You have been randomly chosen as a Kenai Peninsula resident to participate in a study conducted by the University of Alaska Anchorage about how communities see and might respond to changes on the Kenai Peninsula. Participation is completely voluntary. The summarized results from the study will provide an understanding of how residents use and value local resources such as land, water, social ties, and information. Results will be used with local residents and community groups to assist in the identification of appropriate ways to respond to any changes.

Enclosed is a small gift for you in recognition of your time and effort. Your answers will remain anonymous with no identifying information requested. There are no foreseeable risks in participating. This questionnaire will take approximately 20 minutes. You must be 18 or older to participate. By mailing us your completed questionnaire, you are indicating your consent for the use of your responses in this research.

We need your help! Thank you for taking the time to share your knowledge!

Please return your completed questionnaire and map in the enclosed prepaid envelope to:

ATTN: Sarah Wandersee
Department of Biological Sciences
University of Alaska Anchorage
3211 Providence Drive, CPISB 101
Anchorage, AK 99508

If you have any questions about this study, questionnaire, or individual questions, please call: 907-786-7749.

If you have any questions about your rights as a research participant, contact UAA Research Integrity & Compliance Officer Dr. Dianne Toebe, at 907-786-1099.
This survey looks at demographics and values to help us understand how communities might respond to land or water changes. Contact information is provided on the last page for any questions or comments.

Thank you for sharing your valuable experience and time! Your participation is important!

Section A: Kenai residency and outdoor activities
In the first section, we ask about your experience outdoors and on the Kenai Peninsula.

1. How long have you lived in Alaska? ________ Years
   □ I have never lived in Alaska - If so, discontinue survey

2. How long have you lived on the Kenai Peninsula? ________ Years
   □ I have never lived on the Kenai Peninsula - If so, discontinue survey

3. Where is your current main residence (where you spend most of the year)?
   a) Anchor Point
   b) Clam Gulch
   c) Cooper Landing
   d) Homer
   e) Hope
   f) Kachemak
   g) Kasilof
   h) Kenai
   i) Moose Pass
   j) Nanwalek
   k) Nikiski
   l) Nikolaevsk
   m) Ninilchik
   n) Port Graham
   o) Portlock
   p) Salamatof
   q) Seldovia
   r) Seward
   s) Soldotna
   t) Sterling
   u) Anchorage
   v) Other: ___________

4. After 2013, how long do you plan to stay on the Kenai?
   a) <1 yr
   b) 1 – 5 yrs
   c) 6 – 10 yrs
   d) 11 – 20 yrs
   e) the rest of my life

5a. Do you fish or do you have household members that fish the Kenai River?
   ______Yes    ______No (move on to #6)

5b. If yes, how many times do you visit the following areas in a typical fishing season?
   Beaver Creek _____________ times  Other:______________  _____ times
   Russian River _____________ times  Other:______________  _____ times
   Ptarmigan Creek _____________ times  Other:______________  _____ times
5c. Which changes would prevent you from fishing? (circle one or more)

a) higher cost of transportation (gas, etc.)
b) higher cost of participation (fees, etc.)
c) lack of social group
d) scarcity of resources (fish, etc.)
e) too many other people fishing
f) Nothing would stop me.
g) Other: ____________________

5d. Fishing the Kenai River provides many benefits (like food & recreation with friends). What would be hardest to replace if you couldn't fish the Kenai River?

6a. Check the outdoor activities that you participate in (check all that apply) AND

6b. Rank the top 3 activities of importance to you, with 1 as the most important. (If you did not check one of the boxes below, do not rank it).

<table>
<thead>
<tr>
<th>I do this</th>
<th>Activity</th>
<th>Rank - your top 3 (1 as most important)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Subsistence fishing, hunting, gathering</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Camping</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clamming</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biking</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Birding</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dipnetting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Four wheeling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gathering (berries, mushrooms, etc.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hiking</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hunting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rafting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skiing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Snowmachining</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sportfishing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sports (football, soccer, hockey, etc.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other (please explain):</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other (please explain):</td>
<td></td>
</tr>
</tbody>
</table>
6c. Think about the amount of time you generally spend outdoors doing any of the previous or other activities. In an average year, about how often are you outdoors?

   a) Every day  
   b) A few times a week  
   c) A few times a month  
   d) A few times a year  
   e) Once or twice a year  
   f) Never

Section B: Information

7a. We would like to learn where you get the information you use to make decisions and stay informed on land and water resources and/or activities on the Kenai. Please circle one or more of the information sources you use the most.

