

ELWHA RIVER BASIN

12045500 ELWHA RIVER AT MCDONALD BRIDGE, NEAR PORT ANGELES, WA

LOCATION.--Lat 48°03'18", long 123°34'55", in NE $\frac{1}{4}$ NW $\frac{1}{4}$, sec.33, T.30 N., R.7 W., Clallam County, Hydrologic Unit 17110020, Olympic National Forest, on right bank near the site of the McDonald Bridge (removed), 0.7 mi upstream from Little River, 1.1 mi upstream of highway 101 Bridge, 4.9 mi below Glines Canyon Dam, 8 mi southwest of Port Angeles, and at mile 8.6.

DRAINAGE AREA.--269 mi.

PERIOD OF RECORD.--October 1897 to December 1901, October 1918 to current year. Published as "at McDonald" October 1897 to December 1901.

REVISED RECORDS.--WSP 1246: Drainage area. WSP 1286: 1898, 1899(M), 1900-1902, 1919, 1920-31(M), 1932, 1933(M). WSP 1566: 1957(M).

GAGE.--Water-stage recorder. Datum of gage is 200.00 ft above NGVD of 1929. Oct. 1, 1897, to Dec. 31, 1901, nonrecording gage at McDonald Bridge at different datum. Dec. 9, 1918, to May 1, 1936, water-stage recorder under McDonald Bridge at datum 7.4 ft higher.

REMARKS.--Records good, except for estimated daily discharges, which are fair. Water is diverted through Glines Canyon powerhouse and returned to river upstream from gage. Flow partly regulated by Lake Mills 4.9 mi upstream (station 12045000). Chemical analyses July 1959 to June 1960, July 1960 to September 1970 (partial-record station), October 1971 to September 1986. Water temperatures April 1976 to August 1977, October 1994 to April 1998. Suspended sediment discharge April 1994 to September 1995. Miscellaneous sediment measurements October 1995 to September 1997. Prior to 1962, published as Elwha River near Port Angeles. October 1971 to September 1974 published as Elwha River below Little River, near Port Angeles. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--91 years (water years 1898-1901, 1919-2005), 1,507 ft³/s, 76.08 in/yr, 1,091,800 acre-ft/yr, adjusted for storage since April 1927.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,600 ft³/s, Nov. 18, 1897, gage height, 14.5 ft, from graph based on gage readings, site and datum then in use, from rating curve extended above 3,300 ft³/s, on basis of two determinations of flow over dam at discharge 26,700 ft³/s and 30,100 ft³/s, referred to 1897 datum; minimum daily discharge, 10 ft³/s, Oct. 3, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,700 ft³/s, Dec. 10, gage height, 19.03 ft; minimum discharge, 203 ft³/s, Feb. 12, gage height, 9.71 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	453	1,170	1,060	951	1,420	843	1,950	1,600	1,550	708	476	352
2	438	4,800	986	898	1,420	700	1,620	1,740	1,370	647	464	353
3	429	1,820	928	840	1,300	737	1,490	1,700	1,280	653	427	310
4	440	1,330	976	821	1,470	650	1,340	1,670	1,210	624	404	295
5	414	1,120	942	800	1,380	643	1,210	1,680	1,150	660	451	304
6	572	1,100	881	789	1,250	643	1,240	1,590	1,090	885	459	282
7	455	1,240	855	e800	1,190	757	1,260	1,490	1,040	696	437	289
8	1,140	1,090	1,260	e770	1,090	748	1,230	1,410	1,020	805	427	289
9	1,310	940	1,240	e750	1,050	855	1,110	1,310	967	835	410	308
10	1,050	841	9,880	e720	1,020	767	1,040	1,640	960	700	438	259
11	754	787	7,300	e700	971	765	1,130	1,550	967	630	404	260
12	656	780	3,670	e700	966	744	1,020	1,450	960	724	399	269
13	640	727	3,040	e680	935	667	995	1,420	910	640	399	270
14	587	810	5,070	e650	889	656	912	1,450	938	610	399	256
15	578	1,030	3,690	e660	820	662	921	1,830	861	616	399	274
16	591	920	2,860	742	809	652	2,310	1,540	799	598	399	273
17	649	842	2,460	4,620	827	661	1,860	1,330	1,030	587	407	257
18	726	1,140	2,510	7,190	771	622	1,480	1,590	905	584	420	257
19	754	987	2,350	5,090	777	599	1,400	2,760	816	588	368	237
20	749	848	1,960	4,000	756	1,620	1,240	2,540	812	536	377	269
21	650	816	1,740	3,050	717	1,230	1,330	2,080	884	519	382	288
22	651	838	1,590	4,690	680	977	1,560	2,230	881	555	328	285
23	622	811	1,450	4,520	706	857	1,760	2,120	799	523	334	258
24	607	3,180	1,400	3,180	667	812	1,890	1,860	769	523	371	283
25	585	4,290	1,370	2,630	684	759	1,960	1,740	749	485	356	260
26	629	2,080	1,360	2,340	621	1,730	2,100	1,720	750	502	354	273
27	584	1,620	1,210	2,200	673	1,770	2,220	1,830	737	478	352	268
28	583	1,360	1,110	1,900	632	1,430	2,070	1,900	707	498	354	267
29	552	1,230	1,110	1,720	---	1,350	1,790	1,920	726	492	355	781
30	886	1,150	1,050	1,620	---	1,230	1,680	1,780	759	485	354	1,040
31	732	---	997	1,610	---	1,170	---	1,680	---	476	352	---
TOTAL	20,466	41,697	68,305	62,631	26,491	28,306	45,118	54,150	28,396	18,862	12,256	9,666
MEAN	660	1,390	2,203	2,020	946	913	1,504	1,747	947	608	395	322
MAX	1,310	4,800	9,880	7,190	1,470	1,770	2,310	2,760	1,550	885	476	1,040
MIN	414	727	855	650	621	599	912	1,310	707	476	328	237
AC-FT	40,590	82,710	135,500	124,200	52,540	56,140	89,490	107,400	56,320	37,410	24,310	19,170

