APPENDIX C. PILOT AND TRAINING MATERIALS

CONTENTS

◆ Survey forms for pilot test with prompts for feedback from both survey administrators and participants¹
  ◆ Verbal version
  ◆ Self-administered version
◆ Safer seafood from the Duwamish River poster
◆ Table C-1. Summary of feedback from pilot study

¹ Survey forms were translated into five additional languages for pilot testing: simplified Chinese, Korean, Spanish, Tagalog, and Vietnamese.
SURVEY FORM FOR PILOT (VERBAL VERSION)

Section A: Introduction

Hi, my name is __________. I am with ECOSS, a local environmental organization, and I’d like to ask you a few questions about fishing in the Duwamish River. If you can help me with these questions, which I think will take about 10 minutes, we can offer you a $10 card. We are asking these questions as part of a study to help us understand fishing from the Duwamish. This information will help the Environmental Protection Agency (EPA) and the Washington State Department of Ecology learn how to better protect people who fish in the Duwamish.

Key points:
- Responses cannot be linked to you personally
- Don’t have to answer any question that you don’t want to
- You may stop the interview at any time.

Do you have any questions and may I start interviewing you?

☐ A check in this box indicates that all questions posed by the subject have been answered to the subject’s satisfaction and that the subject has given verbal consent to be interviewed.

A1. Have you participated in this survey before?
(If yes, assure them that they will still get a $10 card for taking part in what will be a shorter survey today.)

Yes _____ No _____ Unsure _____ No answer _____

This is the end of Section A.

1. Were there any questions in this section that were difficult to answer? Which one(s) and why?

Prompts: Was this because...
- you weren’t sure you understood the question?
- it was difficult to recall the information?
- no answer to the question?
- the question didn’t apply to you?
- any other reason?

2. Do you have any recommendations to improve the questions in this section?

Overall thoughts / notes on Section A:
Section B: Purpose for Fishing

B1. What are the main reasons you fish?
(Do not read options; check answer closest to what they say, or several if they give more than one reason.)

- Getting food or fresh fish
- Social activity (time with family/friends)
- Time alone (relaxation)
- Tradition, something my family does
- Other

No answer

B2. Why do you come to this spot to fish?
(Do not read options; check answer closest to what they say, or several if they give more than one reason.)

- Fishing is good here
- It’s close to where I live or work
- I like the setting
- It is easy to get here
- Tradition, cultural practices
- Only place I know to fish
- Safe and friendly location
- No answer

Other

Questions B3 through B6:

<table>
<thead>
<tr>
<th>Species</th>
<th>B3. What are you fishing for today?</th>
<th>B4. What have you caught before from this river?</th>
<th>B5. Do you eat your catch from this river?</th>
<th>B6. Do you share your catch from this river with others?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(show pictures) (check all that apply)</td>
<td>(check all that apply) (circle responses)</td>
<td>(circle all that apply)</td>
<td></td>
</tr>
<tr>
<td>Salmon</td>
<td>yes no</td>
<td>yes-family yes-others no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perch</td>
<td>yes no</td>
<td>yes-family yes-others no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flounder/Sole</td>
<td>yes no</td>
<td>yes-family yes-others no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rockfish</td>
<td>yes no</td>
<td>yes-family yes-others no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other fish</td>
<td>yes no</td>
<td>yes-family yes-others no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clams</td>
<td>yes no</td>
<td>yes-family yes-others no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crab</td>
<td>yes no</td>
<td>yes-family yes-others no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Squid</td>
<td>yes no</td>
<td>yes-family yes-others no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anything I catch</td>
<td>yes no</td>
<td>yes-family yes-others no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>yes no</td>
<td>yes-family yes-others no</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No answer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
B7.  (For people who eat their catch) What’s the main reason you eat your catch?
(Only ask if person keeps and eats or shares their catch. Do not read options; check answer closest to what they say, or several if they give more than one reason.)

- Provides a meal
- Clean fish
- Tastes good
- Good for me
- Free (cost)
- No answer
- Other

B8.  (For people who do not eat their catch other than salmon) Why don’t you eat the seafood you catch?
(Do not read options; check answer closest to what they say, or several if they give more than one reason. Then go to Section D.)

- Fish only for fun
- Pollution /Cleanliness of fish
- Eat only salmon
- Use for bait
- Fish Advisory
- No answer
- Other

This is the end of Section B.

1. Were there any questions in this section that were difficult to answer? Which one(s) and why?
   Prompts: Was this because…
   * you weren’t sure you understood the question?
   * it was difficult to recall the information?
   * no answer to the question?
   * the question didn’t apply to you?
   * any other reason?

1b. Were there any other questions that were difficult to answer? [repeat this question until respondent answers no]
   Prompt: I noticed that you hesitated when answering this question [read question]. It would help me to know what you were thinking. Were you trying to understand the question, or to remember something for your answer, or something else?

2. Do you have any recommendations to improve the questions in this section?
Section C. Fishing Habits (for fishers who keep Duwamish seafood other than salmon)

(For those who eat Duwamish seafood or share their catch with others who eat it. If respondent has taken the survey before, do NOT ask questions in this section – skip to Question E3.)

C1. Not including salmon, in which seasons do you fish or collect seafood?

<table>
<thead>
<tr>
<th>Winter, spring, summer, or fall? (X if they fish in each season)</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>How often in each season?</td>
<td>Daily</td>
<td>Daily</td>
<td>Daily</td>
<td>Daily</td>
</tr>
<tr>
<td>Weekly</td>
<td>Weekly</td>
<td>Weekly</td>
<td>Weekly</td>
<td></td>
</tr>
<tr>
<td>Monthly</td>
<td>Monthly</td>
<td>Monthly</td>
<td>Monthly</td>
<td></td>
</tr>
<tr>
<td>Never</td>
<td>Never</td>
<td>Never</td>
<td>Never</td>
<td></td>
</tr>
<tr>
<td>No answer</td>
<td>No answer</td>
<td>No answer</td>
<td>No answer</td>
<td></td>
</tr>
</tbody>
</table>

C2. In addition to where you are fishing today, do you fish or collect seafood (other than salmon) at other locations on this river? If so, where?

(Show map; write down numbers of fishing zones 1 to 12.)

Zone number(s) _______ All zones ______ None ______ No answer ______

C3. Do you fish (for species other than salmon) or collect crab or clams from local waters other than this river?

Yes ______ No ______ Sometimes ______ No answer ______

If yes, where? (follow-up question to be asked at discretion of surveyor)

Locations: __________________________________________

This is the end of Section C.

1. Were there any questions in this section that were difficult to answer? Which one(s) and why?

Prompts: Was this because…
*you weren’t sure you understood the question?
*it was difficult to recall the information?
*no answer to the question?
*the question didn’t apply to you?
*any other reason?
1b. Were there any other questions that were difficult to answer? [repeat this question until respondent answers no]

Prompt: I noticed that you hesitated when answering this question [read question]. It would help me to know what you were thinking. Were you trying to understand the question, or to remember something for your answer, or something else?

2. Do you have any recommendations to improve the questions in this section?
Section D. Contamination Awareness and Communication

D1. Have you seen or heard anything about eating seafood caught from the river?

Yes ______  No ______

If YES, what? (Do not read options; check answer closest to what they say, or several if they give more than one.)

