14240525 NORTH FORK TOUTLE RIVER BELOW SEDIMENT RETENTION STRUCTURE NEAR KID VALLEY, WA

Lower Columbia Basin
Lower Cowlitz Subbasin

LOCATION.--Lat 46°22′19″, long 122°34′40″ referenced to North American Datum of 1927, Cowlitz County, WA, Hydrologic Unit 17080005, 1.3 mi downstream from Sediment Retention Structure, on left bank, 0.7 mi upstream from the mouth of the Green River, 1.8 mieast of Kid Valley, and at mile 12.0.

DRAINAGE AREA.--175 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1989 to September 1998, October 2000 to September 2002, October 2006 to current year.

REVISED RECORDS.--WDR-US-2007: 2001-02 (Average Annual Runoff).

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). To convert to NAVD of 1988, add 3.12 feet (USGS Level 1 GNSS survey as per USGS T&M 11-D1).

REMARKS.--Records fair, except for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--18 years (water years 1990-98, 2001-2002, 2007-2013), 787 ft^3/s, 61.10 in/yr, 570,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,100 ft^3/s, Feb. 8, 1996, gage height, 62.13 ft; minimum discharge, 25 ft^3/s, Oct. 5, 2012, during spillway construction at the Sediment Retention Structure.

EXTREMES OUTSIDE PERIOD OF RECORD.--An outstanding flood occurred on May 18, 1980, from a mudflow caused by the eruption of Mount St. Helens.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 19	1830	*5,710	*58.79
Dec 20	0915	3,000	57.18

Minimum discharge, 25 ft^3/s, Oct. 5, gage height, 53.73 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 14240525, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/14240525.2013.pdf

14240525 NORTH FORK TOUTLE RIVER BELOW SEDIMENT RETENTION STRUCTURE NEAR KID VALLEY, WA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	185	1,410	1,830	773	1,840	1,040	824	861	1,160	572	336	270
2	180	1,040	1,810	741	1,390	1,050	832	794	1,070	556	336	265
3	171	947	1,680	705	1,160	1,060	812	770	996	534	331	312
4	170	845	2,060	707	999	893	862	787	942	518	322	268
5	e110	793	2,200	697	953	789	1,410	839	e910	504	317	290
6	150	723	1,860	698	940	797	1,800	890	e880	490	312	913
7	188	731	2,030	1,070	931	768	2,020	945	845	480	306	442
8	187	686	1,770	1,160	771	652	1,810	964	807	470	304	348
9	187	616	1,490	1,520	700	590	1,470	953	776	457	305	316
10	e184	554	1,380	1,280	642	563	1,460	953	746	447	309	298
11	182	552	1,310	1,090	599	551	1,420	952	723	439	301	288
12	251	823	1,260	956	617	585	1,300	971	717	427	296	280
13	308	634	1,060	864	663	621	1,340	1,010	742	417	291	277
14	308	580	1,010	809	644	676	1,190	953	698	408	288	271
15	555	532	939	765	625	757	1,090	853	664	403	293	277
16	750	497	1,090	734	655	896	966	805	643	401	288	290
17	415	590	2,130	706	676	915	871	810	635	397	282	282
18	328	799	1,490	695	620	798	821	762	622	393	277	270
19	513	3,640	1,390	677	585	740	1,360	772	612	387	275	261
20	567	3,120	2,540	676	547	1,420	1,560	729	635	383	271	259
21	494	2,370	1,830	686	552	1,310	1,390	861	665	379	269	261
22	404	1,810	1,590	681	729	1,090	1,230	1,130	626	376	268	301
23	419	1,890	1,500	705	734	926	1,090	1,280	623	371	267	385
24	378	2,130	1,340	720	610	807	989	1,130	779	364	269	337
25	335	1,680	1,330	818	678	741	926	998	679	357	268	329
26	301	1,360	1,220	788	589	698	906	929	673	350	268	298
27	371	1,120	1,140	788	546	665	911	1,060	645	345	280	301
28	840	977	1,020	1,020	797	657	918	1,090	613	344	275	e984
29	1,620	954	949	1,630	---	644	1,090	1,390	595	341	309	e1,810
30	1,390	1,050	879	2,180	---	668	969	1,430	579	335	302	e1,880
31	1,620	---	824	2,470	---	748	---	1,300	---	334	277	---
Total	14,061	35,453	45,951	29,809	21,792	25,115	35,637	29,971	22,300	12,979	9,092	13,363
Mean	454	1,182	1,482	962	778	810	1,188	967	743	419	293	445
Max	1,620	3,640	2,540	2,470	1,840	1,420	2,020	1,430	1,160	572	336	1,880
Min	110	497	824	676	546	551	812	729	579	334	267	259
Ac-ft	27,890	70,320	91,140	59,130	43,220	49,820	70,690	59,450	44,230	25,740	18,030	26,510
Cfsm	2.59	6.75	8.47	5.49	4.45	4.63	6.79	5.52	4.25	2.39	1.68	2.55
In.	2.99	7.54	9.77	6.34	4.63	5.34	7.58	6.37	4.74	2.76	1.93	2.84