CAL YR 2004 TOTAL 467,744 MEAN 1,278 MAX 9,880 MIN 414 AC-FT 927,800
WTR YR 2005 TOTAL 416,344 MEAN 1,141 MAX 9,880 MIN 237 AC-FT 825,800

† Adjusted for change in contents in Lake Mills.

e Estimated

12045500 ELWHA RIVER AT MCDONALD BRIDGE, NEAR PORT ANGELES, WA

WATER-QUALITY RECORDS

PERIOD OF RECORD--

WATER TEMPERATURE: October 1994 to April 1998, April 2004 to current year.

TURBIDITY: August 2003 to current year.

SUSPENDED SEDIMENT DISCHARGE: April 1994 to September 1995. Miscellaneous sediment measurements October 1995 to September 1997.

INSTRUMENTATION--Water-quality monitor since October 1994 to April 1998, July 2003. Temperature and turbidity sensors interfaced to an electronic data logger, with 15-minute logging interval.

REMARKS.--

WATER TEMPERATURE: Records good.

TURBIDITY: Records good except Dec. 23-27 and Jan. 26, 27, which are fair.

EXTREMES FOR PERIOD OF RECORD--

WATER TEMPERATURE: Maximum 19.7°C, Aug. 24, 2005; minimum, 2.2°C, Jan. 11, 15, 2005.

TURBIDITY: Maximum, 1,030 FNU, Nov. 19, 2003; minimum, 0.0 FNU, Jul. 27, 31, Aug. 1, 16-29, 31, and Sept. 22-29, 2005.