Fish, crab, and clams caught here are okay ______
Salmon are the best choice ______
Do not eat anything from this river ______

Other (please specify) ________________________________

D2 and D3:

<table>
<thead>
<tr>
<th>Source (Do not read options; check at right if indicated)</th>
<th>D2. If answered YES to D1: Where did you see/hear information about eating seafood from this river? (check all that apply and record name specified)</th>
<th>D3. If answered YES or NO to D1: Do you trust this source? (only ask for those sources identified)</th>
<th>What sources do you trust to get information? (check all that apply)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Word of mouth, talking with friends and family</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newspapers (specify name _______________________)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TV (specific name _______________________)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio (specify name _______________________)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internet or social media (e.g., Facebook)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Community/senior centers, community gatherings (specify name _______________________)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Places of worship</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Community health Clinics, centers, health providers (e.g., doctors, nurses)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Letters or flyers distributed in the community</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signs posted at fishing locations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bait and Tackle shops</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location where fishing license was purchased</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WDFW Fishing Pamphlet Regulations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information from Public Health Department</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>School</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**D2. If answered YES to D1:**

Where did you see/ hear information about eating seafood from this river? (check all that apply and record name specified)

**D3. If answered YES or NO to D1:**

Do you trust this source? (only ask for those sources identified)

**What sources do you trust to get information?** (check all that apply)

---

### Source
*(Do not read options; check at right if indicated)*

<table>
<thead>
<tr>
<th>Source</th>
<th>D2. If answered YES to D1:</th>
<th>D3. If answered YES or NO to D1:</th>
<th>What sources do you trust to get information?</th>
</tr>
</thead>
<tbody>
<tr>
<td>No answer</td>
<td>Where did you see/ hear information about eating seafood from this river? (check all that apply and record name specified)</td>
<td>Do you trust this source? (only ask for those sources identified)</td>
<td>(check all that apply)</td>
</tr>
<tr>
<td>Other (specify _______________________)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other notes about source described above:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### D4. What would be your preferred language for this information? *(Check all that apply)*

- English _____
- Hmong _____
- Miehn _____
- Korean _____
- Simplified Lao _____
- Khmer Chinese _____
- (Cambodian) Spanish _____
- Tagalog _____
- Vietnamese _____
- No answer _____
- Other (please specify) _______________________________________

---

**Question D4:**

**Overall thoughts / notes on Section D:**

1. Were there any questions in this section that were difficult to answer? Which one(s) and why?
   - Prompts: Was this because…
     - *you weren’t sure you understood the question?*
     - *it was difficult to recall the information?*
     - *no answer to the question?*
     - *the question didn’t apply to you?*
     - *any other reason?*

1b. Were there any other questions that were difficult to answer? [repeat this question until respondent answers no]
   - Prompt: I noticed that you hesitated when answering this question [read question]. It would help me to know what you were thinking. Were you trying to understand the question, or to remember something for your answer, or something else?

2. Do you have any recommendations to improve the questions in this section?
Section E. Additional Information

The questions in this section are intended to help us with outreach and education.

E1. We would like to better understand where people who fish in the Duwamish live. Would you mind sharing the name of the neighborhood where you live or your home zip code?

Zip code ________ Neighborhood ________________ No answer _____

E2. What do you consider your ethnicity/race?
(Chose all that apply.)

- American
- Indian/Alaska native
- Black/African American
- Bosnian
- Bhutanese
- Cambodian/Khmer
- Chinese
- Ethiopian
- Eritrean
- Filipino
- Hmong
- Indian
- Japanese
- Korean
- Lao
- Latino
- Mienh
- Mongolian
- Russian
- Samoan
- Somali
- Thai
- Vietnamese
- White/Caucasian
- Other (please specify) ________________

E3. We’ll be out conducting this survey for a year. We may run into you again out here, and you could take a shorter version of the survey and receive a card again. Could you please provide the first letter of your first name and the last 4 digits of your phone number. This will allow us to know whether you have taken the survey before but will not allow us to identify you.

First initial ______ No answer ______ Last 4 digits of phone number ________ No answer _____

E4. Do you have anything more you wish to share or do you have any questions?

________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
This is the end of Section E.

1. Were there any questions in this section that were difficult to answer? Which one(s) and why?
   Prompts: Was this because…
   *you weren’t sure you understood the question?
   *it was difficult to recall the information?
   *no answer to the question?
   *the question didn’t apply to you?
   *any other reason?

1b. Were there any other questions that were difficult to answer? [repeat this question until respondent answers no]
   Prompt: I noticed that you hesitated when answering this question [read question]. It would help me to know what you were thinking. Were you trying to understand the question, or to remember something for your answer, or something else?

2. Do you have any recommendations to improve the questions in this section?

Overall thoughts / notes on Section E
Section F. Questions for those willing to talk longer

Thank you very much for taking this survey. Here is the card (get card tracking form initialed). This concludes my questions; however, if you have some additional time, I have a few more questions about eating seafood and health. Would you be interested in answering these?

NO – Thank you very much for you help.

YES – continue below

F1. Do you think there are any benefits from eating seafood from this river? (If YES, ask what these might be.)
_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

F2. Do you think there are any risks from eating seafood from this river? (If YES, ask what these might be.)
_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

F3. How do you know if the seafood you catch is safe to eat?
_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

F4. Are some types of seafood from this river safer to eat than others? (If YES, ask which ones; how might they know this?)
_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

F5. What type of information would be most helpful for you about eating seafood from this river?
_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

Thank you very much for your help.
This is the end of Section F.

1. Were there any questions in this section that were difficult to answer? Which one(s) and why?
   Prompts: Was this because…
   *you weren’t sure you understood the question?
   *it was difficult to recall the information?
   *no answer to the question?
   *the question didn’t apply to you?
   *any other reason?

1b. Were there any other questions that were difficult to answer? [repeat this question until respondent answers no]
   Prompt: I noticed that you hesitated when answering this question [read question]. It would help me to know what you were thinking. Were you trying to understand the question, or to remember something for your answer, or something else?

2. Do you have any recommendations to improve the questions in this section?
End of Survey
This is the end of the survey, but I have a couple more questions for you about the overall survey.

These questions are for the respondent.
This is the end of the survey. What are your thoughts about the length of the survey? Was it survey too long or just about right?

Do you have any recommendations to improve the survey?

These questions are for the surveyor to answer.
Was it difficult to use probes, or otherwise get respondent to answer with more depth or detail? Please explain.

Do you have any suggestions to improve the quality of information that we get from the survey?

Do you have any recommendations to improve the survey?
Continued Involvement
This page will be kept separate from the results of the pilot survey so that the results of the survey cannot be tied to specific individuals.

Would you like to be informed about the results of the pilot?

YES (if yes, please write participant’s name)

NO

If yes, how would you like to be notified?

1 – Would you be interested in attending a meeting? If so, how would you like to receive an invitation?

2 – Would you like to receive a phone call from ECOSS? If so, please provide your phone number.

