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Chapter 7

List of Contributors

The following individuals contributed to the preparation of the Final EIS for the Vancouver Energy Distribution Terminal Facility.

7.1 WASHINGTON STATE ENERGY FACILITY SITE EVALUATION COUNCIL (EFSEC)

Posner, Stephen – EFSEC Manager

Role: EFSEC Manager
Education: BS, Environmental Studies/Biology
Expertise: Over 30 years of experience working in various environmental regulatory programs. For the last 10 years, Mr. Posner has worked in the field of energy facility siting and compliance monitoring. As EFSEC’s manager, he manages the environmental and adjudicative siting reviews and compliance monitoring activities for various types of energy facilities. Prior to working at EFSEC, Mr. Posner worked for the California Environmental Protection Agency in various regulatory programs related to the management of hazardous and solid waste.

Bumpus, Sonia – EFSEC Siting and Compliance Manager

Role: Project Manager
Education: BS, Biological and Health Sciences
Expertise: Over 10 years of project management experience working in environmental protection and regulation. As EFSEC’s Siting and Compliance Manager, Ms. Bumpus manages and directs EFSEC staff activities to conduct National Environmental Policy Act (NEPA) and State Environmental Policy Act (SEPA) environmental reviews, adjudicative siting reviews, and permitting for various types of energy facilities. Ms. Bumpus has worked for the State of Washington in wetland mitigation site monitoring, stormwater low-impact development (LID) projects, and completed the Washington State 2012 Clean Watershed Needs Survey in partnership with the US Environmental Protection Agency (EPA). Prior to working with the State of Washington, Ms. Bumpus worked for the US Department of Defense as a team lead managing medical database projects.

Kidder, Ami – Siting Specialist

Role: Siting Specialist/Staff
Education: BS, Ecology and Evolutionary Biology
MS, Natural Resources with emphasis on Watershed Management and Ecohydrology

Expertise: Ms. Kidder has over 6 years of experience working in environmental compliance, having worked as an environmental quality program manager for industry prior to joining EFSEC staff. Ms. Kidder is a Certified Hazardous Materials Manager (CHMM) and has experience overseeing Clean Water Act and Oil and Petroleum Act compliance programs. In her role with EFSEC, she participates in SEPA environmental reviews and permit application reviews to process applications for site certification.

Betts, Patricia – SEPA Specialist

Role: Environmental Planner
Education: BS, Zoology
Expertise: 23 years of experience in SEPA implementation for Washington state agencies, including managing state agency EISs; participating in the development of, reviewing, and commenting on other state and federal EISs; interpreting SEPA rules and advising agencies, the public, and applicants; and preparing SEPA guidance, conducting training, and developing SEPA policy.

7.2 CARDNO, INC.

EFSEC was supported by Cardno, Inc. in preparing the Final EIS. Cardno’s team included project management, a range of resource specialists, technical writers, and geographic information system analysts.

(In alphabetical order)

Aarts, Jan – Senior Consultant

Role: Project Manager
Education: MA, Urban Planning; BA, Urban Planning
Expertise: 30 years of experience in NEPA and SEPA compliance, land use, recreation, transportation, socioeconomics, visual impacts, community impacts, environmental justice, public services, and cumulative effects.

Andrews, Brent – Project Scientist

Role: Water Resources Technical Author
Education: MA, Politics, Economics, and Business; BA, Environmental Studies and Politics
Expertise: 9 years of experience in water quality compliance and permitting.

Baldrige, Jean – Strategic Director - Water Resources Management / Senior Principal

Role: Aquatic Resources Senior Reviewer
Education: MS, Fisheries; BA, Biology
Expertise: 30 years of experience as an aquatic ecologist with an emphasis in fisheries and assessments of aquatic habitat. Her career has focused upon assessing the effects of development on aquatic habitat. Ms. Baldrige is a specialist in addressing endangered species concerns. She has worked primarily in the western states, with project activities extending along the coast from Southern California to Alaska.

Barker, Scott – Planner/Engineer

Role: Traffic/Transportation Technical Author
Education: MS, Civil Engineering/City Planning; BA, History
Expertise: 25 years of experience in transportation and traffic impact analysis and general environmental analysis. He has helped execute environmental work for land development, highway, transit, and Intelligent Transportation Systems infrastructure throughout California.

Beisser, Nancy – Project Consultant / Environmental and Science Communications

Role: Technical Editor / Document QA
Education: BA, Human Development
Expertise: 30 years of experience in technical editing, document development and production support for environmental and engineering reports. She has managed the flow of information and communications on large/complex and small projects and proposals geared toward a variety of audiences and literacy levels.

