

**GCA 6637**

**TASK ORDER B-1**

This Task Order is entered into between the Washington State Department of Transportation, hereinafter the "WSDOT," and the Quinault Indian Nation, hereinafter the "NATION," collectively "PARTIES" and individually "PARTY."

**WHEREAS**, Agreement GCA 6637, was entered into and between the WSDOT and the NATION on February 14, 2011; and

**WHEREAS**, Agreement GCA 6637 allows the WSDOT to assign specific tasks to the NATION which are necessary to ensure the conservation, preservation, and protection of sensitive resources; and

**WHEREAS**, the PARTIES wish to enter into a Task Order detailing the mutual responsibilities required to ensure said conservation, preservation, and protection; and

**NOW, THEREFORE**, by virtue of RCW 39.34 and in consideration of the terms, conditions, covenants, and performances contained herein, or attached an incorporated and made a part hereof, IT IS MUTUALLY AGREED AS FOLLOWS:

**Section 1  
General**

1.1 Agreement GCA 6637 is incorporated and by this reference made part of this Task Order B-1 as if fully set forth herein.

**Section 2  
Scope of Work**

2.1 The NATION agrees to perform the work and provide any deliverables described in Attachment A, letter sent from the Director of the SR 520 Bridge Replacement and HOV Program to the NATION (Letter), attached hereto and by this reference made a part of this Task Order.

**Section 3  
Payment**

3.1 The WSDOT, in recognition of the faithful performance of the work by the NATION, agrees to reimburse the NATION for work included in this Task Order. The purpose of these funds is to fully reimburse the NATION for all fish weir stake preservation work. The maximum amount payable to the NATION under this Task Order is Nine Thousand Eight Hundred Sixty Dollars (\$9,860.00).

3.2 An estimate of costs for the work is provided in the Letter.

3.3 The NATION shall submit an invoice for payment from the WSDOT in accordance with Section 6 of GCA 6637.

3.4 The WSDOT agrees to make payment for work completed by the NATION within thirty (30) calendar days from the date the invoice is received by the WSDOT.

3.5 The NATION agrees to submit an invoice for full payment to the WSDOT within ninety (90) calendar days after execution of this Task Order or if this Task Order is terminated, whichever comes first.

**Section 4  
Effectiveness and Duration**

4.1 This Task Order is effective as of May 31, 2011, as identified in the Letter, and will remain in effect until March 31, 2012, unless otherwise amended or terminated.

**Section 5  
Termination**

5.1 This Task Order may be terminated by either PARTY upon thirty (30) calendar days advanced written notice. In the event of termination, payment will be made to the NATION for work completed and billed as of the effective date of termination.

**N WITNESS WHEREOF**, the PARTIES hereto have executed this Task Order as of the PARTY's date signed last below.

**QUINAULT INDIAN NATION**

**STATE OF WASHINGTON  
DEPARTMENT OF TRANSPORTATION**

*Fawn Sharp*  
for \_\_\_\_\_  
Fawn Sharp  
President

*Julie Meredith*  
\_\_\_\_\_  
Julie Meredith, P.E.  
SR 520 Program Director

*08/11/2011*  
\_\_\_\_\_  
Date

*8/15/2011*  
\_\_\_\_\_  
Date



**Washington State  
Department of Transportation**

**Paula J. Hammond, P.E.**  
Secretary of Transportation

Engineering and Regional Operations  
SR 520 Bridge Replacement and HOV Program  
600 Stewart Street, Suite 520  
Seattle, WA 98101

Phone: 206-770-3500  
Fax: 206-770-3569  
TTY: 1-800-833-6388  
[www.wsdot.wa.gov/Projects/SR520Bridge](http://www.wsdot.wa.gov/Projects/SR520Bridge)

May 31, 2011

LTR – 2028

The Honorable Fawn Sharp  
President  
Quinault Indian Nation  
PO Box 189  
Taholah, WA 98587

**RE: SR 520 Pontoon Construction Project  
Distribution and Repatriation of Fish Weir Stakes**

Dear President Sharp:

The Washington State Department of Transportation (WSDOT), on behalf of the Federal Highway Administration, is continuing consultation on the above-referenced project. Thank you for your letter dated May 6, 2011, regarding the fish weir stakes. We appreciate the time your staff has dedicated to working with us on cultural resources issues for this project, including the proposed distribution, curation, and preservation of fish weir stakes that WSDOT discovered in the project area.

