
2	3000				X	
3						
4						
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive	X				
Other rivers in Massachusetts		X			
Other rivers in the northeast	X				
Other rivers in the country	X				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut  
2 = Similar to the Turners Falls bypass section of the Connecticut  
3 = Less desirable than the Turners Falls bypass section of the Connecticut  
4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Southegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	4	4	1	1	1	4	4	3	3	
Suitable for intermediate boater					1		1			1	1	
Suitable for advanced boater					1		1			3	3	
Size & difficulty of features					1		1			1	1	
Play boating					1		1			1	1	
Rafting					1		3			3	3	
Tubing					1					3	3	
Canoeing					1		1			1	1	
Kayaking					1		1			1	1	
Eddy hopping					1		1			1	1	
Technical maneuvering					1		1			1	1	
River gradient					1		1			1	1	
Driving distance to river					3		3			2	1	
Shuttles					2		2			2	2	
Access to river					1		3			2	2	
Parking					2		3			3	2	
Scenery					2		3			2	2	
Water quality					1		2			2	1	
Overall					1		1			1	1	

11. Any other comments?

Like 3500 better. Better to bring novice for instruction because safer. Too much flat & too few rapids & small features for WW. Rockedown - better at 3500 & could be a great play place but access just there is hard.

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21/14, 2014  
Name: Tom Christopher

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Catacraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19	3,500	-2	-1	0	1	2
7/20	5,000	-2	-1	0	1	2
7/20	8,000	-2	-1	0	1	2
7/21	10,000	-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.

3,500

- From your perspective, what is the **optimum flow** for this run?

5,000

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1					✓	
2						✓
3						✓
4						✓
5						✓
6						✓

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive				✓	
Other rivers in Massachusetts				✓	
Other rivers in the northeast			✓		
Other rivers in the country			✓		

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsom to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	1	1	2	2	2	2	2	2	2	1	1	2
Suitable for intermediate boater	2	1	3	3	1	2	1	3	3	3	2	2
Suitable for advanced boater	3	3	3	3	3	3	3	3	3	3	3	3
Size & difficulty of features	3	3	3	3	3	3	3	3	3	3	3	3
Play boating	3	3	3	3	3	3	3	3	3	3	3	3
Rafting	3	3	3	3	3	3	3	3	3	3	3	3
Tubing	3	3	3	3	3	3	3	3	3	3	3	3
Canoeing	3	3	3	3	3	3	3	3	3	3	3	3
Kayaking	3	3	3	3	3	3	3	3	3	3	3	3
Eddy hopping	3	3	3	3	3	3	3	3	3	3	3	3
Technical maneuvering	3	1	3	3	3	3	3	3	3	3	3	3
River gradient	1	2	1	1	1	2	3	3	3	1	1	1
Driving distance to river	2	2	2	2	2	2	2	2	2	2	2	2
Shuttles	2	2	2	2	2	2	2	2	2	2	2	2
Access to river	2	2	2	2	2	2	2	2	2	2	2	2
Parking	2	2	2	2	2	2	2	2	2	2	2	2
Scenery	2	2	2	2	2	2	2	2	2	2	2	2
Water quality	2	2	2	2	2	2	2	2	2	2	2	2
Overall	2	2	2	2	2	2	2	2	2	2	2	2

11. Any other comments?

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: July 21, 2014, 2014

Name: Charles Murray

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Catacraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study?  
(Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19	2500	-2	-1	0	1	2
7/19	3500	-2	-1	0	1	2
7/20	5000	-2	-1	0	1	2
7/20	8000	-2	-1	0	1	2
7/21	10K				1	
7/21	13K				1	

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

35005000

## Modified Revised Study Plan

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1						
2						
3						
4						
5						
6						

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive					
Other rivers in Massachusetts					
Other rivers in the northeast					
Other rivers in the country					

The river reminds me of the Sacandaga in NY (the section that flows into the Hudson.)

