

Appendix I HISTORIC RESOURCE SITES



U.S. Department
of Transportation
**Federal Aviation
Administration**

Office of the Air Traffic Organization
Western Service Area

1601 Lind Avenue Southwest
Renton, Washington 98057

JUL 24 2012

Matthew Sterner
Department of Archaeology & Historic Preservation
PO Box 48343
Olympia, WA 98504-8343

RE: Greener Skies over Seattle Project -- Notification of Area of Potential Effect

The Federal Aviation Administration (FAA) proposing implementation of Area Navigation (RNAV) and Performance Based Navigation (PBN) air traffic procedures in Seattle-Tacoma International Airport (SEA) called Greener Skies over Seattle. To fulfill the National Environmental Policy Act (NEPA) requirements, the FAA is conducting an Environmental Assessment (EA) for the project. The FAA would like to initiate consultation under Section 106 of the National Historic Preservation Act for the Project. This notification is in accordance with 36 CFR Part 800.4(a) and documents the "Area of Potential Effect" (APE) for this project. Below is a summary of the proposed project.

Project Location

USGS Quadrangles: Des Moines, WA and Seattle South, WA 7.5'
Township: 23 North Range: 4 East
Sections: 4, 5, 8, 9, 16, 17, 20, 21, 28, 29, 32, and 33

Township: 22 North Range: 4 East
Sections: 4, 5, 8, 9, 16, and 17

Project Description

Over the next two decades the FAA will face major challenges meeting future demand while improving safety, reducing delays, and protecting the environment. The Next Generation Air Transportation System (NextGen) is the FAA's chief means of transforming the national air transportation system to meet these challenges. The project includes the implementation of new approach procedures into SEA, which will meet the following needs:

- Improved efficiency in a complex airspace while maintaining the same high level of safety through shorter flight paths that will reduce flight times and fuel consumption;
- Increased flight path predictability;

- Increased flexibility in the use of noise mitigation routes over Elliot Bay during Instrument Meteorological Conditions (IMC) that normally cannot be used during adverse weather conditions;
- Decreased communication requirements between controllers and pilots, hence a reduction in likelihood of “hear-back/read-back” errors and more efficient handling of air traffic by air traffic controllers.

Area of Potential Effect (APE)

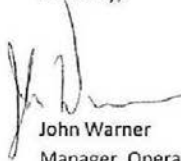
Since the procedures are flown over existing tracks, a NEPA Study Area was determined to include all the tracks flowing north and south on the west side of SEA (Figure 1). The project will establish new flight routes over a wide area, some portions of which are at relatively high altitudes. At lower altitudes, the change in flight paths has the potential to alter noise levels, which could have the potential to cause indirect effects to historic properties. Based on preliminary noise analysis the APE has been defined as the area around SEA that currently experiences the highest noise levels, that covers an area of 2017.61 hectares (4985.61 acres) in King County (Figures 2 and 3). The APE determination is based on the project areas that would experience a Day-Night Average Sound Levels (DNL) 65 dB. The DNL has been established by the U.S. Environmental Protection Agency (EPA) as the principal metric for airport noise analysis (U.S. EPA, 1974). The federal government recognizes DNL 65 dB as the threshold of significant aircraft noise impact. Figure 4 shows common environmental sounds in dBA from FAA Circular 36-3G.

Preliminary Information

In our consultations with your organization by phone on June 14, 2012, we informed of the salient features of the project highlighting the narrow strip where the proposed procedures are flowing in the vicinity of SEA and the fact that this project does not include any ground disturbing activities; therefore no direct effects to historic properties will occur. The Section 106 review for this project will include a consideration of the potential indirect effects to historic properties that may be caused by aircraft overflights. A preliminary review of the Washington State Department of Archaeology and Historic Preservation (DAHP) records indicates in that there are no National Register Properties and one cultural resource, an unevaluated archaeological site (45KI772), has been identified in this APE (Figure 5).

Please let us know if you concur with this APE determination. If you have any questions please contact Augustin Moses at (425) 203-4536 or by email at augustin.moses@faa.gov.

Sincerely,



John Warner
Manager, Operations Support Group
Federal Aviation Administration

Attachments:

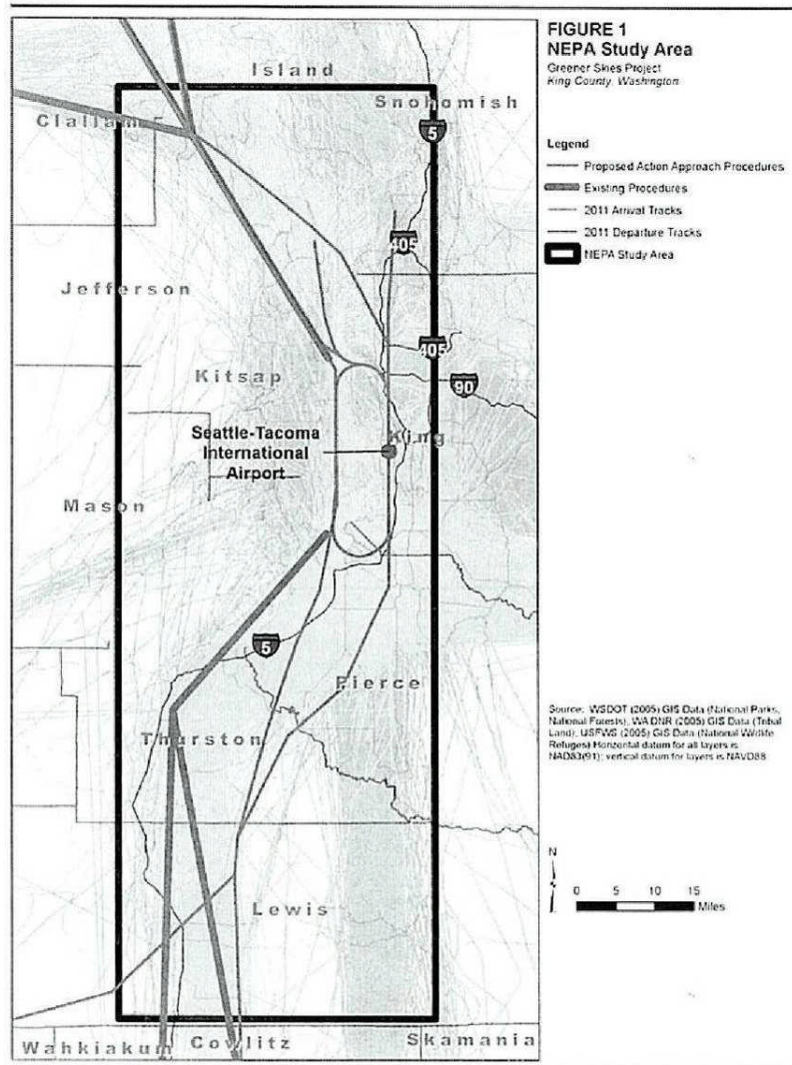
Figure 1-NEPA Study Area

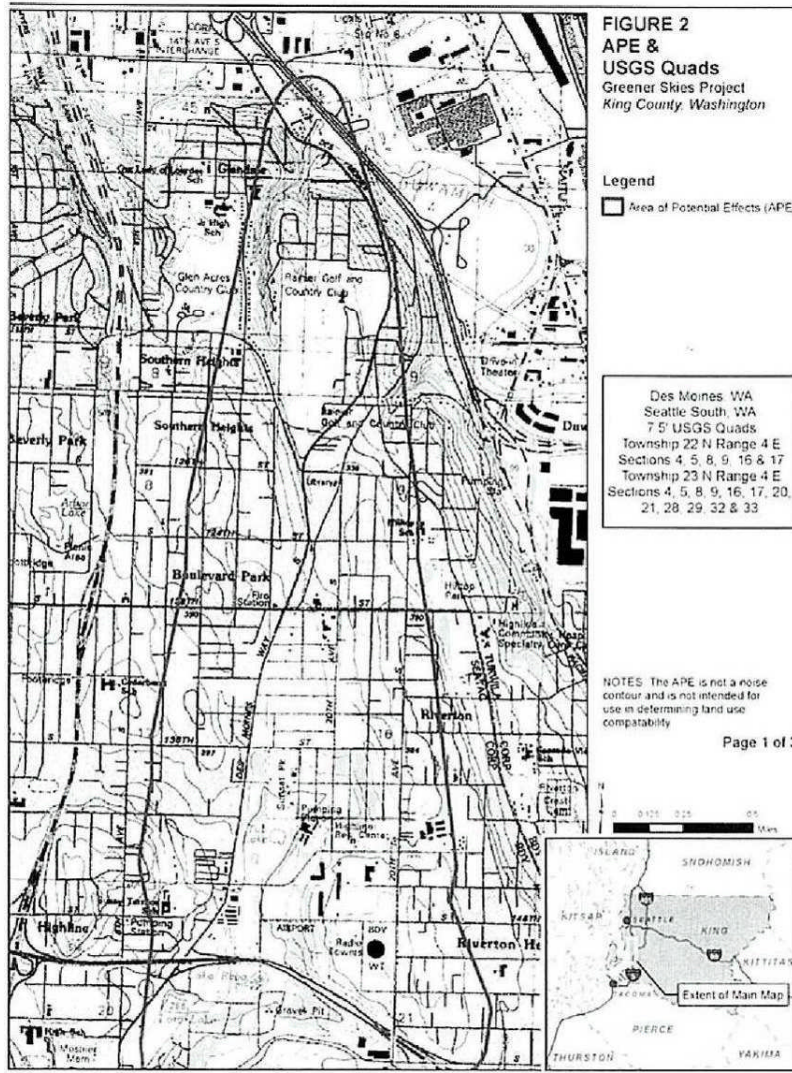
Figure 2-Area of Potential Effect -USGS Quad Maps (3)

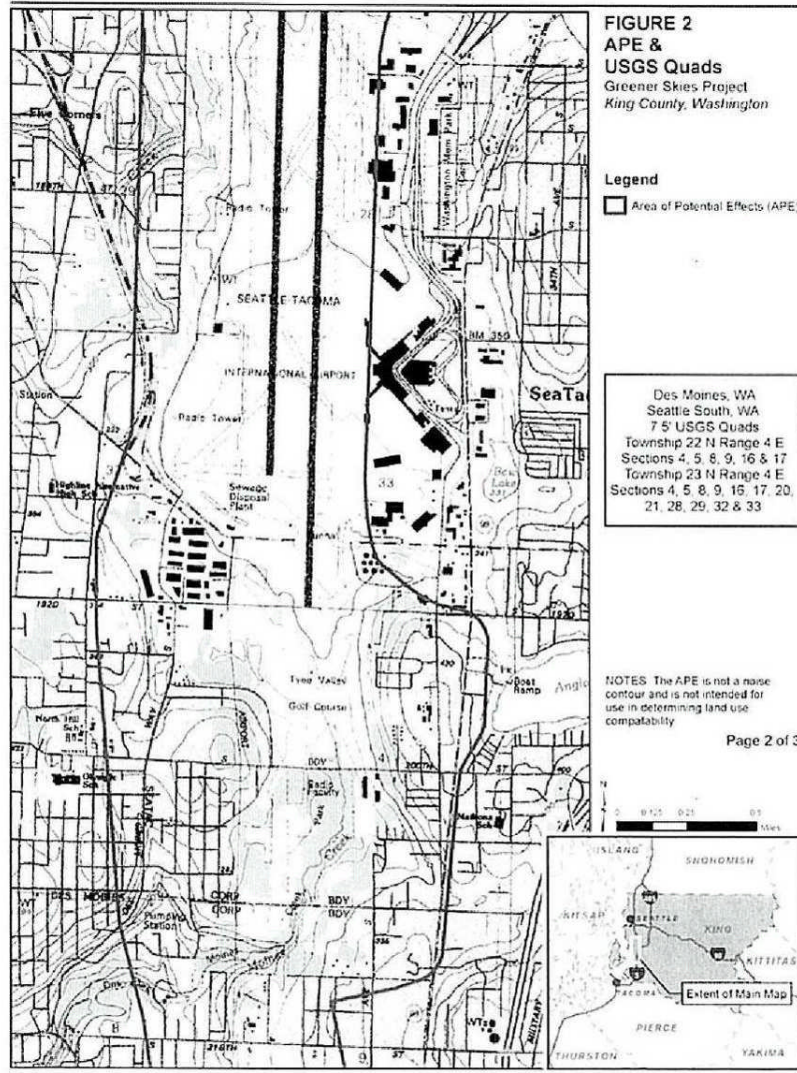
Figure 3-Area of Potential Effect –Aerial Imagery

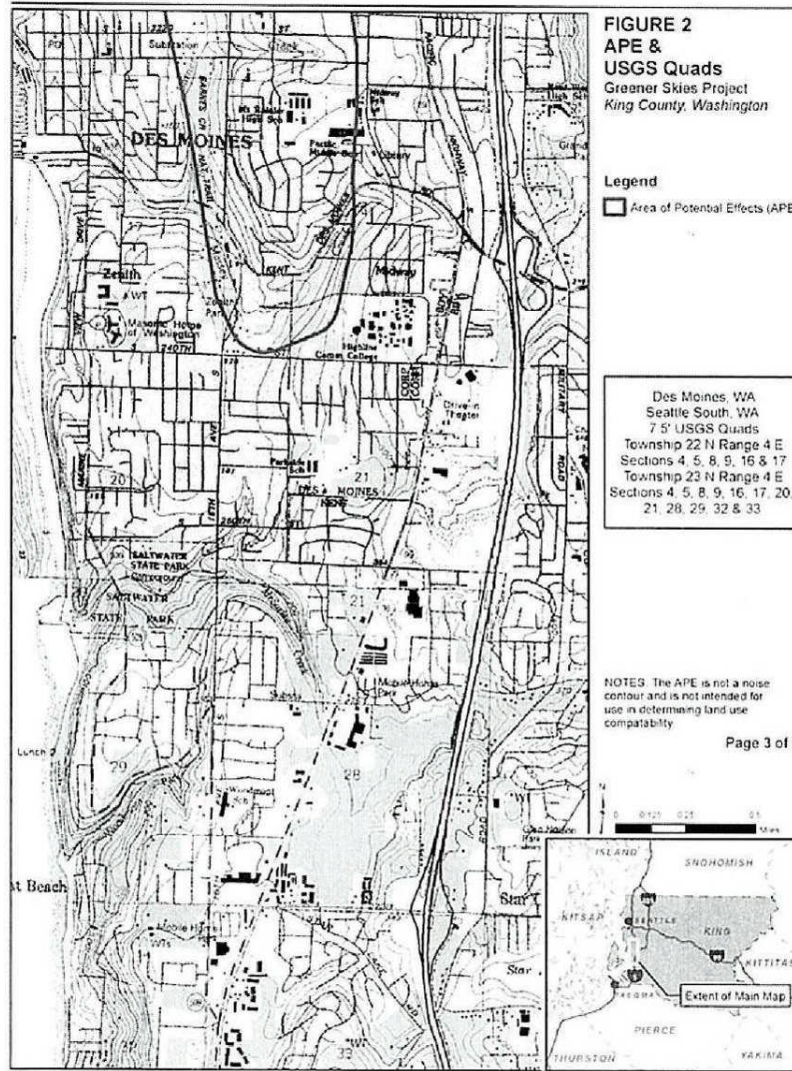
Figure 4- Common Environmental Sound Levels, in dBA

Figure 5- Area of Potential Effect - Cultural Resources









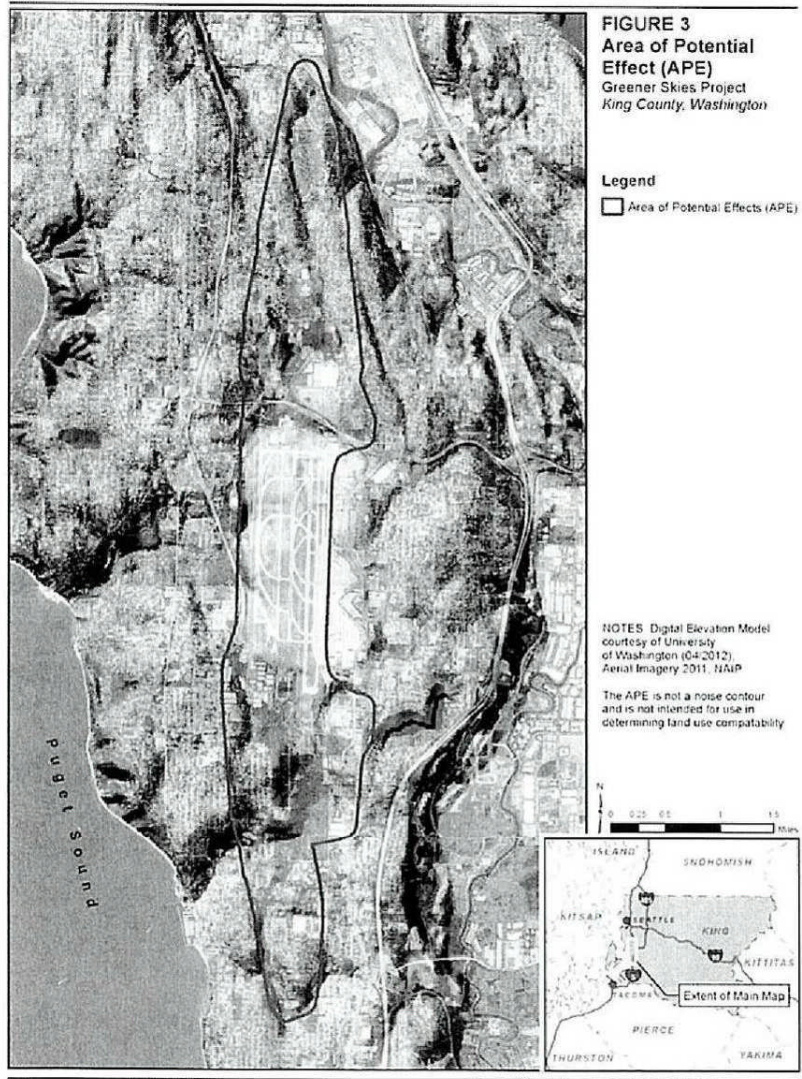
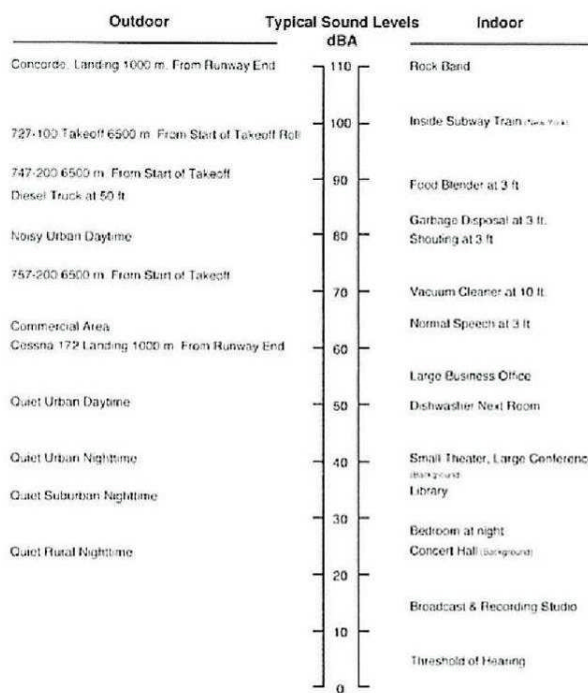
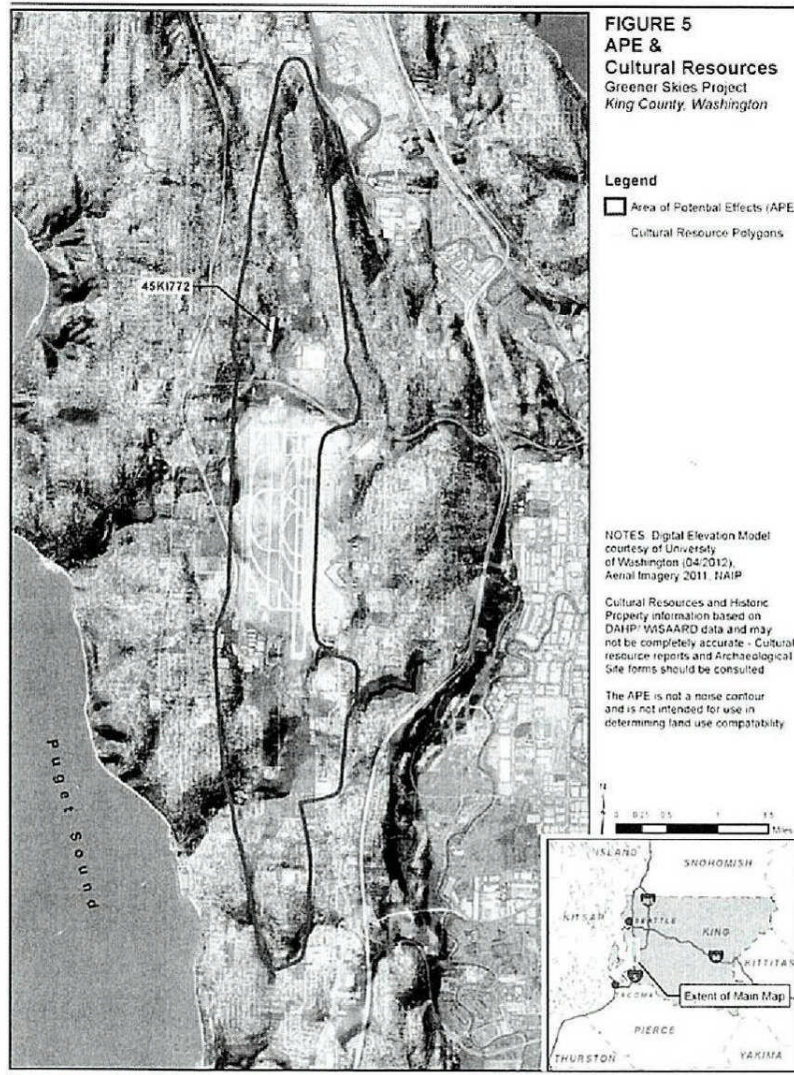


