

APPENDIX D. FINAL SURVEY FORMS AND TRAINING MATERIALS

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LDW Fishers Study: Survey Questions (Verbal Version)

For ECOSS staff to fill out after respondent has completed the survey

- A. ECOSS staff name _____
- B. Location _____
- C. Date _____
- D. Time _____
- E. Language used _____
- F. Gender of respondent _____
- G. Estimated age of respondent (multiple-choice ranges)
Under 18 years _____ 18 to 30 years _____
30 to 50 years _____ 50 years or older _____
- H. Number of fishers in group with respondent _____

I. 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 QUESTIONS (VERBAL VERSION)

Hi, my name is _____. I'm with ECOSS, a local environmental organization. We are talking to fishers about catching fish and shellfish from the Duwamish River. If you can help me with a few questions, which should take about 10 to 15 minutes, I can offer you a \$10 card. I am interested in your experience as a fisher and there are no right or wrong answers. The information will be shared with federal and state agencies that are responsible for protecting this river and the health of people who are fishing from it. This survey is geared towards protecting the health of people who are fishing. We are not involved with the state Fish and Wildlife agency and I will not ask any questions about fishing licenses or limits on what you can catch. I won't ask to see what you have caught today.

The questionnaire form that we complete today will not be marked in any way that will identify you personally. I will not ask for your name or address.

You don't have to answer any questions that you don't want to, and you can stop the survey at any time. If you would like to speak to someone in charge of this survey, I can provide you with contact information [provide card with contact information as appropriate].

Do you have any questions about taking this survey?

[RECORD ANY QUESTIONS and ANSWER QUESTIONS ABOUT THE SURVEY. ANY QUESTIONS ABOUT THE RIVER/HEALTH/SEAFOOD CONSUMPTION SHOULD BE ANSWERED AT THE END.]

Yes [RECORD QUESTION] _____

No

1. Have I answered all your questions about participating in the survey and may I begin asking my questions? [CIRCLE ANSWER]

Yes

No [END SURVEY and THANK FOR THEIR TIME]

2. Have you participated in this survey before?

Yes [READ TO RESPONDENT] → You may take the survey again and I can give you another \$10 card. This time the survey will be much shorter. [GO TO PAGE 8]

No / Don't know.

3. What are you fishing for today? Can you show me on this picture sheet?

[RECORD ANSWERS IN TABLE, BELOW, THEN ASK Q4]

4. What have you caught from this river over the last few years?

[RECORD ANSWERS IN TABLE, BELOW, THEN ASK Q5]

[RECORD ANSWERS TO Q3 AND Q4 HERE. DO NOT READ]:

	<u>Q3 [today]</u> [CHECK ALL THAT ARE MENTIONED]	<u>Q4 [in past]</u> [CHECK ALL THAT ARE MENTIONED]
Salmon		
*** IF <u>ONLY</u> FISHING FOR SALMON, SKIP TO Q13 ***		
Flounder/Sole		
Rockfish		
Sculpin		
Perch		
Bait fish/small fish		
Dogfish		
Big Skate		
Whitefish/suckerfish		
Crab		
Clams		
Mussels		
Squid		
Shrimp		
Anything I can catch		
Other [RECORD]:		
No answer		

[READ]: These next few questions are only about seafood you catch other than salmon.

5. Do you eat your catch from this river? [CIRCLE ANSWER]

Yes [SKIP TO Q7]

Don't know/No answer

No

6. What are the reasons you don't eat your catch? [CIRCLE ANSWERS. DO NOT READ.]

Fish only for fun

Fish advisory

Use for bait

Pollution/cleanliness of fish

Other [RECORD]: _____

Don't know/No answer

7. Do you share your catch from this river with others? [CIRCLE ANSWER.]

Yes [ASK Q8]

Don't know/No answer [SKIP TO Q9]

No [SKIP TO Q9]

8. Who would that be? Family, friends, neighbors, or someone else? [CIRCLE ANSWERS.]

Friends

Family

Neighbors

Other _____

9. Why do you like to fish? [CIRCLE ANSWERS. DO NOT READ.]

Getting food or fresh fish

Social activity (time with family/friends)

Time alone (relaxation)

Traditions, something my family does

Recreation/for fun

Free food

Don't know/No answer

Other reason/s [RECORD]:

10. What are the reasons you come to this spot to fish? [CIRCLE ANSWERS. DO NOT READ.]

Fishing is good here

It's close to where I live or work

I like this setting

It is easy to get here

Tradition, cultural practices

Only place I know to fish

Safe and friendly location

Don't know/No answer

Other reason/s [RECORD]: _____

11. In which seasons do you fish or collect seafood other than salmon from this river? The seasons are winter, spring, summer and fall.

