



WHISTLING RIDGE ENERGY LLC
JEFF WALKER
RÉSUMÉ
EXHIBIT NO. 4.01

Jeff Walker, PWS

Botanist and Wetland Biologist

Overview

Mr. Walker has more than fourteen years of experience as a botanist and over ten years of experience as a wetland biologist. He has directed vascular and nonvascular plant surveys, performed monitoring of rare plant populations, and conducted noxious weed surveys. He has conducted wetland delineations and reconnaissance investigations throughout the Pacific Northwest and successfully acquired wetland and environmental permits and approvals for numerous large and small projects. Mr. Walker has designed, inspected, and monitored several wetland mitigation projects. He has experience writing NEPA and SEPA EIS documents, as well as working with Best Available Science and Critical Areas updates. He has also conducted ESA consultations for large projects regarding federal- and state-listed Threatened and Endangered species. Mr. Walker develops wetland reports, biological assessments, impact assessments, compensatory wetland mitigation plans, monitoring reports, conservation assessments, and vegetation restoration plans.

Areas of Expertise

Botany
Wetland Biology
Threatened & Endangered Species
Project Management
NEPA, SEPA, and ESA
Compliance

Years of Experience

With URS: 10 Years
With Other Firms: 4 Years

Education

BS/Botany and Environmental
Studies/1995/University of
Washington
Wetland Science and Management
Certification/2000/University of
Washington

Registration/Certification

2005/Professional Wetland
Scientist

Project Specific Experience

Task Manager, I-90 Snoqualmie Pass East Project, Kittitas County, Washington, Washington State Department of Transportation. Task manager for wetland work associated with the I-90 road improvements between Hyak and Easton. The road improvements would ease traffic congestion, replace deteriorating pavement, improve safety by realigning the road away from sharp curves and unstable slopes, and connect habitat via wildlife bridges. The project area includes the shores of Keechelus Lake and numerous tributaries to the Yakima River. Work on this project included preparing a wetland report, mitigation site assessment, and mitigation plan. Field work included wetland delineation, wetland rating and functions assessment, and ordinary high water mark determinations on numerous permanent and seasonal streams. Currently assisting WSDOT with mitigation design. Also assisting the WSDOT state horticulturalist and Okanogan-Wenatchee National Forest botanists in the researching, identifying and collecting plant materials for the mitigation sites, which must comply with strict genetic provenance standards.

Project Manager and Survey Lead, Vegetation Surveys, 34 Western Washington Parks, Washington State Parks and Recreation Commission. Project Manager and survey lead for vegetation surveys in selected state parks in western Washington. The vegetation survey work included vegetation community mapping, rare plant surveys, noxious weed surveys, and identification of restoration opportunities. Produced a survey report for each park and a GIS database and shapefiles of all data collected in the field. The project included field work in remote areas, GPS navigation and data collection, and identification of over 500 different plant species. The selected state parks include several large,



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diverse properties such as Deception Pass, Beacon Rock, Mount Pilchuck, and Moran State Parks.

Project Manager and Survey Lead, Golden Paintbrush Vegetation Community Monitoring, Fort Casey, Island County, Washington State Parks and Recreation Commission. Project Manager and survey lead for vegetation monitoring project. Fort Casey State Park contains a naturally-occurring population of golden paintbrush (*Castilleja levisecta*). In recent years, the Washington State Parks and Recreation Commission (WSPRC) began efforts to enhance the golden paintbrush population by augmenting it with new plants and testing several vegetation control methods. As part of these enhancement efforts, the WSPRC hired URS Corporation to measure the distribution and cover of common plant species at Fort Casey State Park and to measure in detail the composition and cover of plant species immediately surrounding select golden paintbrush individuals. Completed the monitoring and a report that included methodology, observations, and recommendations for future monitoring and augmentation activities.

Biologist, NOAA Marine Operations Center – Pacific Homeport Site Alternatives Environmental Assessment, Oregon and Washington, NOAA. Prepared the Flora and Fauna and Wetland and Navigable Waters sections of the Environmental Assessment. Tasks included conducting site visits; reviewing site information packages; and researching man-made wetland jurisdictional issues. Four sites were analyzed in the document: Port Angeles, Bellingham, and Lake Union (Seattle) in Washington and Newport in Oregon.

Biologist, On-call Permitting and Environmental Services, FEMA Region X, Washington, FEMA. Prepared Fish and Wildlife sections of four Environmental Assessments for Pre-Disaster Mitigation Contracts. The mitigation contracts were for vegetative fuels reduction projects in southern Idaho. Species considered in the sections included Canada lynx, grizzly bear, northern Idaho ground squirrel, Ute ladies'-tresses, and migratory birds.

Botanist, Twelve Mile Coulee Creek Study, Alberta, Canada, Orica Carseland Works. Completed a biological impact study of Twelve Mile Coulee as part of a greater risk management and groundwater remediation plan for the facility. Work included surveying and analyzing the plant community in the area of groundwater contamination. Visual impacts were documented and the area was compared to reaches upstream and downstream of the site. Plant composition, diversity, and relative health were observed and additional monitoring activities were recommended.

Biologist, Mist Pipeline Emerald Phase, Mist, Oregon, Northwest Natural Gas. Conducted wetland, vegetation, and habitat surveys for expansion project. Assisted in preparation of permit documentation.



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Biologist, Skagit County Transfer Station Improvements, Skagit County, Washington. Conducted a wetland delineation for improvements to the transfer station. Helped the project engineers modify their design to avoid wetland fill and therefore lengthy permit acquisition.

Biologist, Cherry Point Cogeneration Project, Whatcom County, Washington, BP Cherry Point Refinery. Delineated wetlands on proposed cogeneration facility site and on proposed mitigation areas. Surveyed and assessed the coverage of reed canarygrass (*Phalaris arundinacea*), an invasive weed, on the mitigation areas. Information was used to determine which weed control method to use in each area. In addition, completed permit application for Whatcom County grading and clearing permit for geotechnical investigations. Created restoration planting plans and coordinated the initial planting efforts for the winter of 2009.