Radio  
Friends  
TV

Work colleagues  
Internet  
Scientific journals

Social media  
Magazines  
Professional associations

Research/academic institutions  
Non-governmental organizations  
Local government meetings

Federal agencies  
Neighbors  
Local news

State agencies  
Bulletin boards/Flyers  
Newspaper

Personal observation  
Other (please explain): __________________________

7b. In the last 5 years, my opinion about climate change impact on land and water resources has:

   a) not changed  
   b) changed a little  
   c) changed a lot
Section C: Values and perceptions

8. MAPPING ACTIVITIES: For each of the 2 mapping activities, you will use the enclosed map of the Kenai Peninsula and the values stickers. Instructions are provided below. Please remember that you can use as many or as few stickers as you would like.

**MAPPING ACTIVITY 1 of 2: Mapping Your Values**

Kenai areas hold different values for Alaskans. Some of these values are described on the “Values and Special Places” sticker sheet. How important are these values to you and where are they located?

**Step 1:** Find the enclosed map from Exercise 1 and the “Values and Special Places” sticker sheet. There are 6 dots for each value with an “importance” rating from 5 to 50 points. Some value stickers are more important (50 points) than other stickers (20, 10, or 5 points each).

**Step 2:** Place the stickers on the map where the associated values are important to you. Use as many or few stickers as you like. The most important stickers go with the most important places.

**Step 3:** Continue with Mapping Activity 2 below.

**MAPPING ACTIVITY 2 of 2: Mapping Your Special Places**

What Kenai areas are special to you? “Special places” are areas with particular meaning for you.

**Step 1:** Find the enclosed map from Exercise 1 and the set of 6 “Special Places” stickers marked P1, P2, P3, P4, P5, and P6. These stickers represent your favorite or “special places” in Kenai areas. Place the stickers on the map on your special places.

**Step 2:** Please explain briefly (below) what makes these places special.

Special Place #1 __________________________________________________________
Special Place #2 __________________________________________________________
Special Place #3 __________________________________________________________
Special Place #4 __________________________________________________________
Special Place #5 __________________________________________________________
Special Place #6 __________________________________________________________

**Step 3:** Please complete the remainder of this questionnaire.
9. To what extent do you agree/disagree with the following statements? (circle)

<table>
<thead>
<tr>
<th>Statement</th>
<th>Strongly disagree</th>
<th>Somewhat disagree</th>
<th>Unsure</th>
<th>Somewhat agree</th>
<th>Strongly agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>It is not appropriate to put a dollar value on benefits we receive from nature.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humans are changing the planet’s climate.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I would support more property regulations to protect the Kenai River.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>It’s easy to get information on environmental change.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>We should base our planning decisions on science.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Climate is changing on the Kenai.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The process used to generate regulations on the Kenai is fair.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government has a role in managing natural resources.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I am worried about changes in land and water on the Kenai.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section D: Change and impacts on ecosystem services and community

Ecosystem services is a term for the benefits that people receive from natural resources. We’re interested in how you and your community would deal with changes in services if they occurred.

10. Who would you go to for support (food, money, etc.) if you needed it?

11. Why do you choose to live on the Kenai?
12. Can you imagine any severe changes (gradual or sudden, either good or bad) for your community, where you would not be able to function as you do currently? If so, please describe briefly.

______________________________________________________________________
______________________________________________________________________
______________________________________________________________________

13. How likely do you think it is that changes in land or water resources could harm future generations of people on the Kenai?

   a) Not likely at all
   b) Somewhat likely
   c) Moderately likely
   d) Very likely
   e) Don’t know

14. How long will it be before you expect to see large changes in Kenai land or water resources?

   a) 0 – 10 years
   b) 10 – 50 years
   c) More than 50 years
   d) No large change in the future

15. Salmon populations have varied histories around the globe. We’re interested in which fisheries are generally well-known. Please circle the salmon fisheries below that you have some familiarity with (circle any that apply).

