

# Draft Environmental Impact Statement

## *Horse Heaven Wind Farm*

Chapter 7 - List of Preparers

December 2022

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## 7.0 CHAPTER 7 – LIST OF PREPARERS

This chapter lists the individuals who contributed to the preparation of this Draft Environmental Impact Statement (EIS). It also includes each individual's organization affiliation and a brief description of their professional background.

### 7.1 Washington State Energy Facility Site Evaluation Council

Betts, Patricia – Washington State Environmental Policy Act (SEPA) Specialist

Role: Environmental Impact Statement Guidance and Review  
Education: BS, Zoology  
Expertise: 30 years of experience in SEPA implementation for three Washington State agencies: Department of Ecology (Ecology), Department of Natural Resources, and the Energy Facility Site Evaluation Council (EFSEC). Ms. Betts' SEPA duties included managing state agency SEPA EISs; participating in the development of, reviewing, and commenting on other SEPA and National Environmental Policy Act (NEPA) EISs; interpreting SEPA rules and advising agencies, the public, and applicants; and preparing SEPA guidance, conducting training, and developing SEPA policy.

Chisholm, Sean – Energy Facility Site Specialist

Role: Project Specialist  
Education: BS, Environmental Studies with emphasis in Geography  
BA, History  
Expertise: Over three years of experience working with Washington Department of Ecology in the Toxic Cleanup Program and two land survey field seasons with Bureau of Land Management, Coeur d'Alene, Idaho Office. Mr. Chisholm also has experience with the Washington Department of Fish and Wildlife conducting inspections and collecting data on commercial and sport fisherman's catch, keep and/or release program. In his role with EFSEC, he was the lead Project Manager on the Badger Mountain Solar Energy Project and participated in SEPA reviews and processing site certification permit applications.

Greene, Sean – Environmental Planner

Role: Environmental Impact Statement Guidance and Review  
Education: MS, Environmental Studies; BA, History; BA, Political Science  
Expertise: Over 9 years of experience in the environmental field, including time spent performing environmental and listed species assessments, technical assistance, environmental planning, permitting, and regulatory compliance. Experience coordinating complex interagency project reviews in a variety of regulatory frameworks, including NEPA and Clean Water Act assessments of large transportation and energy facility projects. Previously employed by the Washington State Department of Transportation where he performed surveys, assessments, and relocations to support construction activities.

Hafkemeyer, Ami – Director of Siting and Compliance

Role: Contract Manager & Environmental Impact Statement Review  
Education: BS, Ecology and Evolutionary Biology  
Expertise: Over 14 years of experience working in environmental compliance, having worked as an environmental quality program manager for industry prior to joining the EFSEC staff. She has

experience overseeing Clean Water Act and Oil and Petroleum Act compliance programs. In her role with EFSEC, she oversees technical staff in their implementation of SEPA reviews and permit application reviews to process applications for site certification.

**Moon, Amy – Energy Facility Site Specialist**

**Role:** Project Manager & Environmental Impact Statement Review

**Education:** MS, Biology; BS, Environmental Science.

**Expertise:** Over 17 years as an environmental consultant lead biologist. Duties included environmental surveys, regulatory compliance, permitting, and Program Manager for the wetland and stormwater program. Ms. Moon routinely conducted NEPA analysis and EIS preparation, wetland delineation/permitting/restoration, biological stream surveys, vegetation surveys, sediment and erosion control design and oversight, and Environmental Site Assessments (Phase I & II). Ms. Moon served for six years as the Washington State Department of Ecology's Construction Stormwater General Permit (CSWGP) Writer and as the state lead for the Certified Erosion and Sediment Control Lead (CESCL) program. As an Energy Facility Site Specialist, Ms. Moon is responsible for regulatory compliance for Washington's nuclear power plant, the Columbia Generating Station as well as SEPA environmental reviews and permit application reviews to process site certification applications.