Project Manager and Biologist, Home Depot Development, Port Orchard, Kitsap County, Washington, Home Depot. Project Manager for wetland permitting activities for proposed Home Depot commercial development. Prepared JARPA application package including mitigation plan. Negotiated mitigation ratios and mitigation design elements with the Army Corps of Engineers and Washington State Department of Ecology staff.

Biologist, Wetland Delineation and Critical Areas Report, Kent, Washington, Univar Rail Development. Delineated wetlands and managed critical areas report for a small rail expansion project in Kent.

Biologist, Whistling Ridge Energy Project, Skamania County, Washington, SDS Lumber. Assisted in development of the Application for Site Certification for wind project in the Columbia River Gorge area of Washington State. Tasks included compiling vegetation and habitat sections as well as conducting wetland, habitat, and vegetation surveys.

Biologist, Outfall Improvement and Ditch Maintenance, Kent, Washington, Davis Wire. Assessed jurisdictional ditch and made recommendations regarding permit requirements for ditch maintenance activities. Completed memorandum describing the “non-reporting” fill for replacement of outfall into the ditch.

Project Manager and Biologist, Residential Development, Seattle, Washington, United Property Investments. Conducted critical area site investigation on two parcels on Martin Luther King Jr. Way South in Seattle. City staff noted concerns that the parcels may contain wetlands or buffers. Identified wetland on adjacent parcel and determined that buffers would not extend onto the subject parcels. Documented findings for submittal to the City of Seattle.



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Task Manager, Elwha River Restoration, Clallam County, Washington, Bureau of Reclamation and National Park Service.

URS provided wetland services for the Elwha River Restoration Project to aid the Bureau of Reclamation in obtaining wetland permits for the removal the Elwha and Glines Canyon dams on the Elwha River. Task manager for delineation of wetlands and other jurisdictional waters in over 20 construction project areas associated with the dam removal. These projects are located throughout the lower Elwha watershed and include areas within the Lower Elwha Klallam Reservation and Olympic National Park. As part of this project, we identified and assessed wetlands in a variety of hydrogeomorphic classes, including estuarine, riverine, lake-fringe, depressional, and slope wetlands. The work was performed to meet permitting requirements of the U.S. Army Corps, Washington Department of Ecology, and Clallam County. Our tasks also include assessing the functions of the wetlands within the Elwha River floodplain that will be affected by the sediments released after dam removal.

Project Manager and Biologist, Rail Car Logistics Improvement Project, Anacortes, Skagit County, Washington, Tesoro Refining and Marketing Company.

Completed jurisdictional waters delineations on the Tesoro Anacortes Refinery campus. Conducted analysis of “relatively permanent waters” drainages on the refinery campus. Gave guidance on the permitting process to refinery staff.

Biologist, South Hill Pump Station, Pierce County, Washington, Pierce County Public Works and Utilities. Conducted a wetland reconnaissance and analysis of “significant trees”, a Pierce County requirement, for a proposed pump station and outfall. The site is located within the floodplain of the Puyallup River.

Biologist, Pipeline 5 Pilchuck River Crossing, Snohomish County, Washington, City of Everett Public Works. Conducted a jurisdictional waters delineation for a proposed pipeline crossing. The project area includes the Pilchuck River and adjacent properties.

Project Manager and Biologist, EOC Building, Anacortes, Skagit County, Washington, Tesoro Refining and Marketing Company. Conducted a site visit to analyze critical areas issues for a new proposed building on the Tesoro Refinery campus.

Biologist, Former Gun Club Site, Eugene, Oregon, Davidson Industries. Wrote memorandum detailing presence of special status plants and ESA critical habitat on former gun club site.

Project Manager and Biologist, Peach Arch Port of Entry Redevelopment, Blaine, Washington, US General Services Administration. Project Manager for wetland delineation and wetland permitting assistance redevelopment of the Peach Arch Port of Entry within the City of Blaine. The new redevelopment project was designed to



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solve inefficiencies of the current layout as well as minimize potential impacts on Peace Arch State Park. Completed a wetland delineation, wetland report, and JARPA. Challenges included conducting field work during an extreme winter and examining jurisdictional issues surrounding the federal ownership of the land.

Biologist, DD6 Emergency Dike Repairs, Snohomish County, Washington, City of Everett Public Works. In December 2006 the DD6 dike was damaged in many areas. Emergency repairs to Ebey Slough dike were completed at the end of February 2007. Completed an impact assessment for the emergency repair work, estimating the amount of additional fill placed below the OHWM of Ebey Slough on one side of the dike and the wetland on the other side. Also assisted in preparing the JARPA and Biological Assessment for the emergency repairs and proposed repairs to the tide gates, which were also damaged in the floods.

Biologist, Comprehensive Stormwater Management Plan Update, Island County, Washington, City of Langley. Investigated several sites within the city limits to determine the presence of wetland issues and constraints. Prepared brief field summary report describing the sites and synthesizing the results of several reports submitted to the City by other consultants.

Biologist, Former Sports Club Property, Everett, Washington, Boeing Commercial Airplanes. Investigated parcel for jurisdictional waters including wetlands, streams, and ditches. Researched the jurisdictional nature of the stormwater ponds on the site. Determined the regulatory requirements for proposed flightline expansion project on the site.

Project Manager and Biologist, Eaglemont Substation, City of Mount Vernon, Washington, Puget Sound Energy. Project Manager for wetland reconnaissance and Phase I ESA site investigation on a property under consideration for a substation. Led the wetland reconnaissance efforts including producing a report discussing the on-site environmental conditions and the nearest critical areas.

Biologist, 5 Line Pipeline Protection, Snohomish County, Washington, City of Everett Public Works. Assisting the City of Everett in identifying practicable design alternatives for protection the 5 Line water pipeline. Alternatives include different dike footprints and the possibility of a large area of wetland restoration and enhancement in the Snohomish estuary.

Biologist, Heavy Mineral Sands Project, Coos Bay, Oregon, Oregon Resources Corporation. Conducted wetland delineations and OHWM identification in several areas proposed for mining heavy mineral from sand deposits. Work included navigation in second-growth forests, clearcuts, and dense gorse (non-native shrub) stands. Task lead for rare plant surveys which focused on the western lily (*Lilium occidentale*).



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Completed a botanical survey summary report which was used as part of the ESA consultation documentation.

