

USABILITY TEST INSTRUCTIONS

Thank you for agreeing to participate in a usability test for my capstone project. Be aware that I will be recording written notes about this test in an effort to improve my deliverables for the project itself; no personally identifiable information is being recorded. This test is intended to keep you as comfortable with what you are doing as possible. If you become uncomfortable at any time, you may choose to stop the test with no penalties or repercussions.

This test is intended to orient you to and test the usage of a metadata structure being proposed for use within the University of Washington. This metadata structure will contain data on the University's environmental sustainability initiatives. You are not being tested; rather, I am most interested in your experiences and observations as you work through each task. To that end, I am going to ask you to narrate your thought process as you work through these exercises. This process should take no more than an hour. These tasks are timed, and I will be keeping time for you.

Do you have any questions before we start?

TIMELINE

5 minutes	Introduction
15 minutes	Task 1 (documentation review)
10 minutes	Task 2 (data entry)
10 minutes	Task 3 (data entry)
5 minutes	Task 4 (reading the data)
10 minutes	Open Questions/Discussion

QUESTIONS

1. What is your reaction to the documentation? Was it clear? Were there places where you were confused, or needed more explanation to complete a particular task?
2. How would you describe the metadata structure itself?
3. How confident are you in the metadata structure's ability to describe environmental sustainability data?
4. Do you have any comments or questions about the structure or the work in general?

TASK #2

DO NOT BEGIN UNTIL INSTRUCTED TO DO SO.

On a blank sheet of paper and using the documentation provided, create the XML structure that describes the data presented below. If something is unclear, attempt to complete the task using whatever means you feel are appropriate.

Work at your own pace. You are *not* required to enter *all* the data shown below.

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2007 Annual Campus Traffic Count

Gate 1, Central Plaza Garage

Direction: Inbound	Monday	Tuesday	Wednesday	Thursday	Friday	Average
Hour	10/8/2007	10/9/2007	10/10/2007	10/11/2007	10/12/2007	
12:00 AM - 1:00 AM	12	9	13	12	15	12
1:00 AM - 2:00 AM	3	5	3	7	3	4
2:00 AM - 3:00 AM	2	2	4	2	4	3
3:00 AM - 4:00 AM	1	1	1	0	1	1
4:00 AM - 5:00 AM	9	11	14	13	12	12

TASK #3

DO NOT BEGIN UNTIL INSTRUCTED TO DO SO.

On a blank sheet of paper and using the documentation provided, create the XML structure that describes the data presented below. If something is unclear, attempt to complete the task using whatever means you feel are appropriate.

Work at your own pace. You are *not* required to enter *all* the data shown below.

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The Motor Pool tracks all fuel purchases for its vehicles, and these are used to estimate GHG emissions as shown in Table 8.

	2000		2005	
	L	MgCO ₂	L	MgCO ₂
gasoline vehicles				
Seattle Motor Pool	946,000	2,190	910,000	2,110
Seattle other	n.d.	n.d.	n.d.	n.d.
Tacoma Motor Pool	**4,490	**10	4,870	11
Bothell Motor Pool	57,400	133	26,200	61
outlying facilities	**32,400	**131	35,100	142
gasoline subtotals	<u>1,040,000</u>	<u>2,470</u>	<u>977,000</u>	<u>2,320</u>

TASK #4 - DO NOT BEGIN UNTIL INSTRUCTED TO DO SO.

On a blank sheet of paper and using the documentation provided, write a description of what the data below is describing. If something is unclear, attempt to complete the task using whatever means you feel are appropriate.

DO NOT BEGIN UNTIL INSTRUCTED TO DO SO.

```
<university>
  <input id="in_00001" year="2005">
    <materialRef>m_00001</materialRef>
    <location>
      <name>Seattle</name>
    </location>
    <amount>38400</amount>
  </input>
  <input id="in_00002" year="2005">
    <materialRef>m_00001</materialRef>
    <location>
      <name>Tacoma</name>
    </location>
    <amount>2110</amount>
  </input>
  <input id="in_00005" year="2005">
    <materialRef>m_00001</materialRef>
    <location><name>Bothell</name></location>
    <amount>1600</amount>
  </input>
  <output id="out_00001" year="2000">
    <materialRef>m_00002</materialRef>
    <location>
      <name>Seattle</name>
      <administrativeUnit type="Building">power
plant</administrativeUnit>
    </location>
    <amount>90500</amount>
  </output>
  <output :id="out_00002" year="2005">
    <materialRef>m_00002</materialRef>
    <location>
      <name>Seattle</name>
      <administrativeUnit type="Building">power
plant</administrativeUnit>
    </location>
    <amount>82700</amount>
  </output>
  <material type="other" id="m_00001">
    <name type="formal">student headcount</name>
    <name type="informal">student enrollment</name>
  </material>
  <material type="other" id="m_00002">
    <name type="formal">gross emissions (MgCO2e)</name>
  </material>
</university>
```