3 – Would you like to be emailed the results? If so, please provide your email address.
### Section G. For interviewer to fill out after respondent has completed the survey

| G1. Interviewer                  | __________________________ |
| G2. Location                     | __________________________ |
| G3. Date                         | __________________________ |
| G4. Time                         | __________________________ |
| G5. Language used                | __________________________ |
| G6. Gender of respondent         | __________________________ |

#### G7. Estimated age of respondent

<table>
<thead>
<tr>
<th>Range</th>
<th>Under 18 years</th>
<th>18 to 30 years</th>
<th>30 to 50 years</th>
<th>50 years or older</th>
</tr>
</thead>
</table>

| G8. Number of fishers in group with respondent | __________________________ |

#### G9. Additional notes from survey:

Did the survey appear to be understandable and comfortable to use? (suggestions for changes to survey questions or directions)

Cultural context notes that could help interviewer better understand answers

Notes for future interviews (e.g., potential questions for interviews, suggestions for format)

Other observations:
SURVEY FORM FOR PILOT (SELF-ADMINISTER VERSION)

Section A: Introduction

This is a survey about fishing in the Duwamish River. If you'd be willing to answer some questions on this topic, which should take about 10 minutes, we can offer you a $10 card. We are asking these questions as part of a study to help us understand fishing from the Duwamish River. This information will help the Environmental Protection Agency (EPA) and the Washington State Department of Ecology learn how to better protect people who fish in the Duwamish. There are a couple of key points that we want to make sure you are aware of:

1 – Your answers will be kept anonymous and confidential
2 – Your responses cannot be linked to you personally
3 – You don’t have to answer any question that you don’t want to
4 – You may stop the interview at any time.

The individuals out conducting this survey are from ECOSS, a local environmental organization. If you have any questions about this information, or questions while filling out the survey, please feel free to ask them for assistance.

☐ If you understand the above information and have no further questions, please check this box to indicate that you are willing to fill out this survey form.

A1. Have you participated in this survey before? (Please mark the box below that applies. If yes, you will still get a $10 card for taking part in a shorter survey today.)

Yes _____  No _____  Unsure _____  No answer _____

This is the end of Section A.

1. Were there any questions in this section that were difficult to answer? Which one(s) and why? (Please list all questions in this section that you struggled with, and use the prompts below to help you answer this question.

Prompts: Was this because…
*you weren’t sure you understood the question?
*it was difficult to recall the information?
*no answer to the question?
*the question didn’t apply to you?
*any other reason?

2. Do you have any recommendations to improve the questions in this section?
Section B: Purpose for Fishing

B1. What are the main reasons you fish?  
(Please mark any answers that apply or write your answer in the “other” space.)

- Getting food or fresh fish
- Social activity (time with family/friends)
- Time alone (relaxation)
- Tradition, something my family does
- Other
- No answer

B2. Why do you come to this spot to fish?  
(Please mark any answers that apply or write your answer in the “other” space.)

- Fishing is good here
- It’s close to where I live or work
- I like the setting
- It is easy to get here
- Tradition, cultural practices
- Only place I know to fish
- Safe and friendly location
- No answer
- Other

Questions B3 through B6:
(If seeing pictures of seafood would be helpful, please refer to the species identification card that shows pictures of different types of seafood to help answer questions B3 through B6.)

<table>
<thead>
<tr>
<th>Species</th>
<th>B3. What are you fishing for today?</th>
<th>B4. What have you caught before from this river?</th>
<th>B5. Do you eat your catch from this river?</th>
<th>B6. Do you share your catch from this river with others?</th>
</tr>
</thead>
<tbody>
<tr>
<td>(show pictures)</td>
<td>(Please mark all options that apply)</td>
<td>(Please mark all options that apply)</td>
<td>(Please circle responses for each species)</td>
<td>(Please circle all that apply for each species)</td>
</tr>
<tr>
<td>Salmon</td>
<td>yes</td>
<td>no</td>
<td>yes-family</td>
<td>yes-others</td>
</tr>
<tr>
<td>Perch</td>
<td>yes</td>
<td>no</td>
<td>yes-family</td>
<td>yes-others</td>
</tr>
<tr>
<td>Flounder/Sole</td>
<td>yes</td>
<td>no</td>
<td>yes-family</td>
<td>yes-others</td>
</tr>
<tr>
<td>Rockfish</td>
<td>yes</td>
<td>no</td>
<td>yes-family</td>
<td>yes-others</td>
</tr>
<tr>
<td>Other fish</td>
<td>yes</td>
<td>no</td>
<td>yes-family</td>
<td>yes-others</td>
</tr>
<tr>
<td>Clams</td>
<td>yes</td>
<td>no</td>
<td>yes-family</td>
<td>yes-others</td>
</tr>
<tr>
<td>Crab</td>
<td>yes</td>
<td>no</td>
<td>yes-family</td>
<td>yes-others</td>
</tr>
<tr>
<td>Squid</td>
<td>yes</td>
<td>no</td>
<td>yes-family</td>
<td>yes-others</td>
</tr>
<tr>
<td>Anything I catch</td>
<td>yes</td>
<td>no</td>
<td>yes-family</td>
<td>yes-others</td>
</tr>
<tr>
<td>Other</td>
<td>yes</td>
<td>no</td>
<td>yes-family</td>
<td>yes-others</td>
</tr>
<tr>
<td>No answer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**B7.** *(Answer only if you eat/share your catch from this river)* What’s the main reason you eat your catch?  
*(Please mark any answers that apply or write your answer in the “other” space. Then skip to Section C.)*

- Provides a meal  
- Clean fish  
- Tastes good  
- Good for me  
- Free (cost)  
- No answer  
- Other

**B8.** *(Answer only if you do not eat/share your catch other than salmon)* Why don’t you eat the seafood you catch?  
*(Please mark any answers that apply or write your answer in the “other” space. After you answer this question, you may skip to Section D.)*

- Fish only for fun  
- Pollution /Cleanliness of fish  
- Eat only salmon  
- Use for bait  
- Fish Advisory  
- No answer  
- Other

This is the end of Section B.

1. Were there any questions in this section that were difficult to answer? Which one(s) and why?  
*(Please list all questions in this section that you struggled with, and use the prompts below to help you answer this question)*

Prompts: Was this because…  
*you weren’t sure you understood the question?*  
*it was difficult to recall the information?*  
*no answer to the question?*  
*the question didn’t apply to you?*  
*any other reason?*

2. Do you have any recommendations to improve the questions in this section?
If you have taken this survey before, you may skip to Question E3.

Section C. Fishing Habits

(Answer the questions in this section only if you eat Duwamish seafood other than salmon or share your catch with others who eat it. Otherwise, skip to Section D.)

C1. Not including salmon, in which seasons do you fish or collect seafood?

<table>
<thead>
<tr>
<th>Winter, spring, summer, or fall?</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>How often in each season?</td>
<td>Daily</td>
<td>Daily</td>
<td>Daily</td>
<td>Daily</td>
</tr>
<tr>
<td></td>
<td>Weekly</td>
<td>Weekly</td>
<td>Weekly</td>
<td>Weekly</td>
</tr>
<tr>
<td></td>
<td>Monthly</td>
<td>Monthly</td>
<td>Monthly</td>
<td>Monthly</td>
</tr>
<tr>
<td></td>
<td>Never</td>
<td>Never</td>
<td>Never</td>
<td>Never</td>
</tr>
<tr>
<td></td>
<td>No answer</td>
<td>No answer</td>
<td>No answer</td>
<td>No answer</td>
</tr>
</tbody>
</table>

C2. In addition to where you are fishing today, do you fish or collect seafood (other than salmon) at other locations on this river? If so, where?

(Using the map of the Duwamish fishing areas, please write down numbers for the fishing zone where you fish, or mark one of the other boxes below)

Zone number(s) All zones None No answer

C3. Do you fish (for species other than salmon) or collect crab or clams from local waters other than this river?