Project Manager and Biologist, Semiahmoo Substation, Whatcom County, Washington, Puget Sound Energy. Project Manager for wetland reconnaissance and Phase I ESA site investigation on two potential properties for a substation. Led the wetland reconnaissance efforts and identified multiple forested and herbaceous wetland communities on each site. Task included report discussing the development constraints from wetlands and buffers. The report was used to determine which site would be easier to permit.

Project Manager and Biologist, Timberline Ridge Tree Investigation, Sammamish, Washington, Private Residential Client. Project Manager and technical lead for investigation of dying trees in Timberline Ridge housing development. Conducted a site visit to document the existing conditions on two parcels that contained an increasing amount of water and dying trees. Completed a technical memorandum that described the findings from the site visit and recommended possible next steps for resolving the problem.

Biologist, Beebe Springs Natural Area Development, Chelan County, Washington, Washington Department of Fish and Wildlife. Assisted the Washington Department of Fish and Wildlife in design of 43.13 acre public park. The site is located upstream of the Highway 97 Beebe Bridge, adjacent to the Columbia River. Completed a vegetation community assessment and wetland delineation of the site. Completed a wetland report and contributed to design memorandum and JARPA. Also investigated the feasibility of funding future phases of the project by establishing a mitigation bank, comprehensive mitigation area, or fee-in-lieu program.

Task Manager and Biologist, Maralco Redevelopment Project, Kent, Washington, Brown Dog LLC. Completed JARPA permit package for redevelopment of an urban property with aluminum dross (industrial waste) stockpile. Washington State Department of Ecology started clean-up activities on the site, but ran out of money before finishing the project. Part of the clean-up involved altering the hydrology of the site. Completed wetland delineation and mitigation plan for the project. Wetland delineation included researching jurisdictional issues in regards to man-made ditches and alterations to the hydrology.

Project Manager and Biologist, Anacortes Coker Project, Skagit County, Washington, Tesoro Refining and Marketing Company. Completed wetland delineations at four locations for a new coker facility and associated staging and flare areas on the Tesoro Anacortes Refinery campus. Assisted refinery personnel in avoiding the need for a wetland permit by avoiding impacts to wetlands, buffers, and jurisdictional "Talent" ditches.



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Task Manager and Principal Investigator, West Eugene Parkway, Eugene, Oregon, Oregon Department of Transportation. Task manager and principal investigator for special status plant and noxious weed surveys along proposed transportation alignment alternatives. Project vicinity contains rare wet and upland prairie habitats and several known sites of federal and state listed plant species. Work included designing survey protocol, directing survey crew, technical identification of numerous species, and GPS mapping of target species. Management of this task also included coordinating with various federal, state, and local agencies including the Bureau of Land Management and City of Eugene. Prepared the Rare Plant and Noxious Weed Technical Memorandum. Also assisted in preparation of the Biological Assessment and conducting ESA consultation for both state and federal listed plant species.

Biologist, Wemme to Lolo Pass Road Improvements, Clackamas County, Oregon, Oregon Department of Transportation. Assisted in botanical survey for road widening project. Searched project area for both special status plant species and noxious weeds. Found and marked populations of spotted knapweed (*Centaurea maculosa*).

Biologist, Muckleshoot K-12 School Project, King County, Washington, Muckleshoot Reservation. Conducted wetland delineation for tribal school project. Wrote wetland delineation report to be included in the Environmental Assessment for the project.

Biologist, Buckhorn Mine EIS, Okanogan County, Washington, Washington Department of Ecology. Prepared wetland and vegetation EIS technical sections for proposed mine. Vegetation technical report included discussions of rare plants, noxious weeds, forest resources, and plants of cultural importance. Responded to comments on the vegetation EIS section. Also performed fieldwork and research to identify impacts from the project to wetlands.

Biologist, Crescent Bay Sewage Lagoon, Island County, Washington, City of Oak Harbor. The Navy proposed a restoration of the Crescent Bay marsh that surrounds the Oak Harbor wastewater treatment plant by opening up the main tidal channel to permit greater tidal mixing and fluctuation. At the City's request, conducted a vegetation evaluation to investigate how the plant community will change in Crescent Bay marsh after restoration and if there will be an extensive mudflat.

Biologist, Sediment Removal in Powder Mill Creek Corrective Action Program, Everett, Washington, Boeing Commercial Airplanes. Designed and oversaw implementation of planting plan for remediation of contaminated stream reach. Design included plantings in restored stream channel, steep slopes, and existing riprap. Wrote planting, seeding, and erosion control specifications. Also assisted in electrofishing stream reach, stream habitat characterization, and marking Ordinary High Water Mark in the field.



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Project Manager and Biologist, Perry Avenue Residential Development, Kitsap County, Washington, Private Residential Client. Conducted a wetland delineation on a proposed development property north of Bremerton. Elettrofished stream to determine fish presence. Wrote critical areas report that addressed site constraints on the property and mitigation plan design to compensate for impacts to wetland and stream buffers.

Task Manager and Biologist, Pacific Mountain Energy Center, Kalama, Washington, Energy Northwest. Task manager for biological resources portions of Application for Site Certification (ASC) for 650 MW gas-fired power plant. Identified and delineated wetlands along proposed railroad spur and natural gas pipeline route. Conducted vegetation community analysis along both routes as well as the plant site. Completed wetland report and EFSEC ASC sections.

Task Manager and Biologist, Bradwood Landing Pipeline, Oregon and Cowlitz County, Washington, Clatsop and Columbia Counties. Task manager for special status plant surveys for natural gas pipeline. Surveyed for known Nelson's checker-mallow (*Sidalcea nelsoniana*) populations. Documented new locations for two rare plant species: western wahoo (*Euonymus occidentalis*) and loose-flowered bluegrass (*Poa laxiflora*). Wrote botanical report for project and made mitigation recommendations. Also assisted with wetland delineation.

Project Manager and Biologist, Stewart Residential Development, Pierce County, Washington, Private Residential Client. Completed a wetland delineation of a proposed drug lab cleanup and residential redevelopment in Pierce County. The property also contains two streams, which are considered fish and wildlife habitat conservation areas in Pierce County. Gave guidance to client on buffer requirements for both wetlands and other critical areas.

