

## SECTION 1.5 SOURCES OF INFORMATION (WAC 463-42-095)

### 1.5.1 EARTH

ASCE (1984). *Guidelines for the Seismic Design of Oil and Gas Pipelines*, ASCE Technical Council on Lifeline Earthquake Engineering, Committee on Gas and Liquid Fuel Pipelines, 475 pages.

Atwater, T., 1970. Implications of Plate Tectonics for the Cenozoic Tectonic Evolution of the Western North America, *Geological Society of America Bulletin* 81, pp 3513-3535.

Atwater, B.F., 1987a. A periodic Holocene recurrence of widespread, probably coseismic subsidence in southwestern Washington; *EOS*, v.68, no.44.

Atwater, B.F., 1987b. Evidence for great Holocene earthquakes along the outer coast of Washington State; *Science*, v.236, no.4804, pp.942-944.

Atwater, B.F., 1992. Geologic evidence for earthquakes during the past 2000 years along the Copalis River, southern coast of Washington; *Journal of Geophysical Research*, v.97, pp. 1901-1919.

Atwater, B.F., A.R. Nelson, J.J. Clague, G.A. Carver, D.K. Yamaguchi, P.T. Bobrowsky, J. Bourgeois, M.E. Darienzo, W.C. Grant, E. Hemphill-Haley, H.M. Kelsey, G.C. Jacoby, S.P. Nishenko, S.P. Palmer, C.D. Peterson, and M. A. Renhart, 1995. Summary of Coastal Geologic Evidence for Past Great Earthquakes at the Cascadia Subduction Zone; *Earthquake Spectra*, v. 11, no. 1, 1995, pp 1-18.

Bartlett S. and T. L. Youd, "Empirical Prediction of Liquefaction-Induced Lateral Spread," *Journal of Geotechnical Engineering*, Vol. 121, No. 4, April 1995, pp. 316-329.

Bonneville Power Administration, No Date. Miscellaneous geotechnical engineering reports for portions of the BPA transmission line system in Washington State in the general area of the proposed pipeline project (unpublished documents).

Campbell, Newell P., 1989. Structural and stratigraphic interpretation of rocks under the Yakima fold belt, Columbia Basin, based on recent surface mapping and well data; *Geological Society of America, Special Paper 239*, Boulder CO.

Carver, G.A., and R.M. Burke, 1987. Late Holocene paleoseismicity of the southern end of the Cascadia subduction zone [abs.]; *EOS*, v.68, no.44, p.1240.

- Crandell, D.R., and D.R. Mullineaux, 1978. Potential Hazards from Future Eruptions of Mount St. Helens Volcano, Washington, U.S. Geological Survey Bulletin 1383-C.
- Crandell, Dwight R., 1976. Preliminary Assessment of the Potential Hazards from future Volcanic Eruptions in Washington; U.S. Geological Survey, Miscellaneous Field Studies Map, MF-774.
- Cummins, John, 1981. Med flows Resulting from the May 18, 1980 Eruption of Mount St. Helens, Washington; U.S. Geological Survey Circular 850-B, 16 pp.
- Dames & Moore, June 28, 1978. Report of Soils Investigation, Proposed Roadway Improvement, Roslyn, Washington, for the Town of Rosalyn. Job Number 1098-001-05.
- Dames & Moore, June 12, 1979. Report of Inspection and Construction, Earthwork and Foundation Construction Planned Warehouse Addition for Ste. Michelle Vinters, Inc. Job Number 6498-003-05.
- Dames & Moore, October 19, 1987. Site Evaluation Report, Universal/Land Construction Company for the Universal/Land Construction Company. Job Number 16229-001-005.
- Dames & Moore, November 17, 1989a. Report of Geotechnical Investigation Proposed Fifth Junior High School Near Bothell, Washington, for Northshore District No. 17. Job Number 05042-005-016.
- Dames & Moore, October 31, 1989b. Report, Settlement Analysis and Press Foundation Review, Satellite Production Facility, Woodinville, Washington, for the Seattle Times. Job Number 05525-002-016.
- Dames & Moore, January 12, 1990a. Report of Supplemental Geotechnical Investigation, Mt. Si High School Additional, Snoqualmie, Washington, for Snoqualmie School District No. 410. Job Number 08557-010-016.
- Dames & Moore, August 8, 1990b. Report of Pile Load Test, Mt. Si High School Modernization and Additions, Snoqualmie, Washington, for Snoqualmie School District No. 410. Job Number 8557-012-016.
- Dames & Moore, November 22, 1991. Final Report, Preliminary Site Assessment, Forster Woods Development Project, North Bend, Washington, for J. Wright Development Company. Job Number 13966-002-005.
- Dames & Moore, 1992. Final Report, Release Investigation and System Tests, Underground Storage Tanks #3 and #4, Washington State Reformatory, Monroe, Washington, for Department of

- Corrections. Job Number 3235-064-163. May 21, 1992.
- Dames & Moore, 1993. Report of Consultation, Soil and Debris Accumulation at Eagle Ridge Apartments, 12315 N.E. Woodinville Drive, Woodinville, Washington, for Ms. Debi De Blois. Job Number 27205-001-016. July 26, 1993.
- Dames & Moore, 1995. Report of Seismic Survey, Priest Rapids Project, Beverly and Gap Dam Sites, Beverly, Washington, for Grant County Public Utility District. Job Number 1952-A. February 18, 1995.
- Dames & Moore, 1996. Draft Report Geotechnical Support: River and Stream Crossing Site Investigation for the Proposed Cross Cascade Pipeline.
- Dames & Moore, 1997, Bridge Assessments.
- Dames & Moore, April 29, 1998, Geotechnical Investigation to Assess Horizontal Directional Drilling at the Columbia River Crossing
- Dames & Moore, April 29, 1998, Geotechnical Investigation, Kittitas Terminal Project
- Dames & Moore, 1977a. Report of Soils Investigation, Proposed Buildings, Mount Si High School, Snoqualmie, Washington, for the Snoqualmie Valley School District No. 410. Job Number 8557-007-005. February 24, 1977.
- Dames & Moore, 1977b. Engineering Services During Site Preparation and Earthwork, Proposed Buildings, Mount Si High School, Snoqualmie, Washington, for the Snoqualmie Valley School District No. 410. Job No. 8857-008-005. June 22, 1977.
- Dames & Moore, 1976. Consultation RE: Landslide, Kittitas County, Washington, for Pacific Northwest Bell. September 21, 1976.
- Dames & Moore, 1974. Report of Site Inspection, Proposed Lodge at Lake Kachess, Kittitas County, Washington. Job Number 7907-001-05. June 24, 1974.
- Dames & Moore, 1972. Report of Engineering Services During Earthwork and Grading, Snoqualmie Middle School, Snoqualmie Middle School for the Snoqualmie Valley School District. Job Number 8557-006-05. May 4, 1972.
- Dames & Moore, 1954. Report of Soils Investigation, Proposed Swinomish Slough Pipe Line Crossing, Skagit County, Washington, for the Trans Mountain Oil Pipe Line Company. Job Number 1950-

A. December 21, 1954.

Dames & Moore, 1956. Report of Seismic Survey Priest Rapids Project Proposed Wanapum Dam Site, Vantage, Washington, Public Utility District #2 of Grant County for Harza Engineering Company. Job Number 1952-B. November 9, 1956.

Dames & Moore, 1967. Report of Soils Investigation, Proposed Mill Building Near Woodinville, Washington, for Van Tone Millwork, Inc. Job Number 7056-001-05. October 25, 1967.

Dames & Moore, 1960. Report of Consultation and Inspection, Ten-Acre Site, State Highway 1A North of Woodinville, Washington, for Mr. Ralph Gilbert. Job Number 4317-A. December 9, 1960.

Dames & Moore, 1956. Report of Seismic Survey, Priest Rapids Project, Proposed Wanapum Dam Site, Vantage, Washington; Report Prepared for Harza Engineering Co.

Dariento, M.E., and C.D. Peterson, 1987. Episodic tectonic subsidence recorded in late Holocene salt marshes, northwest Oregon [abs.]; EOS, v.68, no. 44, p.1469.

Dariento, M.E., and C.D. Peterson, 1990. Episodic tectonic subsidence recorded in late Holocene salt marshes, northern Oregon central Cascadia margin; Tectonics, v.9, pp. 1-22.

Dion, N.P., and S.S. Embrey, 1981. Effects of Mount St. Helens Eruption on Selected Lakes in Washington; U.S. Geological Survey Circular 850-G, 25pp.

Earthquake Engineering Research Institute (EERI), 1993. The March 25, 1993, Scotts Mills Earthquake - Western Oregon's Wakeup Call; EERI Special Earthquake Report - May.

Easterbrook, D.J. 1986. Stratigraphy and Chronology of Quaternary Deposits of the Puget Lowland and Olympic Mountains of Washington and the Cascade Mountains of Washington and Oregon. Quaternary Science Review 5:145-159.

Folsom, M.M., and R.R. Quinn, 1980. Ash from the May 18th Eruption of Mount St. Helens; Washington State Department of Natural Resources, Open File Report 80-12.

Frankel, A. et al., National seismic hazard maps, USGS Open File report 96-532, June 1996.

Franklin County, 1995. Franklin County Comprehensive Plan.