SUSPENDED SEDIMENT CONCENTRATION (April 1994 to September 1995): Maximum daily, 233 mg/L, Dec. 20 1994; minimum 1 mg/L, Oct. 3, 14, June 30, 1995.

SUSPENDED SEDIMENT DISCHARGE (April 1994 to September 1995): Maximum daily, 7,960 tons, Dec. 20, 1994; minimum daily, 0.76 tons, Sept. 28-30, Oct. 3, 14, June 30, 1995.

EXTREMES FOR CURRENT YEAR--

WATER TEMPERATURE: Maximum, 19.7°C, Aug. 24; minimum, 2.2°C, Jan. 11 and 15.

TURBIDITY: Maximum, 840 FNU, Dec. 11; minimum, 0.0 FNU, July 27, 31, Aug. 1, 16-29, 31, and Sept. 22-29.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	13.2	10.8	11.6	9.3	8.4	8.8	5.8	5.1	5.4	5.0	4.7	4.8
2	13.3	10.9	11.7	9.0	7.9	8.3	5.9	5.3	5.5	4.9	4.3	4.6
3	13.2	10.8	11.6	8.1	7.5	7.8	5.7	5.2	5.5	4.7	4.1	4.4
4	13.2	10.7	11.5	7.8	7.0	7.4	5.6	5.2	5.5	4.5	3.9	4.1
5	12.0	10.7	11.3	7.8	6.9	7.2	5.4	4.9	5.1	4.3	3.8	3.9
6	12.8	11.3	11.7	7.3	6.9	7.1	5.4	4.8	5.1	4.3	3.7	4.0
7	12.2	10.7	11.4	7.5	6.9	7.2	5.3	5.0	5.1	3.9	2.9	3.3
8	11.8	11.0	11.4	7.7	7.1	7.3	5.3	5.1	5.2	3.8	3.0	3.5
9	12.2	11.2	11.4	7.4	7.2	7.3	5.3	4.9	5.1	3.6	3.0	3.3
10	11.8	10.9	11.2	7.9	7.0	7.3	5.3	5.2	5.2	3.4	2.8	3.1
11	11.9	10.8	11.1	7.8	6.8	7.1	5.4	5.1	5.3	3.0	2.2	2.7
12	12.2	10.7	11.2	7.3	6.8	7.0	5.1	4.8	5.0	3.5	2.8	3.1
13	12.3	10.7	11.1	7.6	6.7	7.1	5.3	4.8	5.1	3.2	2.5	2.8
14	12.4	10.6	11.1	7.9	7.0	7.4	5.5	5.3	5.4	3.1	2.6	2.8
15	11.8	10.8	11.1	7.7	7.0	7.5	5.6	5.2	5.5	2.6	2.2	2.5
16	11.7	10.8	11.1	7.4	6.8	7.1	5.7	5.4	5.5	3.2	2.5	2.9
17	11.0	10.6	10.8	7.3	6.5	6.8	5.8	5.6	5.7	3.5	2.8	3.1
18	11.3	10.3	10.7	7.1	6.6	6.9	6.0	5.7	5.9	4.1	3.5	3.8
19	11.2	10.3	10.6	7.0	6.2	6.5	6.2	5.8	6.0	4.8	4.1	4.5
20	11.2	10.3	10.6	6.9	6.1	6.4	6.0	5.6	5.8	5.5	4.8	5.2
21	11.2	9.9	10.3	6.8	6.1	6.4	6.1	5.6	5.8	5.6	5.3	5.5
22	11.1	9.9	10.5	7.1	6.3	6.6	5.9	5.5	5.7	5.9	5.5	5.7
23	10.8	9.6	10	6.8	6.2	6.5	5.6	5.2	5.4	6.1	5.6	5.9
24	10.4	9.4	9.7	7.1	6.5	6.8	5.6	5.3	5.5	6.5	6.0	6.2
25	10.3	9.4	9.8	6.6	6.3	6.5	5.5	5.3	5.4	6.4	6.1	6.2
26	10.2	9.0	9.6	6.5	6.1	6.3	5.4	5.1	5.2	6.5	6.2	6.3
27	10.2	8.8	9.2	6.4	5.8	6.1	5.4	4.9	5.2	6.5	6.2	6.3
28	9.5	8.7	9.1	6.1	5.6	5.8	5.2	4.8	5.0	6.3	6.0	6.2
29	9.7	8.7	9.1	5.9	5.4	5.6	5.3	5.0	5.1	6.5	6.1	6.2
30	9.7	8.6	9.1	5.6	5.2	5.5	5.2	5.0	5.1	6.4	6.1	6.2
31	9.4	8.4	8.7	---	---	---	5.1	4.6	4.9	6.7	6.0	6.2
MONTH	13.3	8.4	10.6	9.3	5.2	6.9	6.2	4.6	5.4	6.7	2.2	4.5