Biologist, Potential Refinery Expansion, Whatcom County, Washington, ConocoPhillips Ferndale Refinery. Completed wetland delineation and reconnaissance investigations on several parcel on the ConocoPhillips Ferndale Refinery campus. The parcels are areas of possible future development. The field investigation included areas with forested, scrub-shrub, and emergent wetlands as well as fish and wildlife conservation areas.

Biologist, KinderMorgan Ferndale Facility, Whatcom County, Washington, KinderMorgan. Conducted a wetland investigation for a proposed expansion of a natural gas pipeline facility. Completed SEPA checklist sections regarding vegetation, wildlife, and critical areas.

Biologist, Cherry Point Cogeneration Project Cultural Plant Survey, Whatcom County, Washington, BP Cherry Point Refinery. Conducted cultural plant survey for cogeneration facility impact site and mitigation areas. Survey consisted of traversing the project area with elder



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of the Lummi Nation to identify plants with traditional medicinal, utility, and food value. In collaboration with the Tribe, wrote report documenting findings.

Biologist, Commercial Development Project, Clark and Lewis Counties, Washington, Confidential Client. Provided expert review and due diligence assistance for a commercial development project. Reviewed biological resource sections of the DEIS for deficiencies. Also investigated potential alternative sites not included in the DEIS for wetland and habitat constraints. Found northernmost occurrence of a state threatened plant, coyote thistle (*Eryngium petiolatum*), on one of the potential alternative sites.

Biologist, Tongue Point Landfill Remedial Design, Clatsop County, Oregon, US Army Corps of Engineers. Aided in the remedial design for a former landfill at the former Tongue Point Naval Air Station located on the Columbia River near Astoria, Oregon. Assisted with the restoration design of aquatic habitat in the nearshore area. Inspected damage to nearshore wetland restoration area after 2005/6 winter storms. Recommended actions to repair the area and protect it from further damage.

Biologist, Refinery Lab Building, Whatcom County, Washington, ConocoPhillips Ferndale Refinery. Completed a wetland determination of wetland adjacent to a site proposed for construction of a refinery lab. Flagged wetland boundary in the field and wrote letter summarizing findings for submittal to Whatcom County.

Biologist, North Bend Park and Ride, North Bend, Washington, City of North Bend. Conducted a wetland delineation and "Talent" ditch survey for a proposed park-and-ride lot in the City of North Bend. Completed a critical areas study covering wetlands, floodplain, stream, and fish and wildlife conservation areas.

Biologist, White River Power Plant, Sumner, Washington, NESCO. Conducted site visit on parcel proposed for development of a gas-fired power plant. Analyzed potential wetland and wildlife issues. Researched city code for habitat management plan requirements. Completed SEPA Checklist and Exhibit IV document sections.

Biologist, Residential Development, Kitsap County, Washington, Seabeck. Conducted a wetland determination for a residential development in Kitsap County. Per County's request, the wetland boundary was flagged and a letter report was prepared rating the wetland and documenting the field conditions.

Biologist, Spanaway Home Depot, Pierce County, Washington, Home Depot. Conducted site visit to assess potential Oregon white oak woodland critical area. This work included measuring the dbh of large oak



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trees and estimating the size of the oak stand. Made recommendations to client regarding the code requirements and site development constraints.

Biologist, Refinery Development Site #3, Whatcom County, Washington, ConocoPhillips Ferndale Refinery. Conducted a wetland delineation on a potential development site on the ConocoPhillips Ferndale Refinery campus. Researched “Talent” ditch issues associated with the site. Discussed potential mitigation opportunities. Completed wetland delineation report.

Biologist, Wetland Evaluation, SeaTac, Washington, AMB. Reviewed two conflicting wetland reports for site along a planned WSDOT transportation corridor. Conducted site visit and made recommendations to client regarding the dispute.

Biologist, Upper Garden Gulch Road Repair Project Biological Assessment, Nez Perce County, Idaho, FEMA. Contributed to Biological Assessment and analyzed impacts from project to Spalding’s catchfly (*Silene spaldingii*) for a road rehabilitation project.

Biologist, Old Stilly Flood Drainage Gate Biological Assessment, Snohomish County, Washington, FEMA. Assisted preparing a Biological Assessment for pre-disaster mitigation project. The Old Stilly Flood Drainage Gate would correct the current drainage problem which results in the detention of millions of cubic feet of floodwater trapped between the hillside and the river levees, with no significant exit.

Biologist, Clark County Flood Protection Wall Biological Assessment, Clark County, Washington, FEMA. Assisted in preparing a Biological Assessment for pre-disaster mitigation project. The 36th Avenue Sanitary Sewer Pump Station Flood Protection Wall would involve building a flood protection wall to protect critical sanitary sewer service and prevent raw sewage overflows into Salmon Creek. If the pump station flooded, raw sewage could back up in the line and potentially 13.4 gallons per day of raw sewage could overflow into Salmon Creek and the adjacent wetlands.

Biologist, Proposed Industrial Facility, Ferndale, Washington, Confidential Client. Identified critical areas that constrain the siting of an industrial facility. Conducted 700-acre wetland reconnaissance to verify an out-of-date wetland delineation. Prepared a Wetland Reconnaissance Report and addressed opportunities and constraints of multiple suggested location alternatives.

Biologist, Electrical Substation, Whatcom County, Washington, BP Cherry Point Refinery. Conducted wetland delineation for proposed electrical substation on the BP Cherry Point Refinery campus. Work also included characterizing soils for the geotechnical investigation.



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Biologist, Snohomish County Critical Areas Regulations Update EIS, Snohomish County, Washington, Snohomish County. Assisted in writing biological sections of EIS to update critical areas regulations. Also provided Best Available Science (BAS) expertise and helped develop the No Action and Action alternatives for the EIS. The regulations update will include innovative approaches to critical areas regulation in the state.

Biologist, Ordot Dump Closure, Guam, Ordot-Chalan Pago Municipality. Researched and recommended plants adequate for design of landfill cap. Determined if the species had potential to negatively impact environment. The plant species recommendations included sterile vetiver grass (*Vetiveria zizanioides*) for the benches and sponge luffa (*Luffa cylindrica*) for the slopes.