(Please mark your answer in the boxes below)

Yes No Sometimes No answer

If yes, where? (Please write the names of other locations where you fish, or describe these locations if you do not know the names)

Locations:

__________________________________________________________________________________________
This is the end of Section C.

1. Were there any questions in this section that were difficult to answer? Which one(s) and why?
(Please list all questions in this section that you struggled with, and use the prompts below to help you answer this question.)

Prompts: Was this because…
* you weren’t sure you understood the question?
* it was difficult to recall the information?
* no answer to the question?
* the question didn’t apply to you?
* any other reason?

2. Do you have any recommendations to improve the questions in this section?
Section D. Contamination Awareness and Communication

D1. Have you seen or heard anything about eating seafood caught from the river? (Please mark your answer in the boxes below)

Yes ________  No ________

If YES, what? (Please mark any answers that apply or write your answer in the “other” space.)

Fish, crab, and clams caught here are okay ________
Salmon are the best choice ________
Do not eat anything from this river ________

Do not eat certain kinds (of seafood) ________
Fish are a healthy food ________

Fish advisory ________
No answer ________

Other (please specify) ____________________________________________

D2 and D3: (Please mark all answers that apply for questions D2 and D3 in the table below.)

<table>
<thead>
<tr>
<th>Source (Do not read options; check at right if indicated)</th>
<th>D2. If answered YES to D1: Where did you see/hear information about eating seafood from this river? (Mark all of the options that apply and write specific names, if applicable)</th>
<th>D3. If answered YES or NO to D1: Do you trust this source? (Write yes/no for those sources identified)</th>
<th>What sources do you trust to get information? (Please mark all of the options that apply)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Word of mouth, talking with friends and family</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newspapers (specify name ________________________________)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TV (specify name ________________________________________)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio (specify name ________________________________________)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internet or social media (e.g., Facebook)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Community/senior centers, community gatherings (specify name ________________________________________)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Places of worship</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Community health Clinics, centers, health providers (e.g., doctors, nurses)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Letters or flyers distributed in the community</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signs posted at fishing locations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bait and Tackle shops</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location where fishing license was purchased</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Question D1:

Question D2:

Question D3:
### Source
(Do not read options; check at right if indicated)

<table>
<thead>
<tr>
<th>Source</th>
<th>D2. If answered YES to D1: Where did you see/hear information about eating seafood from this river? (Mark all of the options that apply and write specific names, if applicable)</th>
<th>D3. If answered YES or NO to D1: Do you trust this source? (Write yes/no for those sources identified)</th>
<th>What sources do you trust to get information? (Please mark all of the options that apply)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WDFW Fishing Pamphlet Regulations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information from Public Health</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>School</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No answer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify _____________________)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other notes about source described above:

---

**D4. What would be your preferred language for this information?**
(Please mark any answers that apply or write your answer in the “other” space.)

- English
- Hmong
- Miehn
- Korean
- Lao
- Simplified Chinese
- Khmer
- Tagalog
- Vietnamese
- No answer
- Other (please specify ___________________________________________________________________________)

---

This is the end of Section D.

1. **Were there any questions in this section that were difficult to answer? Which one(s) and why?**
(Please list all questions in this section that you struggled with, and use the prompts below to help you answer this question.)

Prompts: Was this because…
*you weren’t sure you understood the question?
*it was difficult to recall the information?
*no answer to the question?
*the question didn’t apply to you?
*any other reason?

2. **Do you have any recommendations to improve the questions in this section?**
Section E. Additional Information

The questions in this section are intended to help us with outreach and education.

E1. We would like to better understand where people who fish in the Duwamish live. Would you mind sharing the name of the neighborhood where you live or your home zip code? (Please write your answers in the space below.)

Zip code ________ Neighborhood ________________ No answer _____

E2. What do you consider your ethnicity/race? (Please mark all that apply.)

- American ______
- Indian/Alaska native ______
- Black/African American ______
- Bosnian ______
- Burmese ______
- Cambodian/Khmer ______
- Chinese ______
- Ethiopian ______
- Eritrean ______
- Filipino ______
- Hmong ______
- Indian ______
- Japanese ______
- Korean ______
- Lao ______
- Latino ______
- Mienh ______
- Mongolian ______
- Russian ______
- Samoan ______
- Thai ______
- Vietnamese ______
- White/Caucasian ______
- Other (please specify) ____________________________

E3. We’ll be out conducting this survey for a year. We may run into you again out here, and you could take a shorter version of the survey and receive a card again. Could you please provide the first letter of your first name and the last 4 digits of your phone number. This will allow us to know whether you have taken the survey before but will not allow us to identify you. (Please write your answers in the space below.)

First initial ______ No answer ______ Last 4 digits of phone number ______ No answer _____

E4. Do you have anything more you wish to share or do you have any questions? (Please use the space below to write any questions / comments you have about this survey.)

______________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________________
This is the end of Section E.

1. Were there any questions in this section that were difficult to answer? Which one(s) and why?
(Please list all questions in this section that you struggled with, and use the prompts below to help you answer this question.)

Prompts: Was this because…
* you weren’t sure you understood the question?
* it was difficult to recall the information?
* no answer to the question?
* the question didn’t apply to you?
* any other reason?

2. Do you have any recommendations to improve the questions in this section?
Thank you very much for taking this survey. This concludes the survey questions; however, if you have some additional time, we have a few more questions about eating seafood and health. If you are interested in answering these questions, please use the space below to record your answers. If not, please let the surveyor know that you are done, and you will receive your $10 card.

Section F. Questions for those willing to talk longer

F1. Do you think there are any benefits from eating seafood from this river?  
(If YES, please use the space below to write what these might be.)

_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

F2. Do you think there are any risks from eating seafood from this river?  
(If YES, please use the space below to write what these might be.)

_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

F3. How do you know if the seafood you catch is safe to eat?  
(Please use the space below to write your answer.)

_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

F4. Are some types of seafood from this river safer to eat than others?  
(If YES, please write which types of seafood are safer in the space below, and let us know how you know this information)

_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

F5. What type of information would be most helpful for you about eating seafood from this river?  
(Please use the space below to write your answer.)

_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

Thank you very much for your help.
This is the end of Section F.

1. Were there any questions in this section that were difficult to answer? Which one(s) and why? (Please list all questions in this section that you struggled with, and use the prompts below to help you answer this question.)

Prompts: Was this because…
*you weren’t sure you understood the question?
*it was difficult to recall the information?
*no answer to the question?
*the question didn’t apply to you?
*any other reason?

2. Do you have any recommendations to improve the questions in this section?
### End of Survey

This is the end of the survey. We have a couple more questions for you about the overall survey.

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>What are your thoughts about the length of the survey? Was it survey too long or just about right?</td>
<td></td>
</tr>
<tr>
<td>Do you have any recommendations to improve the survey?</td>
<td></td>
</tr>
</tbody>
</table>
Continued Involvement
This page will be kept separate from the results of the pilot survey so that the results of the survey cannot be tied to specific individuals.

Would you like to be informed about the results of the pilot?

YES (if yes, please write your name)

NO

If yes, how would you like to be notified?

1 – Would you be interested in attending a meeting? If so, how would you like to receive an invitation?

2 – Would you like to receive a phone call from ECOSS? If so, please provide your phone number.

