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# Duwamish Fishers Study: First Quarterly Update

January 29, 2015  
Duwamish Longhouse

**Lower Duwamish Waterway Group**

*Port of Seattle / City of Seattle / King County / The Boeing Company*

# Introduction

- Attendee introductions and roles
- Purpose of quarterly update meetings
  - Provide summary of survey progress to date
  - Discuss feedback on the survey
  - Discuss any proposed changes to the survey form or guidelines
- Review of fishers study objective:

*“The objective of the fishers study is to gather information from people who either harvest or consume seafood from the LDW or who may assist in understanding aspects of the consumption of resident seafood from the LDW.”*



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# Survey Progress and Observations

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# Survey Progress

- **First quarter complete**
  - Total of 18 survey days as planned
  - 6 days each in October, November, and December
- **Total of 76 surveys administered**
  - 71 verbally-administered (93%)
  - 62 conducted at Spokane St Bridge (82%)
  - 59 conducted in English (78%)
  - Other languages have included Khmer (n=6), Spanish (n=5), Mien (n=3), and Vietnamese (n=3)
  - Short version of survey (for repeat survey takers) has been used 16 times (21%)
  - About half of survey takers were willing to answer additional questions (n=37)
- **50% success rate in fishers agreeing to take survey**
  - Most declines because people don't have time or are not interested
  - Three cases where language seemed to be the issue (two Vietnamese speakers and one Spanish speaker). Note that the Vietnamese speakers did not want to take the self-administered version (they may not have been literate).