Geomatrix Consultants, 1990. Seismotectonic Evaluation, Walla Walla Section of the Columbia Plateau Geomorphic Province; Report for the U.S. Department of the Interior, Bureau of Reclamation,

129p.

- Geomatrix Consultants, 1993. Probabalistic Seismic Hazard Analysis DOE Hanford Site, Washington; Westinghouse Hanford Company Report WHC-SD-W236A-TI-002, Hanford, Washington.
- Geomatrix Consultants, 1989. Seismotectonic Evaluation, North Cascades Geomorphic Province; Report for the U.S. Department of the Interior, Bureau of Reclamation
- Grant, W.C., and D.D. McLaren, 1987. Evidence for Holocene subduction earthquakes along the northern Oregon coast [abs.]; EOS, v.68, no.44, p.1239.
- Harris, S.L., 1980. Fire and Ice: The Cascade Volcanoes. The Mountaineer and Pacific Search Press, Seattle, Washington.
- Heaton, T.H., and S.H. Hartzell, 1986. Earthquake potential associated with the Cascadia Subduction Zone, In Hays, W.W., and Gori, P.L. (eds), Proceedings of Conference XXXIII, "Earthquake Hazards in the Puget Sound, Washington Area", U.S. Geological Survey Open File Report 86-253, pp.52-57.
- Ishihara, K., "Stability of Natural Deposits During Earthquakes," in Proceedings, *11<sup>th</sup> International Conference on Soil Mechanics and Foundation Engineering*, Vol 1., pp. 321-376, 1985.
- King County, Washington, 1990. Sensitive Areas Map Folio, King County, Washington.
- Kobayashi, K., 1983. Forearc Mechanisms, Physics and Tectonics, Proceedings of the 1981 IAVECEI Symposium, Tokyo; Terra Scientific Publications, Tokyo.
- Lombard, R.E., M.B. Miles, L.M. Nelson, D.L. Kresch, and P.J. Carpenter, 1981. Channel Conditions in the Lower Toutle and Cowlitz Rivers Resulting from the mud flows of May 18, 1980; U.S. Geological Survey Circular 850-C, 16pp.
- McKee, B., 1972. Cascadia, McGraw-Hill, New York, NY, 392 p.
- Noson, L.L., A. Qamar, and G.W. Thorsen, 1988. Washington State Earthquake Hazards; Washington Division of Geology and Earth Resources, Information Circular 85, 28p.
- Raisz, E., 1945. The Olympic-Wallowa lineament; *American Journal of Science*, V. 243-A, p.479-485.
- Robertson, P.K. and R.G. Campanella, *Guidelines for Geotechnical Design Using the CPT and CPTU*, Soil Mechanics Series No. 120, Department of Civil Engineering, The University of British

Columbia, Vancouver, B.C., November 1989.

Rockwell International, October 1979. Geologic Studies of the Columbia Plateau, a Status Report, RHO-BWI-ST-4.

Rogers, G.C., 1988. An assessment of the megathrust earthquake potential of the Cascadia Subduction Zone; *Can.J.Earth Sci.*, v.25, pp.844-852.

Seed H. B. and I. M. Idriss, "Simplified Procedure for Evaluating Soil Liquefaction Potential," *Journal of Soil Mechanics and Foundations*, ASCE, 97, 9, 1971, pp. 1249-1274.

Tabor, R.W., R.B. Waitt Jr., V.A. Frizzell Jr., D.A. Swanson, G.R. Byerly, and R.D. Bentley, 1982. Geologic Map of the Wenatchee 1:100,000 Quadrangle, Central Washington; U.S. Geological Survey Map, I-1311.

Tokimatsu K. and H. B Seed, "Evaluation of Settlements in Sands Due to Earthquake Shaking," *Journal of Geotechnical Engineering*, Vol 113, No 8, August 1987, pp. 861-878.

Triathlon Mapping Corporation, 1995. Black and white aerial photographs of the proposed pipeline alignment. Scale approximately 1:18,000. June 27, 1995.

United States Department of Agriculture, Soil Conservation Service, 1984. Soil Survey of Grant County, Washington.

United States Department of Agriculture, Soil Conservation Service, 1973. Soil Survey, King County Area, Washington.

United States Department of Agriculture, Soil Conservation Service, 1967. Soil Survey of Adams County, Washington.

United States Department of Agriculture, Soil Conservation Service, 1983. Soil Survey of Snohomish County Area, Washington.

United States Department of Agriculture, Soil Conservation Service, 1992. Soil Survey of Snoqualmie Pass Area and Part of King and Pierce Counties, Washington.

United States Department of Agriculture, Soil Conservation Service, No Date. Preliminary Report (unpublished). Soil Survey of Kittitas County, Washington.

United States Department of Agriculture, Soil Conservation Service, No Date. Preliminary Report

- (unpublished). Soil Survey of Franklin County, Washington.
- United States Geological Survey (USGS), 1966. Walla Walla Quadrangle Topographic Map, Washington-Oregon 7.5 minute Series, 1:24,000.
- USGS, 1958. 1971 photorevised Yakima Topographic Map, 1:250,000, NL10-6.
- USGS, 1971. Geologic Map and Sections of Parts of Grant, Adams, and Franklin Counties, Washington, 1:62,500, Map I-589.
- USGS, 1983. Distribution, Thickness, and Mass of Tephra from Volcanoes Pacific NW-US. Assessment of Hazards to Nuclear Reactors: MF-1435.
- USGS, 1995. Debris Flow, Debris Avalanche, and Flood Hazards at and Downstream from Mount Rainier, Washington, 1:100,000, AA-729.
- USGS, 1983. Distribution, Thickness, and Mass of Tephra from Volcanoes Pacific NW-IUS: Assessment of Hazards to Nuclear Reactors, MF-1435.
- USGS, 1972. Geology and Groundwater Characteristics of the Hanford Reservation of the USACE, 1:62,500, PP-717.
- Vance, J.A., 1982. Cenozoic Stratigraphy and Tectonics of the Washington Cascades [abs.], Geological Society of America, Abstracts with Programs, v. 14, no.4.
- Waitt, Richard B., Jr., 1979. Late Cenozoic Deposits, Landforms, Stratigraphy, and Tectonism in Kittitas Valley, Washington; U.S. Geological Survey Professional Paper 1127.
- Washington Department of Ecology, 1992, Stormwater Management Manual for the Puget Sound Basin.
- Washington Department of Natural Resources, Division of Mines & Geology, 1961. Geologic Map of Washington, 1:500,000.
- Washington Department of Natural Resources. 1979a. Surficial Geologic Map of the Wenatchee Quad, 1:250,000, 79-14.
- Washington Department of Natural Resources, 1979b. Reconnaissance Surficial Geologic Mapping of the Late Cenozoic Sediments of the Columbia Basin, Washington, 1:12,000. Division of Geologic and Earth Resources. Washington Department of Natural Resources.

Washington Department of Natural Resources. 1979c. Surficial Geologic Map of the Yakima Quadrangle; 1:250,000, 79-15.

Washington Department of Natural Resources, 1979d. Surficial Geologic Map of the Walla Walla Quadrangle; 1:250,000, 79-13.

Washington Department of Natural Resources, 1983. Geologic Map of the Ellensburg Quadrangle, 1:62,500, GM-28.

Washington Department of Natural Resources, No Date. Structural Geology along the Northwestern Columbia River Basalt Margin, No scale given, 88-5.

Washington Public Power Supply System (WPPSS), 1988. WNP-3 Final Safety Analysis Report, Amendment 7, Section 2.0, Site Characteristics.

West Consultants, Inc., 1997, Screening Level Pipeline Scour Evaluation.

Westinghouse Hanford Company, 1993. Probabilistic Seismic Hazard Analysis Department of Ecology Site, Washington, WHC-5D-W236A-TI-002.

Yount, J.C., Minard, J.P., and Dembroff, G.R., 1993, Geologic Map of Surficial Deposits in the Seattle 30' x 60' Quadrangle, Washington: U.S. Geological Survey Open File Report 93-233.

### **1.5.2 AIR**

California Air Resources Board, 1991. Identification of Volatile Organic Compound Species Profiles, ARB Speciation Manual, Second Edition. State of California Air Resources Board.

National Climatic Data Center, 1994. Climatological Data Annual Summary, Washington, 1994, Volume 98 Number 13. U.S. Department of Commerce, ISSN 0364-5320.

National Climatic Data Center, 1994. Climatological Data Annual Summary With Comparative Data, Yakima, Washington, 1994. U.S. Department of Commerce, ISSN 0198-554X.

USEPA, 1972. Mixing Heights, Wind Speeds, and Potential for Urban Air Pollution Throughout the Contiguous United States. Office of Air Programs, Division of Meteorology, U.S. Environmental Protection Agency, PB 207-103.

USEPA, 1993. User's Guide to TANKS, Storage Tank Emissions Calculation Software Version 2.0. Emissions Inventory Branch, Office of Air Quality Planning and Standards, U.S. Environmental

Protection Agency.

USEPA, 1993a. Protocol For Equipment Leak Emission Estimates. Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency, EPA-453/R-93-026.

USEPA, 1995. Compilation of Air Pollutant Emission Factors, Volumes I: Stationary Point and Area Sources, and Volume II: Mobile Sources. Office of Air Quality Planning and Standards, Office of Air and Radiation, U.S. Environmental Protection Agency, AP-42, Fifth Edition.