ELWHA RIVER BASIN

12045500 ELWHA RIVER AT MCDONALD BRIDGE, NEAR PORT ANGELES, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY				MARCH				APRIL			
1	6.4	5.8	6.0	5.4	4.2	4.6	6.9	6.0	6.3	9.6	7.8	8.5
2	6.5	5.9	6.1	5.7	4.2	4.7	6.7	5.9	6.3	8.7	8.0	8.4
3	6.4	5.9	6.1	6.1	4.3	4.8	6.5	5.8	6.1	9.7	8.0	8.6
4	6.2	5.9	6.0	5.7	4.5	5.0	7.3	5.6	6.2	9.0	8.1	8.6
5	6.2	5.6	5.9	6.0	4.6	5.1	6.6	5.9	6.2	---	8.3	---
6	6.0	5.6	5.7	8.6	4.7	5.3	7.2	6.0	6.4	10.2	8.3	9.0
7	6.1	5.2	5.5	6.7	5.0	5.4	7.0	6.0	6.4	9.8	8.4	9.0
8	5.8	5.0	5.3	6.6	---	---	7.6	6.0	6.5	9.6	8.5	8.9
9	5.9	5.0	5.2	---	---	---	7.6	5.8	6.4	---	---	---
10	5.8	4.9	5.2	---	---	---	7.3	5.9	6.4	---	---	---
11	5.7	4.7	5.0	7.1	5.1	6.0	7.5	6.1	6.6	---	---	---
12	5.4	4.8	5.0	7.8	5.1	6.0	7.4	5.8	6.3	---	---	---
13	5.4	4.7	5.0	8.1	5.2	6.2	7.2	5.7	6.2	---	---	---
14	5.6	4.4	4.8	8.0	5.5	6.3	7.3	5.5	6.2	---	---	---
15	5.4	4.2	4.6	7.6	5.4	6.2	7.0	5.8	6.3	---	---	---
16	5.3	4.1	4.4	7.0	5.7	6.4	7.0	6.2	6.5	---	---	---
17	5.3	4.0	4.3	7.9	5.9	6.6	6.9	6.0	6.3	10.1	---	---
18	5.3	3.9	4.3	7.9	5.5	6.3	7.8	5.9	6.5	10.3	9.1	9.5
19	5.1	3.8	4.2	6.9	5.5	6.1	8.0	5.9	6.6	9.7	9.1	9.4
20	5.0	3.6	4.0	6.4	6.0	6.2	8.5	6.1	6.9	9.4	8.7	9.0
21	5.0	3.5	4.0	6.7	5.7	6.1	8.3	6.3	7.0	9.0	8.5	8.7
22	5.1	3.4	4.0	7.2	5.6	6.1	8.6	6.4	7.4	8.9	8.3	8.6
23	5.2	3.5	4.0	7.7	5.6	6.3	8.4	7.0	7.6	8.9	7.8	8.2
24	5.3	3.5	4.1	7.4	5.8	6.3	8.6	7.1	7.7	9.3	7.8	8.4
25	5.3	3.7	4.2	7.6	5.5	6.2	8.6	7.4	7.9	9.9	7.8	8.7
26	5.5	3.6	4.1	6.3	6.0	6.1	9.3	7.4	---	10.2	8.2	9.0
27	5.2	3.7	4.2	6.8	6.0	6.2	9.3	7.8	8.4	10.6	8.7	9.4
28	5.4	3.9	4.4	7.0	6.0	6.3	9.2	7.9	8.4	10.7	9.2	9.8
29	---	---	---	6.8	6.1	6.3	8.6	7.9	8.2	10.9	9.6	10
30	---	---	---	7.8	6.0	6.5	8.5	7.8	8.2	11.2	9.7	10.2
31	---	---	---	7.0	6.2	6.5	---	---	---	10.6	9.9	10.2
MONTH	6.5	3.4	4.8	---	---	---	9.3	5.5	6.8	---	---	---
	JUNE				JULY				AUGUST			
1	10.9	9.9	10.3	13.9	11.2	12.3	17.2	14.1	15.2	18.8	15.4	16.6