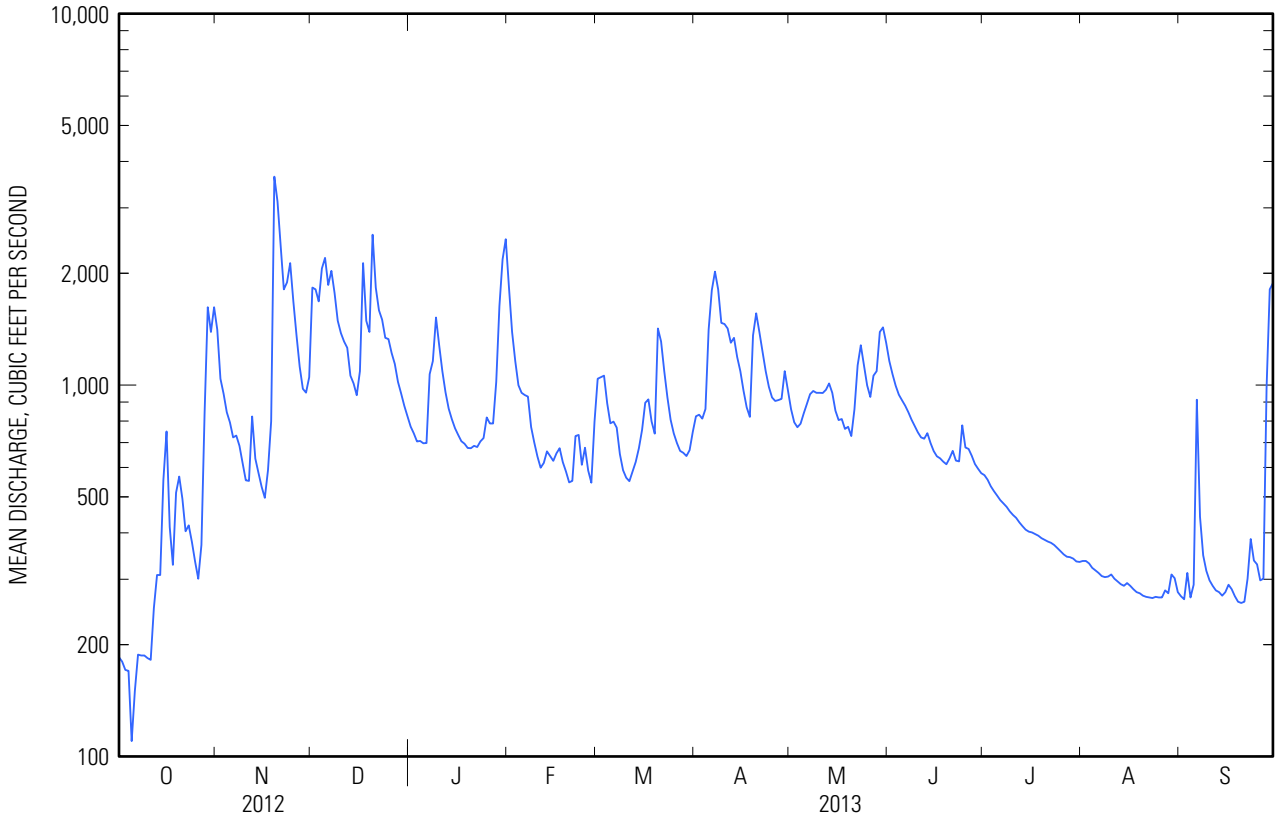
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	403	920	1,125	1,166	1,056	1,045	1,055	928	728	453	311	273
Max	929	1,735	1,810	1,654	2,323	1,767	1,476	1,301	1,169	817	534	445
(WY)	(1998)	(2007)	(1996)	(2009)	(1996)	(1997)	(2012)	(2012)	(2010)	(2011)	(2011)	(2013)
Min	206	211	497	448	402	539	658	515	278	225	182	173
(WY)	(1994)	(1994)	(2001)	(2001)	(1993)	(1992)	(1992)	(1992)	(1992)	(1992)	(1990)	(1990)