USEPA, 1995a. SCREEN3 Model User's Guide. Office of Air Quality Planning and Standards, Emissions, Monitoring, and Analysis Division, U.S. Environmental Protection Agency, EPA-454/B-95-004.

### **1.5.3 WATER**

Agnew, Allen F. and Russell W. Busch, 1971. Interstate Ground-Water Aquifers of the State of Washington. State of Washington Water Research Center, Pullman, Washington.

Donaldson, Wallace R., 1979. Washington Climate for Grant, Kittitas, Klickitat, and Yakima Counties, Washington. Cooperative Extension Service, Pullman, Washington.

Ecology, 1994. FOCUS Water Quality Limited List. (Section 303(d) of the Federal Clean Water Act). Publication # F-WQ-94-37, Department of Ecology Olympia, Washington.

Ecology, 1995. Watershed Assessment Water Rights and Claims Database, October 20, 1995; from Brad Petrovich, Department of Ecology Hydrogeologist, Bellevue, Washington.

Ecology, 1995a. Primary Water Rights Report for WRIA 33, 36, 41 as found in the Water Right Information System (WRIS); from Linda M. Kiefer, Water Resources, Department of Ecology, Spokane, Washington, August 17, 1995.

Ecology, 1995a. Primary Water Rights Report for WRIA 39 and 40 as found in the Water Right Information System (WRIS); from Carol Mortensen, Water Resources, Department of Ecology, Yakima, Washington, August 11, 1995.

Ecology, 1995a. Primary Water Rights Report for WRIA 7 and 8 as found in the Water Right Information System (WRIS); from Brad Petrovich, Water Resources, Department of Ecology, Bellevue, Washington, October 20, 1995.

- Ecology, 1995a. Initial Watershed Assessment Water Resources Inventory for the Snohomish River Watershed and the Cedar-Sammamish Watershed.
- Ecology, 1998. Impaired and Threatened Surface Waters Requiring Additional Pollution Controls. Proposed 1998 Section 303(d) List. Publication No. 97-14. Department of Ecology. Olympia, WA.
- Ecology, 1992. Stormwater Management Manual for the Puget Sound Basin.
- Fuentes, Rene and Wendy Marshall, 1987. Support Document for the EPA Designation of the Cross Valley Aquifer as a Sole Source Aquifer. Compiled for USEPA Region 10, September 1984. Revised April 1987.
- LaFrance, D.E., 1975. Low-Flow Characteristics of Selected Streams in Northeastern Washington, U.S. Geological Survey Open-File Report.
- Lizak, Jerry, 1993. Unpublished memo re: Hydrological Review of Cross Valley Aquifer. April 2, 1993.
- Martin, Lawrence J., 1981. Ground Water in Washington. Report No. 40, Washington State University/University of Washington.
- National Oceanic and Atmospheric Administration (NOAA), 1995. Climatological Data: Annual climatic summaries and rainfall statistics.
- Newcomb, 1952. Ground-Water Resources of Snohomish County. Washington. Geological Survey. Water Supply Paper 1135. U.S. Government Printing Office, WA.
- Northwest Power Planning Council, 1986. Compilation of Information on Salmon and Steelhead Losses in the Columbia River Basin. Appendix D of the 1987 Columbia River Basin Fish and Wildlife Program. NWPPC. Portland, Ore.
- Pacific Northwest River Basin Commission (PNRBC), 1970. Water Resources, Appendix V, in Columbia North-Pacific Region Comprehensive Framework Study, Vancouver, Washington, April 1970. Revised Code of Washington (RCW) Chapter 90.03 Surface Water Code.
- Robinson & Noble, 1989. Concepts on Aquifer Protection for Cross Valley Water

Association Groundwater System. Unpublished Report. J.B. Noble.

U.S. Department of Agriculture. Soil Conservation Service (USDA SCS), 1978. Soil Survey of Snohomish County Area, Washington.

U.S. Geological Survey (USGS), 1994. Water Resources Data for Washington, Water Year 1992. USGS Water-Data Report WA-92-1. Prepared in cooperation with the State of Washington and other agencies.

USGS, 1980. Ground-Water Hydrology of the Sagebrush Flat Area and Possible Relations to the Discharge of Rattlesnake Springs, Grant and Douglas Counties, Washington. USGS Open File Report 79-1530.

USGS, 1975. Magnitude and Frequency of Floods in Washington. J.E. Cummins, M.R. Collings, E.G. Nassar. Open-File Report 74-336.

USGS, 1963. Geology and Ground-Water resources of Northwestern King County, Washington. USGS Water Supply Bulletin No. 20.

USGS, 1952. Geology and Ground-Water resources of Snohomish County, Washington. USGS Water Supply Paper 1135.

Washington State Department of Fish and Wildlife, 1994. Update: Washington Rivers Information System Resident and Anadromous Fish Data.

Washington State Department of Fish and Wildlife, 1995. Update: Washington Rivers Information System Resident and Anadromous Fish Data.

Washington Department of Natural Resources (WDNR), 1982. Handbook for Forest Roads Maintenance and Spoils Management.

Washington Department of Water Resources, 1974. Ground-Water Survey of Odess-Ling Area, Washington. Water-Supply Bulletin No. 36.

#### **1.5.4 UPLAND AND WETLAND VEGETATION/WILDLIFE**

Azous, A., 1991. An Analysis of Urbanization Effects on Wetland Biological Communities. M.S. Thesis. College of Forest Resources, UW, Seattle, Washington.

- Cowardin, L., V. Carter, F. Golet, and E. LaRow, 1979. Classification of Wetlands and Deepwater Habitats of the United States. Office of Biological Services, Fish and Wildlife Service, U.S. Department of the Interior, Washington, D.C.
- Dames & Moore, 1997. Salamander Surveys Conducted Along the Proposed Cross Cascade Pipeline Route.
- Dames & Moore, 1997. Vegetation Report.
- Dames & Moore, in progress. Cross Cascade Pipeline Wetland Mitigation Plan.
- Franklin, J.F. and Dyrness, C.T., 1988. Natural vegetation of Oregon and Washington. Oregon State University Press.
- Hitchcock, C. and Cronquist, A., 1973. Flora of the Pacific Northwest.
- King County, 1990. Wetlands Inventory.
- Larsen, E.M., E. Rodrick, and Milner, R. eds., 1995. Management Recommendations for Washington's Priority Species. Volume I: Invertebrates. Washington Department of Fish and Wildlife. Olympia, WA.
- Leonard, W. P., H. A. Brown, L. L. C. Jones, K. R. McAllister, and R. M. Storm, 1993. Amphibians of Washington and Oregon. Seattle Audubon Society. Seattle, Washington. 168pp.
- Reed, P.B., 1988. National List of Plant Species that Occur in Wetlands: Northwest (Region 9). Biological Report 88 (26.9). St. Petersburg, Florida.
- Smith, M.R., P.W. Mattocks, Jr., and K.M Cassidy, 1997. Breeding Birds of Washington State. Volume 4 in Washington State Gap Analysis - Final Report (K.M. Cassidy, C.E. Grue, M.R. Smith, and K.M. Dvornich, eds.). Seattle Audubon Society Publications in Zoology No. 1, Seattle, 538 pp.
- Snohomish County, 1990. Stream and Wetland Survey Map Atlas.
- Snoqualmie Pass Adaptive Management Area Plan (SPAMAP), 1995. Draft environmental impact statement, snoqualmie pass adaptive management area plan, Wenatchee and Mt. Baker-Snoqualmie National Forests, U. S. Fish and Wildlife Service. United

States Department of Agriculture, Forest Service, Pacific Northwest Region. United States Department of Interior, Fish and Wildlife Service, Western Washington Region.

South Fork Snoqualmie Watershed Analysis (SFSWA), 1995. United States Department of Agriculture, Forest Service, Mt. Baker-Snoqualmie National Forest.

Taylor, B.L., 1993. The Influence of Wetland and Watershed Morphological Characteristics on Wetland Hydrology and Relationships to Wetland Vegetation Communities.

Department of the Army, U.S. Army Corps of Engineers, 1987. Corps of Engineers Wetlands Delineation Manual.

U.S. Department of Agriculture (USDA), Soil Conservation Service, 1973. Soil Survey of King County Area, Washington.

USDA Soil Conservation Service, 1983. Soil Survey of Snohomish County Area, Washington.

USDA Soil Conservation Service, 1984. Soils Survey of Grant County, Washington.

USDA Soil Conservation Service, 1991. Hydric Soils of the United States.

U.S. Department of the Interior, U.S. Fish and Wildlife Service. National Wetland Inventory Maps.

U.S. Department of the Interior, Fish and Wildlife Service, 1995. Endangered Species Media Queries.

USDA and USDI (United States Department of Agriculture and United States Department of Interior, Bureau of Land Management), 1994. Record of decision for amendments for Forest Service and Bureau of Land Management planning documents within the range of the northern spotted owl. [Place of publication unknown]. 74pp. [Plus Attachment A: standards and guidelines; irregular pagination].

Washington Dept. of Ecology (WDOE), 1991. Washington State Wetlands Rating System for Eastern Washington.