## 7.2 State Agencies

**Office of the Attorney General**

Jonathon Thompson, Assistant Attorney General – Technical Reviewer

**Washington Department of Fish and Wildlife (WDFW)**

Jason Fidorra, Fish & Wildlife Biologist – Technical Reviewer

Michael Ritter, Wind Mitigation Biologist – Technical Reviewer

**Washington State Department of Agriculture (WSDA)**

Kelly McLain, Policy Advisor to the Director – Technical Reviewer

**Washington State Department of Archaeology and Historic Preservation (DAHP)**

Allyson Brooks, State Historic Preservation Officer / Director – Technical Reviewer

Dennis Wardlaw, Transportation Archaeologist – Technical Reviewer

Sydney Hanson, Local Government Archaeologist – Technical Reviewer

Lance Wollwage, State Archaeologist – Technical Reviewer

**Washington State Department of Ecology (Ecology)**

Karl Rains, Regional Planner – Technical Reviewer

Lloyd Stevens Jr., Water Quality Program – Technical Reviewer

Lori White, Shorelands and Environmental Assistance Program – Technical Reviewer

Lynnette Haller, Air Quality Program – Technical Reviewer

Millie Piazza, Program Manager Office of Equity & Environmental Justice – Technical Guidance

**Washington State Department of Natural Resources (DNR)**

Chad Unland, Natural Resource Specialist – Technical Reviewer

Nate Morse, Natural Resource Scientist – Technical Reviewer

Sara Palmer, State Lands Archaeologist – Technical Reviewer  
 Walter Fertig, Botanist – Technical Reviewer

Washington State Department of Transportation (WSDOT)  
 Jacob Prilucik, Development Services – Technical Reviewer  
 Paul Gonseth, Development Services – Technical Reviewer

Washington Utilities and Transportation Commission (UTC)  
 Betty Young, Rail Safety Program – Technical Reviewer  
 Vicki Elliott, Transportation Specialist – Technical Reviewer

### 7.3 Tribes or Tribal Groups

Tribal staff named below provided technical support to EFSEC for the Draft EIS. The input provided does not constitute government-to-government consultation, nor does it indicate the Tribe's position on the proposal.

Confederated Tribes Of The Yakama Nation  
 Jessica Lally, Archaeologist – Technical Reviewer  
 Kyrsten Wolterstorff, Rangeland Biologist – Technical Reviewer  
 Mark Neutzman, Wildlife Biologist – Technical Reviewer

### 7.4 WSP Golder

EFSEC was supported by WSP Golder in preparing the Draft EIS. WSP Golder's team included project management, a range of resource specialists, technical writers, and geographic information system (GIS) analysts.

Akkinepally, Vamshi – Transportation Engineer

Role: Transportation Contributing Reviewer  
 Education: MENG, Civil and Environmental Engineer  
 Expertise: 20 years' experience in transportation systems analysis, transportation planning, travel demand modeling, traffic engineering, traffic operations, and safety.

Auten, Marc – Senior Permitting Specialist

Role: Senior Technical Review for SEPA Compliance  
 Public Health and Safety Contributing Author  
 Education: BS, Environmental Science (Freshwater Ecology)  
 Expertise: 18 years of experience in environmental regulatory consulting and project development. Expertise in federal, state, and local permitting, including National Environmental Policy Act (NEPA) and Washington State Environmental Policy Act (SEPA).

Cadillo, Jimena – Environmental Consultant

Role: EIS Technical Lead  
 Education: MS, Environmental Engineering; BS, Industrial Engineering  
 Expertise: 10 years' experience in management and administration of environmental projects and proposals related to the infrastructure, energy, and mining sectors. Supported US Government Sector activities like business development initiatives, strategic client development and financial planning. Also experienced in Project Controls functions such as cost controls, scheduling, forecasting, and progress and performance analysis.

**Cook, Amy – Editor**

**Role:** Technical Editor  
**Education:** Ph.D., English Literature, BA, Linguistics  
**Expertise:** 20-year background in technical and academic writing and editing spans academic book manuscripts, scientific journal articles, and a wide variety of research reports and plans in the environmental sciences. She has experience developing reports associated with environmental permitting for a variety of energy projects, as well as hazardous waste site investigations, remedial action planning documents, and emergency management and response operations for both private-sector and government clients.

**Gamble, Don – Environmental Lead Consultant**

**Role:** Water Resources, Vegetation, and Wildlife and Habitat Technical Reviewer  
**Education:** Master of Natural Resource Management; BSc, Physical and Resources Geography  
**Expertise:** 31 years of project management experience, with a specialization in environmental impact assessments (EIAs), regulatory review processes, environmental permit applications, and mitigation and environmental management plans for hydroelectric, oil and gas, mining, transportation, and municipal infrastructure projects.

**Harmening, Sierra – Senior Project Scientist**

**Role:** SEPA Compliance and Consistency Reviewer  
Recreational Technical Author  
Transportation Technical Author  
**Education:** MS, Environmental Law and Policy; BS, Management in Technology  
**Expertise:** Over 15 years of lands permitting, environmental consulting, and mine site management experience. Her experience includes the management and preparation of documents for permit renewals, closure planning, closure cost estimation, National Environmental Policy Act (NEPA) analysis, and compliance monitoring plans.