[CIRCLE THE SEASONS IN TABLE BELOW, THEN ASK Q12]

Winter	Spring	Summer	Fall
daily	daily	daily	daily
weekly	weekly	weekly	weekly
monthly	monthly	monthly	monthly
less than once a month	less than once a month	less than once a month	less than once a month

No answer [SKIP TO Q13]

12. In [insert season], about how often do you fish in this river? Would it be daily, weekly, monthly, or less than once a month?

[REPEAT FOR EACH SEASON IN WHICH RESPONDENT FISHES. IF ASKED, SPECIFY THIS IS OVER THE PAST SEVERAL YEARS. CIRCLE ANSWERS IN TABLE ABOVE.]

13. Are there areas other than this river where you fish for species other than salmon or collect shellfish? [CIRCLE ANSWER]

Yes No answer

No

[IF LOCATION IS GIVEN, RECORD HERE]: _____

[IF FREQUENCY IS GIVEN, RECORD HERE]: _____

14. Have you seen or heard anything related to how eating seafood caught from this river might affect people's health? [CIRCLE ANSWER.]

Yes No answer → [SKIP TO Q17]

No → [SKIP TO Q17]

15. What have you heard or seen? [CIRCLE ANSWERS. DO NOT READ.]

- Seafood caught here are okay
- Salmon are the best choice
- Do not eat anything from this river
- River is polluted
- Do not eat certain kinds of seafood
- Fish are a healthy food
- Fish advisory

Other [RECORD]: _____

Don't know/No answer → [SKIP TO Q17]

16. Where did you see or hear this information?

[SHOW TABLE TO PARTICIPANT. RECORD EACH SOURCE MENTIONED IN TABLE BELOW, THEN ASK Q16; NOTE SPECIFICS IF PROVIDED]

17. What are your preferred sources of getting information?

[SHOW TABLE TO PARTICIPANT. RECORD EACH SOURCE MENTIONED IN TABLE BELOW, THEN ASK Q17; NOTE SPECIFICS IF PROVIDED]

		Q16	Q17
Friends/family	Word of mouth, talking with friends or family		
Media	Newspaper(s); specify name: _____		
	TV station(s); specify name: _____		
	Radio station(s); specify name: _____		
	Internet or social media (such as Facebook)		
Places in the community	Community or senior center: _____		
	Community event/gathering: _____		
	Place of worship		
	Health clinic, nurse or doctor		
	School: _____		
Fishing-related sources	Signs posted at fishing locations		
	Bait and tackle shops		
	Location where fishing license was purchased		
	WDFW Fishing Pamphlet Regulations and/or website		
Letters or flyers distributed in the community			
Information from Public Health Department			
No answer			
Other [RECORD]:			

18. What would be your preferred language for this information? [CIRCLE ANSWERS]

English	Hmong	Khmer (Cambodian)	Korean
Lao	Chinese	Mienh	Spanish
Tagalog	Vietnamese	Thai	No answer

Other [RECORD]: _____

19. We would like to better understand the communities who fish in the Duwamish River. Could you please tell us what you consider your ethnicity or race? [CIRCLE ALL MENTIONED]

American Indian/Alaskan Native	Bhutanese	Black/African American
Bosnian	Burmese	Cambodian/Khmer
Chinese	Ethiopian	Eritrean
Filipino	Hmong	Indian
Japanese	Korean	Lao
Latino	Mienh	Mongolian
Russian	Samoan	Somali
Thai	Vietnamese	White/Caucasian

Other [RECORD]: _____

20. Would you mind sharing the name of the neighborhood where you live or your home zip code?

Zip code [RECORD]: _____

Neighborhood [RECORD]: _____

No answer

21. 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 is just to help us know whether you have taken the survey before but will not allow us to identify you personally.