Washington Dept. of Ecology (WDOE), 1993. Washington State Wetlands Rating System

for Western Washington.

Washington Department of Fish and Wildlife (WDFW), 1996. Priority Habitats and Species List: Habitat Program. Washington Department of Fish and Wildlife. Olympia, Washington. 28pp.

Washington Department of Fish and Wildlife (WDFW), 1997. Priority habitats and species: digital data and tabular data reports. Washington Department of Fish and Wildlife and Wildlife Heritage (HRTG) Databases. Olympia, Washington.

Whitaker, J. O., 1980. The Audubon Society field guide to North American mammals. Alfred A. Knopf. New York.

### **1.5.5 FISHERIES AND AQUATIC RESOURCES**

Behnke, R.J., 1979. "Monograph of the Native Trouts of the Genus *Salmo* of Western North America," U.S. Department of Agriculture, Forest Service and Bureau of Land Management. Unpublished report. Lakewood, CO.

Brannon, E.L., L.L. Moulton, L.G. Gilberton, A.W. Maki, and J.R. Skalski, 1995. An Assessment of Oil Spill Effects on Pink Salmon Populations Following the Exxon Valdez Oil Spill--Part 1: Early Life History. Symposium on Environmental Toxicology and Risk Assessment--Exxon Valdez Oil Spill. Atlanta, GA.

Campton, D.E., 1985. Electrophoretic evidence for a genetic admixture of native and nonnative rainbow trout in the Yakima River, Washington. Transactions of the American Fisheries Society. 114:782-793.

Cederholm, C.J., L.M. Reid, and E.O. Salo, 1981. Cumulative effects of logging road sediment on salmonid populations in the Clearwater River, Jefferson County, Washington. In *Proceedings from the conference Salmon-Spawning Gravel: A Renewable Resource in the Pacific Northwest?* P. 38-74. Rep. 39. State of Washington Water Research Center, Pullman.

Dames & Moore, 1997. Technical Report, Fisheries and Aquatic Resources, Cross Cascade Pipeline Project.

Dietrich, W.E. and J.D. Smith, 1984. Bed Load Transport in a River Meander. Water Resour. Res. 20:1355-1380.

Everest, F.H., R.L. Beschta, J.C. Scrivener, K.V. Koski, J.R. Sedell, and C.J. Cederholm, 1987. Fine Sediment and Salmonid Production: A Paradox. In *Streamside Management: Forestry and Fishery Interactions*. Edited by Salo, E.O. and Cundy, T.W. College of Forest Resources, University of Washington. Seattle, WA.

ICBEMP (Interior Columbia Basin Ecosystem Management Project), 1997. Eastside Draft Environmental Impact Statement. Volume I. United States Department of Agriculture (Forest Service) and United States Department of the Interior (Bureau of Land Management). Walla Walla, WA.

Maki, A.W., E.J. Brannon, L.G. Gibertson, L.L. Moulton, J.R. Skalski, 1995. An Assessment of Oil-Spill Effects on Pink Salmon Populations Following the Exxon Valdez Oil Spill--Part 2: Adults and Escapement. Symposium on Environmental Toxicology and Risk Assessment--Exxon Valdez Oil Spill. Atlanta, GA.

Mongillo, P., 1997. WDFW (Washington Department of Fish and Wildlife). Personal communication. Olympia, WA.

Nelson, K., 1997. Tulalip Tribes Fish Biologist. Personal communication. Marysville, WA.

Noggle, C.C., 1978. Behavioral, physiological and lethal effects of suspended sediment on juvenile salmonids. M.S. thesis, University of Washington, Seattle.

Pacific States Marine Fisheries Association, 1995. Databases for project streams. Portland, OR.

Pearsons, T.N., G.A. McMichael, E.L. Bartrand, M. Fisher, J.T. Monahan, and S.A. Leider. 1993. Yakima Species Interactions Study, Annual Report. U. S. Department of Energy, Bonneville Power Administration, Portland, Oregon. August 1993.

Puget Sound Power & Light Company, 1991. Snoqualmie Falls Hydroelectric Project, FERC No. 2493, Application for New License. November 1991.

Puget Sound Power & Light Company, 1994. Snoqualmie Falls Hydroelectric Project, FERC No. 2493, Draft Environmental Impact Statement. November 1994.

Reid, L.M., and T. Dunn, 1984. Sediment production from forest road surfaces. *Water Resour. Res.* 20:1763-1761.

- Rosgen, D., 1993. A classification of natural rivers. *Catena* 22: 169-199.
- Scott, W.B. and E.J. Crossman, 1973. Freshwater fishes of Canada. Bulletin 184. Fisheries Research Board of Canada, Ottawa.
- Smith, R.H., 1991. "Rainbow trout." In *Trout*, edited by J. Stolz and J. Schnell, 304-323. Stackpole Books. Harrisburg, PA.
- Tera Environmental Consultants and Beak Consultants, 1993. Watercourse Crossing Guidelines for the Pipeline Industry. Prepared for Canadian Association of Petroleum Producers, Calgary, Alberta. 70 pp.
- Tebo, L.B., 1954. Effects of Siltation, Resulting from Improper Logging, on the Bottom Fauna of a Small Trout Stream in the Southern Appalachians. Presented at the Eighth Annual Conference of the Southeastern Association of Game and Fish Commissioners, New Orleans, Louisiana, November 1-3, 1954.
- Tuck, B., 1994. Historical and current runs of anadromous salmonids in the Yakima River basin, Washington. *Northwest Science*. 68:155.
- U.S. Army Corps of Engineers, 1997. Comments on Reports Recently Submitted on the Olympic Pipeline.
- U.S. Fish and Wildlife Service, 1997. Olympic Cross-Cascade Pipeline Project, EIS Consultant's Review of Applicant's Additional Information.
- U.S. Forest Service, 1997. Forest Service Comments to Vegetation, Fisheries & BE Reports as of 5/9/97.
- WDF, 1985. Fishery Management Report 85-2. Proposed Management of the Snoqualmie River Above Snoqualmie Falls. Bob Pfeiffer, Area Fisheries Biologist.
- WDF (Washington Department of Fisheries, Puget Sound Treaty Indian Tribes, and Northwest Indian Fisheries Commission), 1992a. Puget Sound spring chinook salmon forecasts and management recommendations. July 1992.
- WDF, 1992b. 1992 Puget Sound chum salmon forecasts and management recommendations. December 1992.

WDF et al. (Washington Department of Fisheries, Washington Department of Wildlife, and Western Washington Treaty Indian Tribes), 1993. 1992 Washington State salmon and steelhead stock inventory. Olympia, Washington. March 1993.

WDFW (Washington Department of Fish and Wildlife, Fisheries Management Division), 1993. Bull Trout/Dolly Varden Management and Recovery Plan. Olympia, WA.

WDFW (Washington Department of Fish and Wildlife), 1995a. Washington Rivers Information System (WARIS). Olympia, Washington.

WDFW, 1996. Priority Habitats and Species List. Washington Department of Fish and Wildlife. Olympia, Washington.

Williams, R.W., R.M. Laramie, and J.J. Ames, 1975. A catalog of Washington streams and salmon utilization. Washington Department of Fisheries, Olympia, Washington.

Wishard, L.N., J.E. Seeb, F.M. Utter, and D. Stefan, 1984. A genetic investigation of suspected redband trout populations. *Copeia*. 1984:120-132.

Wissmar, R.C., and S. Craig, 1997. Bull Trout Spawning Activity, Gold Creek, Washington. Fisheries Research Institute, University of Washington, School of Fisheries. Seattle, WA.

Withler, I.L, 1966. Variability in life history characteristics of steelhead (*Salmo gairdneri*) along the Pacific Coast of North America. *Journal of the Fisheries Research Board of Canada*. 23:365-293.

Wolf, K., 1997. WDFW (Washington Department of Fish and Wildlife). Personal communication. Yakima, WA.

Wydoski, R.S. and R.R. Whitney, 1979. Inland Fishes of Washington. University of Washington Press. Seattle, Washington.

### **1.5.6 NOISE**

United States Department of Transportation (USDOT), 1978. Federal Highway Traffic Noise Prediction Model and Barrier Design. FHWA-RD-77-10F. May, 1978.

USDOT, 1981. Sound Procedures for Measuring Highway Noise: Final Report. FHWA-DP-45-1R. August, 1981.

USDOT, 1982. Federal Aid Highway Program Manual: Procedures for Abatement of Highway Traffic Noise and Construction Noise. FHPM 7-7-3.

USDOT, 1989. Highway Traffic Noise, Etc. (sic). FHWA, HEV-30.

### **1.5.7 LAND USE**

Adams County, 1993. Adams County Zoning Ordinance.

Adams County, (no date). Adams County Shorelines Management Master Program.

Aho, T., 1995. U.S. Department of Agriculture, Natural Resource Conservation Service, Spokane, Washington, personal communication, October.

Amara, M., 1995. U.S. Department of Agriculture, Natural Resource Conservation Service, Othello, Washington, personal communication, October.

Anderson, D., 1995. Adams County Planning Department, Ritzville, Washington, personal communication, July.

Angel, L., 1995. Grant County Planning Department, Ephrata, Washington, personal communication, July.

Batista, R., 1995. King County Department of Development and Environmental Services, Bellevue, Washington, personal communication, September.