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	3	3	4	4	1	4	3	1	3	3	1	
Suitable for intermediate boater	1	1			3		1	1	2	1	1	
Suitable for advanced boater	1	1			3		1	2	2	2	1	
Size & difficulty of features	1	1			2		1	2	2	1	1	
Play boating	1	1			2		1	2	2	1	1	
Rafting	4	4			4		4	4	4	4	4	
Tubing	4	4			4		4	4	4	4	4	
Canoeing	1	1			2		1	1	2	1	1	
Kayaking	4	4			4		4	4	4	4	4	
Eddy hopping	1	1			2		1	1	2	1	1	
Technical maneuvering	1	1			2		1	2	2	1	1	
River gradient	1	1			2		1	1	2	1	1	
Driving distance to river	1	3			2		1	2	3	3	3	
Shuttles	2	2			2		2	2	2	2	2	
Access to river	2	2			2		2	2	2	2	2	
Parking	2	2			2		2	3	2	2	3	
Scenery	1	1			1		1	1	1	1	1	
Water quality	2	2			2		2	1	2	2	1	
Overall	1	1			2		1	1	2	1	1	

11. Any other comments?

I enjoyed the Turners full bypass and would paddle it once or twice a year, especially if it was the only river w/ B&S water. I prefer smaller rivers like the Otter, pork barrel west, Housatonic. These rivers tend to need lower flows to paddle and have many features and are close to my home.

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/20, 2014

Name: Brian Lesser

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Catacraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19 AM	2500	-2	-1	0	1	2
7/19 PM	3500	-2	-1	0	1	2
7/20 AM	5000	-2	-1	0	1	2
7/20 PM	8000	-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run? Note that minimum acceptable differs from minimum flow necessary to navigate.

2500

- From your perspective, what is the **optimum flow** for this run?

7000-10000

## 7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500			✓		
2	3500				✓	
3	5000					✓
4	8000					✓
5						
6						

## 8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

## 9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		✓			
Other rivers in Massachusetts		✓			
Other rivers in the northeast	✓				
Other rivers in the country	✓				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river

	Westfield, N. Branch – all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsun to Shaw's Corner	Deerfield, E. Branch, Somers to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	1	3	1	1	1	3	3	1	1	4	1	1
Suitable for intermediate boater	2	1	2	3	2	1	1	2	1	4	2	
Suitable for advanced boater	3	2	3	3	3	2	2	3	2	1	3	
Size & difficulty of features	3	2	2	3	3	3	2	3	2		3	
Play boating	3	2	2	3	2	3	2	3	2		3	
Rafting	1	1	1	3	1	2	3	3	1		2	
Tubing	1	3	2	3	1	3	3	2	2		2	
Canoeing	1	1	1	1	1	1	1	1	1		1	
Kayaking	2	2	2	3	2	1	1	2	2		3	
Eddy hopping	1	1	1	3	1	1	1	1	1		1	
Technical maneuvering	1	1	1	2	1	1	1	1	1		1	
River gradient	2	2	2	3	2	1	1	1	2		2	
Driving distance to river	3	3	3	3	1	1	3	2	3		3	
Shuttles	3	3	2	3	2	2	2	2	3		2	
Access to river	2	1	1	3	1	1	1	1	2		2	
Parking	3	2	2	3	1	3	3	3	3		3	
Scenery	1	2	1	1	1	1	1	1	1		3	
Water quality	1	2	1	1	1	1	1	1	2		2	
Overall	2	1	1	1	1	2	1	2	2		2	

11. Any other comments?

**Figure 3.6.3-1c: Comparative Flow Evaluation Form**

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21, 2014

Name: Ken Glusman

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Catacraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7500	2500	-2	-1	0	1	2
	5000	-2	-1	0	1	2
	8000	-2	-1	0	1	2
	10000	-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

2500 cfs

8000 cfs

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500			✓		
2	<del>500</del> 3500			✓		
3	<del>500</del> 5000				✓	
4	8000				✓	
5	10000			✓		
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive	✓				
Other rivers in Massachusetts	✓				
Other rivers in the northeast	✓				
Other rivers in the country	✓				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	3	3	4	4	2	3	3	4	3	3	3	
Suitable for intermediate boater	1	1	1	1	1	1	1	1	1	1	1	
Suitable for advanced boater	1	1	1	1	1	1	1	1	1	1	1	
Size & difficulty of features	1	1	1	1	1	1	1	1	1	1	1	
Play boating	1	1	1	1	2	2	1	1	1	2	1	
Rafting	3	3	1	1	2	3	3	1	1	3	3	
Tubing	3	3	1	1	4	3	3	1	1	2	3	
Canoeing	1	1	1	1	1	1	1	1	1	2	1	
Kayaking	1	1	1	1	1	1	1	1	1	2	1	
Eddy hopping	1	1	1	1	1	1	1	1	1	1	1	
Technical maneuvering	1	1	1	1	1	1	1	1	1	1	1	
River gradient	1	1	1	1	1	1	1	1	1	2	1	
Driving distance to river	2	3	1	1	3	3	3	1	2	3	2	
Shuttles	2	3	1	1	2	2	2	1	2	2	2	
Access to river	1	2	1	1	2	2	2	1	2	2	2	
Parking	2	2	1	1	2	2	2	1	2	2	2	
Scenery	1	1	1	1	1	1	1	1	1	1	2	
Water quality	2	1	1	1	1	1	1	1	2	2	2	
Overall	1	1	1	1	1	1	1	1	1	1	2	

11. Any other comments?

There is too little whitewater on this run  
for it to be worth the drive for me -  
I had a reasonable alternative.