Over the past several months, WSDOT staff have been coordinating with the designated cultural resources contacts at the Quinault Indian Nation (Quinault) and at the Confederated Tribes of the Chehalis Reservation (Chehalis) to come to resolution on distribution, curation, and preservation of fish weir stakes collected from the Aberdeen Log Yard (ALY) site and the Anderson & Middleton (A&M) site. During previous cultural resources investigations conducted to support the environmental analysis, archaeologists collected 51 fish weir stakes from the ALY site and 486 fish weir stakes from the A&M site. These findings were documented in environmental and cultural resources reports provided to the Tribes last year. The stakes have been stored by WSDOT in a facility, until permanent disposition could be determined.

We understand that fish weir stakes have important cultural value to both Tribes, and therefore, the Tribes are in the best position to determine long-term curation and preservation needs of these resources. We greatly appreciate both Justine James and Richard Bellon taking the lead on resolution of this issue between the Tribes and WSDOT.

Per the two requests in your letter, we have followed up with Mr. James regarding distribution of the stakes, and contacted Dr. Dale Croes regarding his proposal for the preservation of the stakes.

**Distribution of Fish Weir Stakes**

Per our coordination with Mr. James and Mr. Bellon, WSDOT will provide all fish weir stakes from both ALY and A&M to the Chehalis, with the understanding that the Quinault and the Chehalis will coordinate on distributing the stakes equally from each site, and will share the responsibility for

The Honorable Fawn Sharp  
May 31, 2011  
Page 2 of 2

curation. Any additional fish weir stakes that may be found during construction at the ALY site will also be provided to the Chehalis with the same understanding.

WSDOT will coordinate with Mr. James and Mr. Bellon to ensure a respectful and culturally appropriate means of transferring the stakes, and plan to provide the stakes to the Chehalis by **July 1, 2011** unless we hear otherwise from either of the Tribes.

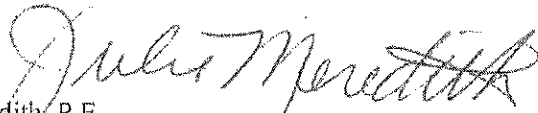
**Funding for Preservation**

WSDOT considered entering into a 3-party agreement with South Puget Sound Community College (SPSCC) and the Quinault. According to Dr. Dale Croes, the SPSCC is unable to directly contract with WSDOT due to budget constraints and the lack of staff to enter into interagency contracts. In response to Tribal requests and as a result of negotiations, WSDOT will directly provide funding to each Tribe for preservation and curation of the fish weir stakes, or for other purposes related to treatment or disposition of the stakes.

Enclosed please find a scope and budget proposal drafted for the Quinault and provided by Dr. Croes to WSDOT. Based on this estimate, WSDOT will provide the Quinault with \$9,860 which is in addition to the lump sum payment under GCA 6658 – Memorandum of Agreement for the SR 520 Pontoon Construction Project. WSDOT will coordinate with your staff about developing an agreement, which will allow for the transfer of funds to each Tribe. Due to schedules and approvals associated with funding agreements, the transfer of funds may occur after the fish weir stakes are provided.

We appreciate the participation of your staff and tribal leadership in reaching resolution on this issue. If you have any questions, please feel free to contact Margaret Kucharski, WSDOT Environmental Lead, at 206-770-3540 or [kucharm@wsdot.wa.gov](mailto:kucharm@wsdot.wa.gov) or Steve Archer, WSDOT Cultural Resources Specialist, at 206-805-2895 or [archers@wsdot.wa.gov](mailto:archers@wsdot.wa.gov).

Sincerely,



Julie Meredith, P.E.  
SR 520 Program Director

Enclosure

cc: David Bingaman, Quinault Indian Nation  
Justine James, Quinault Indian Nation  
Leilani Chubby, Quinault Indian Nation  
Dawneen DelaCruz, Quinault Indian Nation  
Randy Everett, FHWA, via email  
Margaret Kucharski, WSDOT, via email  
Phillip Narte, WSDOT, via email  
Megan Cotton, WSDOT, via email  
Scott Williams, WSDOT, via email  
Steve Archer, WSDOT, via email  
Dave Ziegler, WSDOT, via email

**QUINALT INDIAN NATION**  
**Blagen Hill Precontact Fish Weir Site (45GH179)**  
**Wooden Fish Weir Stakes Restoration and Conservation**  
**Scope of Work and Budget Proposal**