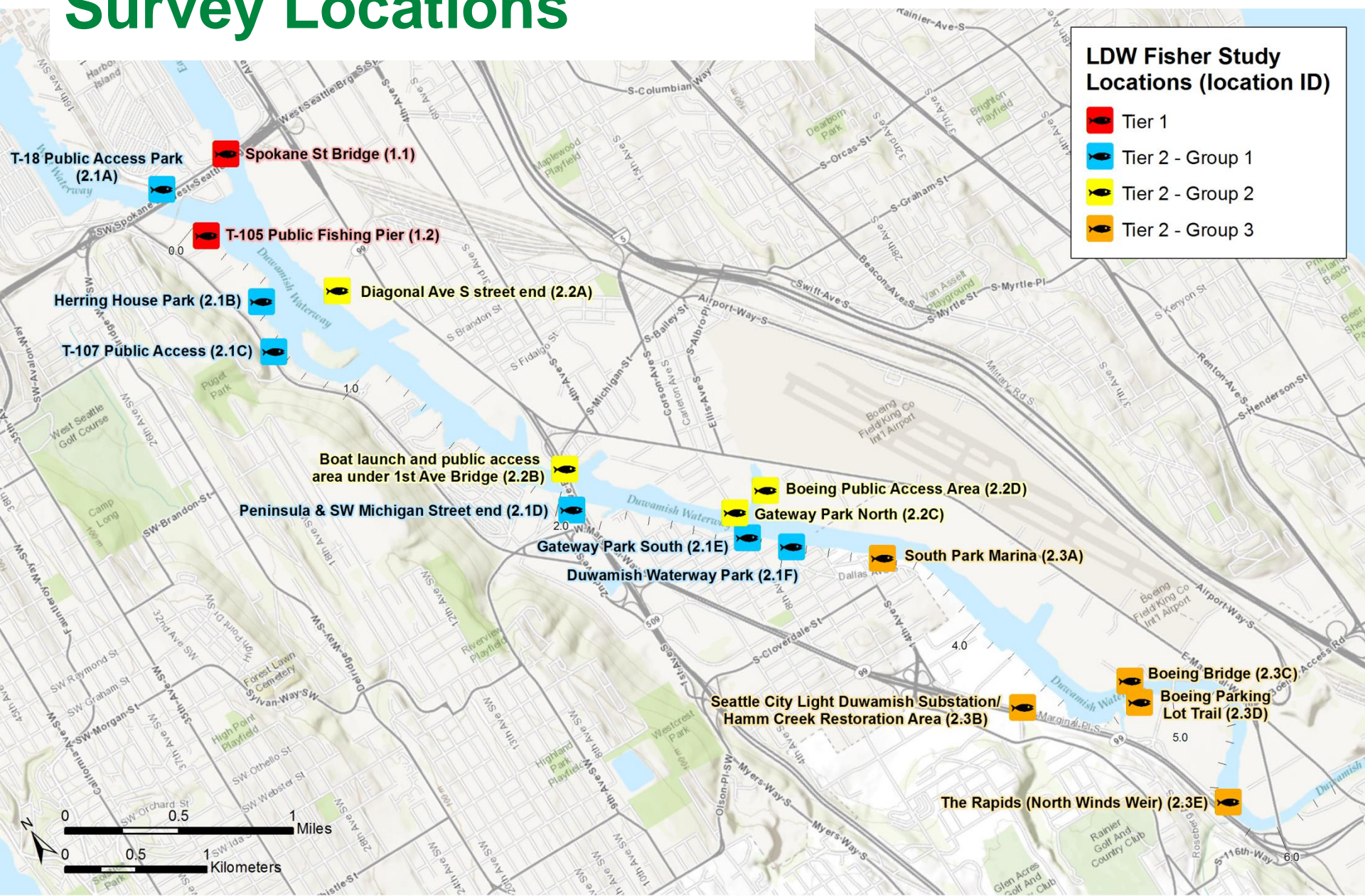
# Summary by Month

Statistic	October	November	December	Total
Total number of surveys administered	51	18	7	76
Count by location where survey was administered:				
<i>Spokane Street Bridge</i>	43	14	5	62
<i>T-105</i>	2	0	1	3
<i>Tier 2 locations</i>	6	4	1	11
Count by method of administration:				
<i>Verbally-administered</i>	46	18	7	71
<i>Self-administered</i>	5	0	0	5
Count of declines	49	27	0	76
Success rate	51%	40%	100%	50%