14240525 NORTH FORK TOUTLE RIVER BELOW SEDIMENT RETENTION STRUCTURE NEAR KID VALLEY, WA—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1990 - 2013	
Annual total	385,899		295,523			
Annual mean	1,054		810		787	
Highest annual mean					1,074	1996
Lowest annual mean					465	2001
Highest daily mean	3,640	Feb 22	3,640	Nov 19	11,000	Feb 8, 1996
Lowest daily mean	110	Oct 5	110	Oct 5	110	Oct 5, 2012
Annual seven-day minimum	165	Sep 30	165	Oct 1	156	Aug 12, 1990
Annual runoff (ac-ft)	765,400		586,200		570,100	
Annual runoff (cfsm)	6.02		4.63		4.50	
Annual runoff (inches)	82.03		62.82		61.10	
10 percent exceeds	1,770		1,460		1,420	
50 percent exceeds	1,050		723		674	
90 percent exceeds	335		282		247	



14240525 NORTH FORK TOUTLE RIVER BELOW SEDIMENT RETENTION STRUCTURE NEAR KID VALLEY, WA—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May to September 1990, May to September 1991.
WATER TEMPERATURE: May to September 1990, May to September 1991, May 2001 to September 2002.
SUSPENDED SEDIMENT: February 2001 to September 2002, October 2006 to current year.
TURBIDITY: May 2010 to current year.

INSTRUMENTATION.--Automatic pumping sampler. D-74 suspended sediment sampler located near the bank operated cableway. Turbidity sensor (FTS DTS-12), with a 15-minute logging interval, since May 2010. Any use of trade, product, or firm names in this publication is for descriptive purposes only and does not imply endorsement by the U.S. Government.

REMARKS.--Turbidity records are good. Variation in ">" values shown on daily values table are due to different maximum thresholds for individual sensors, and varying corrections.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 999 microsiemens, Sept. 26, 1991; minimum recorded, 322 microsiemens, May 26, 1991.
WATER TEMPERATURE: Maximum recorded (more than 20 percent missing record), 29.7°C, July 22, 2002; minimum recorded, 1.0°C, Jan. 29, 2002.
SEDIMENT CONCENTRATION: Maximum daily, 79,800 mg/L, Nov. 7, 2006; minimum daily, 31 mg/L, Aug. 30, 2010.
SEDIMENT DISCHARGE: Maximum daily, 1,510,000 tons, Nov. 7, 2006; minimum daily, 27 tons, Sept. 13, 2010.
TURBIDITY: Maximum recorded, >2,800 FNU, Sep. 30, 2013; minimum recorded, 6.6 FNU, Oct. 11, 2013.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATION: Maximum daily, 10,300 mg/L, Sept. 29; minimum daily, 72 mg/L, Aug. 13.
SEDIMENT DISCHARGE: Maximum daily, 58,400 tons, Nov. 19; minimum daily, 34 tons (estimated), Oct. 5.
TURBIDITY: Maximum recorded, >2,800 FNU, Sep. 30; minimum recorded 6.6 FNU, Oct. 11.