Washington State Department of Transportation

## **1. Background**

South Puget Sound Community College Archaeological Training Wet Site Laboratory received 10 split cedar fish weir stakes from the Blagen Hill/Precontact Fish weir site (45GH179), delivered 17 September 2010 by Scott Williams, Washington State Department of Transportation. The stakes were recovered in 2009 from the Gray's Harbor area on property owned by the Anderson & Middleton Company of Hoquiam, WA; about 0.5 miles west of the mouth of the Hoquiam River, 18.5-20 feet below mud and fill. After excavation the stakes were allowed to slow dry, resulting in a very fragile condition, and most of the stakes have cracks and checking. Cliff Cook, Senior Conservator-Archaeology of the Canadian Conservation Institute was consulted about the possibility of rehydration and subsequent conservation with polyethylene glycol (PEG), as he has had much experience in working with the conservation of waterlogged archaeological material. He indicated that when wood dries in this manner two things happen: the cell walls shrink and cells collapse in on themselves. Cell wall shrinkage or expansion is mostly reversible depending on the moisture present in the wood.

With permission from the Quinault Tribe, Chehalis Tribe and property owner Rick Middleton, it was decided to choose one of the stakes for attempted rehydration (see **4. Appendix**). The stake (45GH179/2009/4) was weighed and measured, and photographed from all sides and ends. It was then placed in plain water on 1 November 2010. On 18 November 2010 it was weighed and measured again, with a noticeable increase in weight from 50 grams to 133 grams. Thickness of the stake increased in the center and at both ends, and the width increased in the center but decreased on the ends as the splitting at the ends began to close. On 5 January 2011 the stake was again measured and weighed, with a weight increase to 147 grams indicating the wood was still absorbing water. Measurements showed a decrease in thickness in the center and one end, and an increase in the bent end of the stake. Width measurements showed a decrease, except in the bent end. Overall the stake appears to be continuing to improve in appearance, as seen in photographs (Figures 1-6) with the splitting on the ends in particular closing. On February 2 2011 the stake was again weighed and measured, with no further change in weight and minimal changes in measurements. Table 1 below is a record of the measurements.



**Supplies:**

Rubbermaid 66 quart container @ Lowes  
10 containers = \$150  
Carbowax PEG 400 @ \$99 a gallon  
\$99 x 5 gallons = \$495.00  
Other supplies (ring tags, paper, bubble wrap, etc.) \$100.00  
Report Printing/ postage = \$20.00  
**Total Supplies: \$765.00**

**Travel and Meals:**

Travel: 360 miles a month (1 day) @ \$.25 a mile = \$90.00  
Meals: Meals for 1 day a month @ \$45: \$90.00  
**Total for Travel and Meals: \$180 x 9 months = \$1,620.00**