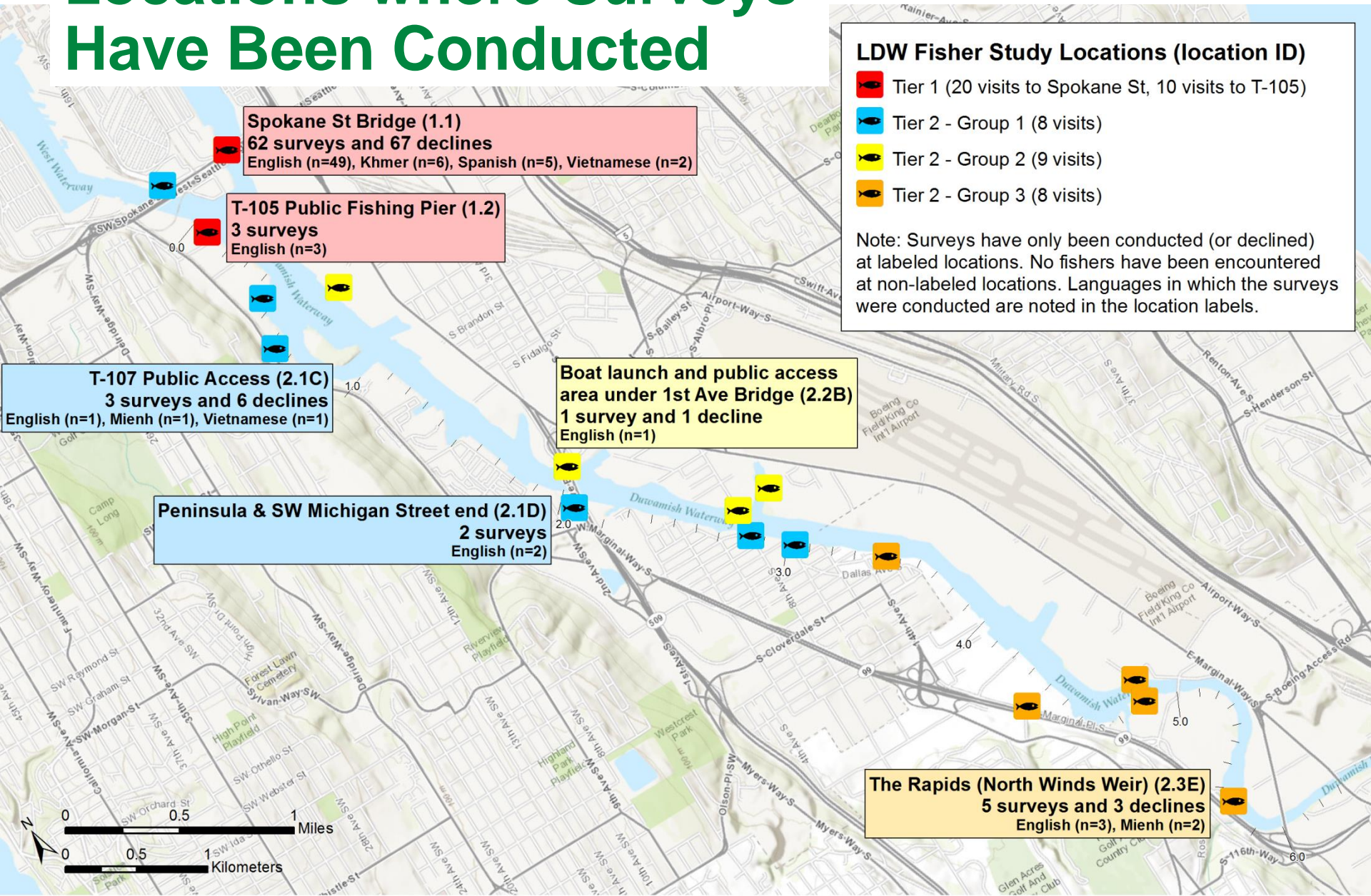
# Progress towards targets

<b>Statistic</b>	<b>First Quarter (3 months)</b>	<b>Non-Summer Target (8 months)</b>	<b>On Target?</b>
<b>Months completed</b>	3	8	✓
<b>Survey days</b>	18	48	✓
<b>Visits by location:</b>			
Tier 1: Spokane St. Bridge	12	32	✓
Tier 1: T-105	6	16	✓
Tier 2: each group of locations	5 each	13 – 14 each	✓
<b>Visits by days of the week</b>			
Weekdays	6	16	✓
Fridays	3	8	✓
Weekends	9	24	✓
<b>Tent days</b>			
Spokane St. Bridge	1	4	✓
T-105	1	4	✓

# Survey Locations



# Locations where Surveys Have Been Conducted





# Species

Survey respondents have reported fishing for the following species (either on the survey day or in the past few years)

Salmon	97% report collecting salmon (n=74) (70% only targeting salmon, n=53)
Resident fish	22% report collecting resident fish (n=17) (includes flounder/sole, rockfish, sculpin, and dogfish)
Crab	11% report collecting crab (n=8)
Squid	5% report collecting squid (n=4)
Bait fish	3% report collecting bait fish or other small fish (n=2)
Shrimp	3% report collecting shrimp (n=2)
Clam	1% report collecting clams (n=1)



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# Game Wardens

- Some fishers have thought ECOSS surveyors were game wardens (despite the fact that surveyors tell them that they are not)
- October 22 –TV crew and game warden
  - TV crew and game warden arrived at the Spokane Street Bridge to film segment about a new animal planet reality TV show
  - Occurred right after ECOSS surveyors were talking to fishers there
  - Some concern that fishers thought ECOSS surveyors were connected to the game warden / TV crew
- December 18 survey day
  - Game warden showed up at T-105 when ECOSS was there
  - No fishers were present
- Better coordination possible?