2	11.1	9.8	10.3	13.4	11.7	12.4	17.4	13.6	15.0	18.5	15.3	16.5
3	11.5	9.6	10.4	14.7	11.6	12.8	18.0	13.5	15.2	16.8	14.6	15.5
4	10.9	9.8	10.2	15.0	11.8	12.9	18.3	13.8	15.5	16.5	14.8	15.3
5	11.2	9.9	10.3	13.4	11.9	12.6	18.4	14.2	15.7	17.6	14.1	15.4
6	11.2	9.8	10.2	13.6	12.2	12.9	18.2	14.4	15.7	17.7	14.0	15.3
7	11.2	9.9	10.3	14.2	12.1	13.0	18.1	14.2	15.7	17.7	14.0	15.3
8	10.3	9.9	10.1	13.3	12.3	12.7	18.3	14.2	15.8	17.7	14.2	15.4
9	10.9	9.9	10.3	14.7	12.3	13.2	18.4	14.3	15.8	16.9	14.3	15.2
10	11.3	9.9	10.3	13.6	12.2	12.9	17.4	14.6	15.6	16.6	14.2	15.1
11	11.0	9.8	10.3	14.1	12.4	13.1	17.8	14.9	15.7	17.3	14.3	15.2
12	12.0	9.7	10.5	14.5	12.4	13.3	18.6	14.5	16.0	17.3	14.0	15.1
13	11.3	9.8	10.4	15.9	12.6	13.7	18.8	14.6	16.2	17.1	13.8	15.0
14	11.2	10.0	10.5	15.9	12.3	13.7	19.0	14.9	16.4	17.0	13.7	15.0
15	12.4	9.7	10.7	13.7	12.5	13.0	18.9	15.0	16.4	15.9	13.7	14.6
16	11.7	10.0	10.6	16.4	12.6	13.8	18.3	14.9	16.1	15.9	14.0	14.7
17	12.1	10.2	10.8	16.1	12.5	13.9	18.5	15.3	16.3	15.9	13.5	14.5
18	11.4	10.2	10.8	16.6	12.7	14.1	18.8	15.0	16.4	16.2	13.6	14.6
19	13.1	10.2	11.2	16.2	12.4	13.8	18.9	14.8	16.3	15.6	13.9	14.5
20	13.2	10.2	11.4	16.5	12.5	13.9	18.7	14.9	16.3	16.2	13.1	14.2
21	12.4	10.4	11.2	16.7	12.6	14.1	18.9	15.0	16.4	15.4	12.9	13.8
22	12.1	10.6	11.1	16.4	13.2	14.8	18.8	15.2	16.6	15.6	12.7	13.7
23	13.4	10.2	11.5	16.6	12.7	14.1	19.5	15.6	17.0	15.7	12.3	13.5
24	13.4	10.6	11.6	16.7	12.7	14.3	19.7	15.9	17.2	15.6	12.2	13.4
25	14.1	10.8	11.9	17.1	13.0	14.5	19.3	15.6	17.0	15.6	12.5	13.5
26	11.8	10.8	11.3	17.2	13.1	14.6	19.6	15.9	17.2	15.7	12.4	13.6
27	12.3	11.1	11.6	17.5	13.3	14.9	19.6	15.9	17.2	15.4	12.5	13.6
28	14.2	11.3	12.3	17.6	13.5	14.9	17.6	16.0	16.8	14.3	12.3	13.1
29	14.6	11.4	12.5	17.3	13.4	14.8	17.6	15.6	16.4	14.1	13.1	13.5
30	13.8	11.5	12.2	17.7	13.5	15.1	16.6	15.6	16.1	13.6	12.7	13.2
31	---	---	---	17.8	13.8	15.2	18.8	15.6	16.6	---	---	---
MONTH	14.6	9.6	10.9	17.8	11.2	13.7	19.7	13.5	16.2	18.8	12.2	14.6