First Initial: _____ Last 4 digits of phone number: _____

No answer

How are you doing on time? I have a couple more questions that I'd like to ask you if you are willing, or we can stop here.

Participant has more time [PROCEED WITH Q22]

Participant would like to stop survey [PROCEED WITH Q26]

22. How do you know if the seafood you catch is safe to eat? [RECORD RESPONSES BELOW.]

23. Are some types of seafood from this river safer to eat than others? [IF YES, ASK WHICH ONES. RECORD ANSWERS BELOW]

24. People like to fish for many reasons and they benefit from fishing in many ways. For some people the benefit might be catching food to eat. For others it is something relaxing and fun to do. Can you tell me more about the benefits you get from fishing here? [RECORD ANSWERS BELOW]

25. As a follow up to one of our earlier questions, how can we best get information to you about eating seafood from this river? [RECORD ANSWERS BELOW]

26. This is the end of the survey, unless you have any questions or have anything more you wish to share? [RECORD ANSWERS BELOW]

Thank you very much for your help. This concludes our survey. Here is your \$10 card. I just need you to initial this form indicating that you received this card.

[HAVE PARTICIPANT INITIAL \$10 CARD TRACKING FORM.GO TO PAGE 11.]

--- PAGE 8-10 ---
SHORT SURVEY FOR FISHERS WHO HAVE TAKEN SURVEY BEFORE

S1. What are you fishing for today? Can you show me on this picture sheet?
 [RECORD RESPONSES IN TABLE, BELOW, THEN ASK S2]

S2. What have you caught from this river over the last few years?
 [RECORD RESPONSES IN TABLE, BELOW, THEN ASK S3]

[RECORD RESPONSES TO Q3 AND Q4 HERE. DO NOT READ]:

	S1 [today] [CHECK ALL THAT ARE MENTIONED]	S2 [in past] [CHECK ALL THAT ARE MENTIONED]
Salmon		
IF <u>ONLY</u> FISHING FOR SALMON, SKIP TO S8		
Flounder/Sole		
Rockfish		
Sculpin		
Perch		
Bait fish/small fish		
Dogfish		
Big Skate		
Whitefish/suckerfish		
Crab		
Clams		
Mussels		
Squid		
Shrimp		
Anything I can catch		
Other [RECORD]:		
No answer		

READ: These next few questions are only about seafood you catch other than salmon.

S3. Do you eat your catch from this river? [CIRCLE RESPONSE]

Yes [SKIP TO S5]

Don't know/No answer

No

S4. What are the reasons you don't eat your catch? [CIRCLE ANSWERS. DO NOT READ.]

Fish only for fun

Fish advisory

Use for bait

Pollution/cleanliness of fish

Other [RECORD]: _____

Don't know/No answer

S5. Do you share your catch from this river with others? [CIRCLE ANSWER.]

Yes [ASK S6]

Don't know/No answer [SKIP TO S7]

No [SKIP TO S7]

S6. Who would that be? Family, friends, neighbors, or someone else? [CIRCLE ANSWER.]

Friends

Family

Neighbors

Other _____

S7. What are the reasons you come to this spot to fish? [CIRCLE ANSWERS. DO NOT READ.]

Fishing is good here

It's close to where I live or work

I like this setting

It is easy to get here

Tradition, cultural practices

Only place I know to fish

Safe and friendly location

Don't know/No answer

Other reason/s [RECORD]: _____

S8. We would like to better understand where people who fish in the Duwamish River live. Would you mind sharing the name of the neighborhood where you live or your home zip code?

Zip code [RECORD]: _____

Neighborhood [RECORD]: _____

No answer

S9. 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 is just to help us know whether you have taken the survey before but will not allow us to identify you personally.

First Initial: _____

Last 4 digits of phone number: _____

No answer

How are you doing on time? I have a couple more questions that I'd like to ask you if you are willing, or we can stop here.

Participant has more time [PROCEED WITH S10]

Participant would like to stop survey [PROCEED WITH S14]

S10. How do you know if the seafood you catch is safe to eat? [RECORD ANSWERS BELOW.]