Figure 4 Common Environmental Sound Levels, in dBA



Source: HMMH (Aircraft noise levels from FAA Advisory Circular 36-3G)



Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|---|---|---------------|--------------|------------------|--------------------|----------------------------------|
| US Quarantine Station Surgeon's Residence | 101 Discovery Way, Diamond Point | Clallam | WA | Sequim | 5/11/1989 | National Register Property |
| Cama Beach Resort | 1880 SW Camano Drive | Island | WA | Camano Island | 5/15/2001 | National Register Property |
| Olympic Club | 230 1 st Street | Island | WA | Langley | 5/28/1991 | National Register Property |
| Bartlett, Frank, House | 314 Polk Street | Jefferson | WA | Port Townsend | 4/24/1973 | National Register Property |
| City Hall | Water and Madison Streets | Jefferson | WA | Port Townsend | 5/14/1971 | National Register Property |
| Fort Flagler | SE of Port Townsend on Marrowstone Island | Jefferson | WA | Port Townsend | 5/3/1976 | National Register Property |
| Fort Worden | Cherry and W Streets | Jefferson | WA | Port Townsend | 3/15/1974 | National Historic Landmark |
| Fowler, Captain Enoch S., House | 1040 Jefferson Street | Jefferson | WA | Port Townsend | 9/29/1970 | National Register Property |
| Gagen-Sherlock House | 1906 Cherry Street | Jefferson | WA | Port Townsend | 3/19/1982 | National Register Property |
| Irondale Historic District | Port Townsend Bay and Admiralty Inlet | Jefferson | WA | Port Townsend | 7/14/1983 | National Register Property |
| James, Francis Wilcox, House | 1238 Washington Street | Jefferson | WA | Port Townsend | 9/29/1970 | National Register Property |
| Jefferson County Courthouse | Jefferson and Case Streets | Jefferson | WA | Port Townsend | 4/24/1973 | National Register Property |
| Leader Building | 226 Adams Street | Jefferson | WA | Port Townsend | 9/29/1970 | National Register Property |
| Manresa Hall | Sheridan Street | Jefferson | WA | Port Townsend | 9/29/1970 | National Register Property |
| Old German Consulate | 313 Walker | Jefferson | WA | Port Townsend | 2/24/1971 | National Register Property |
| Pettygrove, Benjamin S., House | 1000 G Street | Jefferson | WA | Port Townsend | 9/25/1985 | National Register Property |
| Port Townsend Carnegie Library | 1229 Lawrence Street | Jefferson | WA | Port Townsend | 8/3/1982 | National Register Property |
| Port Townsend Historic District | Roughly bounded by Scott, Blaine, Walker, and Taft Streets, and the Waterfront | Jefferson | WA | Port Townsend | 5/17/1976 | National Historic Landmark |
| Rothschild House | Taylor and Franklin Streets | Jefferson | WA | Port Townsend | 9/29/1970 | National Register Property |
| Saint's Rest, Tukey's Pioneer Cabin and Homestead House | Chevy Chase Road | Jefferson | WA | Port Townsend | 7/14/1983 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|-----------------------------------|--|---------------|--------------|---------------|--------------------|----------------------------|
| Saunders, James C., House | Sims Way | Jefferson | WA | Port Townsend | 10/18/1977 | National Register Property |
| St. Paul's Episcopal Church | Corner of Jefferson and Tyler Streets | Jefferson | WA | Port Townsend | 9/29/1970 | National Register Property |
| Starrett House | 744 Clay Street | Jefferson | WA | Port Townsend | 9/29/1970 | National Register Property |
| Tucker, Horace, House | 706 Franklin Street | Jefferson | WA | Port Townsend | 1/18/1973 | National Register Property |
| US Post Office-Port Townsend Main | 1322 Washington | Jefferson | WA | Port Townsend | 5/30/1991 | National Register Property |
| Auburn Post Office | 100 Auburn Avenue NE | King | WA | Auburn | 4/21/2000 | National Register Property |
| Auburn Public Library | 306 Auburn Avenue | King | WA | Auburn | 8/3/1982 | National Register Property |
| Blomeen, Oscar, house | 324 B Street NE | King | WA | Auburn | 6/21/1991 | National Register Property |
| Neely, Aaron Sr., Mansion | East of Auburn off Highway 18 | King | WA | Auburn | 10/15/1974 | National Register Property |
| Olson, Mary, Farm | 28728 Green River Road South | King | WA | Auburn | 10/5/2001 | National Register Property |
| Patton Bridge | State Route 18 and Green Valley Road, spanning the Green River | King | WA | Auburn | 5/24/1995 | National Register Property |
| Winters, Frederick W., House | 2102 Bellevue Way Southeast | King | WA | Bellevue | 4/21/1992 | National Register Property |
| Bothell Pioneer Cemetery | NE and SE corners of intersection of 108 th Avenue NE and NE 180 th Street | King | WA | Bothell | 2/16/1996 | National Register Property |
| Chase, Dr. Reuben, House | 17819 113 th Avenue NE | King | WA | Bothell | 8/27/1990 | National Register Property |
| Faust-Ryan House | 18604 104 th Avenue East | King | WA | Bothell | 5/19/1994 | National Register Property |
| Kirk, Lilly, House | 19619 100 th Avenue NE | King | WA | Bothell | 3/9/1995 | National Register Property |
| Sorenson House | 10011 West Riverside Drive | King | WA | Bothell | 3/9/1995 | National Register Property |
| Thornton, William Harper, House | 17424 95 th Avenue NE | King | WA | Bothell | 11/10/1997 | National Register Property |
| Covenant Beach Bible Camp | Cliff Avenue and 220 th Street | King | WA | Des Moines | 1/11/2006 | National Register Property |
| Dockton Hotel | SW 260 th Street and 99 th Avenue SW | King | WA | Dockton | 7/28/1983 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|------------------------------------|---|---------------|--------------|------------------|--------------------|----------------------------|
| Boeing, William E., House | Huckleberry Lane | King | WA | Highlands | 12/16/1988 | National Register Property |
| Saint Edward Seminary | 1445 Juanita Drive NE | King | WA | Kenmore | 3/8/2007 | National Register Property |
| Sanders, Erick Gustave, Mansion | 5516 South 277 th Street | King | WA | Kent | 11/6/1986 | National Register Property |
| Dr. Trueblood House | 127 7 th Avenue | King | WA | Kirkland | 8/3/1982 | National Register Property |
| Jones, William, A., House | 304 8 th Avenue West | King | WA | Kirkland | 8/3/1982 | National Register Property |
| Kirk, Peter, Building | 620 Market Street | King | WA | Kirkland | 8/14/1973 | National Register Property |
| Kirkland Woman's Club | 407 First Street | King | WA | Kirkland | 1/26/1990 | National Register Property |
| Marsh, Louis S., House | 6604 Lake Washington Boulevard | King | WA | Kirkland | 6/30/1989 | National Register Property |
| Masonic Hall- Kirkland | 700 Market Street | King | WA | Kirkland | 8/3/1982 | National Register Property |
| Sears, Joshua, Building | 701 Market Street | King | WA | Kirkland | 8/3/1982 | National Register Property |
| Tourist II (Auto Ferry) | 25 Lake Shore Plaza, Marina Park | King | WA | Kirkland | 4/15/1997 | National Register Property |
| Wurdemann, Harry Vanderbilt, House | 17602 Bothell Way NE | King | WA | Lake Forest Park | 12/27/1990 | National Register Property |
| Eddy, James G., House and Grounds | 1005 Evergreen Point Road | King | WA | Medina | 2/19/1982 | National Register Property |
| Lakeview School | Island Crest Way and SE 68 th Street | King | WA | Mercer Island | 6/16/1988 | National Register Property |
| Tracy, William & Tracy, House | 18971 Edgecliff Drive SW | King | WA | Normandy Park | 7/13/1995 | National Register Property |
| Pacific Coast Company House No. 75 | 7210 138 th Street SE | King | WA | Renton | 12/21/1979 | National Register Property |
| 1411 Fourth Avenue Building | 1411 Fourth Avenue | King | WA | Seattle | 5/28/1991 | National Register Property |
| Admiral Theater | 2343 California Avenue SW | King | WA | Seattle | 12/7/1989 | National Register Property |
| Adventuress | Lake Union Dry Dock | King | WA | Seattle | 4/11/1989 | National Historic Landmark |
| Agen Warehouse | 1201 Western Avenue | King | WA | Seattle | 1/23/1998 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|----------------------------------|---|---------------|--------------|-------------|--------------------|----------------------------|
| Agen, John B., Property | 645 137 th NW | King | WA | Seattle | 2/10/1995 | National Register Property |
| Alaska Trade Building | 1915-1919 First Avenue | King | WA | Seattle | 5/6/1971 | National Register Property |
| Alki Point and Duwamish Head | North side Alki Avenue SW from 65 th SW to 58 th SW | King | WA | Seattle | 12/9/1970 | National Register Property |
| Alki Point Light Station | Alki Avenue SW | King | WA | Seattle | 11/19/1976 | National Register Property |
| Arctic Building | 306 Cherry Street | King | WA | Seattle | 11/28/1978 | National Register Property |
| Arthur Foss (Tugboat) | 860 Terry Avenue North, Lake Union | King | WA | Seattle | 4/11/1989 | National Historic Landmark |
| Assay Office | 613 Ninth Avenue | King | WA | Seattle | 3/16/1972 | National Register Property |
| Aurora Avenue Bridge | Aurora Avenue North over Lake Washington Ship Canal | King | WA | Seattle | 7/16/1982 | National Register Property |
| Baker Street House | 2002 NW 60 th Street | King | WA | Seattle | 2/18/1998 | National Register Property |
| Ballard Avenue Historic District | Ballard Avenue from Northwest Market to Northwest Dock Street | King | WA | Seattle | 7/1/1976 | National Register Property |
| Ballard-Howe House | 22 West Highland Drive | King | WA | Seattle | 3/26/1979 | National Register Property |
| Ballinger, Richard A., House | 1733 39 th Avenue | King | WA | Seattle | 5/28/1976 | National Register Property |
| Barnes Building | 2320-2322 First Avenue | King | WA | Seattle | 2/24/1975 | National Register Property |
| Bell Apartments | 2326 First Avenue | King | WA | Seattle | 7/12/1974 | National Register Property |
| Bowles, Jesse C., House | 2540 Shoreland Drive South | King | WA | Seattle | 11/6/1986 | National Register Property |
| Butterworth Building | 1921 First Avenue | King | WA | Seattle | 5/14/1971 | National Register Property |
| Camlin Hotel | 1619 Ninth | King | WA | Seattle | 3/25/1999 | National Register Property |
| Carnegie Library-Ballard | 2026 Northwest Market Street | King | WA | Seattle | 6/15/1979 | National Register Property |
| Chelsea Family Hotel | 620 West Olympic Place | King | WA | Seattle | 12/14/1978 | National Register Property |
| Chinese Baptist Church | 925 S. King Street | King | WA | Seattle | 7/31/1986 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|---|---|---------------|--------------|-------------|--------------------|----------------------------|
| Chittenden Locks and Lake Washington Ship Canal | Salmon Bay | King | WA | Seattle | 12/14/1978 | National Register Property |
| Church of the Blessed Sacrament, Priory, and School | 5040-5041 Ninth Avenue NE | King | WA | Seattle | 1/12/1984 | National Register Property |
| Cobb Building | 1301-1309 Fourth Avenue | King | WA | Seattle | 8/3/1984 | National Register Property |
| Coliseum Theater | Fifth Avenue and Pike Street | King | WA | Seattle | 7/7/1975 | National Register Property |
| Colman Building | 811 First Street | King | WA | Seattle | 3/16/1972 | National Register Property |
| Colonial Hotel | 1119-1123 First Avenue | King | WA | Seattle | 4/29/1982 | National Register Property |
| Columbia City Historic District | Roughly bounded by Alaska Street, Hudson Street, and extending approximately one half block east and west of Rainier Avenue | King | WA | Seattle | 1/18/2005 | National Register Property |
| Cornish School | 710 East Roy Street | King | WA | Seattle | 8/29/1977 | National Register Property |
| Cowen Park Bridge | 15 th Avenue North | King | WA | Seattle | 7/16/1982 | National Register Property |
| De La Mar Apartments | 115 West Olympic Place | King | WA | Seattle | 8/18/1980 | National Register Property |
| Dearborn, Henry H., House | 1117 Minor Avenue | King | WA | Seattle | 1/23/1998 | National Register Property |
| Dunn Gardens | 13533 Northshire Road NW | King | WA | Seattle | 12/15/1994 | National Register Property |
| Duwamish | Lake Washington Ship Canal, Chittenden Locks | King | WA | Seattle | 6/30/1989 | National Historic Landmark |
| Eagles Auditorium Building | 1416 Seventh Avenue | King | WA | Seattle | 7/14/1983 | National Register Property |
| El Rio Apartment Hotel | 1922-1928 Ninth Avenue | King | WA | Seattle | 11/30/1999 | National Register Property |
| Federal Office Building | 909 First Avenue | King | WA | Seattle | 4/30/1979 | National Register Property |
| Ferry, Pierre P., House | 1531 Tenth Avenue East | King | WA | Seattle | 4/18/1979 | National Register Property |
| Fire Station No. 18 | 5427 Russell Avenue NW | King | WA | Seattle | 6/19/1973 | National Register Property |
| Fire Station No. 23 | 18 th Avenue and Columbia Street | King | WA | Seattle | 9/10/1971 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|--|--|---------------|--------------|-------------|--------------------|----------------------------|
| Fire Station No. 25 | 1400 Harvard Avenue | King | WA | Seattle | 4/14/1972 | National Register Property |
| First Methodist Episcopal Church | 801 Fifth Avenue | King | WA | Seattle | 1/3/2011 | National Register Property |
| First Methodist Protestant Church of Seattle | 128 16 th Avenue East | King | WA | Seattle | 5/14/1993 | National Register Property |
| Fort Lawton | Fort Lawton | King | WA | Seattle | 8/15/1978 | National Register Property |
| Fox Theatre | 702-710 Olive Way | King | WA | Seattle | 10/7/1991 | National Register Property |
| Fremont Building | 3419 Fremont Avenue North | King | WA | Seattle | 11/21/1992 | National Register Property |
| Galland, Caroline Kline, House | 1605 17 th Avenue | King | WA | Seattle | 2/8/1980 | National Register Property |
| Globe Building, Beebe Building and Hotel Cecil | 1001-1023 First Avenue | King | WA | Seattle | 4/29/1982 | National Register Property |
| Graham, J.S., Store | 119 Pine Street | King | WA | Seattle | 12/7/1989 | National Register Property |
| Grand Pacific Hotel | 1115-1117 First Avenue | King | WA | Seattle | 5/13/1982 | National Register Property |
| Guiry and Schillestad Building | 2101-2111 First Avenue | King | WA | Seattle | 8/28/1985 | National Register Property |
| Harvard-Belmont District | Bellevue Place, Broadway, Boylston and Harvard Avenues | King | WA | Seattle | 5/13/1982 | National Register Property |
| Hill, Samuel, House | 814 East Highland Drive | King | WA | Seattle | 5/30/1976 | National Register Property |
| Hoge Building | 705 Second Avenue | King | WA | Seattle | 4/14/1983 | National Register Property |
| Holyoke Building | 1018-1022 First Avenue or 107 Spring Street | King | WA | Seattle | 6/3/1976 | National Register Property |
| Home of the Good Shepherd | 50 th and Sunnyside North | King | WA | Seattle | 5/23/1978 | National Register Property |
| Hull Building | 2401-2405 First Avenue | King | WA | Seattle | 1/27/1983 | National Register Property |
| Hyde, Samuel, House | 3726 East Madison Street | King | WA | Seattle | 4/12/1982 | National Register Property |
| Immanuel Lutheran Church | 1215 Thomas Street | King | WA | Seattle | 2/25/1982 | National Register Property |
| Interlake Public School | 4416 Wallingford Avenue North | King | WA | Seattle | 7/14/1983 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|--|--|---------------|--------------|-------------|--------------------|----------------------------|
| Iron Pergola | First Avenue and Yesler Way | King | WA | Seattle | 8/26/1971 | National Register Property |
| John B. Allen School | 6532 Phinney Avenue North | King | WA | Seattle | 5/11/2011 | National Register Property |
| King Street Station | 3 rd Street South and South King Street | King | WA | Seattle | 4/13/1973 | National Register Property |
| Kraus, Joseph, House | 2812 Mt. St. Helens Place | King | WA | Seattle | 2/25/1982 | National Register Property |
| Leamington Hotel and Apartments | 317 Marion Street | King | WA | Seattle | 5/13/1994 | National Register Property |
| Leary, Eliza Ferry, House | 1551 10 th East | King | WA | Seattle | 4/14/1972 | National Register Property |
| Liggett Building | 1424 Fourth Avenue | King | WA | Seattle | 8/31/2011 | National Register Property |
| Lyon Building | 607 Third Avenue | King | WA | Seattle | 6/30/1995 | National Register Property |
| M.V. Vashon | Pier 52 | King | WA | Seattle | 4/29/1982 | National Register Property |
| Merrill, R.D., House | 919 Harvard Avenue East | King | WA | Seattle | 8/22/1977 | National Register Property |
| Moore Theatre and Hotel | 1932 2 nd Avenue | King | WA | Seattle | 8/30/1974 | National Register Property |
| Mount Baker Ridge Tunnel | East of WA 90 | King | WA | Seattle | 7/16/1982 | National Register Property |
| National Building | 1006-1024 Western Avenue | King | WA | Seattle | 4/29/1982 | National Register Property |
| Naval Air Station (NAS) Seattle | 7400 Sand Point Way NE | King | WA | Seattle | 7/2/2010 | National Register Property |
| Naval Military Hangar-University of Washington Shell House | University of Washington Campus | King | WA | Seattle | 7/10/1975 | National Register Property |
| Naval Reserve Armory | 860 Terry Avenue North | King | WA | Seattle | 7/8/2009 | National Register Property |
| New Richmond Hotel | 308 Fourth Avenue South | King | WA | Seattle | 7/12/2011 | National Register Property |
| New Washington Hotel | 1902 Second Avenue | King | WA | Seattle | 9/28/1989 | National Register Property |
| Nihon Go Gakko | 1414 South Weller Street | King | WA | Seattle | 6/23/1982 | National Register Property |
| Nippon Kan | 622 South Washington Street | King | WA | Seattle | 5/22/1978 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|--|--|---------------|--------------|-------------|--------------------|----------------------------|
| Northern Bank and Trust Building | 1500 Fourth Avenue | King | WA | Seattle | 3/26/2003 | National Register Property |
| Northern Life Tower | 1212 3 rd Avenue | King | WA | Seattle | 5/30/1975 | National Register Property |
| Old Georgetown City Hall | 6202 13 th Avenue South | King | WA | Seattle | 4/14/1983 | National Register Property |
| Old Public Safety Building | Fourth Avenue and Terrace, and Fifth Avenue and Yesler Way | King | WA | Seattle | 6/19/1973 | National Register Property |
| Olympic Hotel | 1200-1220 4 th Avenue or 400-412 Seneca | King | WA | Seattle | 6/15/1979 | National Register Property |
| Paramount Theatre | 911 Pine Street | King | WA | Seattle | 10/9/1974 | National Register Property |
| Park Department, Division of Playgrounds | 301 Terry Avenue | King | WA | Seattle | 3/16/1972 | National Register Property |
| Parsons, William, House | 2706 Harvard Avenue East | King | WA | Seattle | 6/21/1991 | National Register Property |
| Phillips House | 711-713 East Union Street | King | WA | Seattle | 4/29/1993 | National Register Property |
| Pike Place Public Market Historic District | Bounded by Western Avenue, Virginia Street, First Avenue, and the south wall of the Economy Market and Outlook Bldg. | King | WA | Seattle | 7/25/2011 | National Register Property |
| Pioneer Building, Pergola, and Totem Pole | 606 First Avenue and Yesler Way | King | WA | Seattle | 5/5/1977 | National Historic Landmark |
| Pioneer Hall | 1642 43 rd Avenue East | King | WA | Seattle | 6/5/1970 | National Register Property |
| Pioneer Square- Skid Road Historic District (Including Boundary Increases) | Roughly bounded by the Viaduct, King St., 6 th and 5 th Avenues, James and Columbia St., including the 500 block of First Avenue South | King | WA | Seattle | 1/15/2008 | National Register Property |
| Pirate (R-Class Sloop) | Center for Wooden Boats, 1010 Valley Street | King | WA | Seattle | 6/2/2000 | National Register Property |
| Queen Anne Club | 1530 Queen Anne Avenue North | King | WA | Seattle | 1/27/1983 | National Register Property |
| Queen Anne High School | 215 Galer Street | King | WA | Seattle | 11/21/1985 | National Register Property |
| Queen Anne Post Office and Regional Headquarters | 415 First Avenue North | King | WA | Seattle | 7/12/2011 | National Register Property |
| Queen Anne Public School | 515 West Galer Street | King | WA | Seattle | 7/30/1975 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|---|--|---------------|--------------|-------------|--------------------|----------------------------|
| Rainier Club | 810 Fourth Avenue | King | WA | Seattle | 4/22/1976 | National Register Property |
| Ravenna Park Bridge | 20 th Avenue, spans Ravenna Park Ravine | King | WA | Seattle | 7/16/1982 | National Register Property |
| Raymond-Ogden Mansion | 702 35 th Avenue | King | WA | Seattle | 6/15/1979 | National Register Property |
| Redelsheimer-Ostrander House | 200 40 th Avenue East | King | WA | Seattle | 1/12/1990 | National Register Property |
| Relief (Lightship) | 860 Terry Avenue North, Lake Union | King | WA | Seattle | 4/11/1989 | National Historic Landmark |
| Roanoke Park Historic District | Roughly bounded by Shelby Street, Roanoke Street, Harvard Avenue, and Tenth Avenue | King | WA | Seattle | 5/22/2009 | National Register Property |
| Ronald, Judge James T., House | 421 30 th Street South | King | WA | Seattle | 2/20/1975 | National Register Property |
| S.S. San Mateo | South Lake Union | King | WA | Seattle | 4/7/1971 | National Register Property |
| Schmitz Park Bridge | Spans Schmitz Park Ravine | King | WA | Seattle | 7/16/1982 | National Register Property |
| Seattle Chinatown Historic District | Roughly bounded by Main and Jackson on the north, Weller on the south, Fifth on the west, and I-5 on the east. | King | WA | Seattle | 11/6/1986 | National Register Property |
| Seattle Electric Company Georgetown Steam Plant | Off WA 99 at King County Airport, NE Corner | King | WA | Seattle | 8/1/1978 | National Historic Landmark |
| Seattle Public Library-Columbia Branch | 4721 Rainier Avenue South | King | WA | Seattle | 8/3/1982 | National Register Property |
| Seattle Public Library-Fremont Branch | 731 North 35 th Street | King | WA | Seattle | 8/3/1982 | National Register Property |
| Seattle Public Library-Green Lake Branch | 7364 East Green Lake Drive North | King | WA | Seattle | 8/3/1982 | National Register Property |
| Seattle Public Library-Queen Anne Branch | 400 West Garfield Street | King | WA | Seattle | 8/3/1982 | National Register Property |
| Seattle Public Library-University Branch | 5009 Roosevelt Way NE | King | WA | Seattle | 8/3/1982 | National Register Property |
| Seattle Public Library-West Seattle Branch | 2306 42 nd Avenue SW | King | WA | Seattle | 8/3/1982 | National Register Property |
| Seattle, Chief of the Suquamish, Statue | Intersection of Fifth Avenue, Denny Way, and Cedar Street | King | WA | Seattle | 4/19/1984 | National Register Property |
| Shafer Building | 523 Pine Street | King | WA | Seattle | 6/30/1995 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|---|---|---------------|--------------|-------------|--------------------|----------------------------|
| Skinner Building | 1300-1334 Fifth Avenue | King | WA | Seattle | 11/28/1978 | National Register Property |
| Stimson-Green House | 1204 Minor Avenue | King | WA | Seattle | 5/4/1976 | National Register Property |
| Storey, Ellsworth, Cottages Historic District | 1706-1816 South Lake Washington Blvd. and 1725-1729 South 36 th Avenue | King | WA | Seattle | 7/6/1976 | National Register Property |
| Storey, Ellsworth, Residences | 260, 270 East Dorffel Drive | King | WA | Seattle | 4/14/1972 | National Register Property |
| Stuart House and Gardens | 619 West Comstock | King | WA | Seattle | 4/14/1983 | National Register Property |
| Summit School | East Union Street and Summit Avenue | King | WA | Seattle | 10/4/1979 | National Register Property |
| Temple De Hirsch | 15 th Avenue and East Union Street | King | WA | Seattle | 1/5/1984 | National Register Property |
| Thompson, Will H., House | 3119 S. Day Street | King | WA | Seattle | 11/29/1979 | National Register Property |
| Times Building | 414 Olive Way | King | WA | Seattle | 1/27/1983 | National Register Property |
| Triangle Hotel and Bar | 551 First Avenue South | King | WA | Seattle | 5/3/1976 | National Register Property |
| Trinity Parish Church | 609 Eighth Avenue (at James Street) | King | WA | Seattle | 9/26/1991 | National Register Property |
| Turner-Koepf House | 2336 15 th Avenue South | King | WA | Seattle | 4/22/1976 | National Register Property |
| U.S. Court House | 1010 Fifth Avenue | King | WA | Seattle | 1/8/1980 | National Register Property |
| U.S. Immigrant Station and Assay Office | 815 Airport Way South | King | WA | Seattle | 1/1/1979 | National Register Property |
| U.S. Marine Hospital | 1131 14 th Avenue South | King | WA | Seattle | 12/21/1979 | National Register Property |
| Union Station | 4 th South and South Jackson Streets | King | WA | Seattle | 8/30/1974 | National Register Property |
| United Shopping Tower | 217 Pine Street | King | WA | Seattle | 8/18/1980 | National Register Property |
| US Immigration Building | 84 Union Street | King | WA | Seattle | 9/14/1987 | National Register Property |
| Victorian Apartments | 1234-1238 South King Street | King | WA | Seattle | 12/18/1990 | National Register Property |
| Virginia V. | 860 Terry Avenue North, Lake Union | King | WA | Seattle | 4/24/1973 | National Historic Landmark |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|---|--|---------------|--------------|---------------|--------------------|----------------------------|
| Voker, William, Building | 1000 Lenora Street | King | WA | Seattle | 10/13/1983 | National Register Property |
| Volunteer Park | Between E. Prospect and E. Galer Sts., and Federal and E. 15 th Aves. | King | WA | Seattle | 5/3/1976 | National Register Property |
| Wagner Houseboat | 2770 Westlake Avenue North | King | WA | Seattle | 2/19/1982 | National Register Property |
| Wallingford Fire and Police Station | 1629 North 45 th Street | King | WA | Seattle | 1/27/1983 | National Register Property |
| Ward, George W., House | 520 East Denny Way | King | WA | Seattle | 3/15/1972 | National Register Property |
| Washington Hall | 153 14 th Avenue | King | WA | Seattle | 12/13/2010 | National Register Property |
| Washington Street Pubic Boat Landing Facility | S. Washington Street, 100' Right of Way, west of Alaskan Way | King | WA | Seattle | 6/10/1974 | National Register Property |
| Wawona (Schooner) | 860 Terry Avenue North, Lake Union | King | WA | Seattle | 7/1/1970 | National Register Property |
| West Point Light Station | Vicinity of Fort Lawton | King | WA | Seattle | 8/16/1977 | National Register Property |
| Wilke Farmhouse | 1920 2 nd North | King | WA | Seattle | 11/1/1974 | National Register Property |
| Ye College Inn | 4000 University Way NE | King | WA | Seattle | 2/25/1982 | National Register Property |
| Zodiak (Schooner) | North Northlake Way and Northlake Place, Lake Union | King | WA | Seattle | 4/29/1982 | National Register Property |
| Building No. 105, Boeing Airplane Company | Purcell Avenue | King | WA | Tukwila | 8/26/1971 | National Register Property |
| Tukwila School | 14475 59 th Avenue South | King | WA | Tukwila | 11/29/1979 | National Register Property |
| Colvos Store | 123 rd Avenue SW and Cove Road | King | WA | Vashon Island | 8/10/2000 | National Register Property |
| Mukai Cold Process Fruit Barreling Plant | 18005 107 th Avenue SW; House: 18017 107 th SW | King | WA | Vashon Island | 9/26/1994 | National Register Property |
| Point Robinson Light Station | NE end of Maury Island in Puget Sound | King | WA | Vashon Island | 4/21/2004 | National Register Property |
| Shawnee House | 11608 SW Shawnee Road | King | WA | Vashon Island | 11/22/2000 | National Register Property |
| Steen, Helmer and Selma, House | 10924 SW Cove Road | King | WA | Vashon Island | 6/2/2000 | National Register Property |
| Vashon Hardware Store | 17601 99 th Avenue NW | King | WA | Vashon Island | 8/10/2000 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|---|---|---------------|--------------|-------------------|--------------------|----------------------------|