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# Feedback and Input

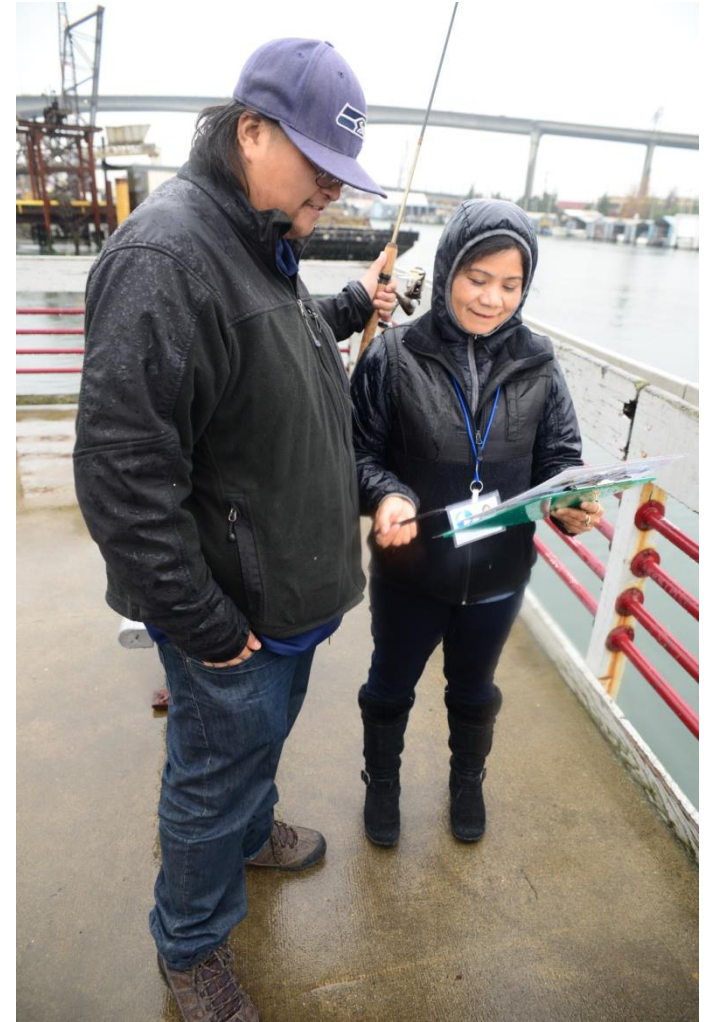
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# Feedback on Survey

- Positive feedback from some fishers about this project; appreciate that this work is being done
- Some fishers not interested in taking survey, even for \$10 card; only a few individuals appear to have answered just to get the \$10 card
- One person mentioned that there should be more information about Duwamish River pollution in the news / on social media

# Continued...

- Survey administration difficult in the rain; ECOSS has used a team approach where one surveyor holds umbrella while the other conducts the survey
- For safety, surveyors carrying only a limited number of \$10 cards at any time



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**Additional feedback?**

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# Opportunities for Additional Input

The following opportunities for community input are outlined in Section 8 of the Implementation Plan:

- Participate in key informant interview or survey
- Join an email list to receive notifications when documents are posted or when meetings will be held that community representatives may attend
- Review and comment on study documents (posted on the web)
- Attend a project meeting or receive a phone call from ECOSS to hear about study updates

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# Community Outreach and Input to Date

- Community outreach
  - Draft IP sent to several community member for review
  - Individuals who requested to join the email list have received the following notifications:
    - *Announcement about the start of the year-long survey*
    - *Summary of first quarter progress (this presentation)*
  - Individuals who expressed interest in attending meetings were invited to attend this quarterly update meeting
- Identifying key informants
  - Thus far, ECOSS has identified three contacts during the survey who would be good key informants.
  - This is in addition to already established contacts who could also be good for the key informant interviews



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# Changes to Survey Based on ECOSS Experience

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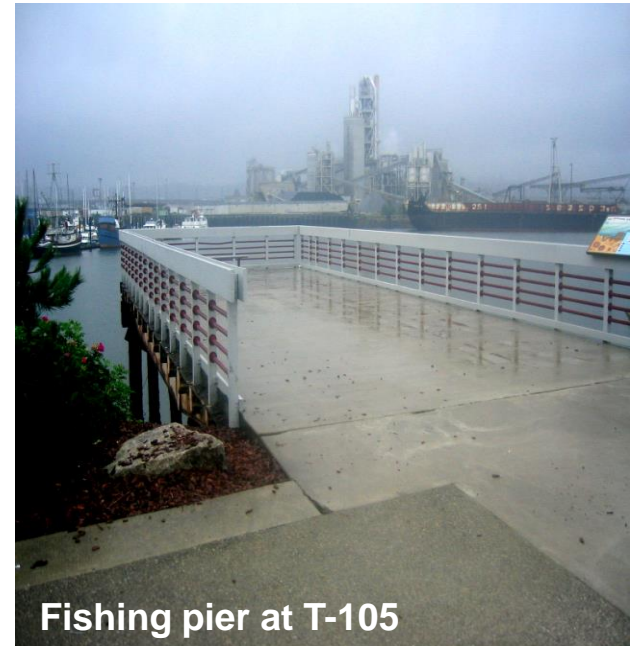
# Implemented Changes

- One change has been implemented thus far:
  - Guidelines for surveyor language capability targets changed to include languages encountered in the field.
  - New guideline text (blue text is new):