S11. Are some types of seafood from this river safer to eat than others? [IF YES, ASK WHICH ONES. RECORD ANSWERS BELOW]

S12. People like to fish for many reasons and they benefit from fishing in many ways. For some people the benefit might be catching food to eat. For others it is something relaxing and fun to do. Can you tell me more about the benefits you get from fishing here? [RECORD ANSWERS BELOW]

S13. As a follow up to one of our earlier questions, how can we best get information to you about eating seafood from this river? [RECORD ANSWERS BELOW]

S14. This is the end of the survey, unless you have any questions or have anything more you wish to share? [RECORD COMMENTS/QUESTIONS BELOW]

Thank you very much for your help. This concludes our survey. Here is your \$10 card. I just need you to initial this form indicating that you received this card. [HAVE

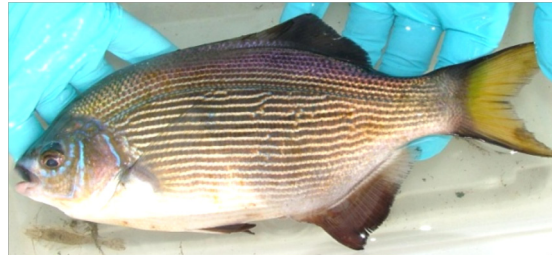
PARTICIPANT INITIAL \$10 CARD TRACKING FORM. FILL OUT INTERVIEWER QUESTIONS ON FRONT PAGE.]

Resident Fish

Flatfish / Flounder / Sole



Perch



(e.g., Shiner perch, pile perch, striped perch)

Bait fish / other small fish

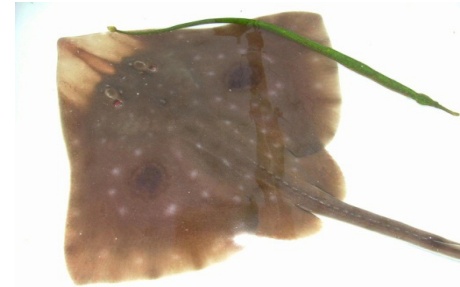


(e.g., herring or smelt)

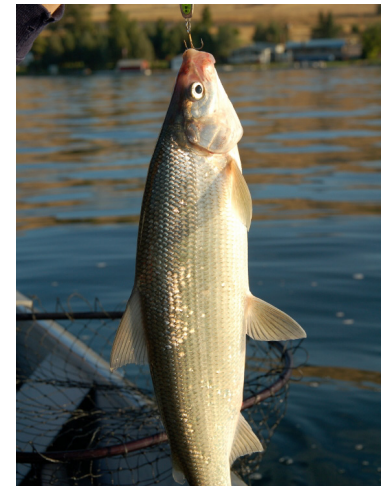
Rockfish



Big Skate



Whitefish (Suckerfish)



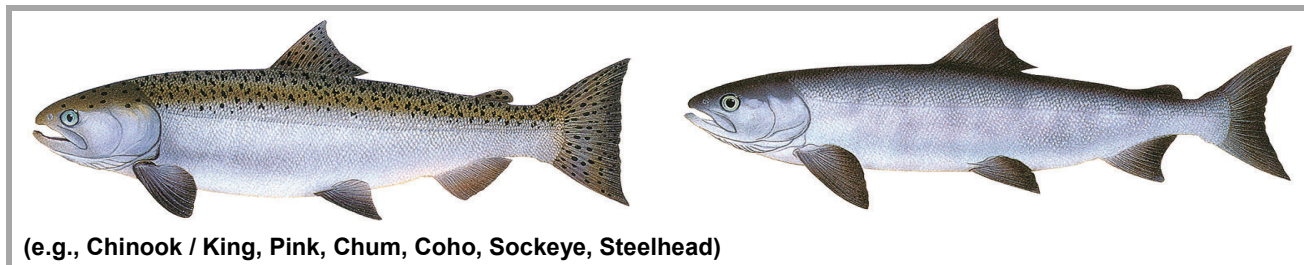
Sculpin (Bullhead/Cabazon/Greenling)



Dogfish



Salmon (Non-Resident Fish)



(e.g., Chinook / King, Pink, Chum, Coho, Sockeye, Steelhead)

Non-Fish Species

Crabs



(e.g., Dungeness, Slender or Red Rock)

Clams



(e.g., Eastern softshell, cockles)

Mussels



Squid



LDW FISHER STUDY: DECLINED SURVEY FORM

(record information regarding each fisher declining to be surveyed in a column below)