14240525 NORTH FORK TOUTLE RIVER BELOW SEDIMENT RETENTION STRUCTURE NEAR KID VALLEY, WA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

[e, estimated]

Day	Mean discharge (ft^3/s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concentration (mg/L)	Sediment discharge (tons/day)
		October			**November**			**December**	
1	185	e145	e72	1,410	1,320	5,110	1,830	2,610	13,400
2	180	e135	e65	1,040	604	1,710	1,810	e2,040	e10,000
3	171	e133	e61	947	428	1,090	1,680	e1,280	e5,830
4	170	e217	e102	845	337	772	2,060	e1,600	e8,990
5	e110	152	e34	793	277	592	2,200	1,400	8,410
6	150	267	95	723	236	462	1,860	1,880	9,450
7	188	e188	e95	731	210	415	2,030	1,910	10,400
8	187	169	85	686	185	343	1,770	1,610	7,720
9	187	145	73	616	181	300	1,490	1,480	5,940
10	e184	126	e63	554	193	289	1,380	1,410	5,270
11	182	114	56	552	193	289	1,310	1,280	4,540
12	251	e224	e166	823	282	637	1,260	1,240	4,240
13	308	e167	e142	634	154	264	1,060	1,070	3,070
14	308	e97	e83	580	158	247	1,010	956	2,620
15	555	e822	e1,270	532	147	211	939	895	2,270
16	750	1,120	2,450	497	134	180	1,090	991	3,000
17	415	304	352	590	171	294	2,130	e1,620	e9,470
18	328	171	152	799	215	461	1,490	1,140	4,580
19	513	237	338	3,640	4,870	58,400	1,390	1,010	3,770
20	567	233	356	3,120	4,130	36,700	2,540	1,570	10,900
21	494	145	196	2,370	1,960	12,600	1,830	1,340	6,640
22	404	98	107	1,810	1,300	6,430	1,590	1,000	4,320
23	419	99	111	1,890	1,390	7,690	1,500	814	3,310
24	378	98	100	2,130	1,780	10,700	1,340	657	2,390
25	335	81	73	1,680	1,040	4,720	1,330	626	2,260
26	301	78	63	1,360	858	3,170	1,220	563	1,850
27	371	101	117	1,120	813	2,470	1,140	516	1,590
28	840	511	1,270	977	724	1,910	1,020	434	1,200
29	1,620	e1,940	e9,630	954	883	2,300	949	396	1,020
30	1,390	e1,450	e6,080	1,050	1,070	3,080	879	323	768
31	1,620	e2,320	e10,600	---	---	---	824	288	641
Total	14,061	---	34,457	35,453	---	163,836	45,951	---	159,859

14240525 NORTH FORK TOUTLE RIVER BELOW SEDIMENT RETENTION STRUCTURE NEAR KID VALLEY, WA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
[e, estimated]

Day	Mean discharge (ft^3/s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concentration (mg/L)	Sediment discharge (tons/day)
		January			**February**			**March**	
1	773	286	596	1,840	681	3,290	1,040	572	1,600
2	741	288	577	1,390	709	2,680	1,050	457	1,300
3	705	291	554	1,160	567	1,780	1,060	e370	e1,070
4	707	250	478	999	543	1,460	893	292	704
5	697	198	373	953	504	1,300	789	272	581
6	698	227	430	940	508	1,290	797	236	509
7	1,070	506	1,490	931	738	1,840	768	293	606
8	1,160	e683	e2,220	771	920	1,910	652	201	356
9	1,520	e858	e3,530	700	849	1,610	590	147	235
10	1,280	560	1,950	642	642	1,120	563	146	222
11	1,090	442	1,300	599	545	882	551	104	155
12	956	404	1,040	617	531	884	585	116	183
13	864	376	878	663	604	1,080	621	152	255
14	809	348	760	644	618	1,070	676	174	317
15	765	331	684	625	591	998	757	180	367
16	734	326	646	655	494	871	896	236	594
17	706	321	612	676	407	744	915	250	620
18	695	316	593	620	417	698	798	283	608
19	677	316	577	585	374	592	740	341	683
20	676	319	582	547	354	522	1,420	1,270	5,520
21	686	322	596	552	394	588	1,310	1,380	4,900
22	681	325	597	729	e782	e1,640	1,090	1,180	3,470
23	705	362	693	734	508	1,030	926	1,040	2,610
24	720	348	679	610	353	582	807	920	2,010
25	818	381	845	678	341	625	741	879	1,760
26	788	371	789	589	293	467	698	851	1,600
27	788	414	883	546	316	465	665	828	1,490
28	1,020	e772	e2,230	797	e581	e1,350	657	851	1,510
29	1,630	e809	e3,590	---	---	---	644	887	1,540
30	2,180	e1,460	e9,550	---	---	---	668	914	1,650
31	2,470	e1,040	e7,130	---	---	---	748	835	1,680
Total	29,809	---	47,452	21,792	---	33,368	25,115	---	40,705