| Hollywood Farm | 14111 NE 145 th Street | King | WA | Woodinville | 12/15/1978 | National Register Property |
| Bainbridge Island Filipino Community Hall | 7566 NE High School Road | Kitsap | WA | Bainbridge Island | 3/21/1995 | National Register Property |
| Camp Major Hopkins | 900 Park Avenue NE | Kitsap | WA | Bainbridge Island | 11/30/2005 | National Register Property |
| Eagledale Ferry Dock at Taylor Avenue | Taylor Avenue | Kitsap | WA | Bainbridge Island | 5/8/2008 | National Register Property |
| Fort Ward Historic District and Expansion | Fort Ward, approximately 0.5 miles north of Beans Point | Kitsap | WA | Bainbridge Island | 1/12/1978 | National Register Property |
| Bremerton Elks Temple Lodge No. 1181 Building | 285 Fifth Street | Kitsap | WA | Bremerton | 3/3/1995 | National Register Property |
| Bremerton Main Post Office | 602 Pacific Avenue | Kitsap | WA | Bremerton | 8/7/1991 | National Register Property |
| Hospital Reservation Historic District | Roughly bounded by Mahan Avenue, Hoogewerf Road, Decatur Avenue, and Dewey Street | Kitsap | WA | Bremerton | 7/16/1990 | National Register Property |
| Marine Reservation Historic District | Bounded by Cole Street, Dewey Street, Decatur Avenue, and Doyen Street | Kitsap | WA | Bremerton | 7/16/1990 | National Register Property |
| Navy Yard Puget Sound | North shore of Sinclair Inlet | Kitsap | WA | Bremerton | 8/27/1992 | National Historic Landmark |
| Officers' Row Historic District | Roughly bounded by Mahan Avenue, Decatur Avenue, and Coghlan Road | Kitsap | WA | Bremerton | 7/16/1990 | National Register Property |
| Puget Sound Radio Station Historic District | Roughly bounded by Mahan Avenue, Coghlan Road, and Cottman Road | Kitsap | WA | Bremerton | 7/16/1990 | National Register Property |
| U.S.S. Missouri | Puget Sound Naval Shipyard | Kitsap | WA | Bremerton | 5/14/1971 | National Register Property |
| USS Hornet | Puget Sound Naval Shipyard | Kitsap | WA | Bremerton | 12/4/1991 | National Historic Landmark |
| Point No Point Light Station | East of Hansville | Kitsap | WA | Hansville | 8/10/1078 | National Register Property |
| Nelson, Charles F., House | Corner of Nelson and Crescent Valley Roads | Kitsap | WA | Olalla | 8/28/1973 | National Register Property |
| Port Gamble Historic District | On the NW end of Kitsap Peninsula near the entrance to Hood Canal, Puget Sound | Kitsap | WA | Port Gamble | 11/31/1966 | National Historic Landmark |
| Jackson Hall Memorial Community Hall | 9161 Washington Avenue | Kitsap | WA | Silverdale | 8/22/1995 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|---|---|---------------|--------------|-------------|--------------------|----------------------------|
| Agate Pass Bridge | State Route 305, spanning Agate Passage | Kitsap | WA | Suquamish | 5/24/1995 | National Register Property |
| Birge, George E., House | 715 E Street | Lewis | WA | Centralia | 12/1/1986 | National Register Property |
| Borst, Joseph, House | 302 Bryden Avenue | Lewis | WA | Centralia | 12/27/1977 | National Register Property |
| Centralia Downtown Historic District | Roughly bounded by Center Street, Burlington Northern Right-of-Way, Walnut Street, and Pearl Street | Lewis | WA | Centralia | 8/18/2003 | National Register Property |
| Centralia Union Depot | 210 Railroad Street | Lewis | WA | Centralia | 5/19/1988 | National Register Property |
| Hubbard Bungalow | 717 North Washington Avenue | Lewis | WA | Centralia | 8/24/2005 | National Register Property |
| Olympic Club Saloon | 112 North Tower | Lewis | WA | Centralia | 3/10/1980 | National Register Property |
| The Sentinel | Washington Park, bounded by Main, Pearl, Locust, and Silver | Lewis | WA | Centralia | 12/17/1991 | National Register Property |
| US Post Office-Centralia Main | 214 West Locust | Lewis | WA | Centralia | 8/7/1991 | National Register Property |
| Burlington Northern Depot | Off U.S. 99 | Lewis | WA | Chehalis | 11/6/1974 | National Register Property |
| Chehalis Downtown Historic District | Roughly bounded by Park and Front Streets, Washington and Cascade Avenues | Lewis | WA | Chehalis | 11/21/1997 | National Register Property |
| Everest, Wesley, Gravesite | Sticklin-Greenwood Memorial Park, 1905 Johnson Road | Lewis | WA | Chehalis | 12/17/1991 | National Register Property |
| Hillside Historic District | Roughly bounded by Jefferson Avenue, Hill Street, Washington Avenue, and 9 th Street | Lewis | WA | Chehalis | 8/1/1996 | National Register Property |
| Jackson, John R., House | At Mary's Corner, eleven miles south of Chehalis on Jackson Hwy | Lewis | WA | Chehalis | 1/11/1974 | National Register Property |
| McFadden, O.B., House | 1639 Chehalis Avenue | Lewis | WA | Chehalis | 4/1/1975 | National Register Property |
| Palmer, O.K., House | 673 NW Pennsylvania | Lewis | WA | Chehalis | 5/15/1986 | National Register Property |
| Pennsylvania Avenue-West Side Historic District | 600 Block NW St. Helens; 440-723 Pennsylvania Avenue | Lewis | WA | Chehalis | 12/3/1991 | National Register Property |
| St. Helens Hotel | 440 North Market Boulevard | Lewis | WA | Chehalis | 10/8/1991 | National Register Property |
| US Post Office-Chehalis Main | 225 NW Cascade Avenue | Lewis | WA | Chehalis | 5/30/1991 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|--|---|---------------|--------------|---------------------------------|--------------------|----------------------------|
| Mineral Log Lodge | East side of Mineral Lake on Hill Road | Lewis | WA | Mineral | 3/26/1975 | National Register Property |
| Olsen, Ben, House | South end of D Street | Lewis | WA | Vader | 11/7/1976 | National Register Property |
| Harstine Island Community Hall | North Island Drive and Hartstine Island Drive | Mason | WA | Hartstene Island | 3/16/1989 | National Register Property |
| Haddaway Hall | 4301 N Stevens | Peirce | WA | Tacoma | 1/27/1983 | National Register Property |
| Alderton School | 9512 Orting Highway East | Pierce | WA | Alderton | 7/15/1987 | National Register Property |
| Anderson Island School | Eckenstam-Johnson Road | Pierce | WA | Anderson Island | 7/15/1987 | National Register Property |
| Dupont Village Historic District | Roughly bounded by Santa Cruz, Brandywine, Dupont, and Penniman | Pierce | WA | Dupont | 9/10/1987 | National Register Property |
| Galbraith, John, House | 140 South Oak Street East | Pierce | WA | Eatonville | 3/19/1982 | National Register Property |
| Elbe Evangelical Lutheran Church | 54222 Mountain Highway East | Pierce | WA | Elbe | 10/8/1976 | National Register Property |
| Red Shield Inn | Building 4320, Main Street | Pierce | WA | Fort Lewis Military Reservation | 2/14/1979 | National Register Property |
| Fox Island School | Gway Drive and Ninth Street | Pierce | WA | Fox Island | 7/15/1987 | National Register Property |
| Arletta School | Junction of Ninety-Sixth Avenue and Thirty-Sixth Street | Pierce | WA | Gig Harbor | 9/28/1987 | National Register Property |
| Glencove Hotel | Rt. 4, Box 4616 A | Pierce | WA | Gig Harbor | 5/22/1978 | National Register Property |
| Midway School | 4121 Harborview Drive | Pierce | WA | Gig Harbor | 7/15/1987 | National Register Property |
| Skansie, Andrew and Bertha, Net Shed and House | 3207 Harborview Drive | Pierce | WA | Gig Harbor | 8/31/2011 | National Register Property |
| Wollochet-Point Fosdick School | 3409 East Bay Drive | Pierce | WA | Gig Harbor | 7/15/1987 | National Register Property |
| Dadisman, David, House | 1814 A Street Kpn | Pierce | WA | Home | 3/31/1995 | National Register Property |
| Home School | 6 th and C Streets | Pierce | WA | Home | 4/12/1982 | National Register Property |
| Longbranch School Gymnasium | Gig Harbor-Longbranch Road | Pierce | WA | Lakebay | 9/28/1987 | National Register Property |
| Adjutant General's Residence | Camp Murray | Pierce | WA | Lakewood | 5/1/1991 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|--|--|---------------|--------------|-------------|--------------------|----------------------------|
| Boatman-Ainsworth House | 6000 112 th Street SW | Pierce | WA | Lakewood | 2/19/1982 | National Register Property |
| Rhodesleigh | 10815 Greendale Drive SW | Pierce | WA | Lakewood | 1/27/1983 | National Register Property |
| Thornewood | 8601 and 8307 North Thorne Lane SW and 4 Thornewood Lane SW | Pierce | WA | Lakewood | 3/18/1982 | National Register Property |
| Woodbrook Hunt Club | 6122 150 th Street SW | Pierce | WA | Lakewood | 8/29/1997 | National Register Property |
| McMillan School | WA 162 | Pierce | WA | McMillan | 7/15/1987 | National Register Property |
| Woolrey-Koehler Hop Kiln | 176 th Street East (Leach Road) | Pierce | WA | Orting | 10/13/1983 | National Register Property |
| Old Main- Pacific Lutheran University | Park Avenue South and Garfield Street | Pierce | WA | Parkland | 1/27/1984 | National Register Property |
| Parkland Lutheran Children's Home | 12123 A Street Apartments | Pierce | WA | Parkland | 8/7/1996 | National Register Property |
| Smith, Peter, Farm-Donation Land Claim | 12504 Spanaway Loop Road | Pierce | WA | Parkland | 3/9/1995 | National Register Property |
| Purdy Bridge | Spans Henderson Bay | Pierce | WA | Purdy | 7/16/1982 | National Register Property |
| Christ Episcopal Church | 210 Fifth Street SW | Pierce | WA | Puyallup | 12/15/1994 | National Register Property |
| Lotz, J.H., House | 1004 2 nd Avenue NW | Pierce | WA | Puyallup | 3/10/1980 | National Register Property |
| Meeker, Ezra, Mansion | 321 Pioneer East | Pierce | WA | Puyallup | 8/26/1971 | National Register Property |
| Winnifred Street Bridge | Winnifred Street, spanning the Burlington Northern Railroad tracks | Pierce | WA | Renton | 3/28/1995 | National Register Property |
| Fort Steilacoom | Steilacoom Blvd. | Pierce | WA | Steilacoom | 11/25/1977 | National Register Property |
| Keach, Philip House | 1802 Commercial Street | Pierce | WA | Steilacoom | 7/27/1973 | National Register Property |
| Orr, Nathaniel, Home and Orchard | 1811 Rainier Street | Pierce | WA | Steilacoom | 11/21/1972 | National Register Property |
| Steilacoom Catholic Church | 1810 Nisqually | Pierce | WA | Steilacoom | 7/30/1974 | National Register Property |
| Steilacoom Historic District | Between Nisqually Street and Puget Sound | Pierce | WA | Steilacoom | 11/24/1975 | National Register Property |
| Dieringer School | 1808 East Valley | Pierce | WA | Sumner | 4/14/1997 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|--|--|---------------|--------------|-------------|--------------------|----------------------------|
| Orton, Charles W., House | 7473 Riverside Road East | Pierce | WA | Sumner | 7/28/1983 | National Register Property |
| Ryan House | 1228 Main Street | Pierce | WA | Sumner | 6/30/1976 | National Register Property |
| Williams, Herbert, House | 1711 Elm Street East | Pierce | WA | Sumner | 10/18/1984 | National Register Property |
| Williams, Sidney, House | 15003 Elm Street East | Pierce | WA | Sumner | 10/18/1984 | National Register Property |
| Annobee Apartments | 319-323 North I Street | Pierce | WA | Tacoma | 7/28/1999 | National Register Property |
| Balfour Dock Building | 705 Dock Street | Pierce | WA | Tacoma | 12/29/2006 | National Register Property |
| Blue Mouse Theatre | 2611 North Proctor Street | Pierce | WA | Tacoma | 1/13/2010 | National Register Property |
| Bowes Building | 100 South Ninth Street | Pierce | WA | Tacoma | 11/23/1979 | National Register Property |
| Browns Point Lighthouse and Keeper's Cottage | 201 Tulalip NE | Pierce | WA | Tacoma | 3/29/1989 | National Register Property |
| Building at 1602 South G Street | 605 South G Street | Pierce | WA | Tacoma | 3/16/1995 | National Register Property |
| Building at 712-71 Sixth Avenue | 712-716 Sixth Avenue | Pierce | WA | Tacoma | 3/16/1995 | National Register Property |
| Cabin No. 97 | #97, Salmon Beach | Pierce | WA | Tacoma | 12/13/1977 | National Register Property |
| Camp Six | Within Point Defiance Park | Pierce | WA | Tacoma | 3/7/1973 | National Register Property |
| City Waterway Bridge | Spans City Waterway, 11 th Street | Pierce | WA | Tacoma | 7/16/1982 | National Register Property |
| Custer School | 7700 Steilacoom Boulevard SW | Pierce | WA | Tacoma | 7/15/1987 | National Register Property |
| Devoe, Emma Smith, House | 208 East 133 rd Street | Pierce | WA | Tacoma | 5/6/1993 | National Register Property |
| Drum, Henry, House | 9 St. Helens St. | Pierce | WA | Tacoma | 7/20/1977 | National Register Property |
| Engine House No. 11 | 3802 McKinley Avenue | Pierce | WA | Tacoma | 5/2/1986 | National Register Property |
| Engine House No. 13 | 3825 Twenty-Fifth Street | Pierce | WA | Tacoma | 5/2/1986 | National Register Property |
| Engine House No. 4 | 220-222-224 East 26 th Street | Pierce | WA | Tacoma | 10/18/1984 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|---|--------------------------------------|---------------|--------------|-------------|--------------------|----------------------------|
| Engine House No. 8 | 4301 South L Street | Pierce | WA | Tacoma | 5/2/1986 | National Register Property |
| Engine House No. 9 | 611 N Pine Street | Pierce | WA | Tacoma | 10/18/1984 | National Register Property |
| Fire Alarm Station | 415 South Tacoma Avenue | Pierce | WA | Tacoma | 5/2/1986 | National Register Property |
| Fire Boat No. 1 | Marine Park on Ruston Way | Pierce | WA | Tacoma | 12/2/1983 | National Historic Landmark |
| Fire Station No. 1 | 425 South Tacoma Avenue | Pierce | WA | Tacoma | 5/2/1986 | National Register Property |
| Fire Station No. 10 | 7247 South Park Avenue | Pierce | WA | Tacoma | 5/2/1986 | National Register Property |
| Fire Station No. 14 | 4701 North Forty-First Street | Pierce | WA | Tacoma | 5/2/1986 | National Register Property |
| Fire Station No. 15 | 3510 East Eleventh Street | Pierce | WA | Tacoma | 5/2/1986 | National Register Property |
| Fire Station No. 2 | 2701 South Tacoma Avenue | Pierce | WA | Tacoma | 5/2/1986 | National Register Property |
| Fire Station No. 5 | 1453 South Twelfth Street | Pierce | WA | Tacoma | 5/2/1986 | National Register Property |
| Fireboat Station | 302 East Eleventh Street | Pierce | WA | Tacoma | 5/2/1986 | National Register Property |
| Fort Nisqually Granary and Factor's House | Point Defiance Park | Pierce | WA | Tacoma | 4/15/1970 | National Historic Landmark |
| House at 1510 Tacoma Avenue South | 1510 Tacoma Avenue South | Pierce | WA | Tacoma | 3/10/1995 | National Register Property |
| House at 1610 South G Street | 1610 South G Street | Pierce | WA | Tacoma | 3/10/1995 | National Register Property |
| House at 2314 South Ainsworth Avenue | 2314 South Ainsworth Avenue | Pierce | WA | Tacoma | 3/10/1995 | National Register Property |
| House at 2326 South L Street | 2326 South L Street | Pierce | WA | Tacoma | 3/10/1995 | National Register Property |
| House at 605 South G Street | 605 South G Street | Pierce | WA | Tacoma | 3/13/1995 | National Register Property |
| House at 708-710 South 8 th Street | 708-710 South 8 th Street | Pierce | WA | Tacoma | 3/16/1995 | National Register Property |
| House at 802-804 South G Street | 802-804 South G Street | Pierce | WA | Tacoma | 3/16/1995 | National Register Property |
| Masonic Temple | 47 St. Helens | Pierce | WA | Tacoma | 4/29/1993 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|-------------------------------------|--|---------------|--------------|-------------|--------------------|----------------------------|
| McChord Field Historic District | McChord Air Force Base | Pierce | WA | Tacoma | 12/12/2008 | National Register Property |
| McIlvaine Apartments | 920 S 9 TH Street | Pierce | WA | Tacoma | 3/16/1995 | National Register Property |
| Murray, Frederick H., House | 402 North Sheridan Avenue | Pierce | WA | Tacoma | 8/23/1985 | National Register Property |
| Nihon Go Gakko | 1715 South Tacoma Avenue | Pierce | WA | Tacoma | 8/30/1984 | National Register Property |
| North Slope Historic District | Bounded by Division Avenue, N. Grant Avenue, N. Steele Avenue, and N. I Street | Pierce | WA | Tacoma | 3/28/2003 | National Register Property |
| Northern Pacific Office Building | 621 Pacific Avenue | Pierce | WA | Tacoma | 5/4/1976 | National Register Property |
| Old City Hall | 7 th Avenue between Commerce and Pacific | Pierce | WA | Tacoma | 5/17/1974 | National Register Property |
| Old City Hall Historic District | Roughly bounded by St. Helens Avenue, Court C Freeway Spur, 7 th and 9 th Streets. | Pierce | WA | Tacoma | 12/23/1977 | National Register Property |
| Pacific Brewing and Malting Company | South 25 th between C Street and Jefferson Avenue | Pierce | WA | Tacoma | 7/31/1978 | National Register Property |
| Pacific National Bank Building | 1302 Pacific Avenue | Pierce | WA | Tacoma | 3/7/1980 | National Register Property |
| Pantages Theatre | 901 and 99 Broadway | Pierce | WA | Tacoma | 11/7/1976 | National Register Property |
| Perkins Building | 1101 A Street | Pierce | WA | Tacoma | 11/22/2000 | National Register Property |
| Pythian Temple | 924-926 ½ Broadway | Pierce | WA | Tacoma | 8/23/1985 | National Register Property |
| Rhodes Medical Arts Building | 740 St. Helens Avenue | Pierce | WA | Tacoma | 11/21/1978 | National Register Property |
| Rialto Theater | 310 Ninth Street | Pierce | WA | Tacoma | 8/21/1992 | National Register Property |
| Rust, William Ross, House | 1001 North I Street | Pierce | WA | Tacoma | 8/23/1985 | National Register Property |
| Sandberg-Schoenfeld Buildings | 1411-1423 Pacific Avenue | Pierce | WA | Tacoma | 8/12/1999 | National Register Property |
| Schultz Apartments | 1002 South 12 th Street | Pierce | WA | Tacoma | 3/16/1995 | National Register Property |
| Slavonian Hall | 2306 North 30 th Street | Pierce | WA | Tacoma | 11/7/1976 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|--|---|---------------|--------------|-------------|--------------------|----------------------------|
| South J Street Historic District | 708, 710, 712, 714, 716, 718, 720, 722 South J Street | Pierce | WA | Tacoma | 5/8/1986 | National Register Property |
| Sprague Building | 1501-1505 Pacific Avenue | Pierce | WA | Tacoma | 11/21/1985 | National Register Property |
| St. Peter's Episcopal Church | Starr Street between No. 29 th and 30 th | Pierce | WA | Tacoma | 11/5/1974 | National Register Property |
| St. Rita's Church | 1403 South Ainsworth | Pierce | WA | Tacoma | No date available | National Register Property |
| Stadium-Seminary Historic District | Roughly bounded by 1 st , I, 10 th Streets and Shoreline | Pierce | WA | Tacoma | 5/26/1977 | National Register Property |
| Sunset Telephone and Telegraph Building | 1101 Fawcett Avenue | Pierce | WA | Tacoma | 8/23/1985 | National Register Property |
| Tacoma Mausoleum | 5302 South Junett Street | Pierce | WA | Tacoma | 4/21/2000 | National Register Property |
| Tacoma Narrows Bridge Ruins | Highway 16 over the Tacoma Narrows | Pierce | WA | Tacoma | 8/31/1992 | National Register Property |
| Union Depot-Warehouse Historic District | Roughly bounded by railroad tracks, 15 th , 23 rd and Market Street | Pierce | WA | Tacoma | 4/2/1980 | National Register Property |
| Union Passenger Station | 1713 Pacific Avenue | Pierce | WA | Tacoma | 3/15/1974 | National Register Property |
| US Post Office-Tacoma Downtown Station- Federal Building | 1102 South A Street | Pierce | WA | Tacoma | 5/30/1991 | National Register Property |
| Walker Apartment Hotel | 405 Sixth Avenue | Pierce | WA | Tacoma | 5/16/1994 | National Register Property |
| Washington Building | 1019 Pacific Avenue | Pierce | WA | Tacoma | 7/1/2009 | National Register Property |
| Wright Park and Seymour Conservatory | Division Avenue to 6 th Avenue, between South G and I streets | Pierce | WA | Tacoma | 10/8/1976 | National Register Property |
| Y.M.C.A. Building | 714 Market Street | Pierce | WA | Tacoma | 1/27/1983 | National Register Property |
| Yuncker, John F., House | 519 South G Street | Pierce | WA | Tacoma | 8/23/1985 | National Register Property |
| Bates-Tanner Farm | 3429 240 th Street SE | Snohomish | WA | Bothell | 3/9/1995 | National Register Property |
| North Creek School | 1129 208 th Street SE | Snohomish | WA | Bothell | 5/19/1994 | National Register Property |
| Winningham Farm | 3214 228 th Street SE | Snohomish | WA | Bothell | 5/13/1994 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|--|--|---------------|--------------|-------------|--------------------|----------------------------|
| Carnegie, Andrew, Library-Edmonds | 118 Fifth Avenue North | Snohomish | WA | Edmonds | 4/24/1973 | National Register Property |
| Butler-Jackson House | 1703 Grand Avenue | Snohomish | WA | Everett | 5/14/1998 | National Register Property |
| Carnegie Library-Everett | 3001 Oakes Avenue | Snohomish | WA | Everett | 12/6/1975 | National Register Property |
| Coaster II | C Dock South, Port of Everett | Snohomish | WA | Everett | 9/28/1989 | National Register Property |
| Commerce Building | 1801 Hewitt Avenue | Snohomish | WA | Everett | 10/1/1992 | National Register Property |
| Equator (Schooner) | 14 th Street Yacht Basin | Snohomish | WA | Everett | 4/14/1972 | National Register Property |
| Everett City Hall | 3002 Wetmore Avenue | Snohomish | WA | Everett | 5/2/1990 | National Register Property |
| Everett Fire Station No. 2 | 2702 Hoyt Avenue | Snohomish | WA | Everett | 5/2/1990 | National Register Property |
| Everett High School | 2400 Colby Avenue | Snohomish | WA | Everett | 6/4/1997 | National Register Property |
| Floral Hall | Forest Park | Snohomish | WA | Everett | 4/26/1990 | National Register Property |
| Hartley, Roland, House | 2320 Rucker Avenue | Snohomish | WA | Everett | 5/2/1986 | National Register Property |
| Hewitt Avenue Historic District | 1620-1915 Hewitt Avenue and portions of Wetmore, Rockefeller, Oakes, and Lombard Avenues | Snohomish | WA | Everett | 12/13/2010 | National Register Property |
| Knights of Columbus Community Center and War Memorial Building | 1611 Everett Avenue | Snohomish | WA | Everett | 2/26/1979 | National Register Property |
| McCabe Building | 3120 Hewitt Avenue | Snohomish | WA | Everett | 10/21/1977 | National Register Property |
| Monte Cristo Hotel | 1507 Well Street | Snohomish | WA | Everett | 6/3/1976 | National Register Property |
| Rucker Hill Historic District | Laurel, Snohomish, Niles, Warren, Bell, Tulalip, 33 rd , and 34 th | Snohomish | WA | Everett | 11/8/1989 | National Register Property |
| Rucker House | 412 Laurel Drive | Snohomish | WA | Everett | 12/4/1975 | National Register Property |
| Snohomish County Courthouse | 3000 Rockefeller Avenue | Snohomish | WA | Everett | 12/6/1975 | National Register Property |
| Swalwell Block and Adjoining Commercial Buildings | 2901-2903, 2905, 2907, 2909, and 2915 Hewitt Avenue | Snohomish | WA | Everett | 5/17/1976 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|--|---|---------------|--------------|-------------|--------------------|----------------------------|
| Swalwell Cottage | 2712 Pine Street | Snohomish | WA | Everett | 11/28/1978 | National Register Property |
| U.S. Post Office and Customs House | 3006 Colby Avenue | Snohomish | WA | Everett | 6/22/1976 | National Register Property |
| Weyerhaeuser Office Building | 1710 West Marine View Drive | Snohomish | WA | Everett | 5/14/1986 | National Register Property |
| Keeler's Korner | 16401 Old U.S. Highway 99 | Snohomish | WA | Lynnwood | 4/29/1982 | National Register Property |
| Indian Shaker Church | North Meridian Avenue (Church Road) | Snohomish | WA | Marysville | 5/4/1976 | National Register Property |
| Marysville Opera House | 1225 Third Street | Snohomish | WA | Marysville | 2/25/1982 | National Register Property |
| St. Anne's Roman Catholic Church | Mission Beach Road, Tulalip Reservation | Snohomish | WA | Marysville | 6/18/1976 | National Register Property |
| Tulalip Indian Agency Office | 3901 Mission Beach Road, Tulalip Reservation | Snohomish | WA | Marysville | 5/3/1976 | National Register Property |
| Mukilteo Light Station | 608 Front Street | Snohomish | WA | Mukilteo | 10/21/1977 | National Register Property |
| Seatco Prison Site | Off of WA 507 | Thurston | WA | Bucoda | 5/2/1975 | National Register Property |
| Chamber's Prairie-Ruddell Pioneer Cemetery | Junction of Ruddell and Mullen Roads, NW corner | Thurston | WA | Lacey | 6/30/1995 | National Register Property |
| Nisqually School | 341 Nisqually Cut-Off Road SE | Thurston | WA | Lacey | 8/23/1990 | National Register Property |
| Allen House Hotel | 114-118 North Jefferson | Thurston | WA | Olympia | 6/17/1987 | National Register Property |
| American Legion Hall | 219 West Legion Hall | Thurston | WA | Olympia | 6/17/1987 | National Register Property |
| Bigelow, Daniel R., House | 918 Glass Street | Thurston | WA | Olympia | 8/7/1979 | National Register Property |
| Black Lake School | 6000 Black Lake Boulevard SW | Thurston | WA | Olympia | 5/10/1990 | National Register Property |
| Delphi School | 7601 SW Delphi Road | Thurston | WA | Olympia | 7/19/1990 | National Register Property |
| Dofflemyer Point Light | 211 NE 73 rd | Thurston | WA | Olympia | 5/1/1995 | National Register Property |
| Elks Building | 607-613 South Capitol Way | Thurston | WA | Olympia | 4/21/1988 | National Register Property |
| Funk House | 1202 East Olympia Avenue | Thurston | WA | Olympia | 5/8/1987 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|--|---|---------------|--------------|-------------|--------------------|----------------------------|
| General Administration Building | 210 11 th Avenue SW | Thurston | WA | Olympia | 3/8/2007 | National Register Property |
| Hale, Calvin and Pamela, House | 902 Tullis Street NE | Thurston | WA | Olympia | 1/12/1984 | National Register Property |
| Jeffers Studio | 500 and 502 South Washington | Thurston | WA | Olympia | 6/17/1987 | National Register Property |
| Lord, C.J., Mansion | 211 West 21 st Avenue | Thurston | WA | Olympia | 5/7/1981 | National Register Property |
| Lotus (Motor Vessel) | Fiddlehead Marina, B Dock | Thurston | WA | Olympia | 5/18/1987 | National Register Property |
| McCleary, Henry, House | 111 West 21 st Avenue | Thurston | WA | Olympia | 10/2/1978 | National Register Property |
| Meyer House | 1136 East Bay Drive | Thurston | WA | Olympia | 2/21/1985 | National Register Property |
| Millersylvania State Park | 12245 Tilley Road | Thurston | WA | Olympia | 9/16/2009 | National Register Property |
| Mottman Building | 101-105 North Capitol Way | Thurston | WA | Olympia | 6/16/1983 | National Register Property |
| Olympia Downtown Historic District | Roughly bounded by State Avenue, 8 th Avenue, Columbia Street, and Franklin Street | Thurston | WA | Olympia | 6/24/2004 | National Register Property |
| Olympia National Bank | 422 South Capitol Way | Thurston | WA | Olympia | 6/17/1987 | National Register Property |
| Olympia Public Library | South Franklin and East 7 th | Thurston | WA | Olympia | 8/3/1982 | National Register Property |
| Patnude, Charles, House | 1239 Eighth | Thurston | WA | Olympia | 5/22/1978 | National Register Property |
| Reinhart-Young House | 1106 East Olympic Avenue | Thurston | WA | Olympia | 5/8/1987 | National Register Property |
| Rudkin, Frank, House | 1005 East Olympia Avenue | Thurston | WA | Olympia | 5/8/1987 | National Register Property |
| Sand Man (Tugboat) | Percival Landing | Thurston | WA | Olympia | 8/6/1998 | National Register Property |
| Schmidt, F.W., House | 2831 Orange | Thurston | WA | Olympia | 6/30/1995 | National Register Property |
| South Capitol Neighborhood Historic District | Roughly bounded by Capitol Lake, U.S. 5, and 16 th Avenue | Thurston | WA | Olympia | 10/22/1991 | National Register Property |
| Steele, Alden Hatch, House | 1010 South Franklin Street | Thurston | WA | Olympia | 6/18/1992 | National Register Property |
| Thurston County Courthouse | Capitol Way | Thurston | WA | Olympia | 7/23/1981 | National Register Property |