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**

**Turners Falls Hydroelectric Project FERC No. 1889**

**Whitewater Controlled Flow Study**

Date: 7/19/2014, 2014

Name: MIKE DUCLOS

1. Watercraft used (Circle appropriate one):

Hard shell kayak

Inflatable kayak

OC1

OC2

C1

Stand up paddle board

C2

Raft

Cataraft

Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

Beginner

Novice

Intermediate

Advanced

Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study?  
(Circle one)

0 times

1-5 times

6-10 times

11-20 times

>20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/19 AM	2500	-2	-1	0	1	2
7/19 PM	3500	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run? Note that minimum acceptable differs from minimum flow necessary to navigate.

2500

- From your perspective, what is the **optimum flow** for this run?

3500

7. Rate the flows evaluated in terms of your craft and skill level

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	2500				X	
2	3500					X
3						
4						
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	(4)	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	(4)	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive		X			
Other rivers in Massachusetts			X		
Other rivers in the northeast		X			
Other rivers in the country		X			

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

## Modified Revised Study Plan

Score using the following system:

1 = More desirable than Turners Falls bypass section of the Connecticut

2 = Similar to the Turners Falls bypass section of the Connecticut

3 = Less desirable than the Turners Falls bypass section of the Connecticut

4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater	4	4	1	4	1	4	1	4	3	3	1	
Suitable for intermediate boater	1	1			2		1		1	1	1	
Suitable for advanced boater	1	1	3		3		1		3	3	3	
Size & difficulty of features	1	1	2		1		1		1	1	1	
Play boating	1	2	2		1		1		1	1	1	
Rafting	1	1	2		1		3		1	3	3	
Tubing	1	1	3		1		3		3	3	3	
Canoeing	1	1	1		1		1		1	1	1	
Kayaking	1	1	1		1		1		1	1	1	
Eddy hopping	1	1	1		1		1		1	1	1	
Technical maneuvering	1	1	1		1		1		1	1	1	
River gradient	1	1	1		1		1		1	1	1	
Driving distance to river	1	1	1		3		3		1	1	1	
Shuttles	1	1	2		2		2		3	2	2	
Access to river	1	1	2		2		2		1	2	2	
Parking	1	1	2		2		2		1	2	2	
Scenery	1	1	2		2		2		2	2	2	
Water quality	1	1	2		1		1		2	1	1	
Overall	1	1	2		1		1		1	1	1	

11. Any other comments?  
 VALUE IN WARM WATER / SUMMER BOATING, ROCK DAM  
 FEATURE OF INTEREST TO ADVANCED BOATERS,  
 NOVICE INSTRUCTION POSSIBLE -  
 I LIKE VERY TECHNICAL RIVERS, SO NOT SO MUCH INTEREST FOR ME

Figure 3.6.3-1c: Comparative Flow Evaluation Form

**COMPARATIVE FLOW EVALUATION FORM**  
**Turners Falls Hydroelectric Project FERC No. 1889**  
**Whitewater Controlled Flow Study**

Date: 7/21, 2014

Name: Pat Perkins

1. Watercraft used (Circle appropriate one):

☒ Hard shell kayak

☐ Inflatable kayak

☐ OC1

☐ OC2

☐ C1

Play boat

☐ Stand up paddle board

☐ C2

☐ Raft

☐ Cataract

☐ Other (describe): \_\_\_\_\_

2. Your whitewater boating skill level (Circle one):

☐ Beginner

☐ Novice

☐ Intermediate

☒ Advanced

☐ Expert

*Please answer each of the following questions based on your experience or reaction to the river at each of the flows boated. If you have no opinion about a particular item, leave it blank. Please do not discuss these questions or your responses with other participants.*

3. How many times have you boated the Turners Falls bypass of the Connecticut River before this study? (Circle one)

☒ 0 times

☐ 1-5 times

☐ 6-10 times

☐ 11-20 times

☐ >20 times

4. A number of factors can affect one's satisfaction with a whitewater trip. How important are each of these factors to you? (Circle one number for each factor)