   South America  British Columbia  Russia
   New England/Eastern US  Norway  Germany
   Japan  Scotland  Iceland
   Oregon/Washington  Newfoundland/Labrador  California
16. Which factor do you think has the **most** impact (either positively or negatively) on Kenai Watershed salmon populations? (circle one)

Weather/climate  Resident fishing  State policies
Escapement  Local conservation efforts  Other:
Open-ocean fishing  Residential growth
Tourism-related activities  Federal policies

17. Who do you think should address environmental changes on the Kenai? (circle one or more)

Non-governmental organizations  Local government  Tribal Governments
State government  Local residents
Federal government  Other: __________________

18. How important are the following to the well-being of Kenai Peninsula communities?

<table>
<thead>
<tr>
<th>Public infrastructure</th>
<th>Not at all important</th>
<th>Somewhat important</th>
<th>Important</th>
<th>Most important</th>
<th>Don’t know</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial fishing</td>
<td>Not at all important</td>
<td>Somewhat important</td>
<td>Important</td>
<td>Most important</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Schools</td>
<td>Not at all important</td>
<td>Somewhat important</td>
<td>Important</td>
<td>Most important</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Tourism</td>
<td>Not at all important</td>
<td>Somewhat important</td>
<td>Important</td>
<td>Most important</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Gas and oil</td>
<td>Not at all important</td>
<td>Somewhat important</td>
<td>Important</td>
<td>Most important</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Vegetation</td>
<td>Not at all important</td>
<td>Somewhat important</td>
<td>Important</td>
<td>Most important</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Wildlife</td>
<td>Not at all important</td>
<td>Somewhat important</td>
<td>Important</td>
<td>Most important</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Renewable energy</td>
<td>Not at all important</td>
<td>Somewhat important</td>
<td>Important</td>
<td>Most important</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Sportfishing</td>
<td>Not at all important</td>
<td>Somewhat important</td>
<td>Important</td>
<td>Most important</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Rivers</td>
<td>Not at all important</td>
<td>Somewhat important</td>
<td>Important</td>
<td>Most important</td>
<td>Don’t know</td>
</tr>
<tr>
<td>New businesses</td>
<td>Not at all important</td>
<td>Somewhat important</td>
<td>Important</td>
<td>Most important</td>
<td>Don’t know</td>
</tr>
</tbody>
</table>
19. For each of the following, please circle two things:
a. how LIKELY you think the following changes are in Southcentral Alaska, AND
b. what the potential IMPACT would be to the community if the change occurred.

Example: A change could be Likely with a Neutral impact, or Unlikely and Very Positive.