ELWHA RIVER BASIN

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12045500 ELWHA RIVER AT MCDONALD BRIDGE, NEAR PORT ANGELES, WA—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	1.9	0.8	1.3	45	0.9	1.4	87	58	73	72	31	45
2	1.9	0.7	1.2	180	39	130	85	56	71	70	27	40
3	1.6	0.4	1.0	180	89	130	74	47	63	68	27	41
4	1.6	0.5	0.8	130	70	93	70	43	55	63	27	38
5	1.3	0.5	0.9	120	66	83	54	34	44	60	24	34
6	2.2	0.7	1.4	99	52	69	44	28	38	49	20	30
7	2.7	0.6	1.3	89	48	70	43	26	36	67	16	26
8	28	0.3	2.4	76	43	56	52	27	35	44	13	23
9	17	1.7	3.5	62	39	47	44	23	30	34	14	19
10	14	5.2	8.8	52	34	43	690	44	200	37	10	15
11	18	3.6	6.5	49	32	39	840	660	740	20	9.0	12
12	6.9	2.9	5.2	40	24	33	750	440	600	24	9.3	12
13	5.9	2.7	4.6	38	22	27	560	390	470	27	10	18
14	5.3	2.6	3.9	33	21	25	500	380	430	30	12	19
15	4.4	2.4	3.2	40	18	25	460	310	390	26	10	14
16	3.6	1.6	2.7	32	16	20	370	240	300	29	11	14
17	3.5	1.8	2.4	29	15	19	310	210	260	190	9.7	56
18	3.5	1.5	2.3	28	16	20	260	170	210	390	180	270
19	3.9	1.5	2.1	22	13	18	210	140	180	500	330	410
20	2.5	1.3	1.9	19	11	15	190	110	160	500	310	380
21	21	1.3	1.8	16	11	13	180	110	140	350	240	300
22	2.1	1.1	1.6	15	11	13	160	99	140	340	220	280
23	2.0	0.8	1.3	14	9.5	12	150	88	120	370	250	310
24	1.7	0.9	1.3	100	10	25	150	77	100	320	220	260
25	1.7	0.5	1.1	160	54	120	120	64	86	260	160	210
26	1.6	0.6	1.1	160	93	120	99	44	64	240	140	170
27	1.4	0.6	1.0	160	97	130	73	42	56	190	120	150
28	1.6	0.6	1.0	140	93	120	81	41	51	150	100	130
29	1.5	0.4	0.9	120	60	98	73	42	55	150	89	120
30	14	0.6	1.4	100	60	80	81	38	48	130	77	100
31	2.1	0.9	1.2	---	---	---	75	33	46	120	55	86
MAX	28	5.2	8.8	180	97	130	840	660	740	500	330	410
MIN	1.3	0.3	0.8	14	0.9	1.4	43	23	30	20	9.0	12
	FEBRUARY			MARCH			APRIL			MAY		
