



News Release

U.S. Fish & Wildlife Service U.S. Geological Survey National Park Service - Olympic National Park

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For Immediate Release

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Biologist- Divers Complete 42- Mile Snorkel Survey of Elwha River

In one of the longest snorkel surveys ever completed in North America, fisheries biologists recently swam the length of the Elwha River – from its headwaters to its mouth – with the goal of establishing a baseline of the river’s fish population before dam removal begins.

The forty- two mile underwater trip began at an elevation of 2,250 feet, just above Chicago Camp in the upper Elwha Valley and ended at sea level where the river enters the Strait of Juan de Fuca west of Port Angeles.

Twenty- one biologists from the National Park Service, U.S. Fish and Wildlife Service, U.S. Geological Survey, the Lower Elwha Klallam Tribe, the National Oceanic and Atmospheric Administration, Peninsula College and the Wild Salmon Center participated in the snorkel survey. The study was primarily funded by the U.S. Fish and Wildlife Service.

“We are very grateful to our many partners who provided staff, expertise and support for this landmark study,” said Olympic National Park Superintendent Bill Laitner. “As we continue to move closer to removing the two Elwha River dams, it’s vitally important that we have an understanding of the ecosystem as it is today.”

“Establishing a baseline of fish populations before dam removal will help us better understand and measure the success of dam removal and restoration,” Laitner continued.

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Biologists found the greatest diversity of fish below the two dams, an expected result since the dams have blocked fish access since they were constructed in the early 1900s. Excellent fish habitat exists above the dams however, where the river is protected within Olympic National Park.

In the five river miles below the dams, divers observed Chinook, pink, and coho salmon, along with sculpin, bull trout, threespine sticklebacks, starry flounder, and freshwater mussels.

Above the dams, snorkelers encountered only rainbow trout and bull trout, species that have been physically isolated from their counterparts below the dams for over 90 years. Rainbow trout, bull trout and one non- native brook trout were found between the two dams.

In total, divers observed 7,300 rainbow trout, 215 bull trout, 539 adult Chinook salmon, and 26 pink salmon. The bull trout and Chinook salmon found in the Elwha River are both listed as threatened on the federal endangered species list.

“Perhaps the most riveting aspect of the headwaters to ocean survey was the reality that Pacific salmonids will be rewarded with exceptionally high quality spawning gravels in remote sections of Olympic National Park following dam removal” said Sam Brenkman, fisheries biologist at Olympic National Park.

The Elwha River was once one of the most productive salmon streams in the Pacific Northwest, home to all five species of Pacific salmon, as well as other fish species. The Elwha and Glines Canyon dams have blocked fish from all but the lowest five miles of the river since the early 1900s. Removal of the two dams will restore the Elwha to its natural, free- flowing state and will once again allow fish access to over 70 river miles of habitat now protected within Olympic National Park. Dam removal will begin after water quality protection facilities are complete.

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Photos Available for Download at <http://www.nps.gov/olym/naturescience/elwha-fisheries.htm>

Additional Notes:

- The snorkel survey was completed between August 20 and 24, 2007.
 - Before the snorkel survey began, National Park Service personnel conducted aerial surveys to view three major canyons in the Elwha River, identify take- out points and highlight swift water area. Detailed topographic maps and aerial photos were used.
 - The river was also checked from shore to ensure safety and identify hazardous sections.
 - Participants were all fisheries scientists, ecologists, or fisheries technicians. There were a total of three PhDs, six Masters of Science, and six Bachelors of Science.
 - Two snorkelers moved downstream together at the speed of the current, and recorded fish on a dive slate attached to their arm.
 - Crews hiked up to 60 miles throughout the week in remote portions of the river valley.
 - Lake Mills, Lake Aldwell, Rica Canyon and Grand Canyon were not surveyed.
 - Riverflows during the week of the survey ranged from 425 to 525 cfs; water temperatures ranged from 11.5 to 14.0 C
 - Divers were equipped with drysuits, masks, snorkels, underwater cameras, neoprene gloves, and dive slates where fish observations were recorded.
 - Information from this survey will be used to study the process of salmon recolonization and will help guide future fish monitoring efforts by the federal agencies and Lower Elwha Klallam Tribe.
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