



Phase I Environmental Site Assessment, Severson/Selinco Properties; Sequim, WA; Washington State Department of Fish and Wildlife

Washington State Department of Fish and Wildlife, on behalf of the Trust for the Public Lands, retained White Shield to conduct a Phase I Environmental Site Assessment (ESA) of the Severson/Selinco Properties, LLC/TPL located in Sequim, Washington. These properties consisted of approximately 100 acres of agricultural and undeveloped land along the Dungeness River. The assessment was performed in accordance with the American Society for Testing and Materials (ASTM) E 1527-00. The purpose of the ESA was to evaluate the likelihood for the presence of recognized environmental conditions (RECs) at the site. White Shield reviewed available information from various sources with respect to the historical uses of the property, including assessor's records, permits, historical maps, and aerial photographs. Based on our studies and observations, it was concluded that two 200-gallon above ground fuel storage tanks and five drums of unknown petroleum products located in and adjacent to a barn on the northern portion of the subject site were RECs.

Dungeness River Match, Sequim WA; Washington State Department of Fish and Wildlife

White Shield recently assisted Fish & Wildlife by conducting a Phase I Environmental Site Assessment on Olympic Game Farm. An on-site reconnaissance of the property was performed to assess the potential presence of obvious hazardous materials/waste. A visual survey of adjacent properties was conducted in order to evaluate the potential for past or present hazardous materials that could affect the site. White Shield reviewed all appropriate databases to determine the location of hazardous waste generators within one mile of the property, and also reviewed historical aerial photographs, appropriate maps, geotechnical data & geologic reports for the property and adjacent properties to obtain information regarding potential contamination. The chain of title was reviewed to evaluate the potential for prior owners to have generated or disposed of hazardous materials on site.

U.S. Navy Other Environmental Liability (OEL), Various Naval Bases, WA; URS for the Department of the Navy

White Shield, working as subcontractor for URS Corporation, assisted in conducting "Other Environmental Liability" (OEL) inventories at several Puget Sound Naval bases. The purpose of the project was to assist the Navy in the accounting of Non-DERP environmental liabilities that were never accounted for as required by Federal Accounting Standards. The project created an inventory of all equipment and facilities that would require cleaning before being moved, or prior to base closure. Creating the inventory required an audit of Spill Prevention Control and Countermeasure Plans, Pollution Prevention Surveys, and other Environmental Compliance Documentation. The project also required performing compliance assessments to document environmental liabilities within the Naval industrial complex including warehouses, maintenance shops, office buildings, firing ranges, machining equipment, tanks, hazardous wastes and hazardous material storage areas, storm water impoundments and transformers. The naval bases included Bangor, Keyport, Whidbey Island, and the Bremerton Naval Shipyard.

Hazardous Materials Inventory & Categorization, Great Plains Region; Bureau of Indian Affairs

White Shield provided inspection and project management support for the identification of unknown hazardous materials located at 28 Bureau of Indian Affairs road shop buildings located on various Indian Reservations in North Dakota, South Dakota, and Nebraska. The project included using a HAZCAT sampling kit to identify unknown chemical characteristics, compiling a complete list of hazardous materials, their location, description, condition, estimates of cost for removal and disposal, and identifying qualified transportation and disposal contractors to remove the materials. Segregation requirements and situations were identified and addressed that were immediately dangerous to health and the environment. This project covered a large geographic region and required a significant amount of planning and coordination with each Indian Reservation and Tribal Employment Rights Offices. White Shield staff also coordinated and managed the removal and disposal of 51 "lab pack" containers of laboratory wastes found in a warehouse on one of the reservations.



Central Link Light Rail Alignment Phase I and II Environmental Site Investigations, Seattle, WA; Garry Struthers & Associates for Sound Transit

White Shield provided support for Alignment Screening, Phase I Environmental Site Assessments (ESAs), and Phase II ESA Subsurface Investigations for properties along segments of the Central Link Light Rail Alignment for Sound Transit in Seattle, Washington. During Alignment Screening and Phase I ESAs, White Shield identified recognized environmental conditions for each property. At sites requiring Phase II ESAs, subsurface investigations were conducted per ASTM standards in order to define and characterize the extent of the contamination. Typical soil and groundwater contaminants in the Rainier Valley area of Seattle include petroleum products, priority pollutant metals, and solvents. As a member of the consulting team for this alignment, White Shield assisted Sound Transit real estate agents and assessors and coordinated with the owners of the properties in order to obtain rights-of-entry to sites. White Shield also provided an interpreter for the predominantly Asian community.