Biologist, Refinery Expansion Wetland Reconnaissance, Anacortes, Skagit County, Washington, Tesoro Refining and Marketing Company. Conducted wetland reconnaissance on selected sites at the Tesoro Anacortes Refinery campus. Identified potential wetland concerns for future facility expansion projects.

Biologist, Water Transmission Pipeline River and Slough Crossings Emergency Repair Project, Snohomish County, Washington, City of Everett Public Works. Conducted delineation of tidally-influenced freshwater wetlands adjacent to the Snohomish River and Ebey Slough as part of an emergency water pipeline repair project. Aided the City of Everett in efforts to acquire after-the-fact wetland permit for the emergency repair project.

Biologist, Best Available Science Review, Snohomish County, Washington, City of Lake Stevens. Conducted a best available science review for the City of Lake Stevens. Researched the latest technical documents on wetland ratings, buffers, and mitigation and applied that information to make recommendations for modifications to the City's critical areas ordinance. Project also included characterizing the wetlands within the entire jurisdiction.

Task Leader and Principal Investigator, Juneau Access Improvements Project, Alaska, Alaska Department of Transportation. Task leader and principal investigator for special status plant surveys along proposed transportation corridor through the Tongass National Forest. Survey sites were remote and required travel via helicopter and navigation with Global Positioning System (GPS). Completed a Biological Evaluation for Forest Service Sensitive Species with potential to occur along the alternative alignments. Also produced Vegetation Technical Memorandum detailing the methodology and results of the botanical survey including discussion of noxious weeds and other special status plants.

Project Manager and Biologist, West Seattle Residential Development, Seattle, Washington, Private Residential Client.



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Conducted wetland delineation and prepared wetland report for proposed short plat. The wetland on the subject property is urban wetland that contains historical fill material. Successfully assisted landowner in City of Seattle critical areas review of the property. Prepared a wetland buffer planting plan for the project.

Biologist, Gas Pipeline Emergency Repairs, Whatcom County, Washington, BP Cherry Point Refinery. Assisted in acquiring an after-the-fact permit for emergency gas pipeline repairs and soil remediation. Assessed damage to wetland areas adjacent to the pipeline leak and contacted agencies regarding permitting the clean-up activities.

Project Manager and Botanist, Northern Grass-of-Parnassus Conservation Assessment, Mason, Jefferson, and Grays Harbor Counties, Washington, Olympic National Forest. Prepared conservation assessment for a rare plant species. The conservation assessment included discussion of the species' taxonomy, life history, population biology, and distribution. Project also included monitoring several known sites of the species. During field monitoring, several previously unknown sites of northern grass-of-Parnassus were located. The conservation assessment was prepared in order for the Olympic National Forest to write management recommendations for the species.

Task Manager and Biologist, Brown Road Materials Storage Area, Whatcom County, Washington, BP Cherry Point Refinery. Successfully permitted 20-acre laydown area for refinery maintenance and construction. Conducted wetland delineation on laydown area and 94-acre mitigation site, one of the largest in Washington State. Prepared documents for permitting, including wetland delineation report, compensatory wetland mitigation plan, JARPA application, Alternatives Analysis, SEPA checklist, Whatcom County Grading permit application, Construction Stormwater General Permit application, and CZMP Consistency.

Biologist, Moses Lake Residential Development, Moses Lake, Washington, Inland Construction Company. Conducted wetland delineation on parcel proposed for construction of apartment building complex. The parcel is situated on the Gloyd seeps and adjacent to an arm of Moses Lake and a WSDOT mitigation bank. The project required additional agency research to determine hydrologic regime. Coordinated with federal and state agencies to successfully permit the project.

Biologist, Kingswood Center Proposed Commercial Development, Tumwater, Washington. Conducted wetland delineation on property proposed for development of commercial retail facility. Investigated potential mitigation sites for anticipated wetland impacts and discussed potential permit requirements.

Biologist, Picnic Point Wastewater Treatment Facility, Snohomish County, Washington, Alderwood Water and Wastewater District.



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Identified and delineated riparian wetlands adjacent to Picnic Creek. Determined buffers and building setbacks for proposed wastewater facility expansion. Completed wetland report and critical areas study. Determined the Ordinary High Water Mark of Picnic Creek and resulting Native Growth Protection Area boundary.

Biologist, Expert Review, Wild Horse Wind Project, Kittitas County, Washington, Puget Sound Energy. Provided expert review and due diligence assistance for Puget Sound Energy's acquisition of a wind power project. Reviewed rare plant and habitats technical report and vegetation and wetlands sections of the DEIS and EFSEC application for deficiencies.

Biologist, Yak Ski Acres Verizon Wireless Facility, Kittitas County, Washington, Verizon Wireless. Conducted a site reconnaissance to identify critical areas along proposed project access route which crossed the Mount Baker-Snoqualmie National Forest. Wrote report summarizing existing conditions and included recommendations to minimize impacts of construction work. Conducted mid-project and final inspection of access route and made recommendations to rectify construction impacts.

Biologist, Blasser Property Stream Reach Study, Bellevue, Washington, City of Bellevue. Conducted stream study of unnamed drainage in Bellevue. The study includes discussion of the riparian corridor, analysis of four buffer alternatives and potential development scenarios including a variance and conservation easement.

Biologist, Kopiah Excess Spoil Area, Lewis County, Washington, TransAlta Centralia Mining LLC. Contributed to a conceptual mitigation plan for a coal mine project requiring 11 acres of wetland fill. Conceptual mitigation included rerouting a channelized stream back to its historical channel. Conducted delineation of the proposed mitigation area, which is located in a floodplain that has undergone hydrologic modifications. Assembled JARPA materials for submittal to U.S. Army Corps, Washington Department of Ecology, Environmental Protection Agency, and Washington Department of Fish and Wildlife.

Biologist, Group Health Cooperative Property, Everett, Washington, Trammell Crow Company. Conducted verification of 13-year-old wetland delineation which led to a re-delineation of the site. Determined category and buffer of forested wetland and made recommendations regarding development constraints.