Brady, M., 1995. U.S. Department of Agriculture, Natural Resource Conservation Service, Everett, Washington, personal communication, October.

Brincken, E., 1995. U.S. Department of Agriculture, Natural Resource Conservation Service, Pasco, Washington, personal communication, October.

Caputo, D., 1995. Adams County Planning Department, Ritzville, Washington, personal communication, September.

- Carey, M., 1995. King County Department of Development and Environmental Services, Bellevue, Washington, personal communication, September.
- Chain, D., 1995. U.S. Department of Agriculture, Natural Resource Conservation Service, Ellensburg, Washington, personal communication, October.
- Cocharan, R., 1995. U.S. Department of the Interior, Bureau of Reclamation, Yakima, Washington, personal communication, July.
- Cröse, H., 1995. U.S. Department of Agriculture, Natural Resource Conservation Service, Ephrata, Washington, personal communication, October.
- DeLorme Mapping Company, 1992. Washington Atlas & Gazetteer, Freeport, Maine.
- Franklin County, 1995. Franklin County Comprehensive Plan.
- Franklin County, 1983. Franklin County Shoreline Management Master Program.
- Franklin County, 1980. Franklin County Zoning Ordinance #18-80.
- Friesz, R., 1995. Washington State Department of Fish and Wildlife, Crab Creek Wildlife Area, Ephrata, Washington, personal communication, September.
- German, D., 1995. Franklin County Planning Department, Pasco, Washington, personal communication, July.
- Goeke, D., 1995. U.S. Department of the Interior, Fish and Wildlife Service, Othello, Washington, personal communication, July.
- Grant County, 1988. Grant County Zoning Ordinance.
- Grant County, 1975. Shorelines Master Program for Grant County.
- Gray, W., 1995. U.S. Department of the Interior, Bureau of Reclamation, Yakima, Washington, personal communication, September.
- Henry, J., 1995. U.S. Department of Agriculture, Natural Resource Conservation Service, Renton, Washington, personal communication, October.

Higgs, J., 1995. U.S. Department of the Interior, Bureau of Reclamation, Lakewood, Colorado, personal communication, October.

King County, 1995. King County Zoning Code, Title 21A.

King County, 1994. King County Comprehensive Plan.

King County, 1987. King County Shoreline Management Master Program.

Kip, G., 1995. King County Department of Development and Environmental Services, Bellevue, Washington, personal communication, September.

Kittitas, City of, 1994. City of Kittitas Zoning Code.

Kittitas County, 1994. Kittitas County Zoning Code, Title 17.

Kittitas County, 1993. Kittitas County Comprehensive Plan.

Kittitas County, 1975. Shoreline Master Program for Kittitas County.

Meuller, R., 1995. Snohomish County Planning Department, Everett, Washington, personal communication, July.

Nieman, T., 1995. Snohomish County Planning Department, Everett, Washington, personal communication, September.

North Bend, City of, 1995. North Bend Comprehensive Plan.

North Bend, City of, 1993. North Bend Comprehensive Zoning Title 18.

North Bend, City of, 1990. North Bend Shoreline Master Program.

Pasco, City of, 1995. City of Pasco Comprehensive Plan.

Pasco, City of, 1994. City of Pasco Zoning Ordinance.

Public Sector Information, Inc., 1995. 1995 Washington State Yearbook, Eugene, Oregon.

Rhodes, S., 1995. Kittitas Planning Department, Kittitas, Washington, personal

communication, July.

Schurger, B., 1995. U.S. Department of the Interior, Bureau of Land Management, Wenatchee, Washington, personal communication, August.

Sell, R., 1995. Grant County Planning Department, Ephrata, Washington, personal communication, July.

Smith, M., 1995. North Bend Planning Department, North Bend, Washington, personal communication, September.

Snohomish County, 1995. Snohomish County General Policy Plan.

Snohomish County, 1995. Snohomish County Zoning Code, Title 18.

Snohomish County, 1994. Snohomish County Shoreline Management Master Program.

Snoqualmie, City of, 1995. Snoqualmie Zoning Code.

Snoqualmie, City of, 1994. Snoqualmie Vicinity Comprehensive Plan.

Snoqualmie, City of, 1984. Snoqualmie Shoreline Management Master Program.

Spessard, J., 1995. U.S. Department of the Interior, Bureau of Land Management, Spokane, Washington, personal communication, August.

Taylor, D., 1995. Kittitas County Planning Department, Ellensburg, Washington, personal communication, September.

Trautman, H., 1995. Kittitas County Planning Department, Ellensburg, Washington, personal communication, September.

U.S. Department of Agriculture, Forest Service, 1990. Mount Baker-Snoqualmie National Forest, Land and Resource Management Plan.

U.S. Department of Agriculture, Forest Service, 1980. Wenatchee National Forest, Forest Plan.

U.S. Department of Agriculture, Soil Conservation Service, 1992. Soil Survey of Snoqualmie

Pass Area, Parts of King and Pierce Counties, Washington.

U.S. Department of Agriculture, Soil Conservation Service, 1983. Soil Survey of Snohomish County Area, Washington.

U.S. Department of Agriculture, Soil Conservation Service, 1984. Soils Survey of Grant County, Washington.

U.S. Department of the Interior, Bureau of Land Management, 1994. BLM Manual.

U.S. Department of the Interior, Fish and Wildlife Service, 1982. Columbia National Wildlife Refuge, Refuge Manual.

Vandergriff, H., 1995. King County Department of Development and Environmental Services, Bellevue, Washington, personal communication, November.

Whitcutt, S., 1995. Snohomish County Planning Department, Everett, Washington, personal communication, October.

Wong, P., 1995. U.S. Department of Agriculture, Forest Service, North Bend, Washington, personal communication, July.

### **1.5.8 AESTHETICS**

David Evans & Associates, Inc., October 1995. Topographic Survey for the Cross-Cascades Pipeline, Woodinville to Pasco (Scale: 1' = 1000').

United States Forest Service, 1977. National Forest Landscape Management Vol. 2. Chapter 1: The Visual Management System. U.S. Department of Agriculture. Agricultural Handbook Number 462 (out-of-print).

United States Forest Service, Mt. Baker-Snoqualmie Forest, 1990. Mt. Baker-Snoqualmie Forest Management Plan. Visual Quality Objectives Mapping.

United States Forest Service, Wenatchee National Forest, 1990. Wenatchee Forest Management Plan. Visual Quality Objectives Mapping.

### **1.5.9 CULTURAL RESOURCES**

- Abbott, D.N., 1971. The Utility of the Concept of Phase in the Archaeology of the Southern Northwest Coast. *Syesis* 5:267-278.
- Alt, David D., and Donald W. Hyndman, 1984. *Roadside Geology of Washington*. Mountain Press Publishing Co., Missoula, Montana.
- Baenen, James, 1981. Stillaguamish, Snohomish, Snoqualmie, and Duwamish. In *Inventory of American Indian Religious Use, Practices, Localities, and Resources*. Institute of Cooperative Research, Inc., Seattle, Washington.
- Bagley, Clarence B., 1929. *History of King County*. S.J. Clarke Publishing, Seattle, Washington.
- Bathey, David, 1995. Local North Bend resident. Personal conversation with John Warner, HRA, concerning old mill town site, Snoqualmie Falls, September 15th.
- Beckham, Stephen D., Rick Minor, Kathryn A. Toepel, and Jo Reese, 1988. *Prehistory and History of the Columbia River Gorge National Scenic Area, Oregon and Washington*. Heritage Research Associates, Inc., Eugene, Oregon.
- Beikman, Helen M., Howard D. Gower, and Toni A. M. Dana, 1961. *Coal Reserves of Washington*. Washington State Division of Mines and Geology Bulletin No. 47. State Printing Office, Olympia, Washington.
- Benson, James R., Jerry V. Jermann, Dennis E. Lewarch, 1987. *Cultural Resources Inventory of the Proposed Yakima Firing Center Expansion Area, East-Central Washington*. Submitted to the U.S. Army Corps of Engineers, Seattle District, by URS Corporation, Sacramento, California.
- Blukis Onat, A.R., 1987. *Resource Protection Planning Process Identification of Prehistoric Archaeological Resources in the Northern Puget Sound Study Unit*. An RP3 document prepared for the Washington State Office of Archaeology and Historic Preservation by BOAS, Inc., Seattle, Washington.