<table>
<thead>
<tr>
<th>Governance</th>
<th>Stronger environmental regulations</th>
<th>a. LIKELY?</th>
<th>Very unlikely</th>
<th>Unlikely</th>
<th>Neutral</th>
<th>Likely</th>
<th>Very likely</th>
<th>Don’t know</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>b. IMPACT?</td>
<td></td>
<td>Very negative</td>
<td>Some negative</td>
<td>Neutral</td>
<td>Some positive</td>
<td>Very positive</td>
<td>Don’t know</td>
</tr>
<tr>
<td>More public participation</td>
<td>a. LIKELY?</td>
<td>Very unlikely</td>
<td>Unlikely</td>
<td>Neutral</td>
<td>Likely</td>
<td>Very likely</td>
<td>Don’t know</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. IMPACT?</td>
<td></td>
<td>Very negative</td>
<td>Some negative</td>
<td>Neutral</td>
<td>Some positive</td>
<td>Very positive</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Drying of wetlands areas</td>
<td>a. LIKELY?</td>
<td>Very unlikely</td>
<td>Unlikely</td>
<td>Neutral</td>
<td>Likely</td>
<td>Very likely</td>
<td>Don’t know</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. IMPACT?</td>
<td></td>
<td>Very negative</td>
<td>Some negative</td>
<td>Neutral</td>
<td>Some positive</td>
<td>Very positive</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Increase in average yearly temperatures</td>
<td>a. LIKELY?</td>
<td>Very unlikely</td>
<td>Unlikely</td>
<td>Neutral</td>
<td>Likely</td>
<td>Very likely</td>
<td>Don’t know</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. IMPACT?</td>
<td></td>
<td>Very negative</td>
<td>Some negative</td>
<td>Neutral</td>
<td>Some positive</td>
<td>Very positive</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Less snow in winter months</td>
<td>a. LIKELY?</td>
<td>Very unlikely</td>
<td>Unlikely</td>
<td>Neutral</td>
<td>Likely</td>
<td>Very likely</td>
<td>Don’t know</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. IMPACT?</td>
<td></td>
<td>Very negative</td>
<td>Some negative</td>
<td>Neutral</td>
<td>Some positive</td>
<td>Very positive</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Increase in summer stream temperatures</td>
<td>a. LIKELY?</td>
<td>Very unlikely</td>
<td>Unlikely</td>
<td>Neutral</td>
<td>Likely</td>
<td>Very likely</td>
<td>Don’t know</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. IMPACT?</td>
<td></td>
<td>Very negative</td>
<td>Some negative</td>
<td>Neutral</td>
<td>Some positive</td>
<td>Very positive</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Increase in fire occurrence</td>
<td>a. LIKELY?</td>
<td>Very unlikely</td>
<td>Unlikely</td>
<td>Neutral</td>
<td>Likely</td>
<td>Very likely</td>
<td>Don’t know</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. IMPACT?</td>
<td></td>
<td>Very negative</td>
<td>Some negative</td>
<td>Neutral</td>
<td>Some positive</td>
<td>Very positive</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Changes in sea level</td>
<td>a. LIKELY?</td>
<td>Very unlikely</td>
<td>Unlikely</td>
<td>Neutral</td>
<td>Likely</td>
<td>Very likely</td>
<td>Don’t know</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. IMPACT?</td>
<td></td>
<td>Very negative</td>
<td>Some negative</td>
<td>Neutral</td>
<td>Some positive</td>
<td>Very positive</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Salmon</td>
<td>Changes in the timing of salmon runs</td>
<td>a. LIKELY?</td>
<td>Very unlikely</td>
<td>Unlikely</td>
<td>Neutral</td>
<td>Likely</td>
<td>Very likely</td>
<td>Don’t know</td>
</tr>
<tr>
<td></td>
<td>b. IMPACT?</td>
<td></td>
<td>Very negative</td>
<td>Some negative</td>
<td>Neutral</td>
<td>Some positive</td>
<td>Very positive</td>
<td>Don’t know</td>
</tr>
<tr>
<td>Increased year-to-year variability in runs</td>
<td>a. LIKELY?</td>
<td>Very unlikely</td>
<td>Unlikely</td>
<td>Neutral</td>
<td>Likely</td>
<td>Very likely</td>
<td>Don’t know</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. IMPACT?</td>
<td></td>
<td>Very negative</td>
<td>Some negative</td>
<td>Neutral</td>
<td>Some positive</td>
<td>Very positive</td>
<td>Don’t know</td>
</tr>
</tbody>
</table>
## Section E: Background information

In this final section, we would like to learn a little more about you. Several of these questions are similar to those in the American Community Survey. As with all of the above questions, your responses are voluntary and confidential.

20. **Age:** ______

21. **Gender**
   a) Male  
   b) Female  
   c) Prefer not to say
22. How many people live in your household?  
(include yourself, any children or significant others, etc.) __________

23. What is your main occupation? ________________________________

24. How many personal vehicles does your household have?  
(cars, trucks, vans, etc.) ________________________________

25. What is the highest level of education that you have completed?  

a) Less than 12th Grade (no diploma)  
b) High school graduate or equivalent  
c) Some college/post high school training  
d) Two year technical or associate degree  
e) Four year college degree (BA/BS)  
f) Graduate or professional degree (MS, JD, MD, Ph.D.)

26. What is your ethnicity? (circle one or more as needed)  

a) Alaska Native  
b) American Indian  
c) Asian  
d) Black or African American  
e) Hispanic or Latino  
f) Native Hawaiian/Pacific Islander  
g) White/Caucasian

27. Does your household rent or own the place where you live now?  

a) Rent  
b) Own  
c) Some other arrangement

28. In which income category (in dollars) does your household income fall?  

a) Less than 15,000  
b) 15,000 to 34,999  
c) 35,000 to 74,999  
d) 75,000 to 99,999  
e) 100,000 to 149,999  
f) 150,000 or more
29. Is there anything else you would like to share about Kenai areas and potential opportunities/challenges facing the region? We appreciate any further thoughts.

We are dedicated to making sure the community receives information about the survey results. If you do NOT want to receive the survey results, you can check the box below.

☐ No. Please do NOT send me the survey results.

THANK YOU FOR YOUR HELP!

Feel free to contact us with any questions or concerns you might have or for further information.

University of Alaska Anchorage
Dept. of Biological Sciences
3211 Providence Drive
CPISB 101
Anchorage, AK 99508

Sarah Wandersee
Project Manager
University of Alaska Anchorage
907-786-7749