3 – Would you like to be emailed the results? If so, please provide your email address.
You are done with the survey. Please give this form back to the person who is overseeing your participation in this pilot test. Thank you again for your help.

Section G. For interviewer to fill out after respondent has completed the survey

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>G1. Interviewer</td>
<td></td>
</tr>
<tr>
<td>G2. Location</td>
<td></td>
</tr>
<tr>
<td>G3. Date</td>
<td></td>
</tr>
<tr>
<td>G4. Time</td>
<td></td>
</tr>
<tr>
<td>G5. Language used</td>
<td></td>
</tr>
<tr>
<td>G6. Gender of respondent</td>
<td></td>
</tr>
<tr>
<td>G7. Estimated age of respondent (multiple-choice ranges)</td>
<td>Under 18 years   18 to 30 years   30 to 50 years   50 years or older</td>
</tr>
<tr>
<td>G8. Number of fishers in group with respondent</td>
<td></td>
</tr>
</tbody>
</table>

G.9. Additional notes from survey:

Did the survey appear to be understandable and comfortable to use? (suggestions for changes to survey questions or directions)

Cultural context notes that could help interviewer better understand answers

Notes for future interviews (e.g., potential questions for interviews, suggestions for format)

Other observations:
These questions are for the surveyor to answer:

Was it difficult to use this self-administered version of the survey? Did the respondent seem to understand the survey, or did they have questions about the directions?

Do you have any suggestions to improve the quality of information that we get from the survey, particularly this self-administered version?

Do you have any recommendations to improve the survey, particularly this self-administered version?

If you have administered both the verbal and self administered versions of the survey, do you think that any of the questions in the self-administered version of the survey are leading (because potential answers are visible)? Also, did you notice any issues in the use or understanding of the handouts when the survey was self-administered?

Other Notes?
Salmon are the Healthiest Choice
Fishing is important for physical, mental, and cultural health. Fish are part of a healthy diet.

But the Duwamish River is polluted with chemicals that get into resident fish, shellfish, and crab that spend their entire lives in the river.

Salmon are the healthiest choice because they spend only a short time in the river. They are nutritious and full of Omega-3s which are good for your heart and brain.

Healthy Tips:
1. Remove skin, fat, and internal organs.
2. Grill, bake, broil, or steam so fat drips off. DON’T use fat drippings for sauces or soups.
3. Eat younger, smaller fish (within legal limits). They have less chemicals.

SAFE TO EAT
2-3 MEALS per week

<table>
<thead>
<tr>
<th>Fish</th>
<th>MEALS per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chum</td>
<td>2-3</td>
</tr>
<tr>
<td>Coho</td>
<td>2-3</td>
</tr>
<tr>
<td>Pink</td>
<td>2-3</td>
</tr>
<tr>
<td>Sockeye</td>
<td>2-3</td>
</tr>
<tr>
<td>Chinook (King)</td>
<td>1</td>
</tr>
</tbody>
</table>

LIMIT
1 MEAL per week

<table>
<thead>
<tr>
<th>Fish</th>
<th>LIMIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chinook (King)</td>
<td>1 MEAL</td>
</tr>
</tbody>
</table>

Resident Chinook caught during winter

CAUTION
2 MEALS per month

<table>
<thead>
<tr>
<th>Fish</th>
<th>MEALS per month</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blackmouth</td>
<td>2 MEALS</td>
</tr>
</tbody>
</table>

EVERYONE - DO NOT EAT RESIDENT FISH, SHELLFISH, or CRAB
Especially WOMEN who are or may become PREGNANT, NURSING MOTHERS, and CHILDREN.
They have chemicals that can harm the growth and brain development of babies and children.

Washington State Department of Health
Toll Free 1-877-485-7316 www.doh.wa.gov/fish
Available in other formats for people with disabilities 1-800-525-0127 (TDD/TTY call 711).
Table C-1. Summary of feedback from pilot study

| Section/Question | Summary of Feedback from June 24 Training | Summary of Feedback from Pilot Tests | Suggested Revision(s)/Recommendations*
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section A</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introductory text/consent checkbox</td>
<td>• Make Introduction more conversational and shorter.</td>
<td>• This section was clear to participant (n = 6).</td>
<td>• Provide additional surveyor practice and additional training on why this section is needed to help make this text more comfortable/faster.</td>
</tr>
<tr>
<td></td>
<td>• Make sure to emphasize that ECOSS is a local environmental group.</td>
<td>• Surveyor recommended asking participants to save questions about the river until the end of the survey.</td>
<td>• Adjust check box language to clarify that it is about consent and that questions about the river/health/seafood consumption will be answered at the end of the survey.</td>
</tr>
<tr>
<td></td>
<td>• Should include text to reassure people that surveyor is not a game warden (n = 2); don’t ask to see fishing license or catch.</td>
<td>• Surveyor concerned that participant might feel bombarded with too much information (n = 1) and concerned that introduction might take too long to go through (n = 1).</td>
<td></td>
</tr>
<tr>
<td>Question A1: Have you participated in this survey before?</td>
<td>None</td>
<td>No feedback/no problems reported for any of the pilot tests.</td>
<td>None</td>
</tr>
<tr>
<td>Question B1: What are the main reasons you fish?</td>
<td>• Need standard answer for when people stop survey part way through (How much is enough?).</td>
<td>• Participant suggested that when approaching people, surveyor should begin with a casual conversation, then shake the person’s hand before going through original introduction (n = 1).</td>
<td>• Develop FAQ sheet with answers to frequently asked questions for surveyor use in the field. List of questions to be developed based on suggestions in this feedback (see draft list at end of table).</td>
</tr>
<tr>
<td></td>
<td>• Make sure people understand why we are doing this survey.</td>
<td>• Participant recommended an increase in the value of the $10 card (n = 2).</td>
<td>• Add text to introductory language stating that surveyor is not a game warden and is not there to check fishing license/catch.</td>
</tr>
<tr>
<td></td>
<td>• Need standard answer for “When is it safe to fish?”</td>
<td>• Participant felt question seemed a little personal to ask, question was nosy/surprised participant (n = 2).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Need a way for surveyors to deal with questions asked at the beginning that they have been asked to not answer until the end of the survey.</td>
<td>• Surveyor/participant thinks question is strange/awkward/funny/did not like (n = 4).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• For pilot test, let participants know that it will take 45 min to 1 hour.</td>
<td>• No feedback/no problems reported (n = 6).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Some participants may not be familiar with EPA.</td>
<td>• Add recreation to the list of reasons.</td>
<td></td>
</tr>
<tr>
<td><strong>Section B</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Question B1: What are the main reasons you fish?</td>
<td>• Reason seems obvious to people standing on pier – could be hard for them to summarize (n = 2).</td>
<td>• Surveyor/participant thinks question is strange/awkward/funny/did not like (n = 4).</td>
<td>• Implement text to introductory language stating that surveyor is not a game warden and is not there to check fishing license/catch.</td>
</tr>
<tr>
<td></td>
<td>• People might prefer to say why friends/family fish?</td>
<td>• No feedback/no problems reported (n = 6).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Questions B1 and B2 are awkward – hard to describe benefits from specific “spot” vs. general benefits from eating seafood.</td>
<td>• Add recreation to the list of reasons.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Participant felt participant said he was “fishing for fun” because he knew the fish might be polluted (so didn’t want to say he was fishing to eat the fish).</td>
<td>• No feedback/no problems reported (n = 7).</td>
<td></td>
</tr>
<tr>
<td>Question B2: Why do you come to this spot to fish?</td>
<td>• Seem obvious; may just get answers along the lines of “this is where the fish are.”</td>
<td>• Surveyor felt question seemed a little personal to ask, question was nosy/surprised participant (n = 2).</td>
<td>• Develop FAQ sheet with answers to frequently asked questions for surveyor use in the field. List of questions to be developed based on suggestions in this feedback (see draft list at end of table).</td>
</tr>
<tr>
<td></td>
<td>• People may want to know why we are asking this.</td>
<td>• One participant was open and had no problems with the question.</td>
<td>• Add “for fun/recreation” as a response option.</td>
</tr>
<tr>
<td></td>
<td>• Catching for recreation or catch &amp; release may be more common in other areas of Seattle, but fishers are catching to eat in SW Seattle.</td>
<td>• No feedback/no problems reported (n = 7).</td>
<td>• Move Question B2 to the end Section B (after old Question B1 and before Question C1 about how often people fish). This change creates a more logical flow for the survey.</td>
</tr>
<tr>
<td>Question B3: What are you fishing for today?</td>
<td>• May be quicker if you give people the table and let them fill it out themselves, or at least let them look at the table.</td>
<td>• Surveyor felt question seemed a little personal to ask, question was nosy/surprised participant (n = 2).</td>
<td>• Move Question B1 to the end of Section B. Participant dislike for this question and similar questions is addressed by removing Questions B7 and F1 and moving this question to the end of Section B (so that we don’t start with a question that was disliked by participants).</td>
</tr>
<tr>
<td>Question B4: What have you caught before from this river?</td>
<td>• May be quicker if you give people the table and let them fill it out themselves, or at least let them look at the table.</td>
<td>• Participant was open and had no problems with the question.</td>
<td>• Add “for fun/recreation” as a response option.</td>
</tr>
<tr>
<td></td>
<td>• Make sure to show pictures; elders don’t know species names, and/or names in different languages may not match (n = 2).</td>
<td>• No feedback/no problems reported (n = 7).</td>
<td>• Do not recommend giving table to participant. Instead, use species picture sheet to prompt participants (particularly since species names may not be familiar to people). Training will cover this procedure.</td>
</tr>
<tr>
<td></td>
<td>• For B4, fishers like to brag, so they may go back many years regarding what they’ve caught.</td>
<td>• Participant felt question seemed a little personal to ask, question was nosy/surprised participant (n = 2).</td>
<td>• Specify that answers to Question B4 are for the past few years.</td>
</tr>
<tr>
<td></td>
<td>• Some confusion about whether this question is about just this spot or the entire LDW.</td>
<td>• Participant recommended an increase in the value of the $10 card (n = 2).</td>
<td>• Add shrimp as response option.</td>
</tr>
<tr>
<td></td>
<td>• It will help if participant can look at the table (n = 1).</td>
<td>• No feedback/no problems reported for either question (n = 4).</td>
<td></td>
</tr>
</tbody>
</table>
Question B5: Do you eat your catch from this river?
Question B6: Do you share your catch from this river with others?

