

Chapter 3. Scope of the Habitat Conservation Plan

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3. Scope of the Habitat Conservation Plan

3.1 Species Covered and Addressed

3.1.1 Species Covered by the HCP

This Habitat Conservation Plan (HCP) requests ESA coverage for six species of fish, as listed in Table 3-1. Each of these species meets all of the following criteria:

- The species is known to be present or has the potential to be present within the Sandy River Basin during the term of the Incidental Take Permit (ITP).
- The species is currently listed or has the potential to be listed under the federal Endangered Species Act (ESA) as threatened or endangered during the term of the ITP.
- The species has the potential to be affected by one or more of the covered activities described in Section 3.4.

The ecology, current status, and distribution of each covered species in the Sandy River Basin are described in Chapter 5 of this HCP. The City of Portland (City) seeks coverage for each of these species in an ITP.

Table 3-1. Fish Species Covered by the HCP

Common Name	Scientific Name	Status ^a	
		Federal	State
Lower Columbia River Chinook Salmon (Spring and Fall) ^b	<i>Oncorhynchus tshawytscha</i>	T	S
Lower Columbia River Steelhead	<i>Oncorhynchus mykiss</i>	T	S
Lower Columbia River Coho Salmon	<i>Oncorhynchus kisutch</i>	T	E
Columbia River Chum Salmon	<i>Oncorhynchus keta</i>	T	S
Pacific Eulachon	<i>Thaleichthys pacificus</i>	C	none

^aStatus Codes: E = Endangered; T = Threatened; C= Candidate; S = Sensitive

^bFall and spring Chinook are separate races of the same species (*O. tshawytscha*). In this HCP, the City refers to them as two species. Fall and spring Chinook, steelhead, and coho are therefore referred to as the four primary covered species.

3.1.2 Species Addressed by the HCP

The HCP also includes conservation measures and effects analyses for 18 fish and wildlife species under the jurisdiction of the U.S. Fish and Wildlife Service. The species included were those most likely to be affected by water system operations and/or benefited by measures designed for the anadromous fish. The 18 species are listed in Table 3-2. One of

the species, northern spotted owl, is currently listed as threatened. The bald eagle was recently delisted under ESA but is still protected under other federal statutes. The City does not seek ESA coverage for the USFWS species at this time. However, the City believes the HCP provides protection for these species and their habitats that avoids or mitigates any significant impacts.

Table 3-2. Additional Species to Benefit from the HCP Measures

Common Name	Scientific Name	Status ^a	
		Federal	State
<i>Fish</i>			
Rainbow Trout	<i>Oncorhynchus mykiss</i>	none ^b	S
Coastal Cutthroat Trout	<i>Oncorhynchus clarki clarki</i>	SOC	S
Pacific Lamprey	<i>Lampetra tridentata</i>	SOC	S
River Lamprey	<i>Lampetra ayresi</i>	SOC	none
Western Brook Lamprey	<i>Lampetra richardsoni</i>	none	none
<i>Amphibians and Reptiles</i>			
Cope's Giant Salamander	<i>Dicamptodon copei</i>	none	S
Cascade Torrent Salamander	<i>Rhyacotriton cascadae</i>	none	S
Clouded Salamander	<i>Aneides ferreus</i>	none	S
Oregon Slender Salamander	<i>Batrachoseps wrighti</i>	SOC	S
Coastal Tailed Frog	<i>Ascaphus truei</i>	SOC	S
Northern Red-legged Frog	<i>Rana aurora aurora</i>	SOC	S
Cascades Frog	<i>Rana cascadae</i>	SOC	S
Western Toad	<i>Bufo boreas</i>	none	S
Western Painted Turtle	<i>Chrysemys picta belli</i>	none	S
Northwestern Pond Turtle	<i>Clemmys marmorata marmorata</i>	SOC	S
<i>Birds and Mammal</i>			
Bald Eagle	<i>Haliaeetus leucocephalus</i>	none ^c	T
Northern Spotted Owl	<i>Strix occidentalis caurina</i>	T	T
Fisher	<i>Martes pennanti</i>	C	S

^aStatus Codes: T = Threatened; S = Sensitive; C = Candidate; SOC = Species of Concern

^bThe resident form of Lower Columbia River rainbow trout, *O. mykiss*, is not listed under the Endangered Species Act.

^cThe bald eagle was delisted as a threatened species on the Endangered Species List on July 9, 2007 (USFWS 2007a). The City has prepared its bald eagle measure according to the National Bald Eagle Management Guidelines (USFWS 2007b).

3.2 Covered Lands

The City seeks coverage in the ITP for all lands associated with, and/or potentially affected by, covered activities located within the hydrologic boundary of the Sandy River Basin (except as specifically excluded in this chapter). The boundaries of the Sandy River Basin are shown in Figure 2-1. Covered lands include lands owned by the City and lands owned by others on which the City operates its water supply system or on which the City will implement habitat conservation measures. On these lands, the City seeks coverage for the activities listed in Section 3.4, but only to the extent that those activities affect the covered species.