Project Manager and Biologist, Abbey View Wetland Reconnaissance, Brier, Washington, Evergreen-Washelli. Conducted a wetland reconnaissance on proposed road project and wrote a letter report to fulfill City of Brier's critical areas ordinance requirements.

Biologist, Elhard v Lloyd Proposed Road Easement Delineation, King County, Washington, Corr Cronin. Conducted wetland



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delineation on proposed road easement alternatives in rural King County. Contributed technical expertise to legal counsel.

Biologist, Site Investigation, Whatcom County, Washington, Client Confidential. Conducted initial site investigation for parcel near shoreline in Whatcom County. Work included a wetland reconnaissance and literature review of previous work done on site. Identified potential site constraints and made recommendations of further actions.

Condit Dam Removal Project, Skamania and Klickitat Counties, Washington. Reviewed supplemental NEPA EIS for SEPA adequacy. Supplemental EIS included discussions of dam removal and associated impacts. Prepared scoping documents and outline for Supplemental Draft SEIS to address SEPA issues.

Biologist, Benthic Invertebrate Monitoring, Muckleshoot Reservation, Washington. Collected benthic invertebrate samples from Pussyfoot Creek on Muckleshoot Reservation in accordance with the Washington Department of Ecology's Benthic Macroinvertebrate Protocol. Work also included recording baseline habitat and stream channel morphology data. Monitoring was performed to fulfill requirements in USFWS and NOAA Fisheries Biological Opinion for the White River Amphitheatre.

Biologist, Bellingham Airport Master Plan, Bellingham, Washington, Port of Bellingham. Completed environmental portions of NEPA Checklist and associated environmental report for multiple airport expansion projects.

Biologist, Maple Leaf School Site, Seattle, Washington, Seattle Public Schools. Conducted a wetland investigation for a Seattle Public School property. Work also included researching heritage tree issues and contacting Seattle Department of Transportation arborist to discuss tree removal permits.

Biologist, Darrington Cogeneration Facility, Snohomish County, Washington, Darrington, NESCO. Prepared the biological resources portions of the Expanded SEPA checklist for a new 20 MW cogeneration facility that would convert waste wood residue to steam and electricity. Analyzed potential impacts from the project to threatened and endangered species. Also analyzed impacts to the adjacent Sauk River, which is classified as a Wild and Scenic River.

Biologist, Eastside Corridor Project EIS, East Wenatchee, Washington, Washington State Department of Transportation. Prepared biological resources technical section for proposed highway modifications to SR 2-97. Analyzed several alternative route alignments in order to identify impacts from the project to wetlands, priority habitats, and Endangered Species Act (ESA) listed species. Conducted wetland



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reconnaissance, rare plant surveys, and addressed noxious weed concerns. Recommended measures to mitigate impacts to wetlands.

Biologist, BP/Blaine School District Schoolhouse, Whatcom County, Washington, BP Cherry Point Refinery. Aiding in completion of Conditional Use Permit for education facility.

Biologist, Muckleshoot Water Pipeline, Muckleshoot Reservation, Washington, Muckleshoot Indian Tribe. Conducted delineation of wetland and streams along proposed water pipeline route on the Muckleshoot Reservation. Completed a wetland report and investigated potential permit needs for project.

Biologist, I-90 Two-Way Transit and HOV Operations EIS, King County, Washington, Sound Transit. Prepared biological resources technical report and EIS section for project that proposes to provide reliable two-way transit and HOV operations on I-90 between Seattle and Bellevue. Report included discussion of threatened and endangered species wetlands, and noxious weeds.

Biologist, PSR Superfund Site Sediment Unit Remedial Design, Seattle, Washington, US EPA. Designed a shoreline planting plan for the 58-acre PSR marine sediment cap. The plan was tailored to address a unique and complex set of site conditions and remedy requirements. Intertidal habitat design included native plantings of woody and herbaceous species, large woody debris placement, and finer grained beach sands. Net results were substantial gains in intertidal habitat acreage and an improved intertidal substrate.

Biologist, Muckleshoot Individual Allotment Permits, Muckleshoot Reservation, Washington, Muckleshoot Indian Tribe. Conducted wetland determinations for single family residences. Recommended lot design to minimize wetland impacts.

Biologist, Remedial Investigation, Chelan County, Washington, Client Confidential. Responded to USDA Forest Services comments on Draft Remedial Investigation Report. Addressed ESA and Northwest Forest Plan Survey and Manage issues. Researched the required Survey and Manage and ESA-listed surveys required for the preferred remedy.

Biologist, West Patrol Road Ditch Expansion, Whatcom County, Washington, BP Cherry Point Refinery. Conducted wetland delineation along roadside ditch. Recommended areas where ditch expansion would be feasible and wetland impacts would be minimized.

Biologist, Justice Property Delineation, Muckleshoot Reservation, Washington. Assisted with wetland delineation on a 20-acre parcel of land with long history of disturbance. Work included identifying isolated wetlands and determining land use history of site.



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Biologist, Judy Reservoir Wetland Mitigation Area, Skagit County, Washington, Skagit County Public Utility District 1. Inspected plant materials prior to installation. Inspected completed plantings to ensure compliance to planting plan. Conducted first three years of monitoring to assess percent cover of emergent and scrub-shrub wetland areas.

Biologist, Proposed Commercial Development, Woodland, Washington, Home Depot. Conducted wetlands determination for due diligence on proposed Home Depot transit facility.

Biologist, Plymouth Generating Facility, Plymouth, Washington, NESCO. Prepared biological resources technical section for proposed combined-cycle power plant and associated access roads and transmission lines. Analyzed impacts from alternate transmission lines and access routes. Performed fieldwork and research to identify impacts from the project to wetlands, priority habitats (including shrub-steppe), and ESA listed species. Recommended mitigation measures and potential habitat restoration opportunities. Prepared a Biological Assessment and successfully completed informal agency ESA consultation.

Biologist, Chase Lake Property, Snohomish County, Washington, City of Edmonds. Conducted wetland reconnaissance for City of Edmonds. Located and described peat wetlands surrounding Chase Lake. Researched history of site as a peat mine and a Snohomish County stormwater management site. Provided letter report discussing development restrictions.