**Hill, Sophie – Engineering Geologist**

**Role:** Earth Resources Contributing Author  
**Education:** Ph.D., Engineering Geology (Rock Mechanics); MEdSci, Geology  
**Expertise:** Two years' experience with a background in rock mechanics, with an emphasis in experimental rock deformation.

**Hindley, Gabrielle – Environmental Scientist**

**Role:** Vegetation and Water Resources Technical Author  
**Education:** MSc Ecological Restoration; BS, Biology  
**Expertise:** Four years of project experience in planning and executing field programs, Terrestrial Ecosystem Mapping, research, ecological restoration, and vegetation monitoring. She also has experience conducting wildlife surveys, environmental monitoring, and designing mitigation.

**Hobson, Alice – Cultural Heritage - Environmental and Social Consultant**

**Role:** Historic and Cultural Resources Technical Author  
**Education:** MA, Cultural Heritage Studies; BA, Archaeology and Geography  
**Expertise:** 12 years' experience on a range of urban and rural sites, applying her knowledge of local and national legislation to identify and manage cultural landscapes, historic buildings,

archaeological sites and artifacts, intangible heritage, and locally sacred sites. She specializes in survey reconnaissance, including community interviews, to fully capture all elements of the cultural heritage resource.

Hull, Alan – Senior Practice Leader

Role: Earth Resources Technical Reviewer  
Education: Ph.D., Geological Sciences; MSc, Geology; BSc, Geology  
Expertise: Over 40 years of project experience focusing on earthquake hazard assessment and incorporating seismically active faults into engineering analysis and design.

Jackson, Heather – Senior Project GIS Analyst

Role: GIS Analyst  
Education: MA, Geography; BA, Geography  
Expertise: 18 years of experience in GIS analysis.

Kosky, Ken – Program Leader

Role: Noise and Vibration Technical Reviewer  
Education: MS, Environmental Engineering; BSE, Ocean Engineering  
Expertise: Over 50 years of project experience with power plants, industrial facilities, and agricultural activities involving air quality. He provides oversight on permitting and licensing activities, including emissions estimates and impact analyses. Has experience with pollution control quality issues and noise for a variety of electrical power, industrial, and mining activities.

Mason, Andrew – Cultural Heritage Specialist

Role: Historic and Cultural Resources Technical Reviewer  
Education: MA, Anthropology; BA, Anthropology  
Expertise: Over 30 years of project experience, often within an environmental assessment framework (power, mining, and transportation sectors). He has successfully completed cultural resources overview assessments, inventories, impact assessments, mitigation programs, due diligence reviews, UNESCO World Heritage Site nomination dossier reviews, and policy studies.

Miller, Gage – Senior Environmental Scientist

Role: Noise and Vibration Technical Author  
Education: BS, Environmental Science  
Expertise: 22 years of noise-related experience, including noise modeling, sound propagation calculations, sound level field measurement, assessments, impact analysis, mitigation analysis, and providing expert testimony. He has experience in performing noise impact assessments in support of permitting activities at the state level and EIAs in support of large domestic and international projects.

Moss, Kate – Terrestrial Biologist

Role: Wildlife and Habitat Technical Author  
Education: BSs, Biology  
Expertise: 16 years of experience designing, managing, and conducting bio-inventories, biodiversity studies, invasive species studies, wildlife salvages, Species at Risk surveys, impact assessments, and habitat compensation/ mitigation design. She has been involved in

conducting baseline surveys for amphibians, birds, terrestrial gastropods and mammals, annual population monitoring, and relative abundance analysis.

**Muschal, Marlis – Archaeologist**

**Role:** Historic and Cultural Resources Technical Author  
**Education:** MS, Social Science/Sociology; BS, History  
**Expertise:** 12 years' experience conducting fieldwork and/or Section 106 of the National Historic Preservation Act compliance across the United States. She has contributed to the National Register of Historic Places (NRHP) evaluation of a variety of precontact and historic archaeological sites. In the field, she has led field crews and is experienced in archaeological survey, excavation, and monitoring. She is also experienced in archaeological site recording using professional-grade GPS units (Trimble GeoExplorer Series), photo documentation, and detailed site sketch maps.