14240525 NORTH FORK TOUTLE RIVER BELOW SEDIMENT RETENTION STRUCTURE NEAR KID VALLEY, WA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
[e, estimated]

Day	Mean discharge (ft^3/s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concentration (mg/L)	Sediment discharge (tons/day)
		April			May			June	
1	824	666	1,480	861	208	484	1,160	e338	e1,060
2	832	822	1,850	794	220	472	1,070	e236	e686
3	812	960	2,100	770	297	616	996	e289	e770
4	862	1,110	2,590	787	372	790	942	e381	e967
5	1,410	1,580	6,050	839	407	922	e910	474	e1,170
6	1,800	e2,010	e9,780	890	323	777	e880	209	e490
7	2,020	e1,830	e10,000	945	315	803	845	172	392
8	1,810	1,360	6,800	964	298	777	807	144	314
9	1,470	967	3,840	953	272	701	776	128	268
10	1,460	923	3,730	953	258	664	746	118	238
11	1,420	637	2,470	952	e276	e708	723	164	320
12	1,300	576	2,020	971	e318	e835	717	133	258
13	1,340	652	2,380	1,010	e482	e1,330	742	109	218
14	1,190	638	2,040	953	e543	e1,410	698	111	209
15	1,090	407	1,210	853	e390	e900	664	105	188
16	966	322	842	805	e351	e763	643	102	178
17	871	331	776	810	e330	e721	635	107	183
18	821	445	988	762	e314	e647	622	106	178
19	1,360	e699	e2,760	772	e299	e623	612	93	154
20	1,560	704	2,980	729	e284	e559	635	90	154
21	1,390	437	1,640	861	e302	e714	665	105	188
22	1,230	351	1,170	1,130	e447	e1,380	626	106	178
23	1,090	305	897	1,280	e518	e1,800	623	114	192
24	989	302	807	1,130	e342	e1,050	779	e317	e673
25	926	304	761	998	e232	e628	679	206	377
26	906	258	631	929	e203	e510	673	286	519
27	911	287	705	1,060	e306	e904	645	340	593
28	918	226	561	1,090	e406	e1,210	613	e304	e505
29	1,090	247	725	1,390	e540	e2,150	595	e544	e878
30	969	249	653	1,430	e734	e2,850	579	e460	e722
31	---	---	---	1,300	e493	e1,740	---	---	---
Total	35,637	---	75,236	29,971	---	30,438	22,300	---	13,220

14240525 NORTH FORK TOUTLE RIVER BELOW SEDIMENT RETENTION STRUCTURE NEAR KID VALLEY, WA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

[e, estimated]

Day	Mean discharge (ft^3/s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concentration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concentration (mg/L)	Sediment discharge (tons/day)
		July			August			September	
1	572	e663	e1,030	336	101	91	270	e116	e85
2	556	e787	e1,180	336	99	90	265	e100	e72
3	534	e768	e1,110	331	97	86	312	e131	e113
4	518	654	916	322	95	82	268	e92	e67
5	504	628	855	317	93	80	290	156	139
6	490	594	787	312	90	76	913	1,480	3,910
7	480	547	710	306	87	72	442	291	367
8	470	504	640	304	84	69	348	158	149
9	457	461	569	305	80	66	316	149	127
10	447	427	515	309	77	64	298	141	113
11	439	394	468	301	75	61	288	132	103
12	427	324	373	296	73	59	280	124	94
13	417	241	272	291	72	56	277	116	87
14	408	198	218	288	81	63	271	109	80
15	403	171	187	293	83	66	277	118	89
16	401	166	180	288	82	64	290	126	99
17	397	149	160	282	81	62	282	117	89
18	393	140	149	277	80	60	270	107	78
19	387	132	138	275	79	59	261	99	70
20	383	128	132	271	78	57	259	92	65
21	379	125	128	269	77	56	261	87	61
22	376	122	124	268	e87	e63	301	e108	e90
23	371	120	120	267	e114	e82	385	e247	e258
24	364	117	115	269	e100	e72	337	e129	e117
25	357	115	110	268	e93	e67	329	e104	e93
26	350	112	106	268	e88	e64	298	e88	e71
27	345	110	102	280	e83	e63	301	108	92
28	344	108	100	275	e79	e59	e984	3,460	e18,900
29	341	106	98	309	e130	e110	e1,810	10,300	e52,800
30	335	104	94	302	e188	e154	e1,880	6,410	e33,400
31	334	102	92	277	e130	e98	---	---	---
Total	12,979	---	11,778	9,092	---	2,271	13,363	---	111,878