Date:
Interviewer name:

Time:			
Location:			
Fisher gender:			
Fisher age (estimated):			
Fisher preferred language:			
Fishing method being used:			
Has fisher taken survey before?	yes no unknown	yes no unknown	yes no unknown
Reason for not participating:	no common language no time not interested other (record):	no common language no time not interested other (record):	no common language no time not interested other (record):
Other notes:			

FISHER STUDY: LOCATION DATA FORMS

(complete one box per location visited)

Date:	Arrival Time:	Departure Time:
Location Name:		
Number of surveys administered:		Number of fishers declining survey:
Number of other fishers observed:	Recognize any of the fishers? <i>(if yes, have they taken survey before or are they taking it today)</i>	
Number of Visible Advisory Signs:	Condition of advisory signs (circle all that apply): excellent fair poor vandalized not present (missing) not present at this location	
Types of fishing gear: fishing lines crab pots other <i>(specify)</i>		
Weather (circle one): sunny mix sun/clouds cloudy raining other		
Tidal conditions (circle one): high low flood ebb not known		
Notes <i>(anything unusual such as presence of game warden or any languages that would have been useful?)</i>		

Date:	Arrival Time:	Departure Time:
Location Name:		
Number of surveys administered:		Number of fishers declining survey:
Number of other fishers observed:	Recognize any of the fishers? <i>(if yes, have they taken survey before or are they taking it today)</i>	
Number of Visible Advisory Signs:	Condition of advisory signs (circle all that apply): excellent fair poor vandalized not present (missing) not present at this location	
Types of fishing gear: fishing lines crab pots other <i>(specify)</i>		
Weather (circle one): sunny mix sun/clouds cloudy raining other		
Tidal conditions (circle one): high low flood ebb not known		
Notes <i>(anything unusual such as presence of game warden or any languages that would have been useful?)</i>		

LDW FISHER STUDY: \$10 STORE CARD TRACKING FORM

No.	\$10 Card Type (Store Name)	Card Number	Date of Interview	Interviewer Name	Interviewee Initials
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Lower Duwamish Waterway Fishers Study Training Guide

1. SITE BACKGROUND ON DUWAMISH RIVER

Information in this section is a direct quote from EPA/Ecology's June 2008 factsheet,¹ which is available online here: http://www.epa.gov/region10/pdf/sites/ldw/faq_june2008.pdf.

General background – “The Lower Duwamish Waterway (LDW) site is a 5.5 mile portion of the Lower Duwamish River, which flows into Elliott Bay. The waterway lies just south of downtown Seattle and is flanked by industrial corridors, as well as the South Park and Georgetown neighborhoods. Sediments (mud and sand on the river bottom) in and along the waterway contain a wide range of contaminants from years of industrial activity and from stormwater. The Washington State Department of Ecology (Ecology) and the US Environmental Protection Agency (EPA) are working to clean up contaminated sediment and control sources of recontamination in the waterway.”

Eating seafood from the Duwamish – The Washington State Department of Health advises people not eat resident “Fish or shellfish taken from the Lower Duwamish Waterway [because they] are not safe to eat. These animals have picked up too many contaminants from the mud in the waterway. For example, PCB levels in fish and crab that live in the waterway most of their lives are 35 to 110 times higher than in Puget Sound salmon. The high levels of PCBs and other chemicals pose an unacceptable risk of cancer and other diseases. A long-term goal of the cleanup is to reduce the contaminants in the sediments and in the fish and shellfish, but for now it is best not to eat them. Salmon are OK to eat, but not any other fish or shellfish.”

2. GOALS/OBJECTIVES OF THE FISHERS STUDY

Questions are being asked as part of a study to help understand the harvest and consumption of seafood from the Duwamish River (i.e., the fishers study). This information will be used to help EPA/Ecology learn how to better protect people who collect and eat seafood from the Duwamish River. This will include the development of outreach and education materials. The main questions being asked in this study are:

- ◆ How is the LDW currently being used for the collection and consumption of seafood, particularly resident seafood?
- ◆ What is currently known by the community about the risks of consuming seafood collected from the LDW? What are the perceived benefits of consuming resident seafood from the LDW?