- Need better way to go through Questions B5 and B6. Asking each question for all species is a lot (comment from several ECOSS staff).
- Suggest not asking B5 and B6 for each species – ask these in general.
- Make B6 shorter – question is confusing.
- ECOSS suggestion: ask B6 only for salmon + non-salmon. Debra/Public Health argued that they would like this information for specific species (some species are safer to eat than others).
- Recommend choosing questions carefully – don’t ask too much that you don’t really need to know.
- Molly: should say family OR others for B6.
- Maybe can have people circle F for family and O for others.
- Molly and ECOSS support reducing the size of the table (e.g., removing columns).
- Participant told story about social activities for B5 (n = 1).
- Surveyor felt responses were contradictory between B1 and B5 and B6 (before participant said he only fished for fun).
- B6 seems repetitive; suggest combining sharing questions (family and others).
- No feedback/no problems reported for either question (n = 8).

- Do not include Questions B5 and B6 in the table with Questions B3 and B4. Instead, ask generally about whether participants eat/share their catch for non-salmon species. Questions B5 and B6 were noted to be difficult to answer and time-consuming for people.
- Do not distinguish between sharing with family and others. Instead ask generally about sharing catch.
- Revised language for these questions will be as follows:
  - B5: Do you eat any of the fish or shellfish that you catch from this river, other than salmon?
  - B6: Do you share your catch from this river, other than salmon, with others?

Question B7: What’s the main reason you eat your catch?
Question B8: Why don’t you eat the seafood you catch?

- Answer to “Why do you fish?” seems really obvious to fishers (e.g., Why wouldn’t you fish?). Fishers won’t like this question.
- If people only catch some of the non-salmon fish that they catch, should we ask both B7 and B8? Rhonda suggested putting B7 + B8 on same line (make it clear that you ask one or the other). Maybe rephrase: “Why do or don’t you eat your non-salmon catch?”
- Make skip pattern more clear. Clarify that B8 is only for people who eat only salmon (or don’t eat catch).
- B7 seems repetitive – suggest removing.
- Surveyor was confused by participant’s response to eating and sharing questions.
- Participant was irritated by B7; found hard to answer/answer seemed obvious (n = 5).
- Surveyor tried to ask if participant ate anything besides salmon.
- No feedback/no problems reported for either question (n = 5).

- Remove Question B7. Many participants were irritated by the question or found it hard to answer. Several surveyors and participants felt the answer was obvious and repetitive with other questions. Note that Question B1, which was similar to B7, will be moved to the end of Section B.
- Retain Question B8 for those who do not eat their catch or eat only salmon.
- Move Question B8 to follow Question B5 to improve skip pattern (per Molly’s suggestion).

General feedback on Section B

- Shorten questions in table (B3-B6).
- Table format was hard for surveyors, although this may improve with more practice.
- People might be confused by the term “resident” or “seafood” because the Duwamish is a river (not an ocean).
- Need to have pictures and information ready, the skip pattern worked fine.
- Questions B3 through B6 were difficult to answer in the self-administered version; too much information.
- Participant was irritated by this section.
- Participant recommended adding a question about what people do with the fish that they don’t keep (n = 1).
- Participant responses were not relevant to the questions (he asked about rumors he had heard about the river).
- Participant was confused (n = 1).
- Participant hesitated to respond (n = 1).
- Surveyor was confused (n = 1).
- Participant noted it’s hard to remember how often he fishes; also it’s different every year.
- No feedback/no problems reported (n = 5).

- See suggestions above.
- As part of training, have surveyors tell participants they can talk about any questions that come up during this section at the end of the survey.

Section C

Question C1: Not including salmon, in which seasons do you fish or collect seafood?

- Does question about fishing frequency refer to a specific spot or the Duwamish in general? Need to clarify.
- Question took some time to think about but wasn’t hard to answer.
- People may be afraid to answer C1 if they fish outside of allowed seasons; make sure they know that you’re not a game warden.
- Table was helpful (n = 1).
- Participant hesitated to respond (n = 1).
- Surveyor was confused (n = 1).
- Participant noted it’s hard to remember how often he fishes; also it’s different every year.
- No feedback/no problems reported (n = 5).