	Total discharge (ft^3/s)	Total suspended sediment discharge (tons)
Year	295,523	724,498

14240525 NORTH FORK TOUTLE RIVER BELOW SEDIMENT RETENTION STRUCTURE NEAR KID VALLEY, WA—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

[>, greater than]

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		October			November			December			January	
1	18	15	16	>1,880	560	1,070	>1,870	680	1,440	53	39	46
2	20	15	16	570	280	370	1,290	830	1,060	57	39	46
3	82	13	16	300	240	270	870	690	770	51	37	43
4	690	15	21	260	200	240	1,220	670	980	50	37	43
5	180	23	54	250	190	210	1,210	520	670	49	35	43
6	98	20	37	200	150	180	660	520	610	64	34	40
7	130	15	25	170	140	160	790	550	660	160	60	97
8	34	13	18	150	120	140	600	450	520	160	56	68
9	16	8.8	11	140	110	130	530	390	460	150	92	120
10	11	7.8	8.9	130	110	120	490	330	400	110	68	82
11	11	6.6	7.8	150	100	120	380	290	310	83	62	72
12	52	7.2	23	220	120	160	350	290	320	93	60	72
13	36	16	24	130	100	110	330	240	290	100	56	71
14	42	15	20	110	93	100	280	210	250	110	62	79
15	370	42	130	110	88	98	250	200	230	73	57	66
16	1,210	270	570	110	85	93	450	180	210	72	52	64
17	490	160	230	210	81	98	680	220	370	74	52	62
18	180	100	140	310	110	140	240	200	220	68	38	59
19	240	100	170	>1,870	230	>1,870	280	170	200	60	42	50
20	230	120	160	>1,870	1,670	>1,870	610	230	330	69	40	48
21	120	83	99	1,740	1,220	1,520	270	170	230	61	35	44
22	97	70	81	1,330	620	770	240	170	200	45	34	40
23	93	72	82	>1,870	530	630	220	150	180	59	36	44
24	85	66	74	>1,870	770	1,080	160	110	150	56	38	45
25	69	56	64	790	600	670	130	94	110	96	38	50
26	65	47	58	670	520	570	120	93	110	68	41	56
27	150	46	52	600	470	530	120	92	100	66	41	52
28	520	130	240	580	390	460	110	78	90	150	52	72
29	1,850	150	1,010	550	370	420	88	67	76	120	64	85
30	>1,880	510	740	680	390	430	82	49	62	230	63	160
31	>1,880	970	1,730	---	---	---	61	46	53	200	110	160
Max	>1,880	970	1,730	>1,880	1,670	>1,870	>1,870	830	1,440	230	110	160
Min	11	6.6	7.8	110	81	93	61	46	53	45	34	40

14240525 NORTH FORK TOUTLE RIVER BELOW SEDIMENT RETENTION STRUCTURE NEAR KID VALLEY, WA—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

[>, greater than]