Brena, Jeanette – Senior Consultant

Role: Air Quality Technical Author
Education: MS, Environmental Engineering; BS, Civil and Environmental Engineering
Expertise: 17 years of experience in air quality regulatory compliance and permitting, noise impact analysis, and environmental engineering.

Butler, Karen – Production Specialist

Role: Document Production
Education: AA, Microcomputer Application/Office Technology
Expertise: 28 years of experience working as a Production/Desktop Publishing Specialist. She has managed the life cycle of report production and distribution for large-scale technical and environmental compliance documents.

Clabaugh, Don – Geotechnical Engineer

Role: Health and Safety Technical Author
Education: MS, Engineering Geology; BS, Engineering Geology
Expertise: 30 years of experience conducting environmental site investigations and cleanups and geotechnical investigations. Additionally, Don is experienced in regulatory compliance and litigation support.

Clifford, Katherine – Project Manager / Regulatory Compliance Specialist

Role: Technical Author for Energy, Natural Resources, Public Services/Utilities
Education: BA, Environmental Studies
Expertise: 9 years of experience in NEPA compliance; environmental permitting and regulatory compliance; public health and safety, land use, and public services impact analysis; and natural resource economics.

Clouse, Adele – Senior Staff Scientist

Role: Project Coordinator, Oil Spill Impact Assessment Task Lead
Education: BA, Biological Anthropology

Expertise: 5 years of multidisciplinary experience completing technical analysis and preparation of EISs in compliance with the NEPA/SEPA and other state environmental policy acts.

Coslett, Kevin – Assistant Staff Scientist

Role: Socioeconomics and Recreation Technical Author
Education: BS, Environmental & Natural Resource Economics
Expertise: 2 years of experience analyzing the social and economic implications of industrial and commercial enterprises, and data acquisition and analysis.

Dillon, Reinhold – Senior Technical Editor

Role: Technical Editor
Education: MA, Medieval Culture; BA, History
Expertise: 30 years of experience in editing and writing, holding positions as editor, copyeditor, and proofreader.

Dorfman, Nancy – Production Specialist

Role: Document Production
Education: BS, Psychology and ASL
Expertise: 16 years of experience working as a Production Specialist. She has managed the life cycle of report production and distribution for large-scale technical and environmental compliance documents.

Elder, Lee – Project Economist

Role: Socioeconomics and Recreation Technical Author
Education: MS, Agricultural and Resource Economics; BS, Agricultural Business
Expertise: 10 years of experience analyzing the social and economic implications of industrial and commercial enterprises, regulatory change, resource development, and changes in resource availability.

Ferris, Jennifer – Senior Project Archaeologist

Contribution: Cultural Resources Technical Author
Education: MA, Anthropology; BA, Anthropology
Experience: 13 years of experience in archaeology and cultural resources management.

Flathman, Jennifer – Project Architectural Historian

Contribution: Visual Resources and Light/Glare Technical Author
Education: MS, Historic Preservation; BA, Political Science and Women's Studies
Expertise: 12 years of experience in historical preservation, historical structures, planning/design, cultural resources management, and technical writing.

Freeman, Kevin – Strategic Director – NEPA and Energy

Role: Project Sponsor
Education: MS, Geology; BS, Geology

Expertise: 45 years of environmental, geosciences, and geotechnical experience. He has led the preparation of major EIS documents that address oil and gas exploration and development, oil and gas transportation, transmission line development, and power plant siting and construction.

Garner, Lindsey – Project Scientist

Role: Environmental Health Technical Author
Education: PhD, Integrated Toxicology and Environmental Health; BS, Biology
Expertise: 10 years of experience in environmental toxicology, human health and ecological risk assessment, Natural Resource Damage Assessment (NRDA), and NEPA compliance.

Germain, Grace – Project Engineer

Role: Noise Technical Author
Education: BS, Civil Engineering
Expertise: 15 years of experience in environmental regulatory compliance and permitting and impact statements on air quality, climate change, and noise aspects.

Graeber, William – Senior Consultant

Role: Aquatic Resources Technical Author
Education: BS, Fisheries Science
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Hamilton, Lesley – Senior Associate/Environmental Scientist

Role: Air Quality Technical Author
Education: MA, Chemistry
Expertise: 28 years of experience evaluating source emissions, analysis of marine, aviation, aerospace, highway, nonroad and stationary sources, and compliance assessments for air sources.

Harlow, Eric – Senior Project Scientist

Role: Water Resources Technical Author
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Role: Project Assistant
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Role: Project Assistant
Education: MS, Forest Resources; BS, Biology
Expertise: 4 years of experience in data research and acquisition, maintaining project administrative records, and tracking schedules and deliverables.