*“On any one survey day, the two surveyors will have the capability to communicate in English and at least one other language that is either included on the high priority language list (Hmong, Khmer, Lao, or Mienh) or has been encountered frequently in the field.”*
- In addition, a verbal version of the survey will be translated into Khmer

# Notes about Locations

- T-105
  - To date, very few fishers surveyed or observed at T-105
  - Total of 3 surveys conducted thus far
- Tier 2 locations
  - No fishers have been observed at 12 of the 16 Tier 2 locations
  - Some Tier 2 locations have more activity than T-105
- Other locations with fishers
  - One or two fishers have been seen at other locations:
    - Between locations 2.3D and 2.3E
    - S Myrtle Street near 7<sup>th</sup> Ave S (between locations 2.2B and 2.2C)
  - These are infrequently used locations



# Notes about Tent Days

- Two tent days conducted in the 1<sup>st</sup> quarter
  - T-105: Saturday, October 11<sup>th</sup>
    - No fishers present
  - Spokane Street Bridge: Saturday, December 20<sup>th</sup>
    - One survey conducted
    - No other fishers observed
    - A few walkers passing by stopped and talked with ECOSS surveyors at the tent; they were interested and supportive of fishers study efforts
- Consider modifying two tent days in February and March to make better use of survey time?



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# Survey Clarifications: Instructions for Introductory Questions

#	Question	Comment
Q0	<i>Do you have any questions about taking this survey?</i>	<u>Issue</u> : Feels repetitive with Q1
Q1	<i>Have I answered all your questions about participating in the survey and may I begin asking my questions?</i>	<u>Clarification</u> : If the fisher does not have any questions when asked Q0, a shorter version of Q1 can be asked: “ <i>May I begin asking my survey questions?</i> ”
Q2	<i>Have you participated in this survey before?</i>	<u>Issue</u> : Some fishers have appeared to wonder if this applies to <u>any</u> survey <u>Clarification</u> : Emphasize this question is about this particular survey

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# Survey Clarifications: Instructions for questions about non-salmon fishing

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#	Question	Comment
Q11	<i>In which seasons do you fish or collect seafood other than salmon from this river? The seasons are winter, spring, summer and fall.</i>	<p><u>Issue</u>: Need to clarify that question is about non-salmon fishing</p> <p><u>Clarification</u>: Surveyor to emphasize the “other than salmon” portion of the question, or surveyor can re-phrase Q11 by starting with “<i>Excluding salmon...</i>”</p>
Q13	<i>Are there areas other than this river where you fish for species other than salmon or collect shellfish?</i>	<p><u>Issue</u>: Need to clarify that question is about non-salmon fishing</p> <p><u>Clarification</u>: Surveyor to emphasize the “other than salmon” portion of the question, or can modify Q13 as follows: “<i>Excluding fishing for salmon, are there areas other than this river where you fish or collect shellfish?</i>”</p>

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# Survey Clarifications: Instructions for questions about information sources

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#	Question	Comment
Q17	<i>What are your preferred sources of getting information?</i>	<p><u>Issue</u>: Question feels too vague, unclear what information we are talking about</p> <p><u>Clarification</u>: Surveyors can refer back to Q14 and use that language to clarify the type of information (Information about “<i>how eating seafood caught from this river can affect people’s health</i>”)</p>
Q25	<i>As a follow up to one of our earlier questions, how can we best get information to you about eating seafood from this river?</i>	<p><u>Issue</u>: Q25 feels repetitive with earlier questions about information sources</p> <p><u>Clarification</u>: This is one of the additional questions - surveyors can re-phrase this question to clarify. Possible revision: “<i>If we have any information about eating seafood from this river, how can we get that information to you?</i>”</p>

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# Survey Clarifications: Instructions for question about safe seafood

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#	Question	Comment
Q23	<i>Are some types of seafood from this river safer to eat than others? [IF YES, ASK WHICH ONES.]</i>	<u>Issue</u> : Question has been confusing to some fishers <u>Clarification</u> : This is one of the additional questions, and thus surveyors can re-phrase this question to clarify as needed



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# Next Steps and Discussion

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# Next Steps

- Continue conducting surveys
- Next quarterly update
  - Second quarterly update scheduled for late April
  - Second quarter includes January to March
- Key informant interview process
  - Plan to start the process of designing these interviews after the second quarter concludes in March
  - Already working to identify possible interviewees

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# Thank you!

- Questions?
- Comments?

