



PAMELA BRODY-HEINE

KEY QUALIFICATIONS

- Over 20 years of experience in the environmental field
- Skilled and respected project manager for an diverse range projects
- Extensive experience in organizing, chairing and facilitating multi-disciplinary stakeholder groups
- Specializing in product stewardship, chemical assessments and toxics use reduction, pollution prevention, environmentally preferable purchasing and sustainability assessment

EDUCATION

M.S. Civil Engineering, University of Colorado, Boulder, 1987

B.A. Geology, University of California, Berkeley, 1984

REGISTRATION Professional Engineer (Civil and Environmental): Oregon

SELECTED ECO STEWARDSHIP STRATEGIES PROJECTS

Electronic Products Environmental Standards Development, Imaging Equipment University of TN Center for Clean Products, Zero Waste Alliance and U.S. EPA 2008 – ongoing Facilitator and Project Manager

Managing a global multi-stakeholder process to develop an environmental leadership standard for imaging equipment electronics products, to be incorporated into the IEEE 1680 family of standards for EPEAT (Electronic Products Environmental Assessment Tool). EPEAT is a procurement tool to assist purchasers sectors evaluate, compare and select electronics based on their environmental attributes.

Outdoor Industry–Eco Index Development Outdoor Industry Association & European Outdoor Group, 2008 - 2010 Project Manager.

Managed and facilitated the development of an innovative environmental index via a multi-stakeholder working group. The Eco Index is for outdoor industry products, including apparel, footwear, and gear and is being piloted worldwide and potentially adopted by other industry sectors.

Product Stewardship: Analysis of Incentives for Design for the Environment Oregon Department of Environmental Quality 2009 Project Manager.

Analyzed laws and programs from states, provinces, and countries to determine if and how effectively product stewardship laws incent design for the environment in products. Drivers for legislation were studied, including threat of legislation.

Oregon State Contractor Program for Electronics Recycling Oregon Department of Environmental Quality 2008 - 2009 Data and Communications Manager.

Assisted with the launch and implementation of the State Contractor Program for electronics recycling. as part of a team with Zero Waste Alliance, National Center for Electronics Recycling and Alcorn Consulting.

Closing the E-Design/E-Scrap Loop

Green Electronics Council and U.S. EPA 2007 – 2008

Researched strategies to design electronics products to lessen overall environmental footprint, especially through designing for end-of-life with Green Electronics Council. Funded through a U.S. EPA grant, the project proposed a mechanism for active exchange of useful information between the front and back ends of the electronics product life-cycle chain of commerce, focusing on computers and monitors.

CARE – Carpet America Recovery Effort Independent Assessment, 2007

Conducted an independent assessment evaluating the progress of CARE towards meeting the five-year goals specified on the CARE Memorandum of Understanding in association with the Zero Waste Alliance. The project included extensive interviews with stakeholders, data analysis, assessment of barriers to progress, and recommendations on CARE's goals, strategies, and funding model.

EPEAT Standards Development Roadmap (SDR)

Green Electronics Council, Zero Waste Alliance and U.S. EPA 2006 – 2007

Project Manager.

Managed a national stakeholder process to develop recommendations for future development of environmental leadership standards for electronics products, to be incorporated in EPEAT (Electronic Products Environmental Assessment Tool). The project includes convening a broad range of stakeholders, developing selection criteria and producing an action plan.

Electronic Product Stewardship Consulting and Takeback Recycling Program Development

ASUStek, 2006 - 2007

Provided consulting services in a variety of areas including 1) development of a U.S. takeback recycling program; 2) research, guidance, and analysis on current environmental and e-waste laws and regulations (state and federal); 3) guidance on data queries to suppliers, partners, manufacturers, and other vendors; and 4) assistance in drafting environmental policies; and 5) guidance on improving green design practices.

Baseline Survey of Electronics Recyclers and Collectors

Oregon Dept. of Environmental Quality, 2006

Project Manager.

Conducted a survey of all end-of-life electronics handlers and collectors in the state. The survey gathered extensive information to profile e-scrap flows, services and infrastructure, map access to e-cycling by all generator types, describe existing management practices, and understand environmental issues. The team built a database, with output to support Oregon Department of Environmental Quality in policy and programmatic decision-making. The project included site visits to all electronic recycling processors in Oregon.