- Blunt, D.J., D.J. Easterbrook, and N.W. Rutter, 1987. Chronology of Pleistocene sediments in the Puget Lowland, Washington. In, Selected Papers on the Geology of Washington, edited by J.E. Schuster, pp. 321-354. Washington Division of Geology and Earth Resources Bulletin 77, Washington State Department of Natural Resources, Olympia, Washington.
- Boyd, Robert T., 1985. The Introduction of Infectious Diseases among the Indians of the Pacific Northwest, 1774-1874. Unpublished, Ph.D. Dissertation, Department of Anthropology, University of Washington, Seattle, Washington.
- Bretz, J.H., 1925. The Spokane Flood Beyond the Channeled Scablands. *Journal of Geology* 33:97-115 and 236-259.
1928. Bars of the Channeled Scabland. *Bulletin of the Geological Society of America* 39:643-702.
1969. The Lake Missoula Floods and the Channeled Scabland. *Journal of Geology* 77:505-543.
- Brier, Howard M., 1958. *Sawdust Empire*. Alfred A. Knopf, New York.
- Burtchard, G.C., 1990. The Posy Archaeological Project: Upland Use of the Central Cascades;; Mt. Hood National Forest, Oregon. Report Prepared for the U.S.D.A. Forest Service, Mt. Hood National Forest. Laboratory of Archaeology and Anthropology, Dept. of Anthropology Portland State University, Portland, Oregon.
- Burtchard, G.C. and R.W. Keeler, 1991. Mt. Hood Cultural Resource Reevaluation Project: A Consideration of Prehistoric and Historic Land-Use and Cultural Resource Survey Design Reevaluation, Mt. Hood National forest, Oregon. Report prepared for U.S.D.A. Forest Service, Mt. Hood National Forest. Laboratory of Archaeology and Anthropology, Dept. of Anthropology Portland State University, Portland, Oregon.
- Campbell, S.K., 1981. The Duwamish No. 1 Site, A lower Puget Sound Shell Midden, Office of Public Archaeology, Institute of Environmental Studies, Research Report 1. University of Washington, Seattle, Washington.
1985. Summary of Results, Chief Joseph Dam Cultural Resources Project, Washington. Edited by S.K. Campbell. Office of Public Archaeology, Institute of Environmental Studies, University of Washington, Seattle, Washington.

1989. Post-Columbian Culture History in the Northern Columbia Plateau: A.D. 1500 -1900. Unpublished Ph.D. Dissertation, Department of Anthropology, University of Washington, Seattle, Washington.
- Chatters, J.C., 1986. A Deductive Approach. In, *Archaeological Predictive Modeling: The Yakima Firing Center (Part III)*, edited by W.C. Smith and J.C. Chatters. Prepared for U.S. Army, Fort Lewis, Washington, by Central Washington University, Central Washington Archaeological Survey, Geographical Information Systems Laboratory, Ellensburg, Washington.
- Chatters, J.C., editor, 1989. *Hanford Cultural Resources Management Plan*. Prepared for the U.S. Department of Energy under Contract DF-AC06-76RLO 1830 by Pacific Northwest Laboratory. Richland, Washington.
- Cressman, L.S., in collaboration with D.L. Cole, W.A. Davis, T.M. Newman, and D.J. Scheens, 1960. *Cultural Sequences at the Dalles, Oregon: A Contribution to Pacific Northwest Prehistory*. *Transactions of the American Philosophical Society* 50(10).
- Curtis, Edward S., 1913. *The North American Indian, Volume 9*. Cambridge University Press, Cambridge.
- Dalquest, Walter W., 1948. *Mammals of Washington*. University of Kansas Publications, Vol. 2, Museum of Natural History, Lawrence, Kansas.
- Daubenmire, R., 1970. *Steppe Vegetation of Washington*. Washington Agricultural Experimental Station Technical Bulletin 62.
- Daugherty, R.D., 1962. *The Intermontane Western Tradition*. *American Antiquity* 28:144-150.
- DePuydt, Raymond, 1990a. *A Cultural Resources Survey Along Puget Sound Power and Light's Proposed Upgrade of the Wanapum-Hyak Electrical Transmission Line*. Eastern Washington University Reports in Archaeology and History 100-73, Archaeological and Historical Services, Eastern Washington University, Cheney, Washington.

- 1990b. A Cultural Resources Survey Along Puget Sound Power and Light's Intermountain Transmission Line Between Hyak and Vantage. Eastern Washington University Reports in Archaeology and History 100-73, Archaeological and Historical Services, Eastern Washington University, Cheney, Washington.
- Easterbrook, D. J., 1976. Quaternary Geology of the Pacific Northwest. In Quaternary Stratigraphy of North America, edited by W. C. Mahaney, pp.441-462. Dowden, Hutchinson and Ross, Inc., Stroudsburg, Pennsylvania.
- Ellis, D.V., J.S. King, D. Putnam, and G. Thompson, 1991. Archeological Excavations at Cowlitz Falls Lewis County, Washington, Volume II. Report Prepared for Bechtel Corporation by Historical Research Associates, Inc., Seattle, Washington.
- Evans, Jack R., 1990. Little History of North Bend - Snoqualmie Washington. SCW Publications, Seattle, Washington.
- Franklin, Jerry F. and C. T. Dyrness, 1973. Natural Vegetation of Oregon and Washington. USDA Forest Service General Technical Report PNW-8, Portland, Oregon.
- Frenkel, Robert E., 1993. Vegetation. In Atlas of the Pacific Northwest, edited by Philip L. Jackson and A. Jon Kimerling, pp. 58-65. Oregon State University Press, Corvallis, Oregon.
- Fugro Northwest, Inc., 1980. An Archaeological and Historical Assessment of the South Fork Tolt River Hydroelectric Project. Submitted to Seattle City Light, Seattle, Washington, by Fugro Northwest, Inc., Seattle, Washington.
- Galm, J., G.D. Hartmann, R.A. Masten, and M.L. Stilson, 1985. Resource Protection Planning Process: Mid-Columbia Study Unit. An RP3 Document prepared for the Washington State Office of Archaeology and Historic Preservation. Olympia.
- General Land Office, 1866. Survey Plat of Township 9 North Range 30 East Willamette Meridian, by E. Richardson. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.
- 1868a. Survey Plat of Township 18 North Range 19 East Willamette Meridian, by L. Beach and E. Giddings. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1868b. Survey Plat of Township 17 North Range 19 East Willamette Meridian, by L. Beach and E. Richardson. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1868c. Survey Plat of Township 17 North Range 20 East Willamette Meridian, by L. Beach and E. Richardson. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1872. Survey Plat of Township 19 North Range 18 East Willamette Meridian, by Smith and Reeves. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1874. Survey Plat of Township 19 North Range 17 East Willamette Meridian, by R. Reeves. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1878. Survey Plat of Township 12 North Range 29 East Willamette Meridian, by E. Richardson. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1880. Survey Plat of Township 10 North Range 29 East Willamette Meridian, by L. Van Fleet. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1881. Survey Plat of Township 11 North Range 29 East Willamette Meridian, by E. Richardson. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1882. Survey Plat of Township 19 North Range 16 East Willamette Meridian, by O. Iverson. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1883a. Survey Plat of Township 15 North Range 27 East Willamette Meridian, by E. Richardson. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1883b. Survey Plat of Township 15 North Range 28 East Willamette Meridian, by E. Richardson. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1883c. Survey Plat of Township 14 North Range 28 East Willamette Meridian, by E. Richardson. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1883d. Survey Plat of Township 14 North Range 29 East Willamette Meridian, by E. Richardson. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1883e. Survey Plat of Township 13 North Range 29 East Willamette Meridian, by E. Richardson. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1885. Survey Plat of Township 26 North Range 7 East Willamette Meridian, by J.T. Berry. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1892. Survey Plat of Township 20 North Range 14 East Willamette Meridian, by M. Emerson. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1893a. Survey Plat of Township 23 North Range 8 East Willamette Meridian, by G. Schwartz. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1893b. Survey Plat of Township 23 North Range 9 East Willamette Meridian, by G. Schwartz. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1893c. Survey Plat of Township 22 North Range 9 East Willamette Meridian, by E. Lenfest. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1893d. Survey Plat of Township 22 North Range 10 East Willamette Meridian, by E. Lenfest. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1898. Survey Plat of Township 20 North Range 13 East Willamette Meridian, by R. Whitham and M. Emerson. On file at Microforms Division, University of

Washington Libraries, Seattle, Washington.

1899. Survey Plat of Township 24 North Range 8 East Willamette Meridian, by E. Richardson and G. Schwartz. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1901. Survey Plat of Township 19 North Range 14 East Willamette Meridian, by M. Emerson and O. Iverson. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1903. Survey Plat of Township 22 North Range 10 East Willamette Meridian, by D.S.B, J.D. Henry, and E. Lenfest. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1906. Survey Plat of Township 21 North Range 11 East Willamette Meridian, by R. Whitham and A. Ruth. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

1911. Survey Plat of Township 22 North Range 11 East Willamette Meridian, by H.H. Johnson, D.S.B, J.D. Henry, and R. Whitham. On file at Microforms Division, University of Washington Libraries, Seattle, Washington.

Gibbs, G., 1877. Tribes of West Washington and Northwest Oregon. Contributions to the North American Ethnology, No. 1.

Gleeson, Paul, 1983a. A Cultural Resources Survey of the Bonneville Power Administration's Proposed Transfer of the Wahluke Tap Transmission Line, Benton and Grant Counties, Washington. Archaeological and Historical Services Short Report No. SR-51, Eastern Washington University Reports in Archaeology and History, Cheney, Washington.

1983a. A Cultural Resources Survey of the Bonneville Power Administration's Proposed Transfer of the Wahluke Tap Transmission Line, Benton and Grant Counties, Washington, Phase II. Archaeological and Historical Services Short Report No. SR-57, Eastern Washington University Reports in Archaeology and History, Cheney, Washington.

Gough, Stan, 1989. A Cultural Resources Survey of the Hyak - Rattlesnake Tie Segment of the Intermountain Power Transmission Line. Short Report SR-190, Archaeological

and Historical Services, Eastern Washington University, Cheney, Washington.