**SUBTOTAL: \$8,964.00**

**Indirect Costs**

10% of total cost \$8812.00 **\$896.00**

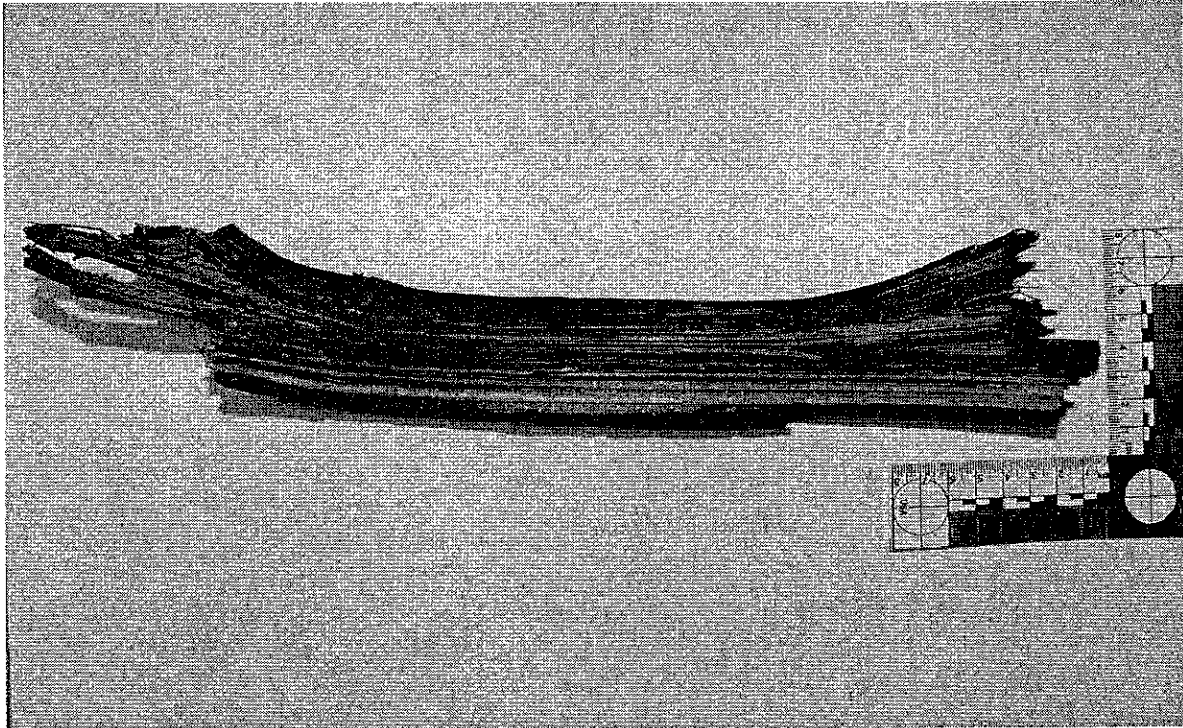
**GRAND TOTAL: \$9,860.00**

#### 4. Appendix

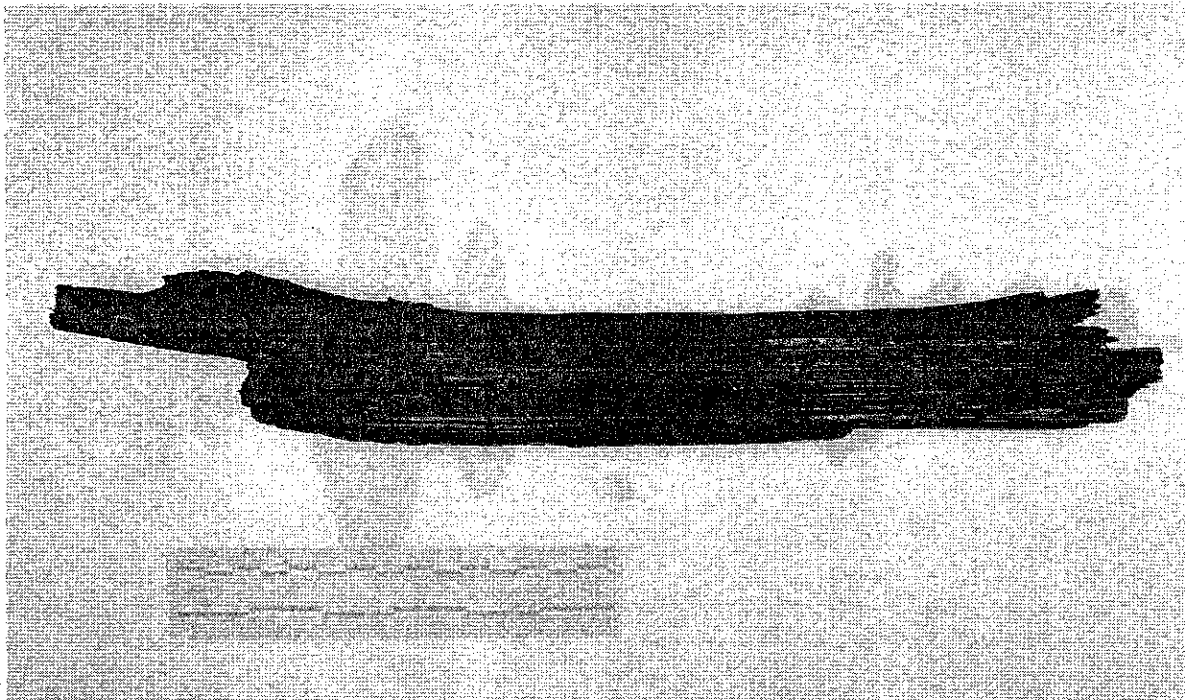
Table 1. Measurements of Fish weir stake 45GH179/2009/4

Middleton/Anderson Fish Weir 45GH179	Stake 45GH179/2009/4		
Date:	1-Nov-10	18-Nov-10	5-Jan-11
Weight:	50 g	133 g	147 g
Length:	37.2 cm	37.5 cm	38 cm
Thickness			
Center:	15 mm	17.11 mm	14.58 mm
Center of bent end:	14.30 mm	16.28 mm	18.64 mm
Center of opposite end	18.30 mm	18.97 mm	17.68 mm
Width			
Center:	41.67 mm	44.75 mm	44.57 mm
Center of bent end:	51.21 mm	46.86 mm	47.60 mm
Center of opposite end	54.58 mm	44.10 mm	43.52 mm