Leonard, Paul – Technical Director - Water Resources Management

Role: Senior Reviewer
Education: MS, Fisheries; BA, Aquatic Science
Expertise: 25 years of experience as a water resource specialist and recognized national expert in hydroelectric project licensing, NEPA compliance, watershed studies, and instream flow investigations.

Mahacek, Virginia – Senior Geomorphologist

Role: Water Resources Technical Author
Education: MA, Physical Geology; BA, Physical Geology
Expertise: 27 years of experience as a fluvial and soils geomorphologist with an extensive background in research, planning and design, and environmental compliance focused on water resource planning, watershed management, and stream restoration design.

Merickel, Emily – Senior Staff Scientist

Role: Land Use Technical Author
Education: MS, Biology; BS, Fisheries and Wildlife
Expertise: 9 years of experience in environmental risk assessments, biological assessments, and EISs.

Metz, Micca – Consultant

Role: Cultural Resources Technical Author
Education: MS, Biological Archaeology; BA, History
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Nagy, Michael – Senior Consultant

Role: Project Description and Alternatives Senior Reviewer
Education: BS, Natural Resources
Expertise: 38 years of extensive experience in environmental impact assessment, environmental permitting and compliance, NEPA/SEPA documentation, natural resources inventories, and wetlands and wildlife evaluations.

Noel, Lynn – Senior Project Scientist

Role: Terrestrial Vegetation and Wildlife Resources Senior Reviewer
Education: MS, Natural Resources; BS, Biology
Expertise: 28 years of experience conducting research and monitoring projects and preparing biological assessments for endangered species, environmental assessments, and EISs.

Onisko, Stephani – Senior GIS Analyst

Role: GIS Technical Scientist

Education: BA, Geography
Expertise: 12 years of experience in geographic information systems.

Payne, Allison – Geologist

Role: Earth Resources Technical Author
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Roberts, Malini – Technical Editor

Role: Technical Editor
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Expertise: 6 years of experience as a technical editor, including preparation of reader-friendly NEPA EISs and maintenance of administrative records, style guides, and production schedules.

Trexler, Susan – Architectural Historian

Role: Visual and Recreation Technical Author
Education: MS, Historic Preservation; BA, History
Expertise: 2 years of experience in visual and cultural resources management, historic preservation, architectural history, and history.

Troutman, Lori – Senior Staff Scientist

Role: Project Assistant
Education: BS, Zoology
Expertise: 6 years of experience in technical writing, as well as data research, extraction and validation.

Simpson, Katie – Wildlife Biologist

Role: Terrestrial Vegetation and Terrestrial Wildlife Technical Author
Education: MS, Primate Conservation; BA, Biological Anthropology
Expertise: 9 years of experience conducting biological assessments, habitat assessments, biological constraints surveys, vegetation surveys, and focus species surveys.

Stone, Lori – Environmental Scientist

Role: Emergency Response and Training Technical Author
Education: BS, Environmental Biology, Zoology
Expertise: 5 years of experience in spill response and NRDA, including staff training and project coordination,

Alison Uno – Senior Project Scientist

Role: Deputy Project Manager
Education: MS, Sustainable Environmental Management; BS, Marine Biology
Expertise: 10 years of experience in NEPA compliance, project management, environmental management, terrestrial biology, marine and freshwater biology, ornithology, and sustainability.

Weitkamp, Jennifer – Environmental Planner

Role: Aquatic Resources Technical Author
Education: BS, Fisheries Biology
Expertise: 20 years of experience conducting fish passage studies at hydroelectric facilities and preparing Endangered Species Act Section 7 consultation documents and environmental planning documents.

7.3 TRC COMPANIES

Demuth, Kimberly – Cultural Resources/Section 106 National Director

Role: Cultural and Tribal Resources Senior Reviewer
Education: MS, Historic Preservation of Architecture; BA, Fine Arts and Design
Expertise: 31 years of experience in historic preservation of architecture, cultural resource management, and visual resource management, and planning. She has been a senior reviewer for land use, recreation, visual, population and housing, public utilities, and transportation reports for environmental assessment and EIS projects.

Pratt, Jeremy – Vice President and Market Director

Role: Senior SEPA Reviewer
Education: MS, Environmental and Energy Studies; BS, Interdisciplinary Studies
Expertise: 30 years of experience leading large energy projects meeting the requirements of Federal Energy Regulatory Commission (FERC) hydro licensing, NEPA, SEPA, and California Environmental Quality Act (CEQA), the major permitting processes in many Western states. His project experience includes hydroelectric and thermal generation, transmission lines, pipelines, dam removal, watershed planning, water supply planning, and natural resources economics management.