¹ EPA, Ecology. 2008. An important milestone has been achieved: Lower Duwamish Waterway contamination investigation is complete. June 2008 fact sheet. US Environmental Protection Agency Region 10, Seattle, WA; Washington Department of Ecology, Bellevue, WA.

3. COMPONENTS OF THE FISHERS STUDY

- ◆ **ECOSS interviews** - Approximately 60 community representatives were interviewed by ECOSS in the fall of 2013. The primary goal of these interviews was to gather input from community representatives to help design the survey.
- ◆ **Pilot study** - A pilot test of the survey questions will be performed to ensure that the questions are understood and eliciting responses as intended and that the questions are culturally appropriate.
- ◆ **Year-long survey** - A survey will be conducted by ECOSS at locations along or just outside of the LDW using a tiered approach in which the most popular fishing locations will be visited most often. Surveys will be conducted each week throughout the year, with a higher level of effort during the more popular fishing times. The surveys will generally be administered verbally in English and other languages but could also be self-administered in five different languages. Each time a survey is conducted, the fisher will be given a \$10 card.
- ◆ **Key informant interviews** - In addition, up to 15 key informant interviews will be conducted during the year-long survey to gather more in-depth information within the scope of the survey. These interviews will be conducted about 6 months into the year-long survey; the goal of these interviews is to gain more risk perception information from discussions with people who fish or consume fish from the Duwamish River.

4. SURVEY MATERIALS

- ◆ **Survey form** – This form will be used to document the responses to the survey (there are two versions of the survey: one for verbally administering the survey and one for individuals who self-administer the survey).
- ◆ **Species pictures** – The species identification card will be used to support specific questions in the survey.
- ◆ **Survey decline form** – This form will be used to document information about fishers who decline to take the survey.
- ◆ **Daily field log and location data form** – These forms will be used to record information regarding the survey crew, day of the week, weather, tides, the locations visited on the survey day, and any other notes.
- ◆ **\$10 card tracking form** – This form will be used to record the distribution of the \$10 cards, as required by King County.
- ◆ **Factsheets** – Two factsheets will be available to share with fishers who request more information: one with information about the LDW fishers study (from EPA), and one with information about the fish advisory (from Public Health). These factsheets will be made available at the conclusion of the survey for anyone who requests this information.

5. VERBAL VS. SELF-ADMINISTRATION OF SURVEY

The preferred approach is for the survey to be verbally administered by ECOSS. The survey may be self-administered if ECOSS staff are not able to meet the language needs of the participant, if the fisher speaks one of the languages into which the self-administration survey form has been translated, or if the fisher is unwilling to participate unless he/she can self-administer the survey.

- ◆ **Verbally administered surveys** – The highest priority languages for verbal administration are English, Hmong, Khmer, Lao, and Mienh. Moderate priority languages include Korean, Tagalog, and Vietnamese; and low priority languages include simplified Mandarin and Spanish. Language capabilities will depend on surveyor language capabilities on any given day.
- ◆ **Self-administered surveys** – Translated versions of the survey will be available in English, Korean, simplified Mandarin, Spanish, Tagalog, and Vietnamese.

6. OVERVIEW OF THE SURVEY

The following provides a summary of the survey. Training will include walking through the entire survey to make sure that surveyors are familiar with the survey form and survey questions.

- ◆ Introduction
- ◆ Purpose for fishing
- ◆ Fishing habits
- ◆ Contamination awareness and communication
- ◆ Questions for those willing to talk longer (asked only of those who are willing to talk longer)
- ◆ Information for interviewer to fill out after respondent has completed the survey

The decision to ask the fisher additional questions at the end of the survey will depend on the fisher's apparent willingness to talk longer and on whether surveyors have time to ask these questions. Priority will be given to surveying a greater number of fishers, rather than talking longer with a fewer number of fishers.

7. HOW TO ASK QUESTIONS

To avoid bias on the part of the fisher, it is important to ask each question as it is written.

When obtaining answers from the fisher, pose questions as open-ended questions. The check boxes are only intended to make survey recording simpler; they are not intended to be read to the fisher, which could influence their responses. However, it should be noted that fishers will see these options in the self-administered survey.

