2004 Water Quality Assessment (Final) - Category 2 Listings

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
1	14008	2	N	**ANDERSON CREEK** Nooksack Salmon Enhancement Association unpublished data show occasional excursions beyond the criterion from measurements collected between 1996 and 2000.	MU69PG	0	39N	04E	17	Dissolved oxygen	Water	This dataset will be re-assessed in the 2006 WQA cycle pending acquisition of raw data. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed
1	38948	2	N	**ANDERSON CREEK** Nooksack Indian Tribe unpublished data from station Nooksack-26 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1996. Joy (2000) station 01TAND (ANDERSON CREEK) shows 0 excursions beyond the criterion out of 10 samples collected between 02/97 - 02/98.	MU69PG	1.252	39N	04E	19	Dissolved oxygen	Water	
1	38949	2	N	**ANDERSON CREEK** Nooksack Indian Tribe unpublished data from station Nooksack-27 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1996. Utah State University unpublished data from station USU-6 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 2000.	MU69PG	5.085	39N	04E	31	Dissolved oxygen	Water	
1	14002	2	N	**ANDERSON CREEK** Nooksack Salmon Enhancement Association unpublished data show occasional excursions beyond the criterion from measurements collected between 1996 and 2000.	MU69PG	0	39N	04E	17	pH	Water	This dataset will be re-assessed in the 2006 WQA cycle pending acquisition of raw data. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed
1	39261	2	N	**ANDERSON CREEK** Nooksack Indian Tribe unpublished data from station Nooksack-27 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursions beyond the criterion from 15 measurements collected in 1995-1997. Utah State University unpublished data from station USU-6 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 2000.	MU69PG	5.085	39N	04E	31	pH	Water	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**13996**	**2**	**N**	**ANDERSON CREEK**	**MU69PG**	**0**	**39N**	**04E**	**17**	**Temperature**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show the criterion was exceeded once from measurements collected between 1996 and 2000.						This dataset will be re-assessed in the 2006 WQA cycle pending acquisition of raw data. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	
1	**9719**	**2**	**N**	**AUSTIN CREEK**	**MH83NF**	**0**	**37N**	**04E**	**05**	**Fecal Coliform**	**Water**
				Serdar et al, (1999). Station LWHAUCR1 (AUSTIN CREEK BRIDGE) shows the geometric mean of 845 exceeds the criterion and that 100% of the samples exceeds the percentile criterion from 2 samples collected during 1998.							
1	**39115**	**2**	**N**	**AUSTIN CREEK**	**MH83NF**	**1.185**	**37N**	**04E**	**08**	**Fecal Coliform**	**Water**
				City of Bellingham unpublished data from station COB-CW7 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 59 cfu/100mL from 2 samples collected in 1993. City of Bellingham unpublished data from station COB-CW7 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 322 cfu/100mL from 2 samples collected in 1994. City of Bellingham unpublished data from station COB-CW7 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 57 cfu/100mL from 2 samples collected in 1995. City of Bellingham unpublished data from station COB-CW7 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 39 cfu/100mL from 2 samples collected in 1996. City of Bellingham unpublished data from station COB-CW7 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 27 cfu/100mL from 2 samples collected in 1997. City of Bellingham unpublished data from station COB-CW7 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 131 cfu/100mL from 2 samples collected in 1998. City of Bellingham unpublished data from station COB-CW7 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 21 cfu/100mL from 2 samples collected in 1999. City of Bellingham unpublished data from station COB-CW7 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 67 cfu/100mL from 2 samples collected in 2000. City of Bellingham unpublished data from station COB-CW7 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 5 cfu/100mL from 1 samples collected in 2001.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**39262**	**2**	**N**	**BAKER CREEK**	**VI82QQ**	**0**	**38N**	**02E**	**24**	**pH**	**Water**
				Anderson, P., Roose, M., (2004), station SQ2 shows that 0 of 3 samples exceed the criterion. City of Bellingham unpublished data from station COB-BAK2 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 2 excursions beyond the criterion from 99 measurements collected in 1990-2001.							
1	**39169**	**2**	**N**	**BAKER CREEK**	**VI82QQ**	**0**	**38N**	**02E**	**24**	**Temperature**	**Water**
				City of Bellingham unpublished data from station COB-BAK2 (Baker Creek at Squalicum Parkway) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1994 and 1998.							