Historic Resource Sites within Study Area

| Name | Street Address | County | State | City | Date Listed | Listing |
|--|---|---------------|--------------|-------------|--------------------|----------------------------|
| Town Square | Bounded by Seventh, Legion, Capitol Way, and South Washington | Thurston | WA | Olympia | 6/17/1987 | National Register Property |
| U.S. Post Office | 801 Capitol Way | Thurston | WA | Olympia | 11/30/1979 | National Register Property |
| Washington State Capitol Historic District | State Capitol and Environs | Thurston | WA | Olympia | 6/22/1979 | National Register Property |
| Weyerhaeuser South Bay Log Dump Rural Historic Landscape | 609 Whitham Road | Thurston | WA | Olympia | 10/2/1991 | National Register Property |
| Women's Club of Olympia | 1002 South Washington Street | Thurston | WA | Olympia | 6/15/1979 | National Register Property |
| Tenino Depot | Off of WA 507 | Thurston | WA | Tenino | 12/27/1974 | National Register Property |
| Tenino Downtown Historic District | Sussex Street SE | Thurston | WA | Tenino | 6/25/2004 | National Register Property |
| Tenino Stone Company Quarry | City Park | Thurston | WA | Tenino | 7/28/1983 | National Register Property |
| Ticknor School | 7212 Skookumchuck Road SE | Thurston | WA | Tenino | 5/10/1990 | National Register Property |
| Old Capitol Building | 600 Block Washington Street | Thurston | WA | Thurston | 5/30/1975 | National Register Property |
| Tumwater Historic District | Roughly bounded by I-5, Capitol Way, and Capitol Lake | Thurston | WA | Tumwater | 5/22/1978 | National Register Property |
| Tumwater Methodist Church | 219 West B Street | Thurston | WA | Tumwater | 1/12/1984 | National Register Property |
| Union Cemetery-Pioneer Calvary Cemetery | 5700 Littlerock Road | Thurston | WA | Tumwater | 4/14/1997 | National Register Property |
| Johnson House | 19540 Johnson Road | Thurston | WA | Yelm | 6/23/1988 | National Register Property |
| Lackamas School | 16240, 16312 Bald Hill Road SE | Thurston | WA | Yelm | 5/10/1990 | National Register Property |

