

# Final 1998 Section 303(d) List - WRIA 46

<b>Water Name</b>	<input type="text" value="ENTIAT RIVER"/>		
<b>Parameter</b>	<input type="text" value="pH"/>	<b>Mediu</b>	<input type="text" value="Water"/>
<b>Place on 1998 List?</b>	<input type="checkbox" value="No"/>	<b>Listed in 1996</b>	<input type="checkbox" value="Yes"/> <b>Action Needed</b> <input type="checkbox" value="None"/>
<b>New Segment ID #</b>	<input type="text" value="AN35LK"/>	<b>Old Segment ID #</b>	<input type="text" value="WA-46-1010"/>
<b>Stream Route #</b>	<input type="text" value="0"/>	<b>Water Resource Inventory Area</b>	<input type="text" value="46"/>
<b>Township</b>	<input type="text" value="25N"/>	<b>Waterbody Grid #</b>	<input type="text"/>
<b>Range</b>	<input type="text" value="20E"/>	<b>Grid Latitude</b>	<input type="text"/>
<b>Section</b>	<input type="text" value="13"/>	<b>Grid Longitude</b>	<input type="text"/>
<b>Basis for Consideration of Listing</b>	<p>0 excursions beyond the criterion out of 12 samples (0%) at Ecology ambient monitoring station 46A070 between 9/91 and 9/96.</p> <p>Listed in 1996 based on 12 excursions beyond the criterion at Ecology ambient monitoringstation 46A070 between 1985 and 1991.</p>		
<b>Remarks</b>	<input type="text" value="The segment now meets water quality standards for pH."/>		

<b>Water Name</b>	ENTIAT RIVER		
<b>Parameter</b>	Instream Flow	<b>Mediu</b>	Habitat
<b>Place on 1998 List?</b>	<input type="checkbox"/> No	<b>Listed in 1996</b>	<input type="checkbox"/> No <b>Action Needed</b> <input type="checkbox"/> None
<b>New Segment ID #</b>	RX71CE	<b>Old Segment ID #</b>	WA-46-1020
<b>Stream Route #</b>	27.798	<b>Water Resource Inventory Area</b>	46
<b>Township</b>	27N	<b>Waterbody Grid #</b>	
<b>Range</b>	19E	<b>Grid Latitude</b>	
<b>Section</b>	26	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	<p>Much information on hydrology and water rights is in the 1995 Entiat River Watershed Assessment (Report 95-02). The 1995 Ecology report titled 'Entiat and Mad Rivers Fish Habitat Analysis Using the Instream Flow Incremental Methodology' (Report 95-166) has hydrographs for the Entiat River RM 18. The upper IFIM site represented the upper river from RM 10 to 27.7. Detailed graphs showed the fish habitat versus instream flow relationship for both sites for Chinook, steelhead and bull trout. The SASSI (1993) report lists the spring Chinook and summer steelhead stocks in the Entiat River as depressed. Summer Steelhead have been listed as endangered in August 1997 under the Endangered Species Act. Instream flow levels were proposed by Ecology on July 22, 1994 based on the IFIM study and a review of the information in the 1989 Entiat River Subbasin Plan and the 1980 Entiat Co-operative River Basin Study by the Soil Conservation Service. The Department of Fish and Wildlife agreed with the proposed Entiat River instream flow recommendations in a March 21, 1995 memo to Ecology. The upper IFIM site showed that instream flows are inadequate from August 1st to May 1st. However, there are no known of diversions upstream of the site and the low flows are natural rather than a human caused condition.</p>		
<b>Remarks</b>	<p>There are no known of diversions upstream of the IFIM site and the low flows are natural rather than a human-caused condition.</p>		

**Water Name**

**Parameter**  **Medium**

**Place on 1998 List?**  **Listed in 1996**  **Action Needed**

**New Segment ID #**  **Old Segment ID #**

**Stream Route #**  **Water Resource Inventory Area**

**Township**  **Waterbody Grid #**

**Range**  **Grid Latitude**

**Section**  **Grid Longitude**

**Basis for Consideration of Listing**

The lower segment of the river meets all the Water Quality Program Policy criteria for inadequate instream flow and have been added to the list. Much information on hydrology and water rights is in the 1995 Entiat River Watershed Assessment (Report 95-02). The 1995 Ecology report titled 'Entiat and Mad Rivers Fish Habitat Analysis Using the Instream Flow Incremental Methodology' (Report 95-166) has hydrographs for the Entiat River at RM 0.25. The lower IFIM site from that study represented the lower river from the mouth up to RM 10 at the town of Ardenvoir. Detailed graphs showed the fish habitat versus instream flow relationship for both sites for Chinook, steelhead and bull trout. The 1993 SASSI report lists the spring Chinook and summer steelhead stocks in the Entiat River as depressed. Summer Steelhead have been listed as endangered in August 1997 under the Endangered Species Act. Instream flow levels were proposed by Ecology on July 22, 1994 based on the IFIM study and a review of the information in the 1989 Entiat River Subbasin Plan and the 1980 Entiat Co-operative River Basin Study by the Soil Conservation Service. The Department of Fish and Wildlife agreed with the proposed Entiat River instream flow recommendations in a March 21, 1995 memo to Ecology. The lower IFIM site showed that instream flows were inadequate from September 1st to mid-April. The 1980 Co-operative Study showed a map detailing the areas irrigated from 15 diversions from the Entiat River and 6 from tributaries to the Entiat River. These diversions start just upstream of the town of Ardenvoir (RM 10.5) and continue down to the mouth.

**Remarks**

<b>Water Name</b>	ENTIAT RIVER		
<b>Parameter</b>	Temperature	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> No	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> <input type="checkbox"/> None
<b>New Segment ID #</b>	AN35LK	<b>Old Segment ID #</b>	WA-46-1010
<b>Stream Route #</b>	0	<b>Water Resource Inventory Area</b>	46
<b>Township</b>	25N	<b>Waterbody Grid #</b>	
<b>Range</b>	20E	<b>Grid Latitude</b>	
<b>Section</b>	13	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	1 excursion beyond the criterion out of 12 samples (8%) at Ecology ambient monitoring station 46A070 (RM 1.5) between 9/91 and 9/96.		
<b>Remarks</b>	A single excursion does not meet the Water Quality Program policy for listing.		