1	**7078**	**2**	**N**	**BEAR CREEK**	**PI87SF**	**0.744**	**38N**	**02E**	**02**	**Dissolved oxygen**	**Water**
WDF#01.0146				Western Washington University (1993), 6 excursions beyond the criterion out of 25 samples (24%) between 9/92 and 5/93 at Site 10 at RM 0.8.						Changed on 7/21/05 from UNNAMED CREEK to BEAR CREEK and WASWIS changed from XS91YS 0.473 to PI87SF 0.744 based on Silver Creek Monitoring Project Final Report. -kk	
1	**5839**	**2**	**N**	**BEAR CREEK**	**PI87SF**	**0.744**	**38N**	**02E**	**02**	**Temperature**	**Water**
WDF#01.0146				City of Bellingham unpublished data from station COB-SIL1 (Silver Creek Northwest) submitted by Sue Blake of Whatcom County on 17 December 2002 shows no excursions beyond the criterion from measurements collected in 2000-2001. Western Washington University (1993), 1 excursion beyond the criterion out of 30 samples (3%) between 7/91 and 7/92 at Site 9A (Unnamed Creek WDF# 01.0146 at RM 0.3).						Changed on 7/21/05 from UNNAMED CREEK to BEAR CREEK based on Silver Creek Monitoring Project Final Report. -kk	
1	**7125**	**2**	**N**	**BEAR CREEK**	**PI87SF**	**0.285**	**38N**	**02E**	**03**	**Temperature**	**Water**
WDF#01.0146				Western Washington University (1993),1 excursion beyond the criterion out of 55 samples (2%) between 7/91 and 5/93 at Site 8 (RM 4.6).						Changed on 7/21/05 from UNNAMED CREEK to BEAR CREEK based on Silver Creek Monitoring Project Final Report. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
1	**10091**	**2**	**N**	**BELLINGHAM BAY (INNER) AND WHATCOM WATERWAY**	**390KRD**	**48122H5D8**	**48.735**	**122.585**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station BLL011 (BELLINGHAM BAY - OFF NOOKSACK) shows 11 excursions beyond the criterions out of 21 samples collected between 1993-2000					This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern).	
1	**10147**	**2**	**N**	**BELLINGHAM BAY (OUTER)**	**390KRD**	**48122G6J1**	**48.695**	**122.615**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station BLL009 (Bellingham Bay - Pt. Frances) shows 11 excursions beyond the criterions out of 90 samples collected between 1993-2000.					An undetermined portion of this area/waterbody occurs or is likely to occur on the Lummi Indian Reservation. Washington State does not have jurisdiction over Reservation waters.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
1	**15700**	**2**	**Y**	**BELLINGHAM BAY (OUTER)**	**390KRD**	**48122G6J1**	**48.695**	**122.615**	**Fecal Coliform**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station BLL009 (Bellingham Bay - Pt. Frances) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 1 samples collected during 1991. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station BLL009 (Bellingham Bay - Pt. Frances) shows a geometric mean of 9 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1992. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station BLL009 (Bellingham Bay - Pt. Frances) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 4 samples collected during 1993. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station BLL009 (Bellingham Bay - Pt. Frances) shows a geometric mean of 36 exceeds the criterion and that 0% of the samples does not exceed the percentile criterion from 1 samples collected during 1994. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station BLL009 (Bellingham Bay - Pt. Frances) shows a geometric mean of 6 does not exceed the criterion and that 33% of the samples exceeds the percentile criterion from 3 samples collected during 1995, with only 1 sample that exceeds the percentile criterion. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station BLL009 (Bellingham Bay - Pt. Frances) shows a geometric mean of 9 does not exceed the criterion and that 20% of the samples exceeds the percentile criterion from 5 samples collected during 1996, with only 1 sample that exceeds the percentile criterion. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station BLL009 (Bellingham Bay - Pt. Frances) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 4 samples collected during 1997. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station BLL009 (Bellingham Bay - Pt. Frances) shows a geometric mean of 17 exceeds the criterion and that 0% of the samples does not exceed the percentile criterion from 1 samples collected during 1998. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station BLL009 (Bellingham Bay - Pt. Frances) shows a geometric mean of 1 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1999.					An undetermined portion of this area/waterbody occurs or is likely to occur on the Lummi Indian Reservation. Washington State does not have jurisdiction over Reservation waters. This waterbody segment was listed on the 1998 303(d) list based on an inadequate assessment of the annual ambient monitoring data. In 9 years of data collection, only 2 exceedance were found based on one sample taken for that year. Criteria for showing persistent impairment for bacteria in Policy 1-11 indicates that when fewer than five samples are available, a segment will be placed on the 303(d) list when at least 2 samples violate the standard for more than 10% of the samples used in calculating the geometric mean.	
1	**7057**	**2**	**Y**	**BELLINGHAM BAY (OUTER)**	**390KRD**	**48122H5B3**	**48.715**	**122.535**	**pH**	**Water**
				4 excursions beyond the criterion at Ecology ambient monitoring station BLL008 between 1985 and 1987: 1 in 1985, 1 in 1986, and 2 in 1987.					Station BLL008 was last sampled by Ecology in 1988. Improvements in treatment at the City of Bellingham WWTP located at Post Point in 1991 have significantly reduced the loading of nutrients into Bellingham Bay that would cause pH violations. More recent sampling, after the reductions, at an adjacent Bellingham Bay station (BLL009) show no pH violations. Hood, BFO, 2004.	