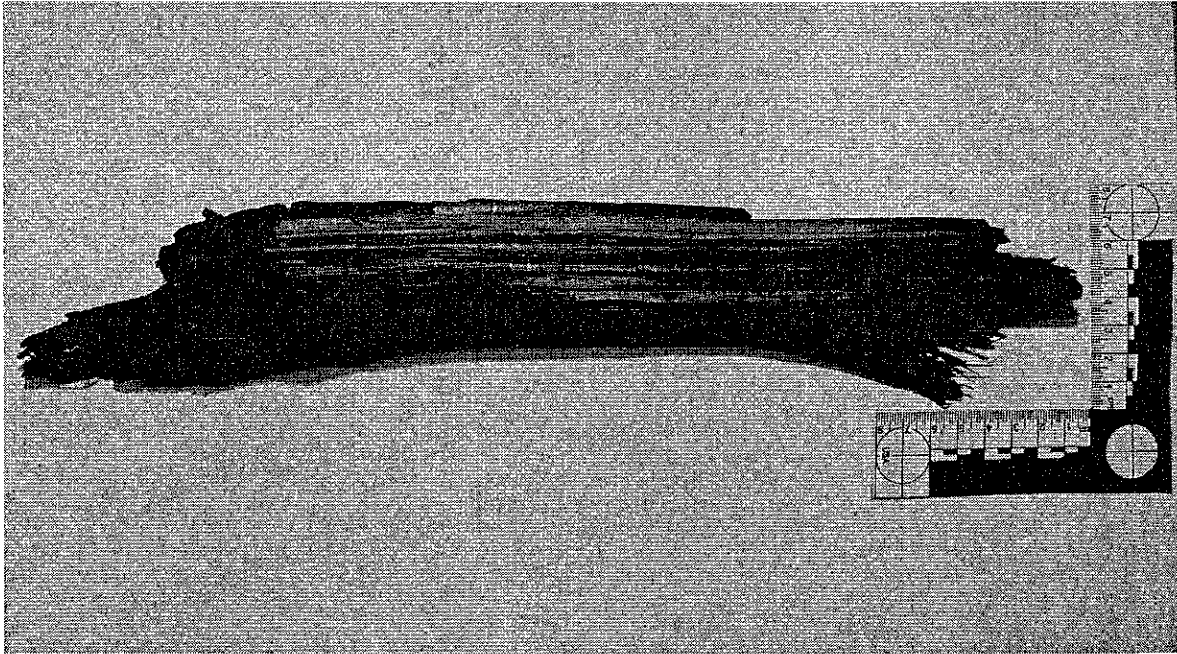
Photographs were taken of the stake on 1 November 2010 and 5 January 2011 (Figures 1-6). The photographs reveal the stake is improving in appearance and the split ends are drawing together. It is recommended the stake remain in water until weight and measurements stabilize, then further conservation in a 400 molecular weight polyethylene glycol and water solution to replace the water in the cells and stabilize the cell walls is suggested. The stakes will look much closer to their original form one stabilized in this solution, and would be in a condition for possible display in most indoor environments.



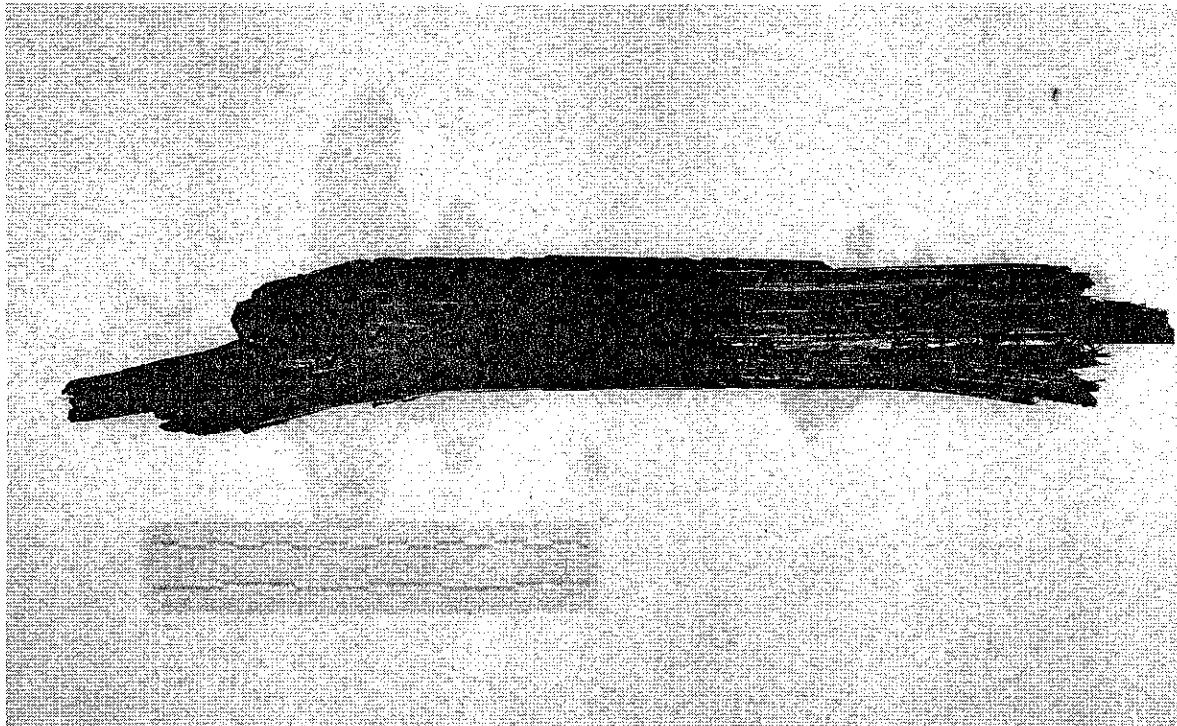
*Figure 1. Photograph taken 1 November 2010 of Stake 45GH179/2009/4 before hydration (Eva Marie Fuschillo)*