Hazardous Materials Assessment (Asbestos, Lead-based Paint & Hazardous Materials), Washington State Penitentiary, Walla Walla, WA; DLR Group Architects for Washington State Department of Corrections

White Shield performed a hazardous materials assessment for nine buildings at the Washington State Penitentiary that will be demolished as part of the expansion of the Close Custody Facility. The assessment included determining the presence of lead-based paint using an X-ray fluorescence (XRF) analyzer, a survey for asbestos containing building materials, and compiling an inventory of all hazardous chemicals and potentially hazardous materials located in the buildings.

Phase I Environmental Site Assessment, Lincoln City, OR; Confederate Tribes of Siletz Tribe of Oregon

A Phase I Environmental Site Assessment was completed in compliance with ASTM Standards E1527 and E1528 on a 38-acre undeveloped parcel. Tasks included site reconnaissance, identifying known and potential toxic hazards, researching historical and current site uses, reviewing state and federal toxic contamination and cleanup databases, and technical report writing.

Lead-based Paint Inspection and Risk Assessments, Various Naval Bases, WA; URS for the Department of Navy

White Shield provided lead-based paint inspection and risk assessment services at naval housing facilities located on various naval facilities throughout the Puget Sound Region. The project involved the use of an X-ray fluorescence (XRF) analyzer and physical sampling of suspected lead-based paint containing material, as well as providing electronic documentation and daily reports. Facilities included the Bangor Naval Submarine Base, the Bremerton Naval Shipyard, and the Whidbey Island Naval Air Station with over 110 housing units assessed. constituent in the water. Coordination between the Department of Ecology and the Port of Benton was provided to identify remedial options for the soils and groundwater.

Phase I Environmental Site Assessments, Tulalip Indian Reservation, Marysville, WA; Tulalip Tribal Housing Authority

White Shield provided technical oversight for two Phase I Environmental Site Assessments (ESAs) on the Tulalip Indian Reservation. The ESAs were conducted on two residential developments that were to be renovated. Support included site reconnaissance, environmental records review, and historical records review consisting of prior ownership, historical maps, local street directories and tax assessor documents. Tests conducted for these assessments included testing for lead in drinking water, Radon, and an asbestos/lead-based paint survey.

Phase II Environmental Site Assessment Oversight, Investco/Looney Site, Tacoma, WA; Environmental Management Services, LLC

White Shield provided oversight and report review for a Phase II Environmental Site Assessment at a former steam plant located along the Thea Foss Waterway in Tacoma, Washington. The plant site dated to the late 1800s, and used wood for fuel before being converted to bunker fuel. White Shield staff oversaw the



installation of eight push-probe borings and the excavation of two test pits. Soils and groundwater were sampled for petroleum hydrocarbons, PCBs, and metals.

Upper Columbia River Field Investigation and Sampling; CH2M Hill for the Environmental Protection Agency, Region 10

White Shield provided CH2M-Hill with a Sample Processing Coordinator for the Upper Columbia River Sampling Project in order to coordinate sediment sample processing and packaging, development of Chain of Custody and Forms II Lite documentation, arrangement of shipment and transport, and assistance with the sample collection activities. A subsequent task order directed the collection of fish tissue samples from within six different sampling areas. The fish were collected by a variety of methods including electro-fishing, gill netting, and traps. The collected fish were transported to a central processing area at the Kettle Falls Marina where they were weighed, measured, catalogued, filleted, and packed for shipment. The Coordinator position required an understanding of CLP procedures and the CLP Guidance document ("CLP Guidance for Field Samplers", OSWER 9240.0-35, Aug 2004) and familiarity with laboratory analytical procedures and QA/QC considerations.

Phase II Environmental Subsurface Investigations, Consolidated Freightways, Kennewick, WA; Blymyers Engineers

White Shield provided various environmental services at the Consolidated Freightways facility including UST decommissioning and assessment, environmental subsurface investigations to determine and evaluate the extent of diesel soil and groundwater contamination at the site, and groundwater monitoring and sampling on a quarterly basis to characterize the diesel groundwater plume. Groundwater contamination at the site was due to leakage of diesel fuels from underground storage tanks. In addition, White Shield provided potential remediation options at the site.

Groundwater Monitoring and Sampling, Boomsnub Site, Vancouver, WA; URS Corporation for the U.S. Environmental Protection Agency, Region 10

White Shield performed technical assistance services for URS Corporation on the Remedial Action Contract (RAC) for EPA Region 10 at the Boomsnub Superfund Site in Vancouver, Washington. Tasks included groundwater monitoring and sampling.