1	82	46	64	14	6.4	9.0	12	5.4	8.7	11	6.5	8.6
2	87	46	69	11	6.0	7.7	8.7	5.5	7.3	10	6.5	8.1
3	88	47	58	9.9	5.4	6.9	9.3	6.0	7.5	9.4	5.7	7.3
4	83	40	57	8.4	4.6	5.8	9.2	5.2	7.1	7.9	5.3	6.8
5	60	32	41	8.3	4.6	5.8	9.0	5.0	6.5	8.2	5.4	6.3
6	63	28	42	7.5	4.2	5.4	7.9	5.6	6.5	7.1	4.8	5.8
7	82	29	42	9.5	4.3	5.9	7.9	5.4	6.5	15	4.5	5.5
8	61	27	37	---	---	---	7.8	5.5	6.6	6.2	3.6	5.0
9	60	29	38	---	---	---	8.1	5.9	6.9	5.8	3.6	4.5
10	54	27	37	---	---	---	8.1	5.4	6.7	5.9	3.5	4.6
11	51	23	30	6.6	2.9	4.3	8.1	5.5	6.7	4.9	2.9	4.0
12	83	19	27	6.1	2.8	4.1	7.9	5.0	6.7	4.9	3.3	3.8
13	44	20	30	6.0	2.6	3.8	7.3	5.6	6.3	4.9	2.9	3.5
14	44	18	26	40	2.5	3.8	8.0	6.0	6.8	150	2.9	3.5
15	41	17	24	4.7	2.1	3.1	9.4	6.3	8.0	5.3	3.0	3.6
16	29	16	21	4.3	1.8	2.6	18	8.7	11	4.0	2.4	3.2
17	30	16	20	3.8	1.7	2.4	23	9.8	14	4.3	2.5	3.4
18	28	14	19	3.6	1.6	2.5	25	9.4	20	6.2	2.3	3.8
19	27	14	18	3.3	1.4	2.3	11	6.8	8.5	12	4.0	5.9
20	24	12	17	18	2.2	3.9	11	5.8	7.9	18	9.5	14
21	23	11	15	5.2	2.2	3.0	10	6.1	7.4	22	12	15
22	21	10	14	7.7	3.6	5.3	10	6.1	7.3	20	13	16
23	20	9.9	13	7.0	3.3	5.1	8.4	6.1	7.1	21	14	17
24	18	9.3	12	6.6	3.2	4.8	9.3	6.2	7.0	20	14	17
25	17	7.7	11	6.4	3.3	4.5	8.7	6.4	7.0	19	12	16
26	15	6.7	9.5	16	3.5	6.4	10	6.9	7.9	16	11	14
27	14	6.9	9.5	9.3	4.5	6.2	10	7.6	8.7	18	11	13
28	13	6.4	8.4	11	4.0	7.0	13	8.1	9.9	14	10	12
29	---	---	---	8.6	6.0	7.3	12	8.6	10	13	10	12
30	---	---	---	9.6	5.7	7.6	12	7.8	10	14	10	12
31	---	---	---	10	5.3	6.9	---	---	---	13	8.8	11
MAX	88	47	69	---	---	---	25	9.8	20	150	14	17
MIN	13	6.4	8.4	---	---	---	7.3	5.0	6.3	4.0	2.3	3.2

ELWHA RIVER BASIN

12045500 ELWHA RIVER AT MCDONALD BRIDGE, NEAR PORT ANGELES, WA—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU—
CONTINUED