Botanist, Northeast Lands General Parcel Inventory, Stevens County, Washington, Bureau of Land Management. Conducted initial botanical inventories on BLM parcels in northeastern Washington. Fieldwork included plant community typing, habitat mapping, rare plant survey, and noxious weed and cultural plant survey. Other information collected included forest stand composition and density, stand age, disturbance regime, and snag data.

Biologist, Natural Resources Building, Muckleshoot Reservation, Washington, Muckleshoot Indian Tribe. Assessed wetlands on disturbed parcel that undergoes frequent mowing. Completed wetland delineation and report for proposed natural resources building. Researched isolated wetland issues on Tribal land with regard to recent court decision. Made recommendations regarding jurisdictionality of isolated wetlands on subject property. Also aided in design of stormwater pipeline in order to avoid further wetland impacts.

Biologist, Machias Pipeline Replacement Project, Snohomish, Washington, Williams Pipeline. Completed wetland delineation and wetland report for 3.2-mile natural gas pipeline repair project. Work consisted of assessing wetlands within 75-foot right-of-way that undergoes active disturbance regime of mowing and grazing.



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Biologist, White River Amphitheatre EIS, Muckleshoot Reservation, Washington, Muckleshoot Indian Tribe. Aided in editing and production of multi-volume Final EIS document for proposed open-air amphitheatre. Assisted in delineation of off-site mitigation area. Coordinated responses to comment letters from DEIS. Updated JARPA application and mitigation plan for project. Also completed monitoring and mitigation plan, as required by the formal ESA consultation process.

Project Manager and Biologist, Hadachek Property Wetland Delineation and Restoration Plan, Pierce County, Washington, Private Residential Client. Assessed wetland and wetland buffer violation in unincorporated Pierce County. Completed wetland delineation report for property. Designed restoration plan for cleared wetland and wetland buffer areas. Worked with Pierce County to successfully get an after-the-fact wetland approval and building permit.

Biologist, Longfellow Creek Habitat Improvement Project, Seattle, Washington, Seattle Public Utilities. Assessed wetland and upland plantings in riparian restoration project. Identified species with poor survivorship. Recommended species for replacement and substitution.

Biologist, Bellevue Stream Rehabilitation, Bellevue, Washington, City of Bellevue. Assessed health of riparian vegetation communities for four salmon-bearing urban creeks: Sears Creek, Newport Creek, Upper Kelsey Creek, and Upper Richards Creek. Identified potential wetland issues associated with rehabilitation efforts. Recommended restoration opportunities and noxious removal techniques.

Biologist, Sumas 2 Generating Facility, Sumas, Washington, NESCO. Identified and delineated wetlands on proposed mitigation site for EFSEC permitted generating facility.

Task Manager and Principal Investigator, Tuxekan Island Timber Sale EIS, Southeast Alaska, US Forest Service. Task manager and principal investigator for special status plant surveys in Tongass National Forest. Identified all vascular plant species located in proposed timber sale units. Collected voucher specimens for inclusion in Flora of North America project. Compiled and developed text for botany reports. Entered stream survey data into GIS coverage. Completed EIS issue processing. Prepared EIS technical sections. Responded to USDA Forest Service comments on recreation and scenery issues.

Task Manager and Principal Investigator, Kosciusko Island Timber Sale EIS, Southeast Alaska, US Forest Service. Task manager and principal investigator for special status plant surveys in Tongass National Forest. Identified all vascular plant species located in proposed timber sale units. Collected voucher specimens for inclusion in Flora of North America project. Compiled and developed text for botany reports. Entered stream survey data into GIS coverage. Completed EIS issue



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processing. Prepared EIS technical sections. Responded to USDA Forest Service comments on recreation and scenery.

Biologist, Otter Lake Timber Sale EIS, Southeast Alaska, US Forest Service. Coordinated DEIS production for USDA Forest Service document. Prepared and edited technical sections of DEIS. Aided in identification of significant issues. Responded to USDA Forest Service comments on recreation, scenery, and wetland issues. Developed maps and text for botany reports. Additional work included identifying plant specimens and compiling survey reports.

Biologist, Preliminary Airport Master Plan, Pullman, Washington, Pullman-Moscow Regional Airport. Conducted wetland determination on airport campus. Wrote wetland report for inclusion into Preliminary Airport Master Plan.

Biologist, Fall City-Snoqualmie Road Cellular Tower, King County, Washington, SBA Inc. Conducted wetland determination in response to concerns raised by King County over wetland issues. Submitted letter report documenting findings as part of permit application.

Biologist, Rieth Windpower Project, Pendleton, Oregon. Conducted biological surveys for proposed windpower project. Identified and mapped populations of federally and state listed animals and plants, including difficult to identify milk-vetch species (*Astragalus* sp.).

Biologist, Wallula Power Project, Walla Walla County, Washington. Conducted site visit for completion of biological resources section of SEPA Checklist for a proposed natural gas power plant.

Biologist, Davis Housing Project, Muckleshoot Reservation, Washington, Muckleshoot Indian Tribe. Contributed to wetland sections of Biological Assessment for proposed Tribal housing project. Conducted wetland reconnaissance to determine potential stormwater discharge points.

Biologist, Wax Road Cellular Tower, King County, Washington, SBA Inc. Assessed potential wetland buffer violation in unincorporated King County. Delineated wetland boundaries and determined stream classes. Determined buffer widths and submitted report for after-the-fact permit.

Biologist, North Creek/Vitulli Cellular Tower, Bothell, Washington, Nextel Communications. Completed wetland and stream reconnaissance for proposed cellular tower site. Determined stream and wetland categories and corresponding buffers. Recommended placement of equipment shed outside of wetland buffer. Submitted report to be included with permit application.



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Biologist, Proposed Skagit River Intake and Water Pipeline, Skagit County, Washington, Skagit County Public Utility District 1.

Identified and delineated wetlands along proposed water pipeline from Skagit River to Judy Reservoir. Completed wetland report and conceptual mitigation plan for the project. Assisted in preparation of the Joint Aquatic Resource Permit Application (JARPA).

Biologist, Wetland Delineation, Parkland, Washington, IBI Group, Inc.

Identified and delineated wetland on proposed cellular hub facility site. Met with Pierce County to discuss permitting issues. Developed conceptual mitigation plan for the site.

