

Exhibit A-58: Kammer CV

NORA ELLEN KAMMER

Technical staff with 15 years of experience in natural resource protection, restoration, and management with a background aquatic habitat restoration and civil engineering. Qualifications include analyzing geospatial data; managing various habitat projects affecting aquatic resources including estuarine habitat; documenting data, analyses, and recommendations; reviewing environmental projects and permits; providing written reports, and familiarity with tribal community and culture.

EDUCATION

University of Washington
M.S.E. in Water Resources Engineering
University of Michigan
B.S.E. in Civil Engineering

Seattle, WA
2003 - 2004
Ann Arbor, MI
1998 - 2003

RELATED EXPERIENCE

Skagit River System Cooperative
Restoration Ecologist

La Conner, WA
October 2007 - 2018

- Contributed to project design and construction for habitat restoration projects
- Performed field surveys using laser level, auto level, total station, GPS, RTK, distance rangefinder, clinometer, compass, map, hip chain, DBH tape, and electrofishing equipment
- Collected long-term recordings of environmental conditions using tidbit water temperature, surface water level, groundwater level, and barometric pressure loggers; processed data, presented results; organized and maintained datasets
- Worked with GIS software to analyze the landscape, produce metrics, prepare maps and graphics, and guide restoration design; utilized GIS data including current and historical aerial photography, Lidar, and other environmental and boundary data
- Contributed to project conception and design for freshwater and estuarine habitat restoration projects (Swinomish Channel Fill Removal & Marsh Restoration, McGlinn Island Causeway Feasibility Study, Milltown, Crescent Harbor, Similk Bay)
- Collaborated with USFS to complete forest road treatment projects; identified opportunities to reduce the potential for roads to trigger mass erosion events that would impact aquatic resources
- Prepared and published final reports, technical reports, and recommendations; provided assessment data and recommendations to local partners (other tribes, state and federal agencies, conservation districts, local government)
- Prepared grant applications and supporting documents; reported to grant agencies
- Performed onsite construction management to ensure designs and specifications were successfully implemented; worked with contractors, crews, and volunteers
- Designed and managed construction activities in a culturally sensitive site; worked closely with THPO, archeologists, and cultural observer to ensure site integrity
- Coordinated and attended technical meetings for projects, including design team meetings, strategic planning meetings, and permitting meetings
- Constructed technical drawings; produced typical and site-specific drawings, quantity takeoffs, and project budgets for forest road treatments and other nearshore and riparian restoration projects
- Prepared, submitted, and coordinated federal, state, county, and tribal permits
- Created engineering plans, construction specifications, bid documents, contract documents
- Developed RFPs and RFQs; produced bidding documents; developed selection criteria

GeoEngineers, Inc.

Bellingham, WA

Water Resources Engineer

March 2005 - January 2006

- Performed field reconnaissance and site visits to establish baseline conditions for projects such as engineered log jams, cribwalls, flood analysis, channel migration, and channel avulsion analysis
- Performed work for private, city, county, state, and tribal clients
- Prepared written reports, technical documents, and drawings as required under contract or requested by clients or governmental agencies
- Constructed technical drawings of projects using CAD and GIS software
- Performed hydrologic and GIS analyses of numerous Washington rivers
- Created engineering plans, construction specifications, written reports, and other technical documents
- Directed contractors, performed construction observation and documented post-construction performance assessments
- Assisted in the formulation of permitting applications

PUD #1 of Skagit County

Mount Vernon, WA

Water Quality Coordinator

August 2006 – September 2007

- Responsible for day-to-day compliance with State Department of Health and Federal Environmental Protection Agency drinking water programs
- Initiated a reservoir water quality monitoring program
- Fielded inquiries and complaints from the public regarding drinking water

King County Water and Land Resources Division

Seattle, WA

Lake Stewardship Program Intern

Summer - Fall 2004

- Performed field investigations of lake water quality, such as temperature and oxygen profiles, secchi depth, and algae sampling
- Delineated land uses within small lake watersheds in King County using GIS tools; analyzed water quality data from long-term citizen science program; studied the correlation between water quality and land use density
- Maintained organization in the equipment storage unit and laboratory

RELATED TRAINING & WORKSHOPS

Traditional Foods and Food Sovereignty, 2012

Archeology for Construction Trades, 2009

RELATED COURSEWORK

Limnology, Hydrology, Groundwater, Salmonid Life Cycles and Behavior, Statistical Methods, Floodplain Planning for River Communities, Water Resource Planning, Environmental Process Engineering, Design of Environmental Engineering Systems, Fluid Mechanics, Lake Management, Aquatic Chemistry