## Modified Revised Study Plan

	Not at all Important	Slightly Important	Moderately Important	Very Important	Extremely Important
Availability of features	1	2	3	4	5
Size/difficulty of features	1	2	3	4	5
Driving distance to river	1	2	3	4	5
Accessibility	1	2	3	4	5
Shuttle Availability	1	2	3	4	5
Crowding	1	2	3	4	5
Weather	1	2	3	4	5
Water temperature	1	2	3	4	5
Attractive scenery	1	2	3	4	5
Water quality	1	2	3	4	5
Thrilling experience	1	2	3	4	5
Safe trip	1	2	3	4	5

5. Evaluate the following flows for your craft and skill level. In making your evaluations, consider all the flow-dependent characteristics that contribute to a high quality trip (e.g., navigability, whitewater challenge, safety, availability of features, aesthetics, and length of run). If you did not boat a particular flow(s) during the evaluation, do not rate that flow.

Release Date/Time	Flow (CFS)	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
7/1	10,000	-2	-1	0	1	2
7/2	13,000	-2	-1	0	1	2
		-2	-1	0	1	2
		-2	-1	0	1	2

6. Based on your boating runs on this section of the Connecticut River as part of this study, specify the flows that provide the following types of experiences. (Note: you can specify flows that you did not run/observe, but which you think would provide the type of experience in question).

Flow (cfs)

- From a recreational perspective what is the **minimum acceptable flow** for this run?  
Note that minimum acceptable differs from minimum flow necessary to navigate.
- From your perspective, what is the **optimum flow** for this run?

No ideaNo idea

7. Rate the flows evaluated in terms of your craft and skill level *why the same as #5!?*

FLOW	CFS	Totally Unacceptable	Unacceptable	Neutral	Acceptable	Totally Acceptable
1	10,000			✓		
2	13,000			✓		
3						
4						
5						
6						

8. How important is it to have a variety of flows in the Turners Falls bypass section of the Connecticut River? Rate the importance of having variable flows for the reasons below, or check the box below the table.

A variety of flows is necessary to:	Not at all important	Slightly important	Moderately important	Very important	Extremely important
provide different types of boating experiences;	1	2	3	4	5
provide opportunities for people with different skill levels and watercraft;	1	2	3	4	5

or, ☐ it isn't important to provide a variety of flow levels for boating.

9. Compared to other rivers of similar difficulty, how would you rate the boating opportunities on the Turners Falls bypass section of the Connecticut River? (Circle appropriate response for each region. If you are unsure about a comparison, leave that item blank.)

Compared to:	Worse than average	Average	Better than average	Excellent	Among the very best
Other rivers within a 1 hour drive	✓				
Other rivers in Massachusetts	✓				
Other rivers in the northeast	✓				
Other rivers in the country	✓				

10. Based on your experience at other regional rivers, use the following scoring system to compare the boating opportunities at these regional rivers to those of the Turners Falls bypass section of the Connecticut River.<sup>1</sup> Assume optimal flow conditions for boating.

<sup>1</sup> Other rivers (and specific river sections) will be identified in consultation with whitewater boating stakeholders prior to the evaluation. Whitewater classifications of rivers and sections will be added to this table once sections are identified

Score using the following system:

- 1 = More desirable than Turners Falls bypass section of the Connecticut
- 2 = Similar to the Turners Falls bypass section of the Connecticut
- 3 = Less desirable than the Turners Falls bypass section of the Connecticut
- 4 = No experience boating the river

	Westfield, N. Branch - all sections	Quabog, Warren to Brimfield	Ashuelot, Gilsum to Shaw's Corner	Deerfield, E. Branch, Somerset to Searsburg	Deerfield, Fife Brook	Chickley, Hawley to Charlemont	Farmington, Otis to New Boston	Green, VT. To MA.	Millers, S. Royalston to Athol	Otter Brook, Roxbury to Keene	Souhegan, Greenville to Wilton	Westfield, N. Branch, all sections
Suitable for novice boater			/		/				2		/	
Suitable for intermediate boater			/		/				/		/	
Suitable for advanced boater			/		/				/		/	
Size & difficulty of features			/		/				/		/	
Play boating			/		/				/		/	
Rafting			/		/				/		/	
Tubing			X		/				X		X	
Canoeing			/		/				/		/	
Kayaking			/		/				/		/	
Eddy hopping			/		/				/		/	
Technical maneuvering			/		/				/		/	
River gradient			/		/				/		/	
Driving distance to river			/		/				/		/	
Shuttles			/		/				/		/	
Access to river			/		/				/		/	
Parking			/		/				/		/	
Scenery			/		/				/		/	
Water quality			/		/				/		/	
Overall			/		/				/		/	

11. Any other comments?

Both levels are similar in fun, though some waves are better @ 13, 20.