If a fisher does not understand a particular question, offer to repeat the question (say "let me repeat it"). If the fisher still does not understand the question, suggest that the answer to the question be based on "whatever it means to you." As a last resort, select the "no answer" option and move on to the next question. Questions in this survey were designed to be relatively simple, so hopefully this situation does not come up too often. Any question(s) that the fisher has trouble understanding should be noted.

8. RECORDING SURVEYOR OBSERVATIONS

Observations from the surveyor are an important component of the survey. There are several places where observation notes can be recorded:

- ◆ **Survey** - The survey includes questions to be answered by the surveyor after the survey is completed. The surveyor can note anything about the survey that they think would be helpful (e.g., cultural context of responses).
- ◆ **Daily field log** - This form provides a location for the surveyor to make general notes about other locations where individuals were observed fishing, salmon runs, or anything else that the surveyor finds relevant.
- ◆ **Location data form** - This form provide a space to note anything about the locations visited (e.g., presence of game wardens).

9. CODE OF CONDUCT FOR SURVEYORS

- ◆ Be professional
- ◆ Be courteous and respectful
- ◆ Always thank the fisher before and after completing the survey

10. CONFIDENTIALITY

Before conducting the survey, assure fishers that their responses are confidential and anonymous and that no personal questions will be asked during the survey. Fishers should be aware that they can end the survey at any point during the survey and that they do not have to answer every question (“I don’t know” or no answer is an acceptable response).

11. MINOR/ADULT FISHERS

Only fishers who are aged 18 or older will be surveyed. Data will not be collected from fishers who are clearly younger than 18. It is not necessary to ask for proof of age if an individual indicates that they are 18 years of age or older.

12. APPROACHING FISHERS ON THE DUWAMISH

The best method for approaching fishers will depend on the situation and will need to be determined based on best professional judgment. Some examples include the following:

- ◆ **Direct approach** – Use the outlined introductory text at the start of the survey (note that when in doubt, this method is often the most effective and simple approach).
- ◆ **Indirect approach** – Strike up an informal conversation with a fisher, and then ask if he/she would be willing to take the survey.
- ◆ **Approach via introduction** – Ask a fisher who has already taken the survey for an introduction to other fishers.

13. BEFORE STARTING THE SURVEY

Four important items must be communicated to the fisher prior to beginning the survey:

1. Answers will be kept anonymous and confidential.
2. Response cannot be linked to fishers (names are not requested).
3. Fishers do not have to answer any question that they do not want to answer.
4. The interview can be stopped at any time.

The verbal version of the survey offers a script that can be used (or paraphrased) as an introduction, but it is critical that the above four items are covered.

14. AFTER COMPLETING THE SURVEY

Once the fisher has completed the survey:

1. Remember to thank the fisher for taking the time to complete the survey.
2. Give the fisher a \$10 card and have him/her initial the form.
3. Fill out the final portion of the survey form, which includes surveyor thoughts on the survey (e.g., notes on the cultural context of answers, fisher comprehension of survey questions).

If requested by the fisher during the survey, provide fact sheet(s) related to the fishers study and/or fish advisory (this information should not be handed out during the survey to avoid biasing the fisher's responses).

15. OVERVIEW OF SURVEY DESIGN/SCHEDULING

Note: Handout an example calendar as part of this portion of the training.

- ◆ **Adaptive approach** – Survey guidelines have been developed and are intended to serve as a starting point for the fishers study design. Over the course of the survey, it is expected that new information will become available regarding the locations, times, days of the week, and language needs. This information will be used to adjust the survey guidelines to ensure that the maximum number of Duwamish fishers (to the extent practicable) are surveyed over the course of the study.
- ◆ **Tiered approach to locations** – A tiered approach was developed to focus efforts on the locations where fishing is the most frequent (i.e., Tier 1 locations, which include the Spokane Street Bridge and T-105). Other locations (referred to as Tier 2 locations) were divided into three groups and will be visited less frequently. Most survey days will involve visiting a Tier 1 location and then all of the locations in one of the Tier 2 groups. On some days, all of the available time will be spent at one of the Tier 1 locations, and a tent will be set up to allow for a more visible presence to be established at that location.
- ◆ **Prioritizing fishers** – To the extent possible, fishers who appear to be fishing for resident fish should be prioritized over those who appear to be fishing for just salmon.
- ◆ **Timing considerations** – Guidelines have been developed for when during the week the survey will be conducted. As outlined in detail in the implementation plan (Windward, in prep), 50% of the survey days will be scheduled on weekends and 50% will be scheduled on weekdays (Fridays will be surveyed more frequently than other weekdays). Surveys will also be scheduled to rotate through various times of day (i.e., mornings, mid-day, and evenings).
- ◆ **Languages** – As with the time-of-day considerations, the language capabilities of the surveyors will also be rotated for the various locations, days of the week, and times of day.