Oregon Electronic Product Stewardship Advisory Committee

Oregon Economic & Community Development Department, 2004 – 2005

Project Manager.

Organized and facilitated the Oregon Electronic Product Stewardship Advisory Committee which met for a year. Responsibilities included ensuring a constructive and productive dialogue among the members of the Committee (a diverse group of stakeholders), providing relevant information about key policy, technical and institutional issues, and ensuring the timely development and high quality of Committee reports and recommendations submitted to the Oregon Legislature.

**Electronics Reuse and Recycling Study
Spokane Regional Solid Waste System, 2006 - 2007
Project Manager.**

Conducted a study of e-scrap flows and infrastructure in Spokane County, Washington. The research team conducted a survey of all end-of-life electronics handlers and collectors in the county. The survey gathered extensive information to profile e-scrap flows, services and infrastructure in order to develop strategies for possible economic development opportunities within the County.

**Electronic Product Stewardship Consulting
Confidential Electronic Product Manufacturer, 2005 – 2007**

Eco Stewardship Strategies was part of a team tracking electronic product stewardship legislation and other industry and stakeholder initiatives for a confidential electronic product manufacturer. The project includes providing strategic advice and assistance on potential impacts to the manufacturer from existing and developing electronic product stewardship policy and regulations.

**Oregon Electronic Product Stewardship Advisory Committee
Oregon Economic & Community Development Department, 2004 – 2005
Project Manager.**

Organized and facilitated the Oregon Electronic Product Stewardship Advisory Committee which met for a year. Responsibilities included ensuring a constructive and productive dialogue among the members of the Committee (a diverse group of stakeholders), providing relevant information about key policy, technical and institutional issues, and ensuring the timely development and high quality of Committee reports and recommendations submitted to the Oregon Legislature.

**Chemical Management System Development
Portland General Electric, 2005 - 2007**

Designed a chemical management system (CMS) to systematize the management and reduction of chemical usage with PGE's Beaver and Port Westward Power plants. The system was modeled after the international standard for environmental management systems, ISO 14000. The CMS included planning, implementation, audits and documentation with the goal of continual reduction of hazards and costs and performance. The CMS is an extension of existing chemical management practices, providing linkages and a systematic approach to chemical management.

**Chemical Assessment and Ranking System (CARS) Evaluations
Various**

With Zero Waste Alliance, conducted numerous chemical inventory assessments for local organizations using CARS, a decision support tool providing a process for inventorying, assessing and ranking chemicals, assisting organizations in providing a safe work environment and minimizing impacts to the environment by providing environmental purchasing support. Clients include Portland General Electric, the City of Portland, Multnomah County, Metro and the City of Eugene.

PROFESSIONAL EXPERIENCE

**ECO STEWARDSHIP STRATEGIES, Portland and Bend, Oregon
Principal**

2003 – present

PORT OF PORTLAND, Portland, Oregon

2000 –2003

Pollution Prevention and Sustainability Program Manager

Developed program policies and procedures for the Port’s environmental management system (EMS), set long term direction and priorities for the programs, ensured consistency across the organization and tracked regulatory trends.

CH2M HILL, Portland, Oregon and Honolulu, Hawaii

1991 – 2000

Environmental Engineer/Groundwater Hydrologist

Managed an extensive range of projects, including water resources, groundwater hydrology, air quality, site investigation and remediation. Supervised the Regulatory Compliance Department and was a project delivery coordinator ensuring that quality projects were delivered within budget and on schedule.

DAMES & MOORE, Santa Barbara, California

1987 - 1991

Project Hydrologist

Project manager and lead groundwater hydrologist for numerous water resources, site investigation and remediation projects.

PROFESSIONAL ACTIVITIES & COMMITTEES

- Oregon DEQ Product Stewardship Advisory Committee (2009 – 2010)
- Oregon DEQ Global Warming Materials Management Committee (2010)
- Co-Chair Sustainable Development Commission; City of Portland and Multnomah County (2005-2007)
- Toxics Reduction Strategy Implementation Steering Committee: City of Portland and Multnomah County (2006 – 2007)
- Collaborative for Health and the Environment: Oregon Chapter Policy Committee (2005 – present)
- City of Portland Solid Waste Management Work Group (2006)
- Oregon DEQ Waste Prevention Strategy Work Group (2006)
- Oregon Environmental Council’s Mercury Solutions Team (2000 – 2001)