- Specify that responses to Question C1 are, on average, over the past several years.
- If participant hesitates, have optional reminder that surveyor is not a game warden and is not there to enforce fishing regulations.

Question C2: In addition to where you are fishing today, do you fish or collect seafood (other than salmon) at other locations on this river? If so, where?

- Most people don’t want to share secret spots – make it clear we are just asking about general zones. Change question to say “what areas?”
- May be easier to give landmarks; people may not be able to read map and know zones.
- Confusion regarding whether this question refers to just the LDW or to other areas as well. Suggest clarifying.
- Participant may not know areas of Duwamish River (n = 1).
- Helped to have a map; map is a good tool (n = 2).
- Participant suggestion: point out on map where the interview is occurring to help orient participant. Interviewers should also learn locations of common fishing areas and their nearby landmarks.
- Participant was confused; point out on map; thought many people wouldn’t understand this (n = 2).
- Questions C2 and C3 sounded similar to participant; need to clarify.
- Participant was confused about whether we were talking about all fishing areas or just the Duwamish River.
- No feedback/no problems reported (n = 5).

- Remove Question C2. Unclear how information will be used, and having the map adds time and complexity to the survey.
<table>
<thead>
<tr>
<th>Section/Question</th>
<th>Summary of Feedback from June 24 Training</th>
<th>Summary of Feedback from Pilot Tests</th>
<th>Suggested Revision(s)/Recommendations$^a$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Question C3:</td>
<td>Questions about why we need to know this information since we already know the safer spots to fish. At least need to define timeframe (e.g., in past 5 years) or people may go back a long time. People won’t want to tell exact location. Add Ballard to this map; have a more zoomed-out map of King County.</td>
<td>Participant initially appeared confused; repeating question helped. Need to define what is considered local? Westport? (n = 2). Participant went off topic (talked for 5 to 10 minutes about other fishing conquests). Need to be more clear about species (i.e., non-salmon). Participant answered no but interviewer knew he fishes in other areas. No feedback/no problems reported (n = 5).</td>
<td>Change “local” to “greater Seattle area” or delete reference altogether. Provide a location to write in where fishing occurs outside the LDW if it is provided.</td>
</tr>
<tr>
<td>General feedback on Section C</td>
<td>Suggest removing C3 (n = 2); people may not provide accurate information anyway. Section was clear, map was helpful. Participant thought few people would understand the map. Helpful to remind people again that the survey is confidential. Surveyor had to explain a lot about the different species to one participant. Participant suggested using the term “marine life” rather than “species.” Also clarify we are talking about all seafood.</td>
<td></td>
<td>See above suggestions.</td>
</tr>
<tr>
<td>Question D1:</td>
<td>Have you seen or heard anything about eating seafood caught from the river? If yes, what? ECOSS comment – this question makes people wonder if they should have seen or heard something (What is it that I should know?). May be confusing to participant.</td>
<td>Question seemed repetitive with previous question(s) (n = 2). No feedback/question was clear/no problems reported (n = 8).</td>
<td>Participant concern about the repetitive nature of this comment would be addressed by eliminating Question B7 (see above).</td>
</tr>
<tr>
<td>Question D2:</td>
<td>Where did you see/hear information about eating seafood from this river? Do you trust this source? Table is hard to follow; make more clear. Don’t understand why asking this question. Don’t trust responses from fishers. Participant became defensive/annoyed/irritated. Two of these participants were confused by this question and found it difficult to answer. Questions D2 and D3 were offensive because we asked if they trust their friends as a source of information. No feedback/no problems reported (n = 7).</td>
<td>Participant became defensive/annoyed/irritated (n = 3); two of these participants were confused by this question and found it difficult to answer. Participant suggested adding Thai to the language list. Questions D2 and D3 were offensive because we asked if they trust their friends as a source of information. No feedback/no problems reported (n = 7).</td>
<td>Remove second part of Question D2 (trust component of question). Question was found to be offensive/initiating to multiple participants. Revised Question D3 is sufficient to obtain this information (see below). Show participant list of source options.</td>
</tr>
<tr>
<td>Question D3:</td>
<td>What sources do you trust to get information? Hard to think of what trusted sources would be. Question was confusing to participant, and surveyor felt he could not explain the concept well; concept was not making sense to the interviewee. Participants became annoyed/irritated/defensive; asked why they question their source (n = 3). Participant did not like this question – “source” concept was confusing. No feedback/no problems reported (n = 6).</td>
<td>Participant suggested adding Thai to the language list. Participant concern about the repetitive nature of this comment would be addressed by eliminating Question B7 (see above). Question was found to be offensive/initiating to multiple participants. Revised Question D3 is sufficient to obtain this information (see below). Show participant list of source options.</td>
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<tr>
<td>Question D4:</td>
<td>What would be your preferred language for this information? None</td>
<td></td>
<td>Add Thai to the list of languages. This question will be asked immediately before the question about ethnicity (see notes for Question E2).</td>
</tr>
<tr>
<td>General feedback on Section D</td>
<td>Would be easier to answer Questions D2 to D4 if fishers were showed the list of possible sources, or people were able to fill this out themselves (n = 2). Felt repetitive to keep asking “what else” for Questions D2 to D4. Section D was straightforward, and participant had no difficulty answering questions (n = 1). Participant was confused/irritated by some questions in this section (n = 5). May be easier to let participant look at table (n = 1).</td>
<td>Participant suggested adding Thai to the language list. Participant concern about the repetitive nature of this comment would be addressed by eliminating Question B7 (see above). Question was found to be offensive/initiating to multiple participants. Revised Question D3 is sufficient to obtain this information (see below). Show participant list of source options.</td>
<td>Develop standard response for when participants ask why we are asking for this type of source information (include on FAQ sheet for surveyors).</td>
</tr>
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<td>Question E1:</td>
<td>Would you mind sharing the name of the neighborhood where you live or your home zip code? Providing zip code or neighborhood felt too personal. Zip code or neighborhood? Need to be able to explain why we are asking for this information and assure participant that survey is confidential (n = 1). No feedback/no problems reported (n = 9).</td>
<td>Need to be able to explain why we are asking for this information (n = 1). Question is similar to D4 (n = 1). No feedback/no problems reported (n = 8).</td>
<td>No change to this question. Order of Questions E1 and E2 changed (see notes for E2 below). Develop standard response for when participants ask why we are asking for this information (include on FAQ sheet for surveyors).</td>
</tr>
<tr>
<td>Question E2:</td>
<td>What do you consider your ethnicity/race to be? Consider combining D4 and E2 in survey (keep race/ethnicity and language questions together) (n = 2). Suggest prompting participant with “any other ethnicities.” Why do we need to know language and ethnicity? Might need to have a standard answer for this study (n = 2).</td>
<td>Need to be able to explain why we are asking for this information (n = 1). Question is similar to D4 (n = 1). No feedback/no problems reported (n = 8). Participant indicated that they wished there was an option of “Cham” in Question E2, rather than just Vietnamese.</td>
<td>Switch order of Questions E1 and E2 so that the similar questions about language and ethnicity are together.</td>
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<td>Question E3:</td>
<td>Many people won’t be willing to give last four digits of phone number.</td>
<td>No feedback/no problems reported (n = 10).</td>
<td>Clarify that if asked whether to use home or cell phone number, participant should give cell phone number digits.</td>
</tr>
<tr>
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<td>Is there an alternative option to the phone number?</td>
<td>Participant asked if we wanted home or cell number (n = 1).</td>
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<td>Make it clear that people can’t be identified personally with this information.</td>
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<td>Question E4:</td>
<td>Many people won’t be willing to give last four digits of phone number.</td>
<td>Surveyor asked whether any questions that come up here should be answered at this time or at the end of the survey (n = 1).</td>
<td>Move Question E4 to very end of survey (after Section F) and tie in with giving participant the $10 card.</td>
</tr>
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<td>Is there an alternative option to the phone number?</td>
<td>Only one participant asked more questions.</td>
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<td>Make it clear that people can’t be identified personally with this information.</td>
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<tr>
<td>General feedback on Section E</td>
<td>Questions in this section were fine (n = 2).</td>
<td>No feedback/no problems reported (n = 10).</td>
<td>Add reminder about confidentiality at the beginning of this section.</td>
</tr>
<tr>
<td></td>
<td>Questions in this section felt like they contradicted statements at beginning of survey about confidentiality (n = 1).</td>
<td>Participant feedback – questions were too personal/offensive (n = 2); suggestions included giving participant a ticket or card with a number to tie back to each survey (n = 1) or just asking for full name (n = 1).</td>
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<tr>
<td>Section F</td>
<td>People may have a hard time understanding this question (n = 1).</td>
<td>Participant was confused by this question (n = 6), participant either didn’t answer or provided an answer that indicated they were confused (e.g., one participant gave general response about benefits of eating fish).</td>
<td>Remove Question F1. Question is similar to Questions B1 and B2 was found to be confusing/uncomfortable for numerous surveyors and participants.</td>
</tr>
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<td>Question F1:</td>
<td>During the practice pilots, only three of eight people got through this section.</td>
<td>Repetitive; repeat of previous questions (n = 1).</td>
<td></td>
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<tr>
<td></td>
<td>Participant confused by this question (n = 6), participant either didn’t answer or provided an answer that indicated they were confused (e.g., one participant gave general response about benefits of eating fish).</td>
<td>Participant suggested combining Questions F1 and F2 (n = 1).</td>
<td></td>
</tr>
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<td>Participant suggested rephrasing to become: “For you, what health benefits does eating seafood from this river bring?&quot;</td>
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<tr>
<td>Question F2:</td>
<td>Did you think that there are any risks from eating seafood from this river?</td>
<td>Participant answered question successfully (n = 6).</td>
<td>Remove Question F2. Question is similar to Questions B8 and D1 and was confusing/uncomfortable for numerous surveyors and participants.</td>
</tr>
<tr>
<td>Question F3:</td>
<td>How do you know if the seafood you catch is safe to eat?</td>
<td>Participant answered question successfully (n = 6).</td>
<td></td>
</tr>
<tr>
<td>Question F4:</td>
<td>Are some types of seafood from this river safer to eat than others?</td>
<td>Participant felt that this question was phrased in a way that implied risk (n = 1).</td>
<td></td>
</tr>
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<td></td>
<td>Participant hesitated before answering question (n = 1).</td>
<td>Answered question successfully (n = 6); two participants did not respond.</td>
<td></td>
</tr>
<tr>
<td>Question F5:</td>
<td>What type of information about eating seafood from this river would be most helpful for you?</td>
<td>Participant was confused by this question (n = 3).</td>
<td>Move to first of final questions because it asks how we can help them.</td>
</tr>
<tr>
<td></td>
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<td>Participant answered question successfully (n = 6).</td>
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<td></td>
<td></td>
<td>Participant asked about what kind of information we are looking for from this question. Information about the risks from eating seafood? Question is not clear.</td>
<td></td>
</tr>
</tbody>
</table>
### Summary of Feedback from June 24 Training