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		February			March			April			May	
1	130	94	110	68	45	51	100	80	92	36	25	31
2	99	65	77	52	34	41	140	97	110	42	26	33
3	82	64	72	54	35	40	140	98	120	48	31	40
4	78	56	70	48	35	40	170	110	130	52	37	44
5	82	58	69	44	27	35	250	160	180	67	40	50
6	80	58	69	45	26	34	440	210	280	56	38	48
7	130	66	95	44	33	39	390	200	220	53	31	40
8	150	83	120	40	20	26	240	170	190	48	36	42
9	160	78	120	32	16	19	180	120	140	54	35	41
10	100	76	88	32	13	23	150	100	120	51	35	42
11	100	73	88	18	12	14	110	79	94	59	38	51
12	95	60	76	20	12	16	81	65	74	67	50	59
13	110	66	84	30	16	21	76	54	64	110	60	70
14	93	68	77	26	17	22	74	53	60	88	50	60
15	120	55	74	28	17	23	68	47	56	59	49	54
16	67	48	56	49	23	27	59	42	49	63	48	54
17	64	46	53	44	29	34	64	39	46	59	46	54
18	59	39	50	43	31	37	70	49	57	60	42	50
19	59	36	46	87	34	46	99	48	70	54	43	47
20	66	43	56	540	38	210	78	50	64	48	36	40
21	71	54	61	210	120	130	66	52	59	69	31	40
22	130	48	71	140	100	120	59	42	53	77	40	53
23	63	38	46	150	98	110	47	36	42	84	39	47
24	55	40	46	140	92	110	52	38	44	48	26	37
25	64	45	52	120	88	100	53	33	41	36	26	31
26	57	30	42	130	80	110	43	28	36	31	21	26
27	50	33	42	120	77	90	49	32	39	66	21	26
28	98	37	50	140	76	88	44	28	34	61	29	37
29	---	---	---	120	78	100	50	27	38	65	31	52
30	---	---	---	130	93	110	41	28	34	62	38	46
31	---	---	---	110	75	94	---	---	---	45	32	38
Max	160	94	120	540	120	210	440	210	280	110	60	70
Min	50	30	42	18	12	14	41	27	34	31	21	26

14240525 NORTH FORK TOUTLE RIVER BELOW SEDIMENT RETENTION STRUCTURE NEAR KID VALLEY, WA—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

[>, greater than]

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		June			July			August			September	
1	41	27	34	350	170	270	39	23	31	62	30	38
2	35	26	31	500	240	350	36	22	31	46	28	36
3	39	22	29	390	210	280	36	23	28	100	29	37
4	54	31	39	290	190	240	36	20	28	38	25	31
5	---	---	---	240	190	220	32	21	26	160	24	31
6	---	---	---	220	160	200	36	21	29	590	150	410
7	44	26	35	200	150	170	31	20	27	210	74	100
8	44	28	34	190	140	160	30	17	24	81	50	65
9	41	29	35	180	140	160	26	18	23	61	42	52
10	42	29	34	170	130	150	30	18	23	53	41	46
11	47	30	39	180	120	150	29	18	23	50	38	44
12	41	29	35	140	100	120	32	20	26	52	37	44
13	37	27	31	120	92	110	34	21	27	47	36	42
14	32	24	28	110	76	92	48	20	30	43	31	39
15	34	24	28	95	65	82	35	23	30	50	37	41
16	34	24	28	83	62	74	37	22	29	55	40	45
17	36	25	30	84	55	70	32	21	26	43	30	35
18	36	23	30	88	53	65	31	21	26	34	26	30
19	33	24	29	72	48	59	31	21	26	31	22	27
20	32	24	27	65	43	55	30	21	27	32	19	26
21	33	25	29	57	40	50	29	17	23	30	22	25
22	30	19	24	56	38	46	68	14	20	100	23	28
23	30	20	25	50	34	43	53	22	35	950	100	170
24	84	28	60	54	38	46	34	20	26	280	73	120
25	70	48	58	58	39	47	23	18	21	89	52	60
26	120	69	94	52	34	44	24	18	21	57	44	49
27	140	88	110	50	32	41	30	19	24	94	38	45
28	150	92	110	47	30	38	32	18	23	>2,790	68	150
29	340	150	210	44	29	36	110	18	41	>2,790	>2,790	>2,790
30	240	140	170	42	27	34	100	53	83	>2,800	---	---
31	---	---	---	41	27	35	63	32	48	---	---	---
Max	---	---	---	500	240	350	110	53	83	>2,800	---	---
Min	---	---	---	41	27	34	23	14	20	30	---	---