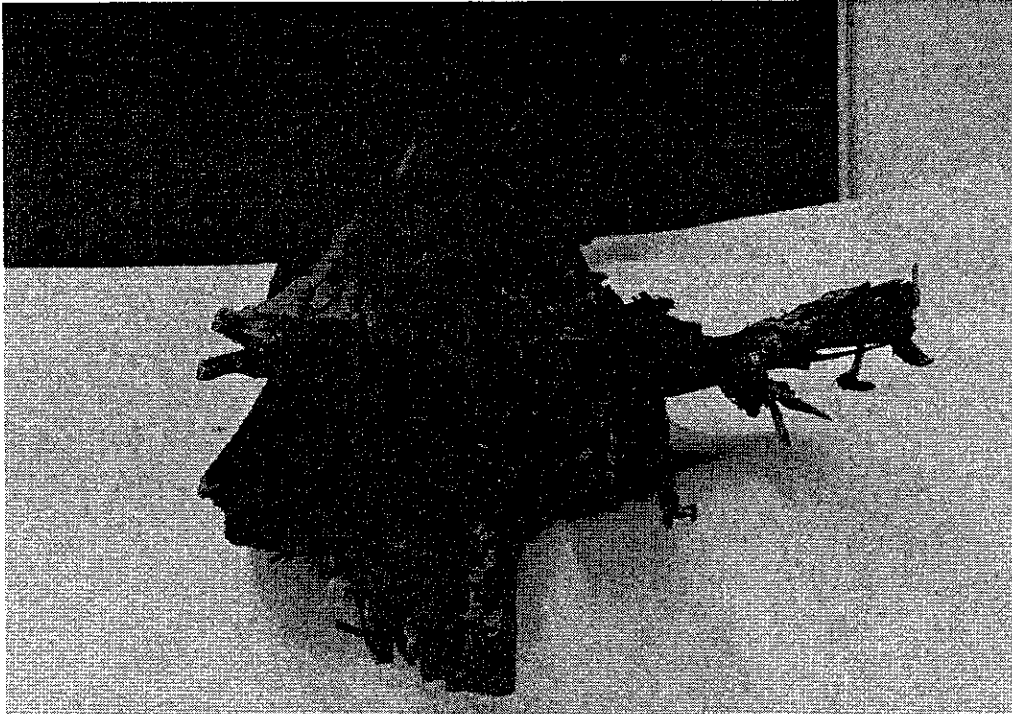
*Figure 2. Photograph taken 5 January 2011 of Stake 45GH179/2009/4 after hydration (Daniel Rowley)*