(This page intentionally left blank)

I.1 State Historic Preservation Office Letter of Concurrence with APE



STATE OF WASHINGTON

DEPARTMENT OF ARCHAEOLOGY & HISTORIC PRESERVATION

1063 S. Capitol Way, Suite 106 • Olympia, Washington 98501
Mailing address: PO Box 48343 • Olympia, Washington 98504-8343
(360) 586-3065 • Fax Number (360) 586-3067 • Website: www.dahp.wa.gov

August 13, 2012

RECEIVED AUG 14 2012

RECEIVED AUG 14 2012

Mr. John Warner
Manager, Operations Support Group
Federal Aviation Administration, Western Service Center
1601 Lind Ave, SW
Renton, WA 98057

In future correspondence please refer to:

Log: 010312-24-FAA

Property: Greener Skies over Seattle-Proposed New Air Traffic Arrival Procedures at SEATAC

Re: Archaeology - APE Concur

Dear Mr. Warner:

We have reviewed the materials forwarded to our office for the Greener Skies over Seattle project. Thank you for your description of the area of potential effect (APE) for the project. We concur with the definition of the APE. We look forward to the results of your cultural resources survey efforts, your consultation with the concerned tribes, and receiving the cultural resources report or the draft Environmental Assessment (EA). We would appreciate receiving any correspondence or comments from concerned tribes or other parties that you receive as you consult under the requirements of 36CFR800.4(a)(4) and the survey report when it is available.

These comments are based on the information available at the time of this review and on behalf of the State Historic Preservation Officer in conformance with Section 106 of the National Historic Preservation Act and its implementing regulations 36CFR800. Should additional information become available, our assessment may be revised.

Please note that DAHP requires that all historic property inventory and archaeological site forms be provided to our office electronically. If you have not registered for a copy of the database, please log onto our website at www.dahp.wa.gov and go to the Survey/Inventory page for more information and a registration form. To assist you in conducting a survey, DAHP has developed a set of cultural resource reporting guidelines. You can obtain a copy of these guidelines from our website. Also, please note that DAHP requires that all cultural resource reports be submitted in PDF format on a labeled CD or electronically. For further information please go to http://www.dahp.wa.gov/documents/CR_ReportPDF_Requirement.pdf.

Thank you for the opportunity to review and comment. If you have any questions, please feel free to contact me.

Sincerely,

Matthew Sterner, M.A.
Transportation Archaeologist
(360) 586-3082
matthew.sterner@dahp.wa.gov



I.2 FAA Cover Letter Transmittal of Cultural Resources Report



U.S. Department
of Transportation
**Federal Aviation
Administration**

Office of the Air Traffic Organization
Western Service Area

1601 Lind Avenue Southwest
Renton, Washington 98057

Matthew Sterner
Department of Archaeology and Historic Preservation
P.O. Box 48343
Olympia, Washington 98504-8343

SEP 24 2012

RE: FINDING OF NO ADVERSE EFFECT, TRANSMITTAL OF SECTION 106 REPORT FOR THE GREENER SKIES OVER SEATTLE, KING COUNTY, WASHINGTON

The Federal Aviation Administration is transmitting an electronic copy of the subject report for your review and comment. The Area of Potential Effect (APE) was transmitted to your office on July 24, 2012. We received your concurrence with our proposed APE on August 13, 2012.

The attached section 106 report describes the implementation of Area Navigation (RNAV) and Performance Based Navigation (PBN) air traffic procedures in Seattle-Tacoma International Airport (SEA). The literature review identified one unevaluated archaeological site, 45KI772 within the Area of Potential Effect (APE) for this project. The findings of a noise analysis completed as part of the National Environmental Policy Act (NEPA) Environmental Assessment (EA) for this undertaking show that there will be no significant change to noise levels. Because there will be no change to noise levels this undertaking will not cause any impact to cultural resources.

The FAA has also contacted tribal councils of the Muckleshoot, Puyallup and Snoqualmie tribes during scoping in January 2012 and again by letter on August 6, 2012. A meeting with tribal representatives was scheduled for September 5, 2012. No comments were received.

FAA has reached a 'no adverse effect' finding for this proposed project. We ask that you review the enclosed information and provide written concurrence with our finding by October 24, 2012.

These comments are based on the information available at the time of this letter and on the behalf of FAA in conformance with Section 106 of the NHPA, as amended, and its implementing regulations 36 CFR 800.

If you have any questions, please contact Augustin Moses at (425) 203-4536 or by email at augustin.moses@faa.gov.

Sincerely,

John Warner
Manager, Operations Support Group
Federal Aviation Administration

Enclosure: Section 106 Review, Greener Skies over Seattle, King County, Washington

I.3 Cultural Resources Report

(This page intentionally left blank.)

CULTURAL RESOURCES REPORT COVER SHEET

Author: Keith Mendez, Heather Hay, and Kate Clark (CH2M HILL)

Title of Report: Cultural Resources Review for Greener Skies over Seattle, King County, Washington

Date of Report: August 2012

County: King Section: 4, 5, 8, 9, 16, & 17
Township: 22 Range: 4 E

Section: 4, 5, 8, 9, 16, 17, 20, 21, 28, 29, 32, & 33
Township: 23 Range: 4 E

Quads: Des Moines WA, and Seattle South WA, 7.5'
Acres: 4985.61

PDF of report submitted (REQUIRED) Yes

Historic Property Inventory Forms to be Approved Online? Yes No

Archaeological Site(s)/Isolate(s) Found or Amended? Yes No

TCP(s) found? Yes No

Replace a draft? Yes No

Satisfy a DAHP Archaeological Excavation Permit requirement? Yes # No

DAHP Archaeological Site #:
45KI772

- Submission of PDFs is required.
- Please be sure that any PDF submitted to DAHP has its cover sheet, figures, graphics, appendices, attachments, correspondence, etc., compiled into one single PDF file.
- Please check that the PDF displays correctly when opened.

Section 106 Review

Greener Skies Over Seattle King County, Washington

Prepared for
Federal Aviation Administration

Prepared by
Keith Mendez, M.A.

CH2MHILL®

Contents

| Section | Page |
|--|-----------|
| Executive Summary | v |
| 1. Introduction | 1 |
| 1.1 Project Description | 1 |
| 1.2 Regulatory Environment | 1 |
| 1.3 Area of Potential Effects | 1 |
| 2. Environmental Setting | 7 |
| 3. Cultural Setting | 7 |
| 3.1 Pre-Contact Overview | 7 |
| 3.2 Ethnographic Overview | 8 |
| 3.3 Historic Overview | 8 |
| 4. Literature Review | 8 |
| 4.1 Cultural Resource Reviews and Survey Reports | 8 |
| 4.2 Previously Recorded Cultural Resources | 8 |
| 4.2.1 Archaeological Site 45KI772 | 11 |
| 5. Research Design | 14 |
| 5.1 Objectives/Expectations | 14 |
| 5.2 Methodology | 14 |
| 6. Conclusions | 14 |
| 9. References | 15 |
| Appendix A APE Correspondence | 1 |
| Appendixes | |
| A APE Correspondence | |
| Tables | |
| 1 Surveys | 9 |
| 2 Sites | 11 |
| Figures | |
| 1 NEPA Study Area | 2 |
| 2 APE & USGS Quads | 3 |
| 3 Area of Potential Effect (APE) | 6 |
| 4 APE & Cultural Resource Reports | 12 |
| 5 APE & Cultural Resources | 13 |

Executive Summary

The project consists of the implementation of new approach procedures into Seattle-Tacoma International Airport (SEA). The project will change use of flight paths around SEA. The preparation of this Section 106 Review included a literature review, background research and analysis of potential impacts caused by the undertaking. A noise analysis was completed as part of the National Environmental Policy Act Environmental Assessment for this undertaking. The findings show that there will be no significant change to noise levels as a result of this undertaking. Because there will be no significant change in noise levels this undertaking will not cause any effects to historic properties, assuming such properties are present within the APE. The results of this Section 106 review have identified that the project as planned will have No Adverse Effect to Historic Properties.

Section 106 Review

1. Introduction

The Federal Aviation Administration (FAA) is proposing implementation of Area Navigation (RNAV) and Performance Based Navigation (PBN) air traffic procedures in Seattle-Tacoma International Airport (SEA) under a program titled Greener Skies over Seattle. This Cultural Resource Review is conducted in accordance with the National Historic Preservation Act, as amended and implementing regulations 36 CFR Part 800. The intent of this review is to identify potential effects to historic properties that may be caused by this undertaking.

1.1 Project Description

Over the next two decades the FAA will face major challenges meeting future demand while improving safety, reducing delays, and protecting the environment. The Next Generation Air Transportation System (NextGen) is the FAA's chief means of transporting the national air transportation system to meet these challenges. The project includes the implementation of new approach procedures into SEA, which will meet the following needs:

- Improved efficiency in a complex airspace while maintaining the same high level of safety through shorter flight paths that will reduce flight times and fuel consumption;
- Increased flight path predictability;
- Increased flexibility in the use of noise mitigation routes over Elliot Bay during instrument Meteorological Conditions (IMC) that normally cannot be used during adverse weather conditions;
- Decreased communication requirements between controllers and pilots, hence a reduction in likelihood of "hear-back/read-back" errors and more efficient handling of air traffic by air traffic controllers.

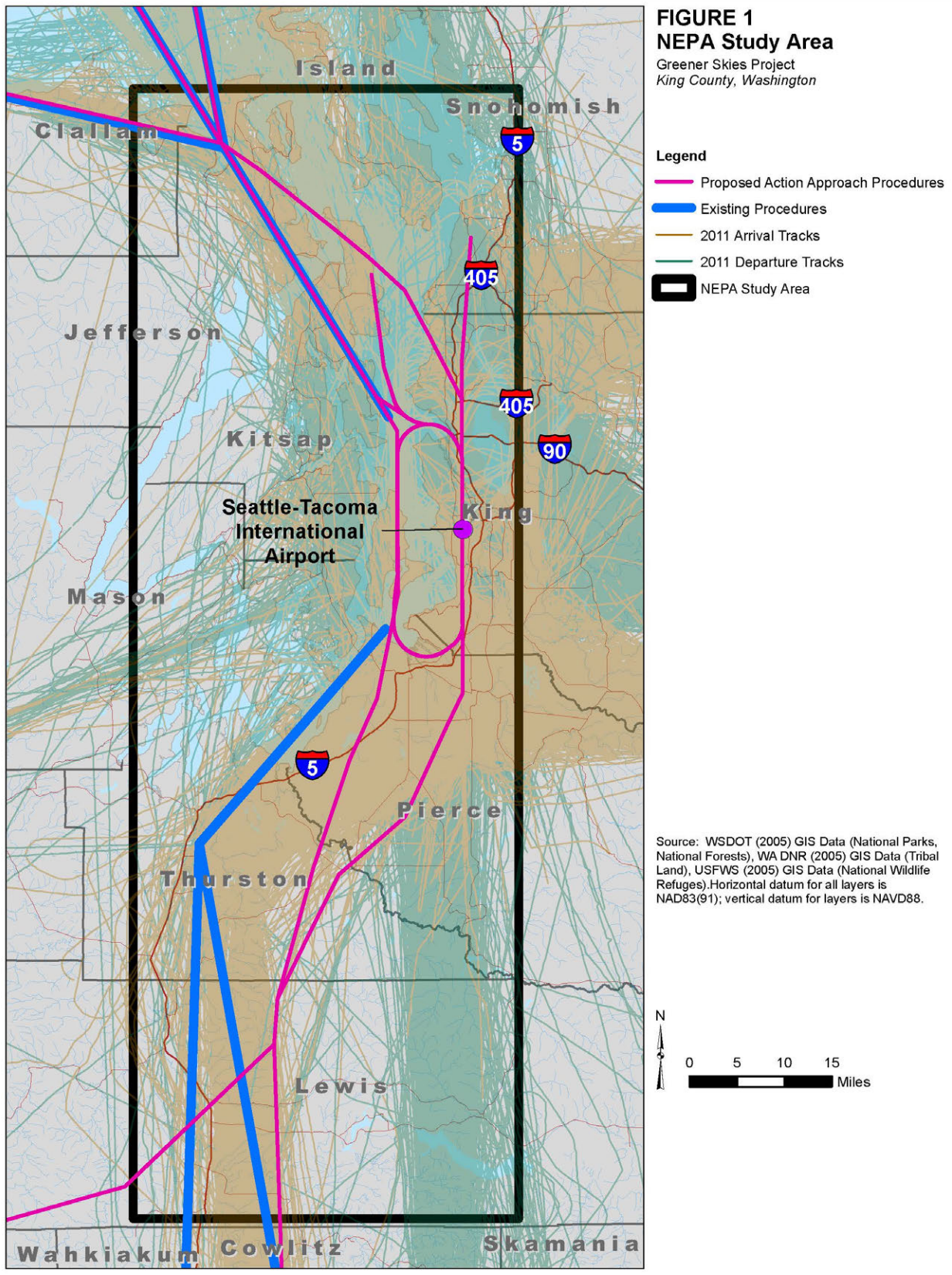
1.2 Regulatory Environment

The project is being administered through the Federal Aviation Administration. The project is a federal undertaking as defined by 36CFR 800.16(y) and is therefore subject to the provisions of Section 106 of the National Historic Preservation Act of 1966 (NHPA), as amended and to its implementing regulations; 36 CFR Part 800. The NHPA and its implementing regulations require that on any federal undertaking, the responsible federal official consider the effects of the undertaking on cultural resources and to provide the Advisory Council on Historic Preservation the opportunity to comment on those effects.

1.3 Area of Potential Effects

Since the proposed Greener Skies procedures would be flown using existing tracks on the east side of SEA, a National Environmental Policy Act (NEPA) Study Area was determined to include all the tracks flowing north and south on the west side of SEA (Figure 1). The project will alter the use of flight tracks over a wide area. The changes in flight track use in much of the NEPA Study Area would occur at relatively high altitudes and would not generate potentially significant noise impacts. At lower altitudes, the change in flight path usage has the potential to alter noise levels, which could have the potential to cause indirect effects to historic properties. Based on preliminary noise analysis, the APE has been defined as the area around SEA that currently experiences the highest noise levels. The APE determination is based on the project areas that would experience a Day-Night Average Sound Levels (DNL) of 65 dB; an area of 2017.61 hectares (4985.61) acres) in King County (Figures 2 and 3). The DNL has been established by the U.S. Environmental Protection Agency (EPA) as the principal metric for airport noise analysis (U.S. EPA, 1974). The federal government recognizes DNL 65 dB as the threshold of significant noise impact.

The Area of Potential Effects (APE) Notification for this undertaking was sent to the Washington Department of Archaeology and Historic Preservation (DAHP) on July 24, 2012. Concurrence on the APE notification was received on August 14, 2012 (Appendix A).



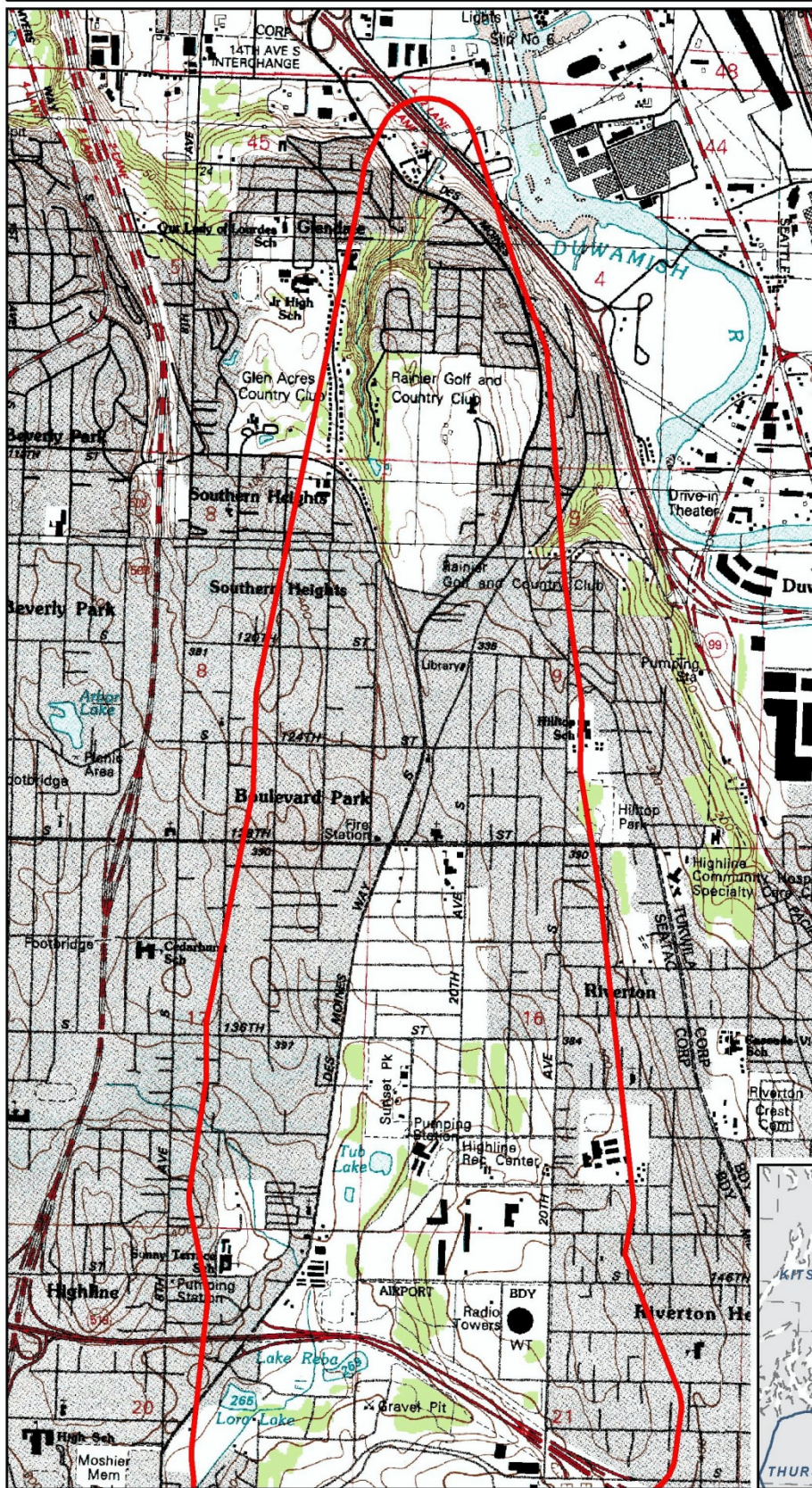


FIGURE 2
APE & USGS Quads
 Greener Skies Project
 King County, Washington

Legend

 Area of Potential Effects (APE)

Des Moines, WA
 Seattle South, WA
 7.5' USGS Quads
 Township 22 N Range 4 E
 Sections 4, 5, 8, 9, 16 & 17
 Township 23 N Range 4 E
 Sections 4, 5, 8, 9, 16, 17, 20,
 21, 28, 29, 32 & 33

NOTES: The APE is not a noise contour and is not intended for use in determining land use compatibility.



