

Draw a line horizontally across the page – try a few different lines

Right, justify, center, and left your name at the top

JENNIFER LIGHT

509-334-1046 (home)

jlight@wsu.edu

Change the line spacing

Education

Ph.D., Interdisciplinary Engineering Education, Washington State University, 2005

Master of Science, Environmental Engineering, Idaho State University, 1999

Bachelor of Science, Environmental Engineering, Montana College of Mineral Science and Technology, 1992

Academic Experience

Washington State University, Washington

2002-2005

Research Assistant

Taught introductory and foundation engineering courses and graduate seminar series for teaching engineering and science.

Performed comprehensive research study on environmental reforms for engineering and science students.

Wrote and secured grants for developing an engineering living-learning community program and coordinated implementation.

Developed online course evaluation system for chemistry and engineering departments.

Developed new curriculum and activities for environmental engineering program.

Professional Experience

City of Pocatello, Idaho

1999-2002

Environmental Manager

Developed and implemented City's first stormwater management plan as well as first NPDES Phase II permit.

Created a stormwater sampling system to refine stormwater management plan by identifying prominent pollutants and locations – also used GIS to refine study.

- Designed stormwater wetland, applied for and received grant from EPA to construct and assess
- Worked with other agencies (IDOT, local tribes, special interest groups, conservation groups, USDA, MPO, county, state, and federal government) to develop a watershed-wide Total Maximum Daily Load plan for the region including designing and constructing continuous river monitoring systems for the Portneuf River.
- Developed and funded (through grants) a local compost facility with team members from other agencies and public.
- Produced numerous public education literature including brochures, surveys, newsletters, webpages, placemats, and flyers.

Developed and gave numerous public presentations to diverse audiences regarding environmental efforts, stormwater issues, and other environmental issues.

Worked with Idaho State University and Idaho Geological Survey to determine aquifer vulnerability and develop protection measures.

Performed environmental audits for various reasons such as real estate transaction environmental assessments and multimedia compliance audits.

Worked with the wastewater treatment plant to plan and implement NPDES permit requirements as well as negotiate new permit requirements for both NPDES and land application.

Try a bulleted list (or remove bullet lists)

Experiment with different fonts, italics, underline, and bold

Change left, right, top and bottom margins

American Microsystems Incorporated

1996-1998

Environmental Engineer

Designed an ambient toxic gas monitoring system and layout for new semiconductor fabrication facility and integrated and upgraded the existing monitoring system.

Performed risk management offsite consequence analysis.

Developed ArcView GIS applications for emission inventories and modeling as well as for water quality studies.

Submitted permit application packages to State of Idaho DEQ, including recommendations for permit limits and compliance plans.

Extensive experience with sensitive complex air monitoring equipment including maintenance as well as identifying and solving problems with the equipment.

State of Idaho Department of Environmental Quality

1994-1996

Environmental Analyst

Developed emission factors for improved road sanding practices on roads in the Pocatello area, which were subsequently approved by EPA.

Created an emission inventory for a semiconductor manufacturer and assisted in compilation of INEL emissions inventory in support of the Idaho Title V operating permit.

Assisted in the development of an emission inventory for the Power-Bannock nonattainment area and implemented state implementation plan (SIP) management controls.

Idaho National Energy & Environmental Laboratory

1992-1994

Summer 1990 & 1991 Fellowship

Performed detailed analysis of project/activities for permit applications using emission estimates, process parameters, and mathematical modeling using TSCREEN, SCREEN2, FDM, and PUFF as well as PSD increment analysis.

Managing and implementing environmental programs at facility and operations levels

Spill control and prevention plan development and implementation.

Developed facility stormwater management plans.

Performed SARA 313 reporting and record keeping.

Developed and implemented waste prevention and minimization plans and projects.

Authored many regulatory required reports including EPA/State TRI Report, Permit to Construct, and Stormwater Permits as well as authoring several technical memorandums for regulatory compliance for the INEEL.

Designed and managed the Airborne Effluent Monitoring Program Plan at EG&G Idaho for compliance with NESHAPs for all EG&G facilities including defining monitoring requirements, recommending and implementing best management practices, as well as managing the associated quality assurance/quality control program.

Scientific/Technical Development and Presentations

Developed local emission factors for road dust for Pocatello PM-10 Nonattainment Area for Master thesis. EPA subsequently accepted emission factors for inclusion into State Implementation Plan.

Publications include: Road Dust Emission Factors for Pocatello, Idaho, 1999, prepared for the Southeast Council of Governments, presented at Air and Waste Management Association (AWMA) conference 1999; co-author Pocatello Emission Inventory, presented at AWMA conference 1995; Impacts of a

Combined Living-Learning Community on Attitudes and College Engagement of Engineering Freshmen, presented at American Society of Engineering Education annual conference (ASEE) 2004; Evaluation of a living-learning community for engineering and science freshmen, presented at ASEE national

conference 2005; A case study using a mixed-method approach for evaluating a freshmen engineering and science living-learning community (accepted paper and presentation, ASEE national conference).