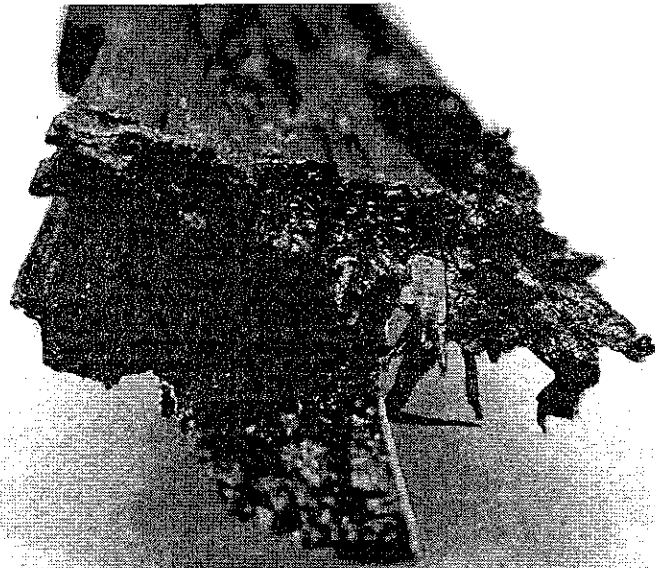
*Figure 3. Photograph of other side of Stake 45GH179/2009/4 taken 1 November 2010 before rehydration (Eva Marie Fuschillo)*



*Figure 4. Photograph of other of Stake 45GH179/2009/4 taken 5 January 2011 after rehydration (Daniel Rowley)*



*Figure 5. Photograph of end of Stake 45GH179/2009/4 taken 1 November 2010 before rehydration (Eva Marie Fuschillo)*



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*Figure 6. Photograph of end of Stake 45GH179/2009/4 taken 5 January 2011 after rehydration (Daniel Rowley)*

5. **Attachment**—Example of Syllabus for the Archaeological Laboratory Techniques (Anth 113; 5 credits) class this Spring 2011:

## **ARCHAEOLOGICAL LABORATORY TECHNIQUES**

**113R 7033**

**SPRING QUARTER 2011**

**Class meets Tuesdays and Thursdays 10:00-11:50 AM**

**Building 23, Room 125**

**Variable Credits: 1-5**

- Instructor: Dale R. Croes, Ph.D.
- Office Hours: by appointment
- (360) 596-5336
- Laboratory Manager: Kathleen Hawes, B.A.
- (360) 596-5463

Texts: ***Archaeological Laboratory Methods, An Introduction***

By Mark Q. Sutton and Brooke S. Arkush

2009, Fifth Edition

Kendall/Hunt Publishing Company

ISBN: 978-0-7575-5974-7

***Archaeology, A Very Short Introduction***

By Paul Bahn

1996

Oxford University Press

ISBN 0-19-285325-2

**Course Objectives:**

Laboratory analysis of excavated material from the Qwu?gwes Archaeological site and/or other sites as indicated. Preparation and presentation of research papers in class and for professional conferences. Familiarity with archaeological collections, their processing and curation. Includes appropriate theory and methods. Suggested classes include ANTH& 100, ANTH& 206, ANTH& 204.

**Schedule, Readings and “Themes”:**

**Readings for April 5-14:**

***Archaeological Laboratory Methods:***

Chapter 1 -Introduction	pages 1-16
Chapter 2 -The Archaeological Project	pages 17-26
Chapter 3 -The Archaeological Catalog	pages 27-40
Chapter 4 -Analysis of Flaked Stone	pages 41-70

*American Archaeology*: article on Electronic Reserve; go to:  
<http://www.library.spscc.ctc.edu/crm/crm.htm>

***Archaeology: A Very Short Introduction:***

Introduction	pages 1-7
Chapter 1-The Origins and Development of Archaeology	pages 8-16

**Readings for April 19-28: (no class April 21)**

***Archaeological Laboratory Methods:***

Chapter 5 -Ground Stone—Adzes	pages 71-104
Chapter 7 -Shell and Bone Artifacts	pages 135-144
Chapter 8 -Analysis of Perishables	pages 145-158

***Archaeology: A Very Short Introduction:***

Chapter 2-Making a Date pages 17-23

Chapter 3-Technology pages 24-30

**Tuesday May 3:**

***Turn in Laboratory Notebook #1 (Directed Project Idea/s 10 points),***

***Readings Abstracts 2 points and Lab Evaluation 2 points)***

**Readings for May 3-12:**

***Archaeological Laboratory Methods:***

Chapter 9 -Historical Artifacts pages 159-234

Chapter 10-Analysis of Animal Remains pages 235-266

Chapter 11-Analysis of Plant Remains pages 267-282

***Archaeology: A Very Short Introduction:***

Chapter 4-How Did People Live? pages 31-41

Chapter 5-How Did People Think? pages 42-54

Chapter 6-Settlement and Society pages 55-64

- ***May 12: Advising Day (no day classes)***

**Tuesday May 17:**

***Turn in Lab Notebook #2, (Project Progress 15 Points, Readings Abstract 2 points,  
and Lab Evaluation 2 points)***

***Turn in Final Project Personal Focus idea-one paragraph outline***

**Readings for May 17-26 :**

***Archaeological Laboratory Methods:***

Chapter 13-Archaeometry and Specialties	pages 303-320
Chapter 14-Archaeological Illustration	pages 321-330