3.3 Covered Facilities

The City seeks coverage for all facilities owned, operated, and/or used by the City as part of the Bull Run water supply system within the hydrologic boundary of the Sandy River Basin (unless specifically excluded in this chapter), but only to the extent these facilities are affected by the covered activities. Covered facilities are the following:

- Bull Run Dam 1 and Dam 2, and associated structures
- Reservoir 1 (Lake Ben Morrow) and Reservoir 2
- Reservoir 2 spillway approach canal
- Diversion dam and pool below Dam 2
- Spillway weir and pool below Dam 2
- Reservoir log booms and other reservoir structures
- Headworks facility (screens, chlorination facility, operation equipment)
- Water supply conduits (including interties and blowoffs), bridges, and trestles
- Water quality monitoring stations and flow gauges in the lower Bull Run River and the Little Sandy River
- Microwave communication towers located adjacent to waterways or reservoirs
- Sandy River Station maintenance facility
- City-owned or maintained roads and other paved/graveled surfaces on nonfederal lands
- City-owned or maintained easements on nonfederal lands owned by others (e.g., water supply conduit easements on private land)
- Easements owned or maintained by others on City-owned land (e.g., Bonneville Power Administration powerline easements on City land)

Facilities specifically excluded from the City's request for Section 10 coverage include water system facilities at Bull Run Lake, hydroelectric facilities at Dam 1 and Dam 2, the Lusted Hill Treatment Facility, Dodge Park at the confluence of the Bull Run and Sandy rivers, water supply conduits crossing the mainstem Sandy River, roads on federal land, minor facilities on national forest land upstream of Dam 2 and outside the riparian area surrounding the reservoirs, and all water supply facilities located outside the Sandy River Basin.

ESA coverage is available for facilities on federal lands through ESA Section 7 procedures, so the City has chosen to exclude some of them in the HCP (e.g., Bull Run Lake and federal roads).

3.4 Covered Activities

The City seeks coverage for City-implemented or City-authorized activities associated with the lands and facilities listed in Sections 3.2 and 3.3 to the extent that they affect covered species in Section 3.1. Covered activities are the following:

- Operation, maintenance, and repair of the water system
- Implementation of habitat conservation, research and monitoring measures
- Incidental land management

Each of these categories of covered activities is described in greater detail below.

Water system activities specifically excluded from the request for coverage include operation and maintenance of City facilities at Bull Run Lake; operation and maintenance of the Lusted Road Treatment Facility; operation and maintenance of Dodge Park; operation, maintenance, and replacement of conduits crossing the mainstem Sandy River; operation and maintenance of hydroelectric facilities at Dam 1 and Dam 2; operation and maintenance of minor facilities on national forest lands that are upstream of Dam 2 and outside the riparian area surrounding the reservoirs; maintenance and repair of roads on federal land; all aspects of the water supply system located outside of the Sandy River Basin; and activities by others in the Bull Run River watershed not specifically mentioned here. City funding of ODFW fish hatchery operations under the City's pre-existing federal hydropower license is also excluded (see Chapter 2).

During the term of the HCP, water supply facilities within the Bull Run and Sandy River Basin might be modified, constructed, or reconstructed by the City for reasons that are currently not anticipated and/or are not described in the HCP. The City will notify the NMFS prior to such currently undescribed activities if there is a potential for take of covered species and will consult with NMFS about measures to avoid or mitigate take. The HCP will be amended if necessary.

3.4.1 Operation, Maintenance, and Repair of the Water System

The City will continue to operate, maintain, and repair the Bull Run water supply system to provide a safe and reliable supply of water, satisfy the habitat conservation requirements of this HCP, comply with other pertinent laws and regulations, ensure the safety of its employees and of the general public, and protect the physical integrity of the water supply system structures. Covered activities are the following:

- Storage of water in system reservoirs and regulation of reservoir surface elevations
- Diversion of water for water supply
- Alteration of flows downstream from the water supply dams and diversion
- Release of water from reservoirs into the Bull Run River
- Adjustment of water intake depth to regulate temperature, turbidity, and color
- Seasonal closure of gates at the Dam 1 spillway to store additional water
- Removal of debris (including logs) from reservoirs

- Operation of boats and barges on reservoirs
- Delivery and storage of fuel and lubricants for water supply system vehicles and equipment
- Delivery and storage of chlorine gas for water supply disinfection
- Draining of water supply conduits
- General landscape maintenance within and around facilities
- Operation, maintenance, and repair of all facilities listed in Section 3.3

See description of these activities in Chapter 8, Section 8.7, for further information.

3.4.2 Habitat Conservation, Research, and Monitoring Measures

The City seeks coverage for implementation of habitat conservation measures described in Chapter 7, the research and monitoring measures described in Chapter 9, as well as any additional habitat conservation measures and monitoring measures implemented as part of adaptive management.

3.4.3 Incidental Land Management Activities

The City also seeks coverage for the following activities in the Sandy River Basin that are incidental to the operation of the water supply system:

- Management of City-owned riparian lands in the Bull Run watershed
- Maintenance and repair of roads, bridges, culverts, parking lots, easements and rights-of-way on nonfederal lands in the Bull Run watershed
- Operation and maintenance of the Sandy River Station maintenance facility

See description of these activities in Chapter 8, Section 8.7, for further information.

3.5 Term of the HCP

The City seeks a 50-year term for the HCP and ITP.