Path: W:\FAA\MapFiles\RevisedFinal\MXDs\APE_Fig2_topo.mxd

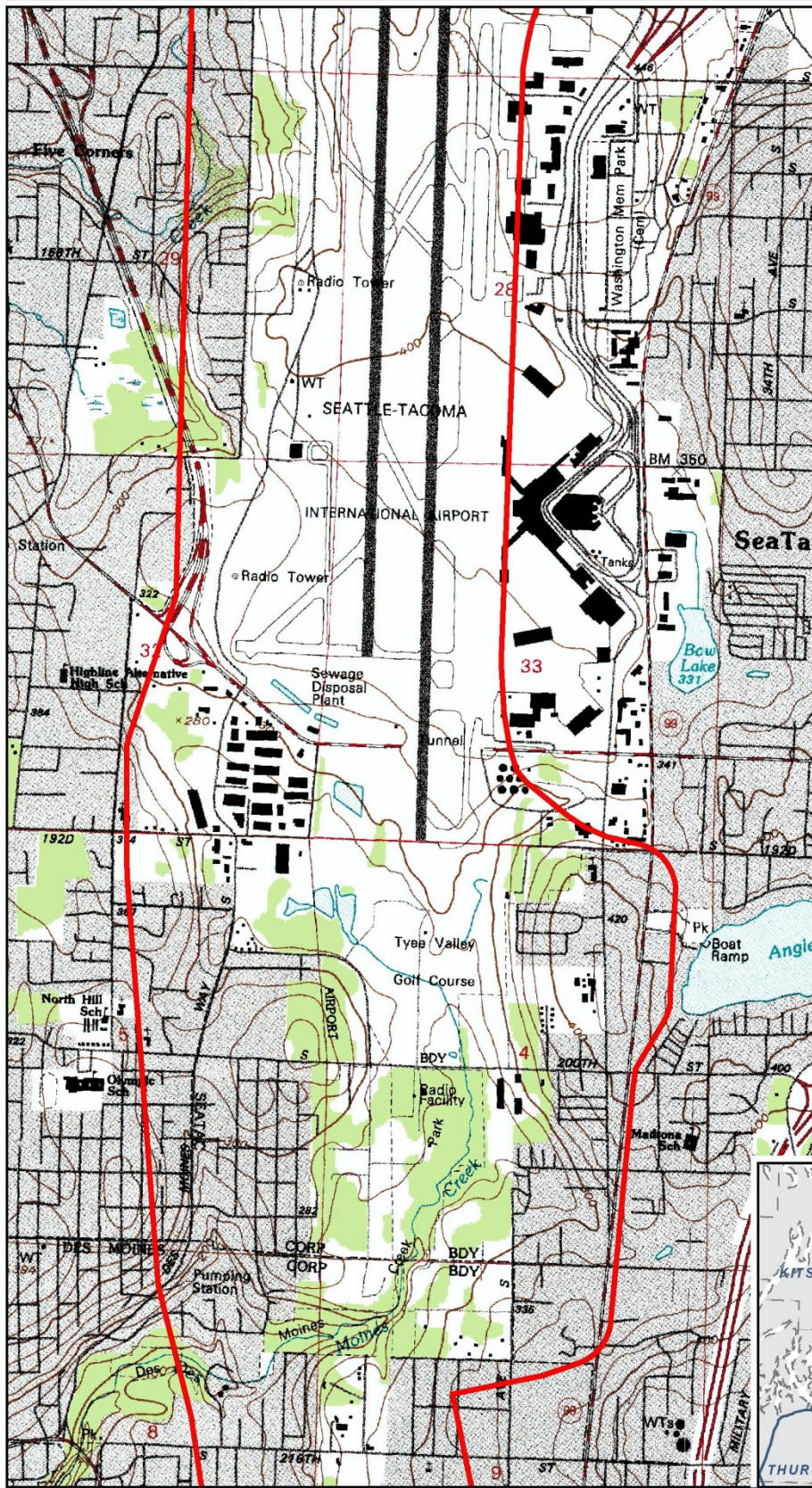


FIGURE 2
APE & USGS Quads
 Greener Skies Project
 King County, Washington

Legend

Area of Potential Effects (APE)

Des Moines, WA
 Seattle South, WA
 7.5' USGS Quads
 Township 22 N Range 4 E
 Sections 4, 5, 8, 9, 16 & 17
 Township 23 N Range 4 E
 Sections 4, 5, 8, 9, 16, 17, 20,
 21, 28, 29, 32 & 33

NOTES: The APE is not a noise contour and is not intended for use in determining land use compatibility.



Path: W:\FAA\MapFiles\RevisedFinal\IXDs\APE_Fig2_topo.mxd

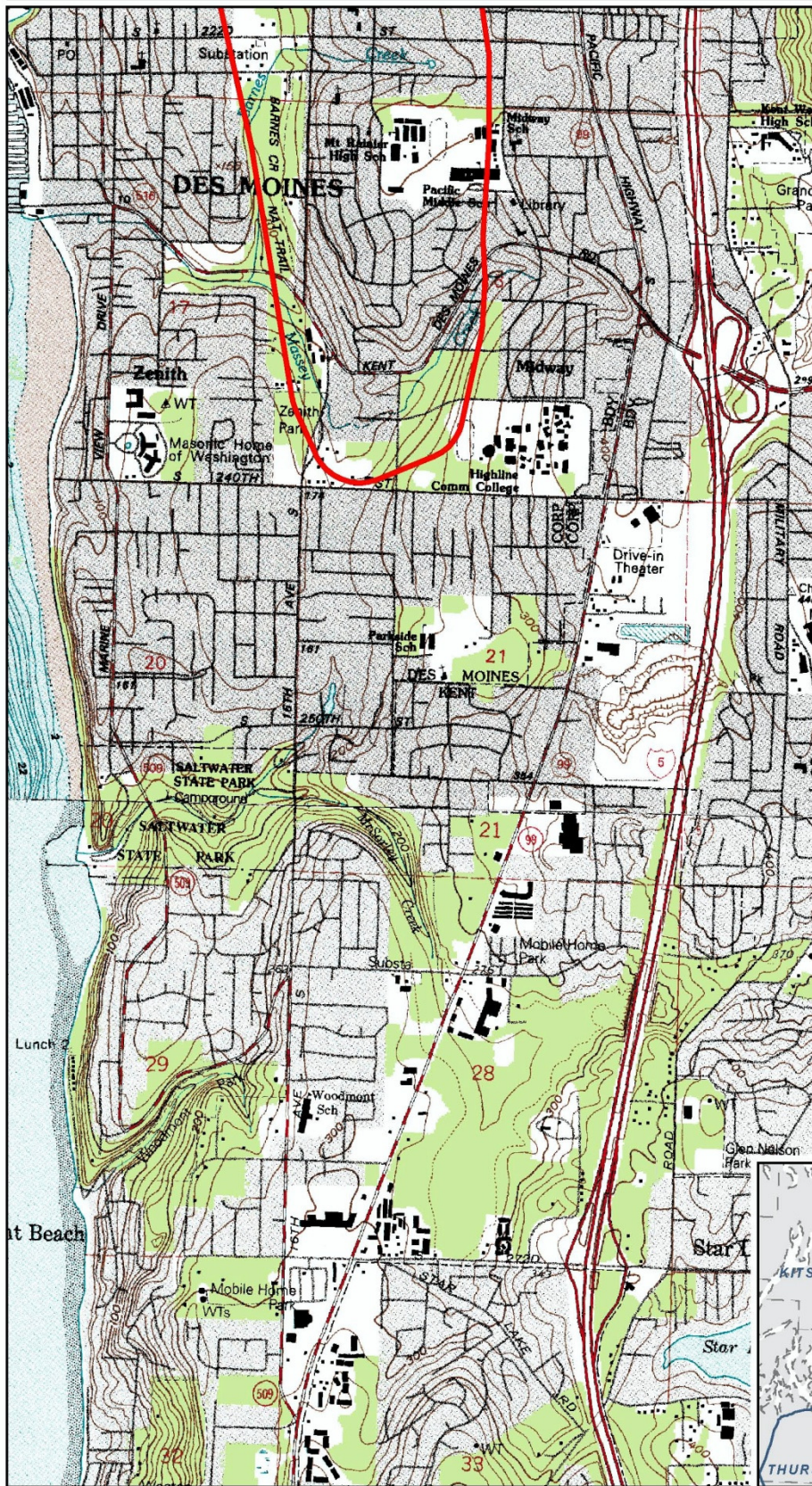


FIGURE 2
APE & USGS Quads
 Greener Skies Project
 King County, Washington

Legend

 Area of Potential Effects (APE)

Des Moines, WA
 Seattle South, WA
 7.5' USGS Quads
 Township 22 N Range 4 E
 Sections 4, 5, 8, 9, 16 & 17
 Township 23 N Range 4 E
 Sections 4, 5, 8, 9, 16, 17, 20,
 21, 28, 29, 32 & 33

NOTES: The APE is not a noise contour and is not intended for use in determining land use compatibility.



Path: W:\FAA\MapFiles\RevisedFinalMXDs\APE_Fig2_topo.mxd



FIGURE 3
Area of Potential Effect (APE)
Greener Skies Project
King County, Washington

Legend

 Area of Potential Effects (APE)

NOTES: Digital Elevation Model courtesy of University of Washington (04/2012); Aerial Imagery 2011, NAIP.

The APE is not a noise contour and is not intended for use in determining land use compatibility.



Path: W:\FAAMapFiles\RevisedFinalMXDs\APE_Fig3_ape.mxd

2. Environmental Setting

The project area is located within the Puget Sound basin in the northern portion of the Puget Trough physiographic and geologic province of Washington State (Franklin and Dyrness 1973). The Puget Sound basin is a depressed glaciated area with moderate topographic relief. The geology and topography of the region is the result of glacial action of the Pleistocene epoch. Sedimentary deposits throughout the region range from porous gravels and sands to a hard till containing clay, silt and coarser particles. The topography of the region is dominated by the terminal moraine of the Vashon glacier and the Puget Sound (Franklin and Dyrness 1973). As the weight of glacial ice reduced during glacial retreat, isostatic rebound reached heights of 140 meters. The configuration of the modern shoreline and sea levels stabilized approximately 5,000 years ago (Thorson 1981).

The Puget Sound basin is a rich environment with easy access to abundant terrestrial and marine resources. The region experiences a maritime climate characterized by generally mild temperatures, wet mild winters, cool dry summers and heavy precipitation. Within the Puget Sound basin the climate is milder than on the coast as the coastal mountains block the maritime air masses creating a rain shadow effect. Annual precipitation is approximately 40 inches per year (Franklin and Dyrness 1973, Fernandez et.al. 2011).

The Puget Sound Area is a subset of the forested region of western Washington defined as the *Tsuga heterophylla* Zone. The most extensive vegetation zone in western Washington, the *Tsuga heterophylla* Zone extends from south from British Columbia through the Olympic Peninsula, Coast Ranges, Puget Trough, and both Cascade physiographic provinces in western Washington (Franklin and Dyrness 1973). The major forest tree species for this zone are Douglas fir (*Pseudotsuga menziesii*) western hemlock (*Tsuga heterophylla*) and western red cedar (*Thuja plicata*). Hardwoods are rare in this zone; however, Red alder (*Alnus rubra*) bigleaf maple (*Acer macrophyllum*) and golden chinkapin (*Castanopsis chrysophylla*) do occur in disturbed areas and specialized habitats such as riparian zones. Within the larger *Tsuga heterophylla* zone the Puget Sound Area contains a unique distribution of species due to both geologic and climatic factors. Some of the notable features of the Puget Sound Area that are rare or not present in the rest of the *Tsuga heterophylla* Zone include the presence of lodge pole pine (*Pinus contorta*) western white pine (*Pinus monticola*) and ponderosa pine (*Pinus ponderosa*). The Puget Sound Area contains species such as Rocky Mountain juniper (*Juniperus scopulorum*) quaking aspen (*Populus tremuloides*) ponderosa pine (*Pinus ponderosa*), and northwestern paper birch (*Betula papyrifera*) which are rarely or never seen elsewhere in western Washington. An understory of salal (*Gaultheria shallon*) is common in the area as well as groves of Oregon white oak (*Quercus garryana*), extensive prairies, and poorly drained swamp or bog communities (Franklin and Dyrness 1973). A wide range of species that are a potential food source are present throughout the region including swordfern (*Polystichum muritum*), bracken fern (*Pteridium aquilinum*), Oregon grape (*Mahonia aquifolium*), vine maple (*Acer circinatum*), huckleberry (*Vaccinium spp.*), blackberry (*Rosaceae spp.*), ocean spray (*Holodiscus discolor*), salal (*Gaultheria shallon*), blueberries and huckleberries (*Vaccinium sp.*), blackberry, salmonberry, and thimbleberry (*Rubus sp.*), Wapato (*Sagittaria latifolia*), red elderberry (*Sambucus racemosa*), common camas (*Camassia quamash*), and tiger lily (*Lilium columbianum*) (Fernandez et.al. 2011).

3. Cultural Setting

3.1 Pre-Contact Overview

Archaeological remains provide a context for the earliest inhabitants of the Puget Sound region. Pre-contact archaeological assemblages in the Puget Sound reflect the heterogeneous environments found there. In littoral areas early archaeological remains consist largely of shell middens which contain abundant faunal remains but relatively few manufactures artifacts or formal tools. Though relatively scarce tools recovered from early sites in littoral contexts are, in general stylistically analogous to those found in coastal areas of Washington and British Columbia, and the San Juan Islands (Nelson 1990). In riverine settings tool assemblages are more abundant where as faunal remains are rarely preserved. Diagnostic tools types recovered from early sites in riverine settings show strong stylistic similarities to styles and sequences from the Columbia Plateau and Frasier River Valley. These

similarities suggest that an active and stable trade network existed between inhabitants of these regions (Nelson 1990).

3.2 Ethnographic Overview

The project area is located within a region that was occupied by various Native American groups collectively referred to as the Southern Coastal Salish. The Southern Coastal Salish refers to groups who speak two Coast Salish languages; Lushootseed and Twana. Native peoples of this region first came into contact with Europeans in 1792 when the British expedition led by George Vancouver explored the Puget Sound and Hood Canal, although they had experienced small pox and possessed some metal (Suttles and Lane 1990). Many of the tribes in the region participated in the treaties of 1855 which established several reservations. The late 20th century saw an economic, political, and cultural revitalization among Southern Coastal Salish tribes and the Boldt decision of 1974 secured traditional fishing rights for many tribes in western Washington (Suttles and Lane 1990).

The project area around SEA is located within the traditional territory of the Duwamish. Neighboring groups include the Suquamish to the west and the Green River (Muckleshoot), the Lower White River (Muckleshoot), the Upper White River (Muckleshoot) and the Puyallup to the south (Iversen et.al. 2000). The people in this area subsisted on the abundant natural resources of the area. Salmon was the primary food resources. In marine settings salmon were caught by trolling and with seines and gill nets. In fresh water settings salmon fishers utilized weirs, traps, dip nets, trawl nets, gaff hooks, harpoons, and leisters (Suttles and Lane 1990).

3.3 Historic Overview

The Hudson's Bay Company established a presence in the region with Fort Nisqually in 1833. By the 1840's several short lived missions were attempted. The Treaty of Washington gave the region to the United States in 1846 and the Donation Land Act of 1850 brought settlers to the region (Suttles and Lane 1990). The project area was first settled by homesteader Mike Kelly in the 1870's. Constructed between 1855 and 1860 the Seattle to Steilacoom Military Road was the first in the area (Iversen et.al. 2000). The area was developed gradually with the construction of Des Moines Memorial Way and Highway 99 (International Boulevard). The completion of SEA in 1944 fueled this development and became the region's primary aviation hub following World War II (Historylink.org). The City of SeaTac was incorporated on March 14, 1989. Today the city of SeaTac is approximately 10 square miles and contains a population of approximately 25,000 (CityofSeaTac.wa.us).

4. Literature Review

A literature review was conducted by Keith Mendez on August 3, 2012 through the Department of Archaeology and Historic Preservation (DAHP) Washington Information System for Architectural and Archaeological Records Data (WISAARD) electronic database. The literature review included previous cultural resources reviews and survey reports, archaeological site and isolate forms, historic cemetery records, and historic property inventory records. The search was conducted within a 1 mile research area around the APE.

4.1 Cultural Resource Reviews and Survey Reports

The literature review identified 42 cultural resource reviews and inventory reports within the 1 mile research area and 10 within the APE (Table 1) (Figure 4).

4.2 Previously Recorded Cultural Resources

The literature review identified 11 archaeological sites, three historic properties and four cemeteries within the 1-mile research area and one archaeological site within the APE (Table 2) (Figure 5).

TABLE 1
Surveys

| NADB # | Title | Location | Reference |
|---------|---|---------------|--|
| 1339749 | Cultural Resources Monitoring Alki Transfer/CSO Project Allentown Trunk | Research Area | Robbins et al. 1995 |
| 1339765 | M. Jordan Perrine Shell Midden (45KI446) Marine View Park, City of Normandy Park, Washington: Site Identification Report | Research Area | Leeds 1996 |
| 1339769 | Results of a Cultural Resources Assessment for the Tolt Pipeline No. 2, Phase IV Project, North King County, Washington | Research Area | Goetz and Warner 1997 |
| 1339799 | Port of Seattle North SeaTac Airport Employee Parking Lot Cultural Resource Assessment | APE | Forsman and Larson 1998 |
| 1339816 | Central Link Light Rail Project Draft Environmental Impact Statement; Historic and Archaeological Technical Report | APE | Courtois et.al. 1998 |
| 1339836 | Central Link Light Rail Transit Project Final Technical Report | APE | Courtois et.al. 1999 |
| 1339853 | Port of Seattle, Seattle-Tacoma International Airport Master Plan, Proposed Third Runway Archaeological Resources and Traditional Cultural Places Assessment | APE | Iversen et.al. 2000 |
| 1339864 | Preliminary Report, Cliff Condominiums Archaeological Resources and Traditional Cultural Places Assessment, Des Moines, King County, Washington | Research Area | Iversen and Larson 2000 |
| 1339888 | S. 228 th Street Extension Archaeological Resources and Traditional Cultural Places Assessment, King County, Washington | Research Area | Iversen et al. 2001a |
| 1339898 | Heritage Resources Investigation of the South Park Cell # 41982 Tower T. 24 N., R. 4 E., Section 32 King County, Washington | Research Area | Cole 2001 |
| 1339904 | Letter to Ronda Strauch (King County Road Services Division) Regarding the Archaeological Resources Monitoring for the South Park Bridge Project | Research Area | Roedel 2001 |
| 1340493 | Pacific Highway South HOV Lanes Cultural Resources Assessment King County, Washington | Research Area | Iversen et al. 2001b |
| 1340519 | Pacific Highway South HOV Lanes Cultural Resources Assessment King County, Washington | Research Area | Iversen et al. 2001b |
| 1342167 | February 14, 2003 Letter to Steve Shipe (WSDOT) Regarding I-5 Pierce County Line to Tukwila 1/C Stage 2N Agreement No. Y-7856, Task Order AN from Lorelea Hudson (NWA). | Research Area | Hudson and Weaver 2003 |
| 1343164 | Cultural Resources Survey and Testing for the North Wind's Weir Intertidal Restoration Project on the Duwamish River, City of Tukwila, King County, Washington | Research Area | Kent 2004 |
| 1344408 | South Park Bridge Project Cultural and Historical Resources Technical Report. | Research Area | Historical Research Associates, Inc. 2004 |
| 1345556 | Archaeological and Historical Resources Technical Report for the Tukwila South Project | Research Area | ENTRIX, Inc. 2005 |
| 1348322 | Archaeological Monitoring at 9229 E. Marginal Way Tukwila, King County, Washington | Research Area | Gilpin 2006 |
| 1349400 | Cultural Resources Report, Burien Town Square Street Improvement Project, Burien, Washington | Research Area | Tingwall and Goetz 2006a |
| 1349413 | SR 518/509 Interchange Improvements Cultural Resources Discipline Report | Research Area | PB and Larson Anthropological Archaeological Services Ltd 2007 |
| 1349571 | Cultural Resources Report, 4 th Avenue SW Improvement Project, Burien, Washington | Research Area | Tingwall and Goetz 2006b |