**Nazarnia, Naghmeh – Environmental Planner**

**Role:** Socioeconomics Contributing Author  
**Education:** MSc, Geography, Urban, and Environmental Studies; BA, Architecture  
**Expertise:** 8 years of experience in designing and implementing urban and environmental planning and assessment projects. Skilled in social, land use and quality research, data collection, impact analysis and management planning for large and small projects in mining, oil and gas, power, and sustainable energy projects. She has supported the preparation of land use, marine use, visual quality and stakeholder engagement, and indigenous rights and interest chapters of Environmental Assessment Applications.

**Paris, Jeremy – Senior Environmental Planner**

**Role:** Project Manager  
 SEPA Compliance and Consistency Reviewer  
 Energy and Natural Resources Technical Author  
 Land and Shoreline Use Technical Author  
 Public Services and Utilities Technical Author  
 Socioeconomic Technical Author  
**Education:** MS, Biological Sciences; BS, Biological Sciences  
**Expertise:** 17 years of professional consulting experience leading projects in support of the energy, maritime, transportation, and government sectors. He has prepared high-level NEPA documents, Endangered Species Act Biological Assessments, International Finance Corporation Performance Standards compliant Environment and Social Impact Assessments, California Environmental Quality Act compliant documents, and Master Plans for water quality improvement programs.

**Stein, David – Practice Leader, Environmental Planning and Permitting**

**Role:** Air Quality Technical Author  
**Education:** MS, Environmental Engineering; BS, Environmental Engineering; BS, Biological Sciences  
**Expertise:** Over 40 years of environmental management and permitting experience working with major gas and electric utilities, independent power plant developers (both renewable and fossil), major oil and petrochemical conglomerates, refiners, chemical plants, mining facilities, and various other industries. An air quality specialist with experience with air quality districts



providing regulatory and rulemaking strategy and advocacy, technical support, permit procurement and compliance support, and expert witness testimony.

Stevens, Kathryn – Project Coordinator

Role: Deputy Project Manager  
 Education: BA, Communications  
 Expertise: 20 years of administrative and environmental experience on large-scale projects, reports, quality control, comment responses and tracking, outreach coordination, administrative records, and research.

Warner, Kara – Senior Lead Consultant

Role: SEPA Compliance and Consistency Reviewer  
 Public Health and Safety Technical Author  
 Education: Ph.D., Toxicology; MS, Biology  
 Expertise: 14 years of project experience with EIAs and regulatory compliance. She has supported environmental assessments and EISs under NEPA and SEPA in Washington and Oregon, and managed Oregon Energy Facility Siting Council 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 SWCA Environmental Consultants

Johnson, Craig – Senior Environmental Project Manager

Role: Visual Aspects Technical Reviewer  
 Education: BLA, Landscape Architecture  
 Expertise: 25 years' experience on a variety of projects, including wind, solar, and battery storage facilities, large-scale transmission lines and pipelines, and transportation assessments. He has comprehensive knowledge of the visual resource methodologies and techniques employed by the Bureau of Land Management (BLM), U.S. Forest Service (USFS), and Federal Highway Administration.

Rauhe, Kevin – Environmental Planner

Role: Visual Aspects Technical Author  
 Education: BLA, Landscape Architecture  
 Expertise: Nine years' experience with a background in landscape architecture specializing in visual resources, National Scenic and Historic Trails, land uses, recreation, wilderness, and specially designated federal lands. He has developed interdisciplinary methodologies to analyze National Scenic and Historic Trails and visual resources for linear projects through coordination with BLM, USFS, National Park Service, and state and local governmental staff.

## 7.6 Tetra Tech

Crookston, John – Biologist

Role: Purpose of Action Contributor  
 Education: MS, Ecology; BS, Biology  
 Expertise: 20 years of experience in federal, state, and local environmental permitting.

Fossum, Linnea – Senior Manager

Role: Purpose of Action Contributor

Education: MS, Environmental Engineering and Science; BA, Mathematics

Expertise: Over 25 years of experience in federal, state, and local environmental planning, permitting, environmental site investigations and remedial actions.

## **7.7 Authors of Supporting Technical Reports**

The development of supporting technical reports was provided by Golder Associates Ltd., a member of WSP, and SWCA Environmental Consultants.

### **Wind Turbine Wildlife Collision Risk Assessment, Horse Heaven Wind Farm**

Company: Golder Associates Ltd.

Authors: Ilya Povalyaev, RPBio; Kate Moss, RPBio; and Don Gamble, RPP, MCIP, RPBio

### **Horse Heaven Wind Farm Project, Final Visual Impact Assessment Report**

Company: SWCA Environmental Consultants

Authors: Kevin Rauhe; Craig Johnson, PLA