Biologist, Goldendale Energy Project, Goldendale, Washington, Goldendale Energy Inc.

Identified and delineated wetlands along proposed natural gas pipeline route and electric transmission line route. Conducted rare plant surveys and vegetation community analysis along both routes. Completed technical report for inclusion into SEPA Checklist. Assisted in JARPA and Endangered Species Act informal consultation process, including site visit with Washington Department of Ecology.

Biologist, Satsop Combustion Turbine, Thurston and Grays Harbor Counties, Washington, Energy Northwest and Duke Energy North America.

Conducted survey of critical areas and rare plants on Fort Lewis military base property. Completed initial research for Biological Assessment for natural gas pipeline project spanning Thurston and Grays Harbor Counties. Also researched potential mitigation sites for wetland compensation. Research included identifying whether proposed sites contained habitat for federal and state listed threatened and endangered species.

Biologist, Air Cargo Facility, Spokane, Washington, Spokane International Airport.

Conducted a wetland reconnaissance and produced a technical memo for a proposed air cargo facility.

Biologist, Palmyra Atoll Environmental Compliance Plan, Palmyra, South Pacific.

Developed vegetation enhancement strategy for bird habitat. Contributed to Environmental Compliance Plan for pelagic fish harvest facility.

Biologist, Kootenai Cutoff Mitigation Sites, Ponderay, Idaho, Idaho Transportation Department.

Monitored wetland mitigation sites as a result of the widening of US Highway 95. Prepared monitoring report for Army Corps of Engineers. Recommended measures to improve value of mitigation areas.

Biologist, North Bend Gravel Operation EIS, North Bend, Washington, City of North Bend.

Responded to comments letters regarding ESA and botanical concerns. Updated EIS section to include discussion of noxious weeds and ESA plant species.



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Biologist, Water Tower Project, Chehalis, Washington, Tractebel Power, Inc. Contributed to SEPA Checklist for proposed City of Chehalis water tower project.

Biologist, Monohan Camp Sambica Cellular Tower, King County, Washington, Nextel Communications. Responded to stream buffer concern raised by King County. Completed site visit and determined stream class and buffer width. Submitted report to be included with permit application.

Biologist, Sewer Pipeline Project, Whatcom County, Washington, BP Cherry Point Refinery. Identified and delineated wetland along multiple proposed sewage pipeline routes.

Biologist, Mist Gas Pipeline, Clackamas, Marion, and Washington Counties, Oregon, Northwest Natural Gas. Conducted rare plant survey along 60-mile route of proposed natural gas pipeline in northwestern Oregon. Aided in preparation of permit document. Also assisted in developing list of habitat types and categories for habitat mapping project. Created habitat maps in ArcView and performed field verification of habitat maps.

Biologist, Tomahawk Island, Multnomah County, Oregon. Conducted rare plant survey on island in the Columbia River. Aided in preparation of permit document.

Biologist, Drug and Alcohol Treatment Facility, Muckleshoot Reservation, Washington, Muckleshoot Indian Tribe. Conducted wetland delineation on proposed site of tribal drug and alcohol treatment facility.

Biologist, Collins Property, Kenmore, Washington, Private Residential Client. Conducted wetland verification of residential property.

Biologist, Nextel Communications, Pennsylvania, Nextel. Completed NEPA checklists for various cellular phone towers.

Botanist, Coast Range Resource Area, Lane County, Oregon, Bureau of Land Management. Conducted rare plant surveys in proposed timber sale units. Created complete vascular and nonvascular species inventory lists for these sales, which required being able to identify hundreds of plants. Contributed to botanical sections of timber sale environmental assessments. Monitored restoration sites in the West Eugene Wetlands. Produced GIS (Geographic Information Systems) maps of the West Eugene Wetland complex.

Botanist, Hawaii Volcanoes National Park, Hawaii, National Park Service. Established and monitored fire restoration and succession



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research burns. Established and monitored invasive plant control study areas. Collected, planted, and monitored the success of native plants in restoration projects. The work included hiking to remote coastal areas and through dense rainforest. The work required learning to identify numerous tropical plant species, including difficult to diagnose ferns.

Botanist, South Valley Resource Area, Lane County, Oregon, Bureau of Land Management. Conducted special status vascular plant surveys. Conducted Survey and Manage surveys under the President's Forest Plan. These surveys included searching for and identifying bryophytes, lichens, and fungi. The identification required both field and laboratory skills. Monitored special status plant populations, including species of Aster. Entered, analyzed, and reported data collected from field work. Produced GIS maps of rare plant sites.

Rare Plant Monitor, Rare Plant Care and Conservation Program, Center for Urban Horticulture, University of Washington. Monitored known rare plant locations across Washington State. Work augmented the Washington Natural Heritage Program site database. Monitored species in various habitats including sagebrush steppe, vernal pools, and riparian corridors. Also made collections of rare species and associated plants for inclusion in the collections at the University of Washington Herbarium.

Biologist, Duwamish Restoration Site Steward, Seattle, Washington, People for Puget Sound. Worked with People for Puget Sounds as a site lead for monitoring of restoration projects in the Duwamish River estuary. Duties included monitoring vegetation in upland and estuary areas, evaluating site for potential problems (noxious weeds, damage to integrity of goose-excluder fences), and training new site stewards.

Professional Societies/Affiliates

Society of Wetland Scientists, PNW Chapter Secretary
Society of Ecological Restoration
Native Plant Society of Oregon
Washington Native Plant Society

Specialized Training

Using the Revised Washington State Wetland Rating System, 2007, Coastal Training Program

How to Determine the Ordinary High Water Mark, 2007, Coastal Training Program

Arid West Wetland Delineation Manual Supplement Training, 2007, Army Corps of Engineers

Mountains, Valleys and Coast Region Delineation Manual Supplement Training, 2008, Army Corps of Engineers

Publications

"*Parnassia palustris* var. *neogaea*", *Douglasia: Journal of the Washington Native Plant Society*, Vol. 28, No. 4, Fall 2004.



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Editor of *Ooze News*, Society of Wetland Scientists – Pacific Northwest Chapter Newsletter, 2004–2009.