TABLE 1
Surveys

| NADB # | Title | Location | Reference |
|---------|---|---------------|-------------------------------------|
| 1351645 | Cultural Resources Survey for the South Park Bridge Project. | Research Area | ENTRIC Inc. and BOAS Inc. 2008 |
| 1351930 | Cultural Resources Survey of a Portion of the Des Moines Creek Trail, Des Moines, King County, Washington | Research Area | Hoyt et al. 2008 |
| 1352086 | Historic Resources Survey and Inventory Kent, Washington | Research Area | Scott 2008 |
| 1352262 | Letter to Patrice Thorell (City of Des Moines) Regarding the Cultural Resources Monitoring during Geotechnical Borings at the Covenant Beach Park from Bryan Hoyt and Paula Johnson (Paragon Research Associates) | Research Area | Hoyt and Johnson 2008 |
| 1352487 | Park Lake Homes II Redevelopment Project (PLH II) Cultural Resources Technical Report | Research Area | Keeney 2008 |
| 1352540 | City of Des Moines North Marina Combined Improvements Project, King County, Washington | Research Area | Boggs et al. 2009 |
| 1353028 | Cultural Resources Reconnaissance for Norfolk Water Quality Treatment Site and Puget Creek Natural Area City of Seattle, King County, Washington | | Silverman et al. 2009 |
| 1353654 | Cultural Resources Assessment of the City of Des Moines Transportation Gateway Project | APE | Goetz et.al. 2009 |
| 1353773 | Cultural Resource Inventory for the Des Moines Kingdom Hall | APE | Brethower, Steinkamp and Baker 2009 |
| 1353867 | Cultural Resources Study for the SR99 Intelligent Transportation System Improvements Project | APE | Foutch et.al. 2009 |
| 1354031 | Cultural Resources Assessment for the Des Moines Creek Flood Mitigation Project, King County, Washington | Research Area | Hoyt et al. 2009 |
| 1354290 | The Duwamish River Bend Site Data Recovery at 45KI703 | Research Area | Blukis Onat et al. 2010 |
| 1354568 | Upper Johnson Creek Restoration Cultural Resource Survey | Research Area | Elder et al. 2009 |
| 1354596 | Cultural Resources Discipline Report for the Burien to Renton RapidRide-F Line Project | APE | Rooke 2010a |
| 1680138 | Cultural Resources Assessment of the E.J. Nist Park Improvement Project, Normandy Park, King County, Washington | Research Area | Lara 2010b |
| 1680411 | A Cultural Resources Survey of Proposed Duwamish Bend Development, Tukwila, Washington | Research Area | Lenz 2010 |
| 1680783 | Barnes Creek Cultural Resource Investigation | APE | Stipe 2010 |
| 1681216 | Cultural Resources Survey Report: Lake to Sound Trail-Segment B | APE | Fernandez et.al. 2011 |
| 1681545 | Letter to Dennis Clark (King County Department of Natural Resources and Parks Water and Land Resources Division) Regarding Subsurface Investigation of the Proposed Duwamish Gardens from Paula Johnson and Bryan Hoyt (Paragon Research Associates, LLC) | Research Area | Johnson and Hoyt 2008 |
| 1681766 | Archaeological Monitoring for the City of Des Moines North Marina Combined Improvements Project, King County, Washington | Research Area | Hoyt et al. 2011 |
| 1682084 | Results of Archaeological Monitoring for the Norfolk MLK Water Quality Treatment Site Project, Seattle, Washington | Research Area | Earley 2012 |

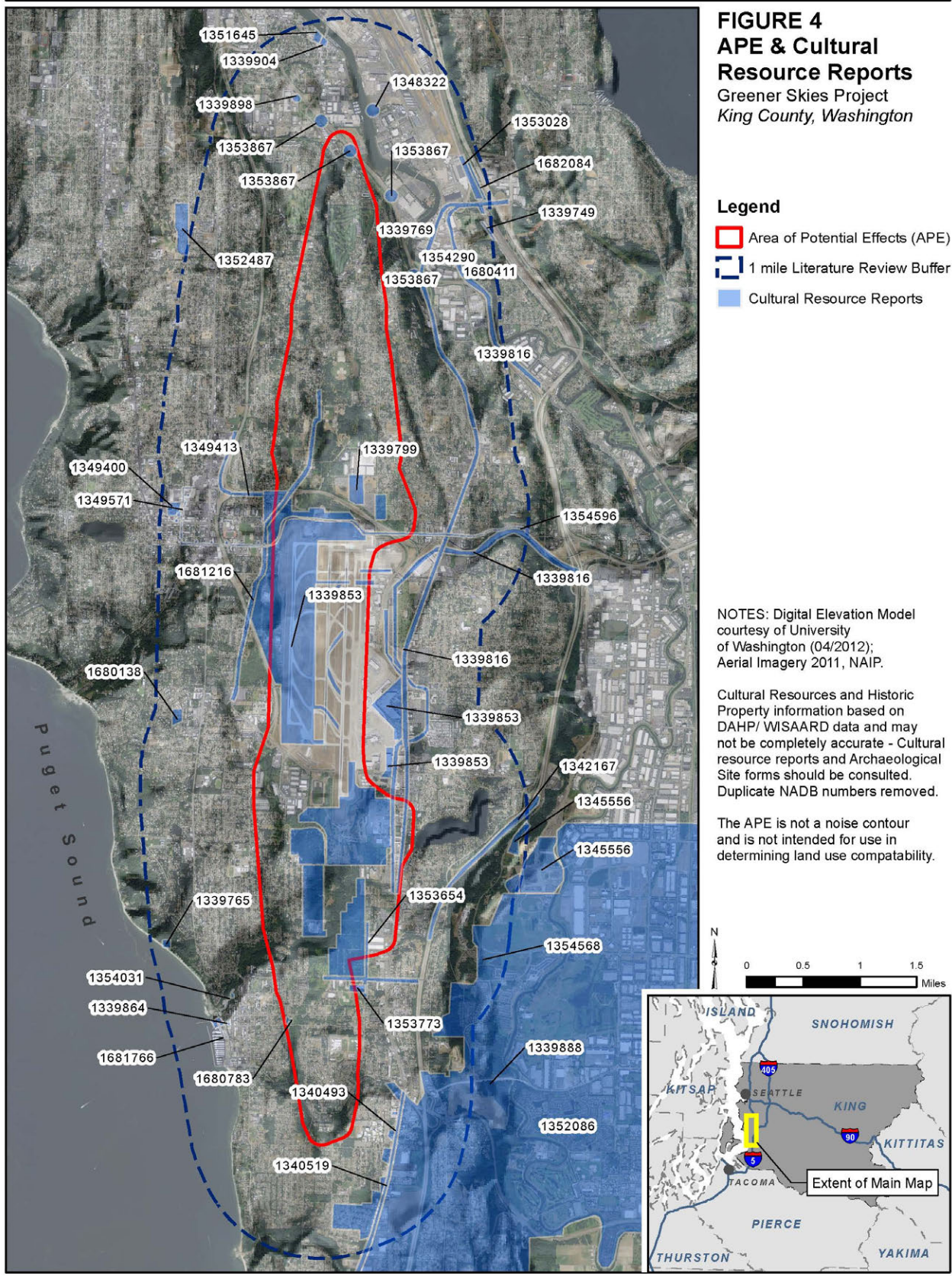
TABLE 2
Sites

| Site | Site type | Description | Eligibility Status | Location |
|-------------------------------|--|---|--------------------|---------------|
| 14 Ave. S. Bridge | Historic Bridge | Spans Duwamish River | Listed | Research Area |
| 45KI1040 | Pre Contact Isolate | Lithic Flake | Unevaluated | Research Area |
| 45KI422 | Pre Contact Isolate | Cedar Salish Canoe | Unevaluated | Research Area |
| 45KI423 | Pre Contact Isolate | Cedar Salish Canoe | Unevaluated | Research Area |
| 45KI431 | Traditional Cultural Property | Allentown Fishing Camp | Eligible | Research Area |
| 45KI449 | Pre Contact Midden | Shell Midden | Unevaluated | Research Area |
| 45KI703 | Pre Contact Feature | Lithic Scatter | Eligible | Research Area |
| 45KI772 | Historic Railroad Property | Columbia & Puget Sound/Pacific Coast Railroad Grade | Unevaluated | APE |
| 45KI538 | Historic Railroad Property | Columbia & Puget Sound/Pacific Coast Railroad Grade | Unevaluated | Research Area |
| 45KI815 | Pre Contact Midden | Shell Midden | Eligible | Research Area |
| 45KI816 | Pre Contact Camp | Camp and Shell Midden | Unevaluated | Research Area |
| 45KI817 | Pre Contact Camp | Short term occupation site | Unevaluated | Research Area |
| Bld. 105, Boeing Airplane co. | Historic Industrial | Historic Site of Boeing Airplane Company | Listed | Research Area |
| Covenant Beach Bible Camp | Historic Structures/Religious Properties | Complex of historic religious camp buildings | Listed | Research Area |
| Riverton Crest Cemetery | Cemetery | Historic cemetery est. 1902 | Inventory | Research Area |
| St. Patrick Cemetery | Cemetery | Historic cemetery est. 1880 | Inventory | Research Area |
| Washington Memorial Cemetery | Cemetery | Historic cemetery est. 1930 | Inventory | Research Area |

^a Information gathered from Washington Information System for Archaeological and Architectural Records Data (WISAARD)

4.2.1 Archaeological Site 45KI772

Archaeological site 45KI772 was originally recorded in 2007. The site is located along the eastern edge of Des Moines Memorial Drive South in the City of SeaTac. The site consists of subsurface historic debris and features. A total of 12 features were identified within the site. The site has not been evaluated for NRHP eligibility.



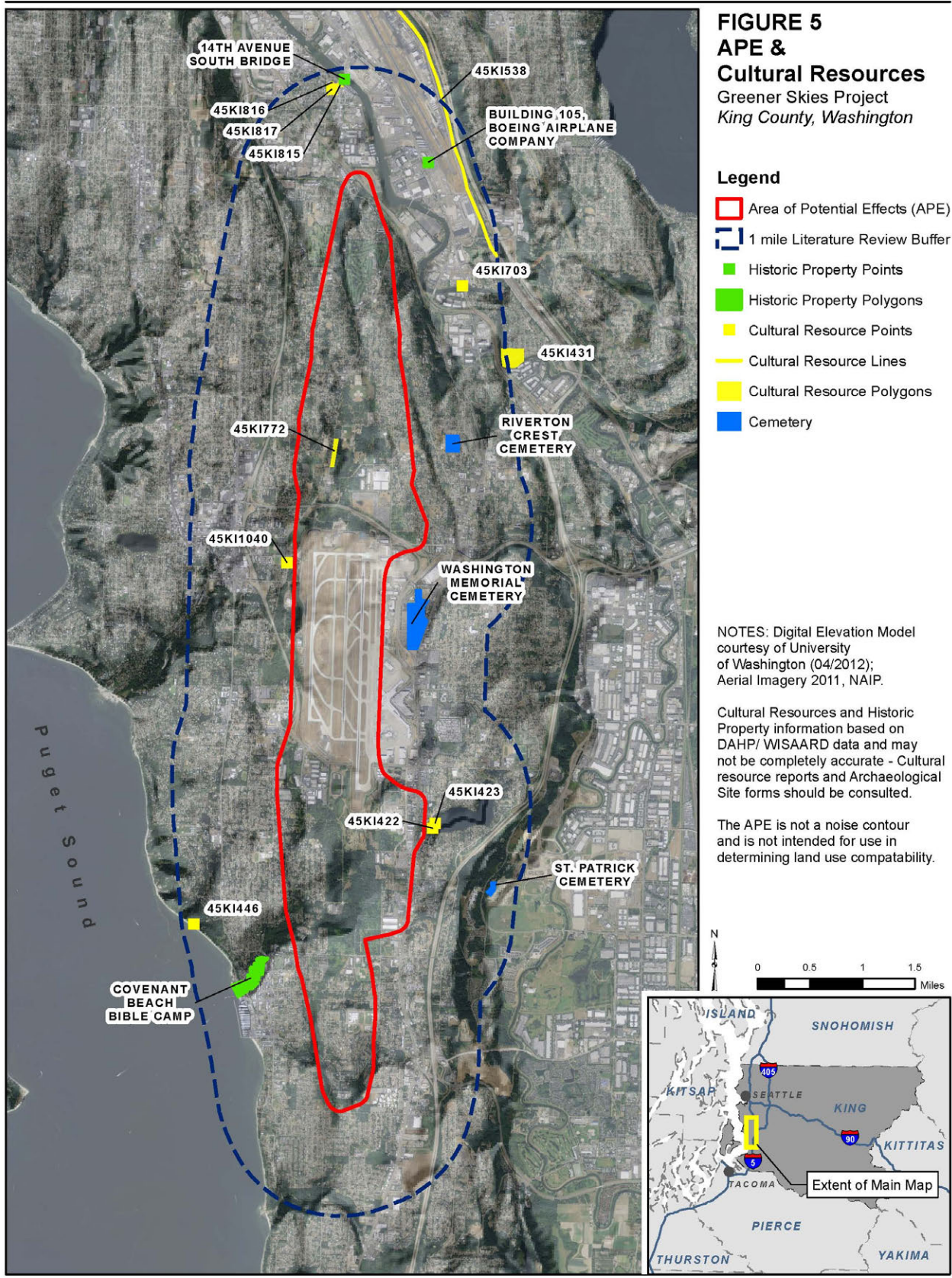


FIGURE 5
APE &
Cultural Resources
 Greener Skies Project
 King County, Washington

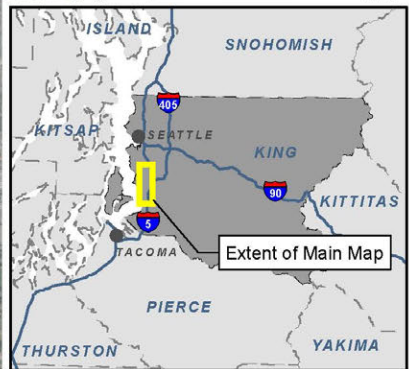
Legend

- ▭ Area of Potential Effects (APE)
- ▭ 1 mile Literature Review Buffer
- Historic Property Points
- Historic Property Polygons
- Cultural Resource Points
- Cultural Resource Lines
- ▭ Cultural Resource Polygons
- ▭ Cemetery

NOTES: Digital Elevation Model courtesy of University of Washington (04/2012); Aerial Imagery 2011, NAIP.

Cultural Resources and Historic Property information based on DAHP/ WISAARD data and may not be completely accurate - Cultural resource reports and Archaeological Site forms should be consulted.

The APE is not a noise contour and is not intended for use in determining land use compatibility.



Path: W:\FAA\MapFiles\RevisedFinal\XDs\APE_Fig5_LitRevBuffer.mxd

5. Research Design

The literature review and cultural context provided a basis to develop a research design for this project. The research design includes investigation of existing cultural resource and historical information, analysis of geomorphologic data, the use of Geographic Information Systems (GIS) and archaeological fieldwork to address potential effects to cultural resources.

5.1 Objectives/Expectations

The objective of the Cultural Resource Review was to comply with the Section 106 process of the NHPA of 1966 as amended, specifically CFR 800(3) to determine if there is a potential to cause effects to NRHP eligible historic properties.

This undertaking involves altering the use of flight paths into SEA and does not include any ground disturbing activities. The change in flight paths does have the potential to alter noise levels which could cause indirect effects to historic properties. For an undertaking to have an adverse effect it must be demonstrated that the undertaking may alter any of the characteristics of a historic property which qualify the property for inclusion in the NRHP in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. The information presented in this review has been used to take into account the effects on historic properties that could result from this project.

5.2 Methodology

The purpose of this section 106 review is to take into account the effects this undertaking may have on historic properties. A methodology was developed to identify historic properties that may be affected by this undertaking. Identification methods should be designed to the degree required to make specific decisions about potential impacts and preservation management. Since there is no ground disturbance associated with this project the research methodology is focused on identification of the types of historic properties that could be affected by the types of potential impacts associated with this undertaking. This undertaking has the potential to alter noise levels due to the change in flight paths. A noise analysis was completed as part of the Environmental Assessment (EA) for this undertaking. Appendix B Contains Figures 6.1-12 and 6.1-13 from the noise analysis. These figures show projected DNL values for the No-Action Alternative and the Proposed Action Alternative respectively. The findings show that there will be no significant change to noise levels as a result of this undertaking, and all noise changes (increase or decrease) will be of 1.5 dB or less (FAA 2012). Because there will be no significant change in noise levels this undertaking will not cause any effects to historic properties, assuming such properties are present within the APE. An inventory of existing documentation and previously recorded archaeological sites as presented in the literature review section is a reasonable and good faith effort for identification to make decisions regarding impacts to historic properties. No additional identification effort is needed to satisfy Section 106 requirements

6. Conclusions

The project includes the implementation of new approach procedures into SEA. The project will change use of flight paths around SEA. The preparation of this Section 106 Review included a literature review, background research and analysis of potential impacts caused by the undertaking. The results of this research provide a basis with which to identify a finding of effects for this undertaking. The literature review and other research indicate that ten surveys have been conducted for various projects and one previously recorded archaeological site is located within the APE. A noise analysis was completed as part of the National Environmental Policy Act Environmental Assessment for this undertaking. The findings show that there will be no significant change to noise levels as a result of this undertaking (FAA 2012). Because there will be no significant change in noise levels, this undertaking will not cause any effects to historic properties, assuming such properties are present within the APE. The results of this Section 106 review have identified that the project as planned will have No Adverse Effect to Historic Properties. No avoidance or mitigation measures are necessary to maintain this finding.

The Washington State Historic Preservation Office and interested parties have 30 days from receipt of this document to provide an opinion.

9. References

- Blukis Onat, A.R., P.E. LeTourneau, J.K. Stein, R.A. Kiers, T.L. Cowan, G.B. Bishop, K. Bernick, M. Etnier, K. Bovy, S. Johannessen, L. Scott Cummings, and R.A. Varney
2010 *The Duwamish River Bend Site Data Recovery at 45KI703*. BOAS, Inc., Seattle, Washington.
- Boggs, Brian, Bryan Hoyt, Katherine F. Chobot, and Paula Johnson
2009 *City of Des Moines North Marina Combined Improvements Project, King County, Washington*. Prepared for The City of Des Moines, Des Moines, Washington.
- Brethower, K., M. Steinkamp, and T. Baker
2009 *Cultural Resource Inventory for the Des Moines Kingdom Hall*. SWCA Environmental Consultants, Portland, Oregon.
- CityofSeaTac.wa.us
2012 *City of SeaTac: City History* <http://www.ci.seatac.wa.us/index.aspx?page=62>. Accessed August 17, 2012.
- Cole, Steve
2001 *Heritage Resources Investigation of the South Park Cell # 41982 Tower T. 24 N., R. 4 E., Section 32 King County, Washington*. Northwest Archaeological Associates, Inc., Seattle, Washington.
- Courtois, S., K. Krafft, C. Wickwire, J. Bard, R. McClintock
1998 *Central Link Light Rail Project Draft Environmental Impact Statement; Historic and Archaeological Technical Report* Central Puget Sound Regional Transit Authority, Seattle, Washington.
1999 *Central Link Light Rail Transit Project Final Technical Report* Central Puget Sound Regional Transit Authority, Seattle, Washington.
- Earley, Amber
2012 *Results of Archaeological Monitoring for the Norfolk MLK Water Quality Treatment Site Project, Seattle, Washington*. Northwest Archaeological Associates Cultural Resources Management Services, Seattle, Washington.
- Elder, J. Tait, Kurt Perkins, and Stacy Schneyder
2009 *Upper Johnson Creek Restoration Cultural Resources Survey*. ICF Jones & Stokes, Seattle, Washington.
- ENTRIC Inc. and BOAS Inc.
2008 *Cultural Resources Survey for the South Park Bridge Project. Prepared for the King County Road Services Division, Seattle, Washington*.
- ENTRIX Inc.
2005 *Archaeological and Historical Resources Technical Report for the Tukwila South Project*. Prepared for LA PIANITA, LLC, Tukwila, Washington.
- Federal Aviation Administration (FAA)
2012 *Draft Environmental Assessment for Greener Skies Over Seattle*. Renton, Washington.
- Fernandez, T., M. Cascella, T. Elder, C. Hetzel, and K. Perkins
2011 *Cultural Resources Survey Report; Lake to Sound Trail-Segment B*. ICF International, Seattle, Washington.
- Forsman, L and L. Larson
1998 *Port of Seattle North SeaTac Airport Employee Parking Lot Cultural Resource Assessment* Larson Anthropological Services, Seattle, Washington.
- Foutch, A., M. Punke, J. Held, E. O'Brien, and J. Fagan
2009 *Cultural Resources Study for the SR 99 Intelligent Transportation System Improvements Project*. Archaeological Investigations Northwest, Inc. Portland, Oregon.
- Franklin, Jerry F. and C. T. Dyrness
1973 *Natural Vegetation of Oregon and Washington*. OSU Press. Corvallis, Oregon.