**General feedback on Section F**

- Section made some interviewers feel uncomfortable. Asking about risks implies risks – would need to be well-prepared to answer questions that come up as a result of asking these questions.
- Is it OK to explain the meaning of some of these questions if the fisher is confused? For example, may need to explain what “benefit” means. Molly: yes – for this section, can reword and have deeper conversation.
- Do we want to ask these questions to people who have done this section before? If so, how would we know?
- What about giving a numeric scale (e.g., 1 through 5) about how safe it is?

**Survey length**

- Seems OK (n = 4 participants).
- Too long (n = 2 participants); some surveyors also indicated that survey was too long and suggested shortening (n = 3).
- No response (n = 3).

**Format of survey**

- Put each section on a separate page.
- Make sure tables don’t go on multiple pages.
- Clarify the skip pattern (n = 1).

**Training notes**

- As suggested by Molly, surveyors should immediately finish writing notes once they complete a survey.
- Make sure surveyors understand why questions are being asked/know how information will be used.
- None

**Continued involvement**

- Need to add rows for continued involvement questions before Section G.
- ECOSS wants to make sure it’s clear to people that they don’t need to be polite. Want to offer option but not make people feel like they have to continue to be involved.
- NA

**Overall notes/ suggestions**

- Reduce the number of questions (n = 1).
- Remove repetitive questions.
- Developing a connection with person taking the survey is important.
- Did not like probing (e.g., asking “what else?”) after questions/using prompts when people paused. Made responses seem inadequate (n = 1).

**Language-specific notes**

- None
- Korean translation comes across as very academic, does not always use words that are commonly used.
- The Chinese translations should be reworded for verbal uses instead.

### Summary of Feedback from Pilot Tests

**Survey length**

- Seems OK (n = 4 participants).
- Too long (n = 3 participants); some surveyors also indicated that survey was too long and suggested shortening (n = 3).
- No response (n = 3).

**Format of survey**

- Put each section on a separate page.
- Make sure tables don’t go on multiple pages.
- Clarify the skip pattern (n = 1).

**Training notes**

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**Language-specific notes**

- None
- Korean translation comes across as very academic, does not always use words that are commonly used.
- The Chinese translations should be reworded for verbal uses instead.

### Suggested Revision(s)/Recommendations

- Participant/surveyor concerns about the length of this section and the confusing/uncomfortable nature of some questions in this section are addressed by eliminating Questions F1 and F2.
- Improve procedure for asking people about Section F and giving them the $10 card (revise language at start of this section).
- Reduce survey length by eliminating questions identified by pilot participants to be confusing/repetitive/offensive (i.e., Questions B7, C2, C3, D2, F1, and F2).
- Self-administered survey: This option should only be offered if verbal survey cannot be conducted (e.g., due to language barriers). Discuss inclusion of Section F in this version of the survey.
- Incorporate these suggestions regarding note-taking and surveyor knowledge about how information will be used into the training for the year-long survey.
- During year-long survey, individuals who express interest in continued involvement/being notified of the survey results will be given options for involvement. Their name/contact information will be recorded in a separate notebook.

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**Notes:**

1. Suggested revisions were based on the feedback received at the June 24 training and on feedback received during the pilot test. Further refinements of the survey were determined based on discussions at the July 30, 2014 meeting.
Based on feedback during the pilot training and pilot test, a frequently asked questions (FAQ) sheet for surveyor use will be developed as part of the survey training. The FAQ sheet will include answers to questions such as the following:

- When people stop part way through survey, how much is enough to get the $10 card?
- Why are we doing this survey?
- What is EPA?
- When is it safe to fish?
- Why do we need to know language and ethnicity information?
- Why are we asking for zip code and neighborhood information?
- Why do we want to know information about sources of information?