Griffin, E., 1983. Archaeological Assessment of Ship Harbor Marina, Skagit County, Washington. Ms. on file, Washington State Office of Archaeology and Historic Preservation, Olympia.

Haeberlin, Herman and Erna Gunther, 1930. The Indians of Puget Sound. University of Washington Publications in Anthropology 4(1):1-83. Seattle.

Hall, E.R., 1981. The Mammals of North America. John Wiley and Sons, New York.

Harris, S.L., 1988. Fire Mountains of the West: The Cascade and Mono Lake Volcanoes. Mountain Press Publishing Company, Missoula.

Henderson, Eugene M., 1981. The Pine Tree Express. E. Henderson, Lacey, Washington.

Holley, G.A. and A. Ramenofsky, 1979. A Cultural Resource Survey of Selected Areas of the Mt. Baker-Snoqualmie National Forest. University of Washington, Institute for Environmental Studies, Office of Public Archaeology Report 30, Seattle.

Huelsbeck, David R., David H. Stratton, and Glenn W. Lindeman, 1977. An Archaeological-Historical Survey Near Eagle Lakes, Washington. Project Report No. 47. Washington Archaeological Research Center, Washington State University, Pullman, Washington.

Hunn, Eugene S., 1981. On the Relative Contribution of Men and Women to Subsistence among Hunter-Gatherers of the Columbia Plateau: A Comparison with Ethnographic Atlas Summaries. *Journal of Ethnobiology* 1:124-34.

1990. Nch'i-Wana "The Big River," Mid-Columbia Indians and Their Land. University of Washington Press, Seattle. 1990

Hutchinson, Charles J., 1916. History and Progress of King County, Washington. H.C. Pigott, Seattle, Washington.

Irwin, A.M., and U. Moody, 1978. The Lind Coulee Site (45GR97). Project Report No. 56. Washington Archaeological Research Center, Washington State University, Pullman.

Jackson, Philip L., 1993. Climate. In Atlas of the Pacific Northwest, edited by Philip L.

- Jackson and A. Jon Kimerling, pp. 48-57. Oregon State University Press, Corvallis, Oregon.
- Johansen, Dorothy O. and Charles M. Gates, 1967. Empire of the Columbia. Harper and Row, New York.
- Keller, S.A.C., 1982. Mount St. Helens: One Year Later. Eastern Washington University Press, Cheney.
- Kennedy, Hal and Lynn L. Larson, 1984. Historical and Archaeological Resources Overview for the City of Bellevue North Fork Snoqualmie River Municipal Water Supply Project and Field Reconnaissance of the Reservoir, Penstock, Pipeline, and Powerhouse Locations. Submitted to the City of Bellevue, Washington, by B.O.A.S., Seattle, Washington.
- Kidd, R.S., 1964. A Synthesis of Western Washington Prehistory from the Perspective of Three Occupation Sites. M.A. Thesis on File at the Department of Anthropology, University of Washington. Seattle.
- Landis, D.G. and Gordon A. Lothson, 1982. Phase II: Intensive Survey, Test Excavation, and Evaluation of Fallen Arches Cave Site, 45SA41, Gifford Pinchot National Forest, Skamania County, Washington. Eastern Washington Reports in Archaeology and History 100-27.
- Larsen, Pauline, 1995. Weyerhaeuser archivist. Personal communication with John Warner, HRA, concerning biographical information of Dr. Richard Burke, September 15th.
- Larson, Lynn L., 1988. Report of Cultural Resource Reconnaissance and Identification of Traditional Contemporary American Indian Land and Resource Use in the Snoqualmie River Flood Damage Reduction Study Area. Prepared for the U.S. Army Corps of Engineers by BOAS, Inc., Seattle.
- Leonhardy, F.C., and D.G. Rice, 1970. A Proposed Cultural Typology for the Lower Snake River Region, Southeastern Washington. Northwest Anthropological Research Notes 4:1-29.
- Lewarch, Dennis, 1978. An Archaeological Assessment of Chester Morse Lake and Masonry Dam Pool. Office of Public Archaeology Reconnaissance Report No. 15.

University of Washington, Seattle.

Lyman, W.D., 1919. History of the Yakima Valley Comprising Yakima, Kittitas and Benton Counties. S.J. Clarke Publishing, Seattle, Washington.

Lynott, R.E., 1966. Weather and Climate of the Columbia Gorge. Northwest Science 40(4):129-132.

Mackin, J. Hoover, 1961. A Stratigraphic Section in the Yakima Basalt and the Ellensburg Formation in South-Central Washington. Washington State Division of Mines and Geology Report of Investigations No. 19. State Printing Plant, Olympia, Washington.

Marino, Cesare, 1990. History of Western Washington Since 1846. In, Northwest Coast, edited by Wayne Suttles, pp. 169-179. Handbook of North American Indians, vol. 7, W.C Sturtevant, general editor. Smithsonian Institution, Washington, D.C.

Masten, Ruth A., 1984. A Cultural Resources Survey Along Highway 395, Pasco to Eltopia, Franklin County, Washington. Ms. on file, Washington State Office of Archaeology and Historic Preservation, Olympia, Washington.

McCulloch, Mac, 1990. Gateway to Time. M. McCulloch, Yakima, Washington.

McKee, Bates, 1972. Cascadia The Geologic Evolution of the Pacific Northwest. McGraw Hill Book Company, New York, New York.

Mierendorf, R.R., 1986. People of the North Cascades. National Park Service, Seattle, Washington.

1993. Chert Procurement in the Upper Skagit River Valley of the Northern Cascade Range, Ross Lake National Recreation Area, Washington. Review Draft submitted to the Skagit Environmental Endowment Commission.

Miss, C. J., 1992. Letter report submitted to Snoqualmie Pass Sewer District, Snoqualmie Pass, Washington, by Northwest Archaeological Associates, Inc., Seattle, Washington. Ms. on file, Washington State Office of Archaeology and Historic Preservation, Olympia, Washington.

Murphy, Martha D., 1976. The Snoqualmie People. Unpublished manuscript on file at the North Bend Library, North Bend, Washington.

Northern Pacific Railroad, 1937. Northern Pacific Railroad route map, St. Paul, Minnesota.

Phillips, J.W., 1990. Washington State Place Names. University of Washington Press, Seattle, Washington.

Pielou, E.C., 1991. After the Ice Age: The Return of Life to Glaciated North America. University of Chicago Press, Chicago, Illinois.

Porter, Stephen C., 1976. Pleistocene Glaciation in the Southern Part of the North Cascade Range, Washington. Geological Society of America Bulletin 87:61-75.

Powell, J. W., 1899. Eighteenth Annual Report of the Bureau of American Ethnology, Part 2. Government Printing Office, Washington, D.C.

Prater, Yvonne, 1981. Snoqualmie Pass: From Indian Trail to Interstate. Snoqualmie Valley Historical Society, North Bend, Washington.

Pugh, William O., 1982. Cattlemen and Branding Irons. Yakima Valley Museum and Historical Society, Yakima, Washington.

Ray, V., 1936. Native Villages and Groupings of the Columbia Basin. Pacific Northwest Quarterly 27:99-152.

Regan, Dennis C., 1992. A Cultural Resources Survey of SR522 Between SR9 and SR2 in Snohomish County, Washington. Short Report 92-41, Archaeological and Historical Services, Eastern Washington University, Cheney, Washington.

Reisner, Marc, 1986. Cadillac Desert. Viking Penguin, New York.

Rice, D. G., 1968. Second Annual Report of the Mid-Columbia Archaeological Society, Kennewick, Washington.

1973. Archaeological Investigations at the Washington Public Power Supply System Hanford No. 1 Nuclear Power Plant, Benton County, Washington. Department of Sociology/Anthropology, University of Idaho, Moscow, Idaho.

Rice, Harvey S., 1982. A Survey for Cultural Resources on SR 12 from the Junction SR 395 to the Snake River Bridge, Franklin County, Washington. Ms. on file, Washington

State Office of Archaeology and Historic Preservation, Olympia, Washington.

1986. A Survey for Cultural Resources at the Proposed Burlington Northern - Milwaukee Connection Near Easton, Kittitas County, Washington. Archaeological and Historical Services Short Report No. DOT86-18, Eastern Washington University, Cheney, Washington.

DRice, Harvey S. and Craig Holstine, 1986. A Survey for Cultural Resources, SR 906, Summit to Hyak, Wenatchee National Forest, Kittitas County, Washington. Short Report DOT86-41, Archaeological and Historical Services, Eastern Washington University, Cheney, Washington.

Ritzville Journal-Tribune, 1949. Pioneer Edition. Ritzville, Washington

Robinson, Joan M., 1985. Archaeological Reconnaissance of Washington State Department of Game Property at Hat Slough, Snohomish County, Washington. Ms. on file, Washington State Office of Archaeology and Historic Preservation, Olympia, Washington.

1987. A Cultural Resources Survey of SR 90: Denny Creek Road to Hyak, Snoqualmie Pass, King and Kittitas Counties, Washington. Short Report DOT87-39, Archaeological and Historical Services, Eastern Washington University, Cheney, Washington.

Rosenfeld, Charles L., 1993. Landforms and Geology. In Atlas of the Pacific Northwest, edited by Philip L. Jackson and A. Jon Kimerling, pp.40-47. Oregon State University Press, Corvallis, Oregon.