Gilpin, Jennifer

2006 *Archaeological Monitoring at 9229 E. Marginal Way Tukwila, King County, Washington*. Historical Research Associates Inc., Seattle, Washington.

Goetz, Linda Naoi and John Warner

1997 *Results of a Cultural Resources Assessment for the Tolt Pipeline No. 2, Phase IV Project, North King County, Washington*. Historical Research Associates, Inc., Seattle, Washington.

Goetz, L.N., D. Tingwall, K. Kanaby, and T. Rust

2009 *Cultural Resources Assessment for the City of Des Moines Transportation Gateway Project*. Landau Associates, Edmonds, Washington.

Historical Research Associates, Inc.

2004 *South Park Bridge Project Cultural and Historical Resources Technical Report*. Prepared for the King County Department of Transportation, Seattle, Washington.

Historylink.org

2012 *SeaTac: Thumbnail History*

http://www.historylink.org/index.cfm?DisplayPage=output.cfm&file_id=4181 Accessed August 10, 2012.

Hoyt, Bryan and Paula Johnson

2008 *Letter to Patrice Thorell (City of Des Moines) Regarding the Cultural Resources Monitoring during Geotechnical Borings at the Covenant Beach Park from Bryan Hoyt and Paula Johnson (Paragon Research Associates)*. Paragon Research Associates, Seattle, Washington.

Hoyt, Bryan, Katherine F. Chobot, and Paula Johnson

2008 *Cultural Resources Survey of a Portion of the Des Moines Creek Trail, Des Moines, King County, Washington*. Prepared for The City of Des Moines Parks and Recreation Department, Des Moines, Washington.

2009 *Cultural Resources Assessment for the Des Moines Creek Flood Mitigation Project, King County, Washington*. Prepared for the City of Des Moines, Des Moines, Washington.

Hoyt, Bryan, Katherine F. Wilson, and Paula Johnson

2011 *Archaeological Monitoring for the City of Des Moines North Marina Combined Improvements Project, King County, Washington*. Prepared for City of Des Moines, Des Moines, Washington.

Hudson, Lorelea and Robert M. Weaver

2003 *February 14, 2003 Letter to Steve Shipe (WSDOT) Regarding I-5 Pierce County Line to Tukwila 1/C Stage 2N Agreement No. Y-7856, Task Order AN from Lorelea Hudson (NWAA)*. Northwest Archaeological Associates and Hart Crower, Seattle, Washington.

Iversen, David R. and Lynn L. Larson

2000 *Preliminary Report, Cliff Condominiums Archaeological Resources and Traditional Cultural Places Assessment, Des Moines, King County, Washington*. Larson Anthropological Archaeological Services Limited. Gig Harbor, Washington.

Iversen, D., L. Forsman, D. Lewarch, and L. Larson

2000 *Port of Seattle North SeaTac Airport Master Plan, Proposed Third Runway Archaeological Resources and Traditional Cultural Places Assessment*. Larson Anthropological Archaeological Services Limited, Gig Harbor, Washington.

2001a *S. 228th Street Extension Archaeological Resources and Traditional Cultural Places Assessment, King County, Washington*. Larson Anthropological Archaeological Services Limited, Gig Harbor, Washington.

2001b *Pacific Highway South HOV Lanes Cultural Resources Assessment King County, Washington*. Larson Anthropological Archaeological Services Limited, Gig Harbor, Washington.

- Johnson, Paula and Bryan Hoyt
2008 *Letter to Dennis Clark (King County Department of Natural Resources and Parks Water and Land Resources Division) Regarding Subsurface Investigation of the Proposed Duwamish Gardens from Paula Johnson and Bryan Hoyt (Paragon Research Associates, LLC)*. Paragon Research Associates, LLC, Seattle, Washington.
- Keeney, Rosalind
2008 *Park Lake Homes II Redevelopment Project (PLH II) Cultural Resources Technical Report*. Parametrix, Bellevue, Washington.
- Kent, Ronald J.
2004 *Cultural Resources Survey and Testing for the North Wind's Weir Intertidal Restoration Project on the Duwamish River, City of Tukwila, King County, Washington*. U.S. Army Corps of Engineers, Seattle District Environmental Resources Section, Seattle, Washington.
- Leeds, Leon L.
1996 *M. Jordan Shell Midden (45KI446) Marine View Park, City of Normandy Park, Washington: Site Identification Report*. Center for Puget Sound History and Archaeology, Bellevue, Washington.
- Lenz, Brett R.
2010 *A Cultural Resources Survey of Proposed Duwamish Bend Development, Tukwila, Washington*. Columbia Geotechnical Associates Inc., Redmond, Washington.
- Nelson, C.M.
1990 Prehistory of the Puget Sound Region. In *Handbook of North American Indians Volume 7: Northwest Coast*, edited by Wayne Suttles. Pp 481-484. Smithsonian Institution, Washington D.C.
- PB and Larson Anthropological Archaeological Services Ltd.
2007 *SR 518-509 Interchange Improvements Cultural Resources Discipline Report*. Washington State Department of Transportation, Seattle, Washington.
- Robbins, Jeffrey R., Lynn L. Larson, and Dennis E. Lewarch
1995 *Cultural Resources Monitoring Alki Transfer/CSO Project Allentown Trunk*. Prepared for King County Department of Metropolitan Services, Seattle, Washington.
- Roedel, K.
2001 *June 6, 2001 Letter to Ronda Strauch (King County Road Services Division) Regarding the Archaeological Resources Monitoring for the South Park Bridge Project from Kurt W. Roedel (Larson Anthropological Archaeological Services Limited)*.
- Rooke, Lara
2010a *Cultural Resources Discipline Report for the Burien to Renton RapidRide-F Line Project*. AMEC Earth & Environmental, Tacoma, Washington.
2010b *Cultural Resources Assessment of the E.J. Nist Park Improvement Project, Normandy Park, King County, Washington*. AMEC Earth & Environmental, Inc., Bothell, Washington.
- Scott, Todd
2008 *Historic Resources Survey and Inventory Kent, Washington*. King County Historic Preservation Program, Seattle, Washington.
- Silverman, Maria, Jenny Dellert, and Derek Shaw
2009 *Cultural Resources Reconnaissance for Norfolk Water Quality Treatment Site and Puget Creek Natural Area City of Seattle, King County, Washington*. Historical Research Associates, Inc., Seattle, Washington.
- Stipe, F.
2010 *Barnes Creek Cultural Resource Investigation*. Tetra Tech, Bothell, Washington.

Suttles, W., and B. Lane

1990 Southern Coast Salish. *In Handbook of North American Indians Volume 7: Northwest Coast*, edited by Wayne Suttles. Pp 485-502. Smithsonian Institution, Washington D.C.

Tingwall, Doug and Linda N. Goetz

2006a *Cultural Resources Report, Burien Town Square Street Improvement Project, Burien, Washington*. Landau Associates, Edmonds, Washington.

2006b *Cultural Resources Report, 4th Avenue SW Improvement Project, Burien, Washington*. Landau Associates, Edmonds, Washington.

Thorson, Robert J.

1981 "Ice-sheet Glaciation of the Puget Lowland, Washington, During the Vashon Stade (late Pleistocene)." *Quaternary Research* 13: 303-312.

Appendix A
APE Correspondence



STATE OF WASHINGTON

DEPARTMENT OF ARCHAEOLOGY & HISTORIC PRESERVATION

1063 S. Capitol Way, Suite 106 • Olympia, Washington 98501
Mailing address: PO Box 48343 • Olympia, Washington 98504-8343
(360) 586-3065 • Fax Number (360) 586-3067 • Website: www.dahp.wa.gov

August 13, 2012

RECEIVED AUG 14 2012

RECEIVED AUG 14 2012

Mr. John Warner
Manager, Operations Support Group
Federal Aviation Administration, Western Service Center
1601 Lind Ave, SW
Renton, WA 98057

In future correspondence please refer to:

Log: 010312-24-FAA

Property: Greener Skies over Seattle-Proposed New Air Traffic Arrival Procedures at SEATAC

Re: Archaeology - APE Concur

Dear Mr. Warner:

We have reviewed the materials forwarded to our office for the Greener Skies over Seattle project. Thank you for your description of the area of potential effect (APE) for the project. We concur with the definition of the APE. We look forward to the results of your cultural resources survey efforts, your consultation with the concerned tribes, and receiving the cultural resources report or the draft Environmental Assessment (EA). We would appreciate receiving any correspondence or comments from concerned tribes or other parties that you receive as you consult under the requirements of 36CFR800.4(a)(4) and the survey report when it is available.

These comments are based on the information available at the time of this review and on behalf of the State Historic Preservation Officer in conformance with Section 106 of the National Historic Preservation Act and its implementing regulations 36CFR800. Should additional information become available, our assessment may be revised.

Please note that DAHP requires that all historic property inventory and archaeological site forms be provided to our office electronically. If you have not registered for a copy of the database, please log onto our website at www.dahp.wa.gov and go to the Survey/Inventory page for more information and a registration form. To assist you in conducting a survey, DAHP has developed a set of cultural resource reporting guidelines. You can obtain a copy of these guidelines from our website. Also, please note that DAHP requires that all cultural resource reports be submitted in PDF format on a labeled CD or electronically. For further information please go to http://www.dahp.wa.gov/documents/CR_ReportPDF_Requirement.pdf.

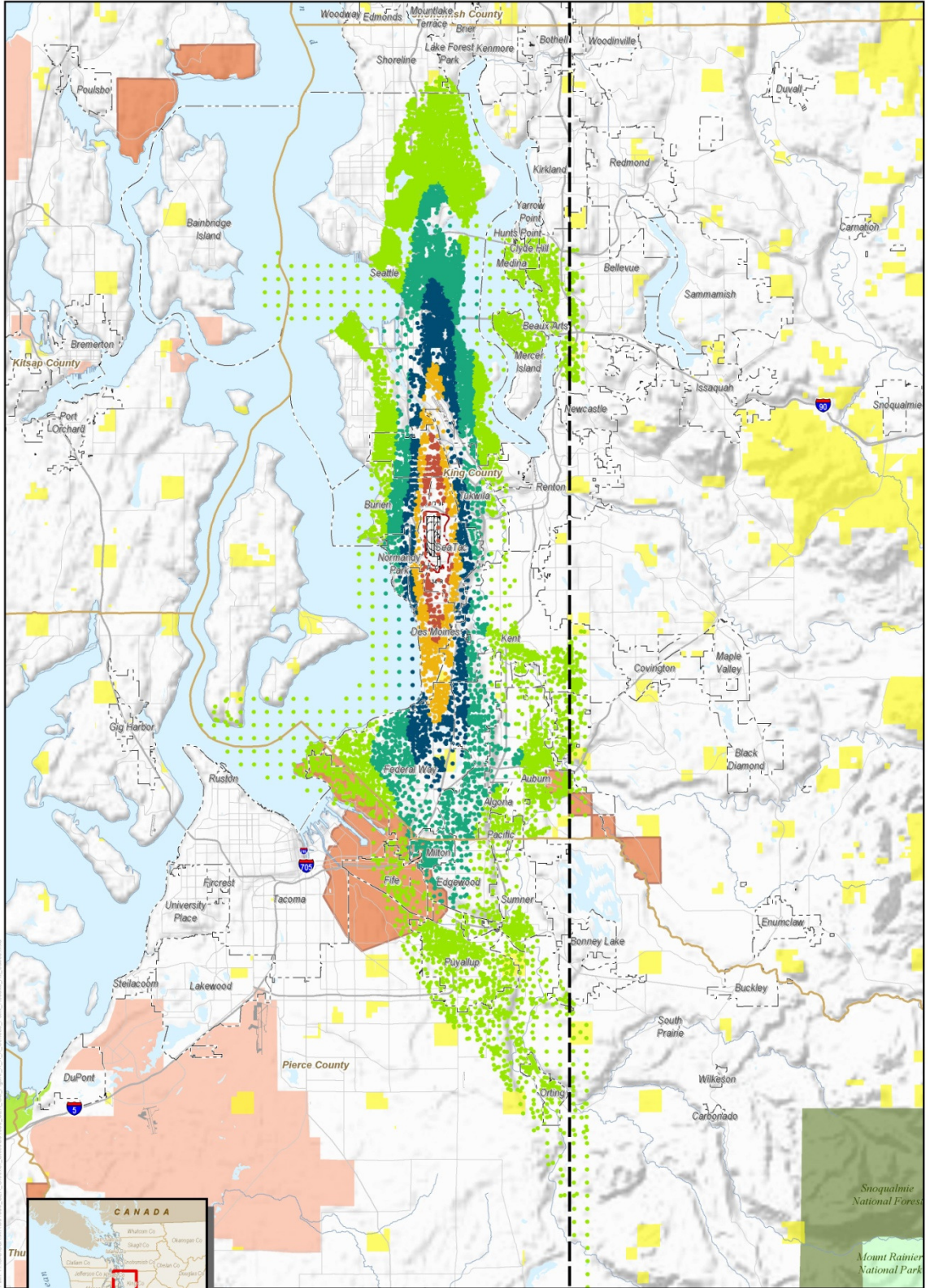
Thank you for the opportunity to review and comment. If you have any questions, please feel free to contact me.

Sincerely,

Matthew Sterner, M.A.
Transportation Archaeologist
(360) 586-3082
matthew.sterner@dahp.wa.gov



Appendix B Noise Data



Data Sources: Washington State Dept. of Natural Resources (DNR), National Park Service (NPS), National Atlas of The United States, United States Geological Survey (USGS), Environmental Systems Research Institute, Inc. (ESRI)

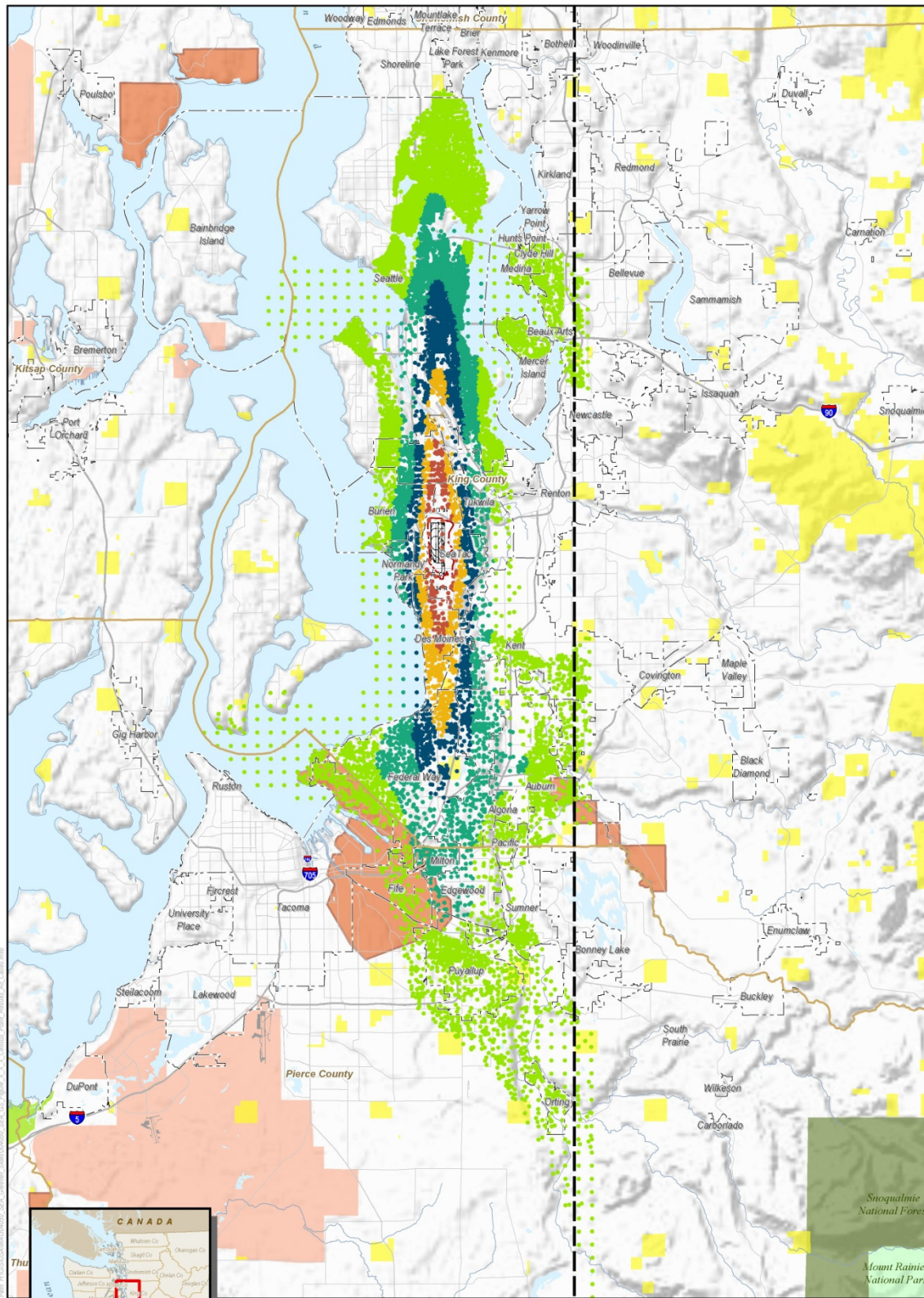
- Study Area Boundary
- Airport-Runways
- Airport Boundary
- City Boundary
- County Boundary
- Highways/Roads
- National Forest
- National Wildlife Refuge
- National Park Service
- Department of Defense
- Tribal Land
- DNR Managed Land
- 45.0 - 50.0 dB DNL
- 50.0 - 55.0 dB DNL
- 55.0 - 60.0 dB DNL
- 60.0 - 65.0 dB DNL
- 65.0 - 70.0 dB DNL
- >70.0 dB DNL

Greener Skies
Environmental Assessment

2023 DNL Values for No-Action Alternative

Figure 6.1-12

HARRIS MILLER MILLER & HANSON INC.



Data Sources: Washington State Dept. of Natural Resources (DNR), National Park Service (NPS), National Atlas of the United States, United States Geological Survey (USGS), Environmental Systems Research Institute, Inc. (ESRI)

- | | | |
|--|--|------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | >70.0 dB DNL symbol"/> |



Greener Skies
Environmental Assessment

2023 DNL Values for Proposed Action Alternative

Figure 6.1-13

HARRIS MILLER MILLER & HANSON INC.

I.4 State Historic Preservation Office Letter of Concurrence with CRR



RECEIVED OCT 18 2012

STATE OF WASHINGTON

DEPARTMENT OF ARCHAEOLOGY & HISTORIC PRESERVATION

1063 S. Capitol Way, Suite 106 • Olympia, Washington 98501
Mailing address: PO Box 48343 • Olympia, Washington 98504-8343
(360) 586-3065 • Fax Number (360) 586-3067 • Website: www.dahp.wa.gov

October 15, 2012

Mr. John Warner
Manager, Operations Support Group
Federal Aviation Administration, Western Service Center
1601 Lind Ave, SW
Renton, WA 98057

In future correspondence please refer to:

Log: 010312-24-FAA

Property: Greener Skies over Seattle-Proposed New Air Traffic Arrival Procedures at SEATAC

Re: Receipt of Discipline Report, No Adverse Effect

Dear Mr. Warner:

Thank you for contacting the Washington State Department of Archaeology and Historic Preservation (DAHP). The Section 106 discipline report prepared by CH2MHill has been received and reviewed on behalf of the State Historic Preservation Officer under provisions of Section 106 of the National Historic Preservation Act of 1966 (as amended) and 36 CFR Part 800. My review is based upon documentation contained in your communication.

I concur that the current project as proposed will have no adverse effect on National Register eligible or listed historic properties or cultural resources. If additional information on the project becomes available, or if any archaeological resources are uncovered during construction, please halt work in the area of discovery and contact the appropriate Native American Tribes and DAHP for further consultation.

Thank you for the opportunity to review and comment. If you have any questions, please contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Matthew Sterner".

Matthew Sterner, M.A.
Transportation Archaeologist
(360) 586-3082
matthew.sterner@dahp.wa.gov