***Archaeology: A Very Short Introduction:***

Chapter 7-How and Why Did Things Change?	pages 65-75
Chapter 8-Minorities and Sororities	pages 76-87
Chapter 9-Presenting the Past to the Public	pages 88-97

- ***May 30 Memorial Day (Holiday-no classes)***

**Tuesday May 31:**

***Turn in Lab Notebook #3, (Project Progress 20 Points, Readings Abstract 2 points, and Lab Evaluation 2 points)***

***Turn in preliminary presentation of Final Project Personal Focus***

**Readings for May 31-June 9:**

***Archaeological Laboratory Methods:***

Chapter 15-Setting up the Laboratory	pages 331-348
Complete Final Project-Personal Focus presentation	

***Archaeology: A Very Short Introduction:***

Chapter 10-The Future of the Past	pages 98-105
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**Thursday June 9:**

***Turn in Lab Notebook #4, (Final Project Paper 25***

***points, Readings Abstracts 2 points, and Lab Evaluation 2 points)***

**Final Exam Tuesday June 14:**

***Presentation of Final Paper—Personal Focus (20 Points)***

***Learning Outcomes:*** Upon completion of this course, you should be able to:

- Understand archaeological laboratory methods and management practices and apply those principles in working with a wide array of Qwu?gwes (and/or from other sites) archaeological artifacts, faunal and floral remains, archaeological residue, and historic artifacts.
- Recognize how the archaeological sub-discipline of anthropology relates to physical anthropology, cultural anthropology and linguistic anthropology and why it is different dealing with artifacts as its cultural data base.
- Be able to understand the key concepts and terminology used in the social science of archaeology and laboratory procedures.
- Understand computer data base management of archaeological collections and how to build a catalog of the data personally being studied for your project.
- Recognize how laboratory analysis of different categories of artifacts take place, e.g. stone tools, bone tools, shell tools, perishable artifacts (basketry, nets, fish traps), historical metal, glass and ceramic artifacts.
- Develop skills in identifying species of animals and plants from the shellfish, bones, seeds, nuts and rhizome remains.
- Conduct statistical analyses on one's own data base, including bar and pie charts, scattergrams and curves.
- Develop skills in compiling a PowerPoint slide presentation as if preparing for a professional conference.
- Be able to conduct internet and library research in archaeology and the process of conducting primary research with the archaeological data chosen for analysis and presentation,
- Present a professional paper and PowerPoint presentation for the current class as a final project and possible for a regional, national and/or international archaeological conference in the future. As examples, our students have presented professional papers/PowerPoint presentations at the regional Northwest Anthropological Conferences, national Canadian Archaeological Association and international Wetland Archaeological Research Project conferences in the past.

**Exams and Final:** As an Archaeological Laboratory Procedures class we will be doing hands-on laboratory work. You will be graded on your (a) **laboratory performance**, (b) **attendance**, (c) **lab notebook on personal project through the class and readings abstracts**, and (d) **personal project report and presentation**. This evaluation is as if you are an archaeological laboratory project employee and researcher, so that you learn to operate as a paid professional. You are expected to attend classes regularly and participate in ALL aspects of the lab work (attendance is a major part of assessing your participation and simulated-“employment” for the grade!)

**Field Trips and Anthropology Club:**

Opportunities will arise where you will be invited to participate in field trips. These trips are part of the learning experience and the costs of transportation and food must be shared, though supported also through Anthropology Club. These possible trips will be announced with time for planning. Participation will not directly impact your grade, but give you an additional on-hands experience. As an SPSCC student you will have the opportunity to join the Anthropology Club. The Club provides opportunities to broaden your understanding of Anthropology through field trips, guest speakers and fundraisers. Meetings are held the 1<sup>st</sup> and 3<sup>rd</sup> Thursdays of the month, in Building 23-125, 12:00PM-1:00PM.

**Anthropology and Archaeology Links of Interest (missing links?):**

<http://newswarp.info/>

<http://qmackie.wordpress.com/about/>

[http://www.sciencedaily.com/news/fossils\\_ruins/archaeology/](http://www.sciencedaily.com/news/fossils_ruins/archaeology/)

<http://anthropology.tamu.edu/news/>

**SPSCC Anthropology Club:** [spsccanthroclub@gmail.com](mailto:spsccanthroclub@gmail.com)