Schalk, R.F., 1977. The Structure of an Anadromous Fish Resource. For Theory Building in Archaeology. Edited by Lewis R. Binford, pp. 207-249, Academic Press, New York.

1980. The Cultural Sequence of the Southern Columbia Plateau. In, Cultural Resource Investigations for the Second Powerhouse Project at McNary Dam, near Umatilla, Oregon. Project Report Number 1, Laboratory of Archaeology and History, Washington State University, Pullman, Washington.

Schwantes, Carlos A., 1989. The Pacific Northwest. University of Nebraska Press, Lincoln, Nebraska.

- Spier, L., 1936. Tribal Distribution in Washington. General Series in Anthropology 3. George Banta, Menasha, Wisconsin.
- Stilson, M. L., 1988. Resource Protection Planning Process South Cascades Study Unit. An RP3 document prepared for the Washington State Department of Community Development, Office of Archaeology and Historic Preservation, Olympia, Washington.
- Stirling, Stephanie K., 1989. Men of Integrity. Unpublished Master's Thesis, University of Washington, Seattle, Washington.
- Stright, M.J., 1990. Archaeological Sites on the North American Continental Shelf. In Archaeological Geology of North America, edited by N. Lasca and J. Donahue. Geological Society of America, Centennial Special Volume 4, pp. 439-465. Boulder, Colorado.
- Suttles, W.P., 1960a. Variation in Habitat and Culture on the Northwest Coast. Akten des 34. Internat. Amerikanistenkongresses, Vienna:522-537.
- 1960b. Affinal Ties, Subsistence, and Prestige among the Coast Salish. American Anthropologist 62:296-305.
1963. The Persistence of Intervillage Ties Among the Coast Salish. Ethnology 2:512-525. 1963.
- Swanson, E.H. Jr., 1962. Early Cultures in Northwestern America. American Antiquity 28:151-158.
- Teit, J., 1928. The Middle Columbia Salish. University of Washington Publication in Anthropology, Vol. 2, No. 4:83-128.
- Thompson, Gail, 1978. Prehistoric Settlement changes in the Southern Northwest Coast: A Functional Approach. Unpublished Ph.D. dissertation, Department of Anthropology, University of Washington, Seattle, Washington.
- Tollefson, Kenneth D., 1988. The Snoqualmie: a Puget Sound Chiefdom. Ethnology 26(2):121-136.
1990. Personal communication, telephone conversation with Gail Thompson,

Historical Research Associates, Inc., on December 20.

Turner, H., 1976. Ethnozoology of the Snoqualmie. Unpublished manuscript on file, Suzzallo Library, University of Washington, Seattle, Washington.

U.S. Court of Claims, 1933. Duwamish et al., Claimants v. the United States of America, Defendants No. F-275. The Argus Press, Seattle, Washington.

Waite, Richard B., Jr., and R. M. Thorson, 1983. The Cordilleran Ice Sheet in Washington, Idaho, and Montana. Chapter 3 in Late Pleistocene Environments of the United States, edited by S. C. Porter, pp. 53-70. University of Minnesota Press, Minneapolis, Minnesota.

Washington State, 1939. Golden Jubilee Edition. Davis Publishing Company, Seattle, Washington.

Waterman, T.T., 1920. Puget Sound Geography. Unpublished Manuscript on Microfilm, No. 3435. Suzzallo Library, University of Washington, Seattle, Washington.

Watson, Kenneth G., 1992. 28 Historic Places in the Upper Snoqualmie Valley. Snoqualmie Valley Historical Society, North Bend, Washington.

1995. Curator, Snoqualmie Valley Historical Museum. Personal conversation with John Warner, HRA, concerning the location of the bronze plaque missing from the Memorial Bench, September 15th.

Welch, Jeanne M., 1981. Archaeological Test Excavations of the Site of the Proposed Access Road for the State Fire Service Training Center. Submitted to Washington State Commission for Vocational Education, Olympia, Washington, by Western Heritage, Inc., Olympia, Washington.

Welch, Jeanne M. and Richard D. Daugherty, 1989. A Cultural Resource Survey of Selected Areas for Proposed Quarry Sites and Pipeline, Grant County, Ephrata, Washington. Submitted to Public Utility District of Grant County, by Western Heritage, Inc., Olympia, Washington.

Wessen, G.C., 1986. Prehistoric Cultural Resources of San Juan County, Washington. A Report prepared for the Washington State Office of Archaeology and Historic Preservation. Wessen & Associates, Kirkland, Washington.

Wessen, G.C., and M.L. Stilson, 1987. Resource Protection Planning Process: Southern Puget Sound Study Unit. An RP3 Document prepared for the Washington State Office of Archaeology and Historic Preservation, Olympia, Washington.

Whitfield, Wm., editor, 1926. History of Snohomish County, Washington. Pioneer Historical Publishing Company, Seattle, Washington.

Whittaker, F.H. and J.K. Stein, 1992. Shell Midden Boundaries in Relation to Past and Present Shorelines. In Deciphering a Shell Midden, edited by J.K. Stein, pp. 25-42. Academic Press, Inc., San Diego, California.

Wydoski, Richard S. and Richard R. Whitney, 1979. Inland Fishes of Washington. University of Washington Press, Seattle, Washington.

#### **1.5.10 PUBLIC SERVICES AND UTILITIES**

Anderson, D., 1995. Adams County Planning Department, Ritzville, Washington, personal communication, July.

Claussen, S., 1995. King County Parks and Recreation Department, Seattle, Washington, personal communication, July.

DeLorme Mapping Company, 1992. Washington Atlas & Gazetteer, Freeport, Maine.

Franklin County, 1995. Franklin County Comprehensive Parks Plan.

Kaywood, E., 1995. Washington State Department of Ecology, Olympia, Washington, personal communication, August.

Keith, N., 1995. Mountains to Sound Greenway, Seattle, Washington, personal communication, September.

King, S., 1995. Washington State Utilities and Transportation Commission, Olympia, Washington, personal communication, July.

King County, 1989. King County Commemorative Centennial Map.

McCarthy, J., 1995. King County Construction and Facility Management, Seattle,

- Washington, personal communication, September.
- McGuire, C., 1995. Washington State Parks and Recreation Commission, Olympia, Washington, personal communication, August.
- McKee, C., 1995. Easton State Park, Easton, Washington, personal communication, August.
- Muller, T., 1995. Washington State Department of Health, Olympia, Washington, personal communication, July.
- Public Sector Information, Inc., 1995, 1995 Washington State Yearbook, Eugene, Oregon.
- Scott, P., 1995. Kittitas County Planning Department, Ellensburg, Washington, personal communication, July.
- Sell, R., 1995. Grant County Planning Department, Ephrata, Washington, personal communication, July.
- Snohomish County, 1994. Snohomish County Comprehensive Park and Recreation Plan.
- Snoqualmie, City of, 1994. Open Spaces Parks and Recreation Comprehensive Plan.
- Strozyk, E., 1995. Washington State Superintendent of Public Instruction, Olympia, Washington, personal communication, August.
- Washington Association of Sheriffs and Police Chiefs, 1995. Law Enforcement Directory, 1995 - 1996.
- Washington Fire Commissioners Association, Washington State Association of Fire Chiefs, Inc., 1993. Washington State Fire Service Directory.
- Washington State Department of Health, 1995. Directory of Acute Care Hospitals.
- Washington State Department of Health, 1995. Emergency Medical Services Provider List.
- Washington Surveying and Rating Bureau, 1995. Public Protection Classification Manual, Washington.
- Varella, 1996. Analysis of City of Kittitas Water and Sewer Utilities.

### **1.5.11 SOCIOECONOMICS**

Bureau of the Census, 1994. USA Counties 1994. A Statistical Abstract Supplement. CD-ROM, Economics and Statistics Administration. Washington, D.C., December 1994.

Bureau of Economic Analysis, 1995. REIS--Regional Economic Information System. CD-ROM, Regional Economic Measurement Division. Washington D.C., May 1995.

Department of Revenue, 1994. Property Tax Statistics 1994. Olympia, Washington, August 1994.

Department of Revenue, 1995. Tax Statistics 1994. Olympia, Washington, March 1995.

Office of Financial Management, 1993. 1993 Data Book. Forecasting Division. Olympia, Washington.

Office of Financial Management, 1994. 1994 Population Trends for Washington State. Olympia, Washington, September 1994.

Office of Financial Management, 1995. "April 1 Population of Cities, Towns and Counties Used for the Allocation of State Revenues: July 6 Correction Release." Olympia, Washington, July 6, 1995.

### **1.5.12 EMERGENCY PLANS AND SPILL PREVENTION**

Olympic Pipe Line Company, 1995. Spill Response Plan, Renton, Washington.

California State Fire Marshall, 1993. Hazardous Liquid Pipeline Risk Assessment. Office of the Chief, Sacramento, California.

Energy Analysis International, Inc., 1995. Forecast of Product Demand.

NOAA/American Petroleum Institute, 1995. Options for Minimizing Environmental Impacts of Freshwater Spill Response.

U.S. Department of Transportation, Federal Highway Administration 1990. Present Practices of Highway Transportation of Hazardous Materials.

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