Region 10

Lower Duwamish Waterway Fishers Study

June 2014

Why ask people about what they eat from the Lower Duwamish Waterway?

Pollution in crab, shellfish and fish (except salmon) from the Lower Duwamish Waterway make them unsafe to eat. We want to protect the health of those eating fish from the Lower Duwamish Waterway as we clean up the pollution.

To do this, we need more information about: the fishers and fish consumers, what they are eating, and how they use their catch. The information shared with us will be used in the Superfund Cleanup process to develop tools to protect people eating fish. We are not collecting information about the amount of fish consumed, or fish consumption rates, from the river.

If you choose to take the survey, the information you share will remain anonymous and confidential.

The Washington Department of Health issued a fish advisory recommending no one eat crab, shellfish and fish (except salmon) from the Lower Duwamish Waterway. Salmon (except blackmouth salmon) are the healthiest choice because they spend a short time in the Duwamish River.

For information about the existing advisory, visit www.doh.wa.gov/fish or contact **Liz Carr**, Washington State Department of Health, ☎ 1 (877) 485-7316.

Help us protect people eating fish from the river: Participate in the study!

We need people who fish and eat fish from the river to be involved in the study for it to succeed. People who take the survey and/or are interviewed will receive incentives. There are many ways to participate in the Fishers Study:

- **Take the survey.** The survey asks fishers questions about: why they fish the river, what they catch, what they do with their catch, what they know about the fish, and where they get information about the fish in the river. People who take the survey will receive an incentive.
- **Participate to be interviewed.** People who are interviewed will receive an incentive.
- **Advise us on the study.** Read the study materials and make sure they make sense to you and your community. Provide advice on how to gather information about eating fish from the river.

Give us feedback about the study. There will be regular update meetings throughout the Fishers Study. Attend the meetings and provide feedback and advice about the study.



Who is performing this study and for how long?

The City of Seattle, King County, Port of Seattle and The Boeing Company are performing the Fishers Study as part of the Lower Duwamish Waterway Superfund Cleanup. The Environmental Coalition of South Seattle (ECOSS) is performing the surveys and interviews. Community members have also volunteered through ECOSS to provide input and advice on the Fishers Study.

The U.S. Environmental Protection Agency and Washington State Department of Ecology provide oversight of the Fishers Study by reviewing all study plans, materials, data and reports. The Duwamish River Cleanup Coalition/Technical Advisory Group is advising the EPA and Ecology on the Fishers Study. The Washington Department of Health and the City of Seattle and King County Public Health Department participate in the Fishers Study.

The Fishers Study survey and interviews will occur for one year, starting in fall 2014.

How can I find out more?

For more information about the Fishers Study and how to participate, or the Lower Duwamish Waterway Cleanup, please contact **Julie Congdon**

✉ Congdon.Julie@epa.gov ☎ (206) 553-2752

You can also contact

**Duwamish River Cleanup Coalition/
Technical Advisory Group**

✉ contact@duwamishcleanup.org ☎ (206) 954-0218

🗣️ *TDD or TTY users, please call 1-800-877-8339 and give the operator Julie Congdon's phone number.*

What's being done to clean up the pollution?

Ecology and the EPA are working to control pollution entering the Lower Duwamish Waterway and to clean up contamination (or pollution) in the waterway. Early cleanups to address some of the most contaminated areas in the waterway are mostly complete but several will continue through 2015. The EPA will announce its overall cleanup plan for the waterway by the end of 2014.



LDW Fishers Study - Community Involvement Log

Date	Contact Method	Initiation of Contact	Fishers Study Team Member	NO. OF Community Members Involved	Community Group(s) Represented	Rationale for Contacting Specific Community Members	Topic	Notes (Resolution/Follow-up/ Feedback Received/Additional Information)	Status