7.4 GOLDR ASSOCIATES INC.

Darby, Chad – Senior Air Quality Consultant

Role: Air Quality and Greenhouse Gas Senior Reviewer
Education: MS, Mechanical Engineering; BS, Physics
Expertise: 23 years of professional experience in the air quality science and engineering field. This includes air quality construction and operation permitting; multi-media compliance auditing; emission source testing; ambient sampling and meteorological station design and installation; pollution control evaluation; historical compliance investigations (New Source Review [NSR]/Prevention of Significant Deterioration [PSD]); dispersion modeling review; and compliance demonstration.

Nishimura, Derek – Senior Aquatic Biologist

Role: Aquatic Resources Reviewer
Education: MSc, Applied Environmental Management; BSc, Marine Ecology
Expertise: 25 years of experience in fisheries research, environmental impact assessment, mitigation and compensation / offsetting design and regulatory review in BC, Yukon and Ontario. He specializes in marine ecology and fisheries, study design, aquatic effects assessment, navigating the environmental assessment and regulatory permitting review processes, and environmental monitoring and management planning.

Warner, Kara – Senior Environmental Scientist

Role: Project Manager
Education: Ph.D., Toxicology; MS, Biology
Expertise: 9 years of project experience with environmental impact assessments, ecological and human health risk assessments, water quality, air quality, permitting, and regulatory compliance. She has supported environmental assessments (EAs) and EISs under NEPA and SEPA, and managed Oregon Energy Facility Siting Council (EFSC) projects that required analysis of impacts to populations and housing, land use, public health and safety, public services, visual resources, cultural resources, recreational opportunities, and natural resources/habitats.

7.5 QUILL CONSULTING

Drew, Emily – Owner

Role: Technical Editor
Education: BS, Biology; BA, English
Expertise: 16 years of experience in technical communications and natural resources in the Pacific Northwest. She has provided field and office support for permitting and compliance projects involving mining, energy facility siting, hydro project licensing, transportation, timber harvest, and compliance with land management agreements. She specializes in large permitting documents, including NEPA and SEPA permitting.

7.6 AUTHORS OF SUPPORTING TECHNICAL REPORTS/PEER REVIEWS

The creation of supporting technical reports and peer review were provided by EnerSource Engineering, AECOM, Environmental Research Consulting (ERC), MainLine Management, Inc., Herbert Engineering Corp, RPS, Kittelson & Associates, Inc., Analysis Group, Inc., BakerRisk, DNV GL, and Maul Foster & Alongi, Inc.

Fire Protection Assessment Report for the Tesoro Savage Vancouver Energy Distribution Terminal (Appendix B):

Company: EnerSource Engineering; Cardno

Evaluation of Seismic Hazards at Proposed Vancouver Energy Oil Export Terminal, Port of Vancouver, Washington (Appendix C.2):

Company: AECOM

Authors: C.B. Crouse, PhD, PE; Martin McCabe, PhD, PE

Crude-by-Rail Spill Risk Analysis for the Proposed Vancouver Energy Distribution Terminal (Appendix E):

Company: Environmental Research Consulting; MainLine Management, Inc.

Authors: Dagmar Schmidt Etkin, PhD; David Hatzenbuehler; Robert G. Patton; and Eric Lyman

Modeling Hypothetical Releases for the Proposed Vancouver Energy Project: An Analysis of Rail, Facility and Vessel Risk (Appendix F):

Company: RPS

Authors: Matthew Horn, PhD; Jill Rowe; Richard Balouskus; Lisa McStay; Jenna Ducharme; Alicia Morandi; Jeremy Fontenault; Deborah Crowley; and Tayeba TajalliBakhsh

Air Quality Technical Analysis (Appendix G):

Company: Maul Foster & Alongi, Inc.

Vessel Spill Risk Analysis for the Proposed Vancouver Energy Distribution Terminal (Appendix J):

Company: Environmental Research Consulting; Herbert Engineering Corp.

Authors: Dagmar Schmidt Etkin, PhD and Colin Moore, PhD

Tesoro Savage Vancouver Energy Distribution Terminal Transportation Impact Analysis (Appendix L):

Company: Kittelson & Associates, Inc.

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Assessment of Vancouver Energy Socioeconomic Impacts: Primary Economic Impacts (Appendix O):

Company: Analysis Group, Inc.

Authors: Todd Schatzki and Bruce Strombom

Facility Siting Study & Quantitative Risk Assessment, Vancouver Energy Terminal, Port of Vancouver, Washington (Appendix S):

Company: BakerRisk

Authors: Kristen Graham; Philip Hodge; and Kelly Thomas

Vancouver Energy Terminal Quantitative Vessel Traffic Risk Assessment (Appendix T):

Company: DNV GL

Authors: Danielle Holden; Cheryl Stahl; Mia Matusiak; Vincent Demay; Cynthia Spitzenberger; and Dennis O'Mara