DAY	MAX	MIN	MEDIAN									
1	11	7.2	9.4	1.7	0.7	1.3	0.7	0.0	0.4	0.6	0.2	0.4
2	11	6.7	8.2	1.8	0.6	1.3	1.2	0.1	0.5	1.0	0.2	0.5
3	19	6.1	7.1	1.8	0.9	1.3	1.2	0.6	0.9	0.9	0.2	0.5
4	8.4	5.3	6.4	1.8	0.6	1.3	1.3	0.6	0.9	1.0	0.3	0.6
5	6.8	4.7	5.8	1.7	0.8	1.3	1.3	0.6	0.9	1.9	0.5	0.7
6	6.2	3.9	5.1	6.5	0.9	1.5	1.3	0.6	0.9	1.2	0.5	0.7
7	6.1	3.7	4.7	1.8	0.9	1.3	1.5	0.6	0.9	1.1	0.6	0.8
8	6.2	3.1	4.2	3.2	0.8	1.5	1.3	0.8	1.0	1.1	0.7	0.9
9	5.0	3.1	3.7	2.2	0.9	1.5	1.4	0.7	1.0	1.3	0.8	0.9
10	4.3	2.8	3.5	2.3	1.1	1.7	1.4	0.8	1.1	1.4	0.8	1.0
11	4.1	2.3	3.1	2.6	0.9	1.6	1.5	0.8	1.0	2.0	0.8	1.0
12	4.1	2.1	2.8	2.3	1.1	1.7	1.4	0.8	1.0	1.1	0.6	0.8
13	3.6	1.8	2.5	2.3	0.9	1.5	2.0	0.7	1.0	1.1	0.7	0.8
14	3.4	1.8	2.3	2.2	0.9	1.4	1.7	0.7	1.0	1.5	0.7	0.8
15	4.1	1.6	2.0	2.0	0.8	1.3	1.5	0.8	1.0	1.0	0.6	0.8
16	2.3	1.4	1.8	1.9	0.8	1.3	1.4	0.0	0.9	1.3	0.7	0.9
17	24	1.4	2.1	2.5	0.9	1.3	0.9	0.0	0.4	1.4	0.8	0.9
18	2.1	1.2	1.6	1.7	0.9	1.2	1.5	0.0	0.4	1.2	0.5	0.9
19	1.9	1.2	1.6	1.7	0.8	1.2	0.6	0.0	0.3	1.3	0.8	0.9
20	1.9	1.0	1.5	1.7	0.8	1.2	0.8	0.0	0.4	1.4	0.8	0.9
21	2.0	1.0	1.4	1.6	0.8	1.1	0.6	0.0	0.3	1.4	0.7	0.9
22	1.7	1.0	1.4	4.4	0.9	1.3	1.1	0.0	0.3	1.2	0.0	0.9
23	1.8	0.9	1.3	1.6	0.7	1.1	0.8	0.0	0.4	0.6	0.0	0.2
24	1.7	0.9	1.2	1.6	0.8	1.0	0.5	0.0	0.3	0.6	0.0	0.3
25	2.2	0.8	1.2	1.6	0.7	1.0	0.6	0.0	0.3	0.5	0.0	0.2
26	1.5	0.7	1.1	13	0.7	1.1	1.1	0.0	0.3	0.7	0.0	0.3
27	1.5	0.6	1.2	1.4	0.0	0.9	0.6	0.0	0.3	0.7	0.0	0.4
28	1.5	0.7	1.2	5.0	0.3	0.6	0.6	0.0	0.3	0.7	0.0	0.2
29	1.5	0.8	1.0	9.2	0.3	0.5	0.7	0.0	0.3	9.0	0.0	0.9
30	3.2	0.7	1.2	0.8	0.1	0.5	0.6	0.1	0.3	92	3.5	64
31	---	---	---	0.8	0.0	0.4	1.2	0.0	0.4	---	---	---
MAX	24	7.2	9.4	13	1.1	1.7	2.0	0.8	1.1	92	3.5	64
MIN	1.5	0.6	1.0	0.8	0.0	0.4	0.5	0.0	0.3	0.5	0.0	0.2