1	**10148**	**2**	**N**	**BELLINGHAM BAY (OUTER)**	**390KRD**	**48122G6J1**	**48.695**	**122.615**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station BLL009 (Bellingham Bay - Pt. Frances) shows 5 excursions beyond the criterions out of 72 samples collected between 1993-2000					An undetermined portion of this area/waterbody occurs or is likely to occur on the Lummi Indian Reservation. Washington State does not have jurisdiction over Reservation waters.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
1	7058	2	Y	**BENDER ROAD DITCH** Dickes, 1992 , 2 excursions beyond the criterion at Panghorn Road and Bender Road on 2/5/92 and 3/4/92.	UI16IQ	2.603	40N	03E	04	Dissolved oxygen	Water	This waterbody segment was listed on the 1998 303(d) list based on 2 exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
1	7059	2	Y	**BENSON ROAD DITCH** Dickes, 1992 , 3 excursions beyond the criterion at E. Badger Road and Benson Road between 2/5/92 and 3/11/92.	GP43XI	2.354	40N	03E	08	Dissolved oxygen	Water	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
1	8624	2	N	**BERTRAND CREEK** Dickes, 1992 , single excursion beyond the criterion at station B9W on 3/3/92.	KG72JQ	0.367	40N	02E	12	Ammonia-N	Water	
1	19878	2	N	**BERTRAND CREEK** Plotnikoff and Wiseman, 2002, at station 95D (Bertrand Cr @ Bertheusen Park) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.78 , but more definitive information is needed to determine if the segment is actually impaired.	VL90RG	6.329	40N	02E	14	Bioassessment	Other	
1	7060	2	Y	**BERTRAND CREEK** Dickes, 1992. 2 excursions beyond the criteria at station B7 (Jackson Road at bridge)	CT89KD	0.01	40N	02E	12	Dissolved oxygen	Water	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter / Remarks	Medium
1	15428	2	N	**BERTRAND CREEK**	VL90RG 1.639 40N 02E 27	**Dissolved oxygen**	**Water**
				U.S.Geological Survey data from NWIS database station 12212500 (Bertrand Cr. Nr Lynden) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00. Joy (2000) station 01TBER1 (BERTRAND CREEK AT RATHBONE ROAD) shows 0 excursions beyond the criterion out of 16 samples collected between 02/97 - 02/98. Joy (2000) station 01TBER1 (BERTRAND CREEK AT RATHBONE ROAD) shows 0 excursions beyond the criterion out of 16 samples collected between 02/97 - 02/98. U.S.Geological Survey data from NWIS database station 12212500 (Bertrand Cr. Nr Lynden) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.		
1	38951	2	N	**BERTRAND CREEK**	VL90RG 10.922 40N 02E 02	**Dissolved oxygen**	**Water**
				Utah State University unpublished data from station USU-2 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 2000.			
1	9094	2	N	**BERTRAND CREEK**	VL90RG 1.639 40N 02E 27	**Temperature**	**Water**
				Joy (2000) station 01TBER1 (BERTRAND CREEK AT RATHBONE ROAD) shows 1 excursions beyond the criterion measured on these dates: 97/08/04, U.S.Geological Survey data from NWIS database station 12212500 (Bertrand Cr. Nr Lynden) shows 1 excursions beyond the criterion out of 2 samples collected between 01/93 - 10/00. U.S. Geological Survey unpublished data from station 12212500 (BERTRAND CREEK NEAR LYNDEN) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1998.			
1	38952	2	N	**BLACK SLOUGH**	GK86AU 2.012 38N 05E 20	**Dissolved oxygen**	**Water**
				Whatcom Conservation District unpublished data from station ACME-16 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1998 and 1999. Nooksack Indian Tribe unpublished data from station Nooksack-6 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1995 and 1996.			
1	38954	2	N	**BLACK SLOUGH**	GK86AU 0 38N 05E 17	**Dissolved oxygen**	**Water**
				Nooksack Indian Tribe unpublished data from station Nooksack-7 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1996.			
1	39265	2	N	**BLACK SLOUGH**	GK86AU 0 38N 05E 17	**pH**	**Water**
				Nooksack Indian Tribe unpublished data from station Nooksack-7 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 2 excursions beyond the criterion from 15 measurements collected in 1996-1997.			

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
1	**39172**	**2**	**N**	**BLACK SLOUGH**	**GK86AU**	**2.012**	**38N**	**05E**	**20**	**Temperature**	**Water**
				Whatcom Conservation District unpublished data from station ACME-16 (Black Slough (L)) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1998. Nooksack Indian Tribe unpublished data from station Nooksack-6 (Black Slough at Nelson Road) submitted by Sue Blake of Whatcom County on 17 December 2002 shows no excursions beyond the criterion from measurements collected in 1995- 1997. Nooksack Indian Tribe unpublished data from station Nooksack-6 (Black Slough at Nelson Road) submitted by Sue Blake of Whatcom County on 17 December 2002 shows no excursions beyond the criterion from measurements collected in 1995- 1997. Whatcom Conservation District unpublished data from station ACME-16 (Black Slough (L)) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1998.						
1	**39173**	**2**	**N**	**BLACK SLOUGH**	**GK86AU**	**3.816**	**38N**	**05E**	**29**	**Temperature**	**Water**
				Whatcom Conservation District unpublished data from station ACME-15 (Black Slough (U)) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1998.							
1	**41863**	**2**	**N**	**BLUE CANYON CREEK**	**KC75LU**	**0.693**	**37N**	**04E**	**23**	**Mercury**	**Water**
				Norton, D., (2004), station LW BCC-W shows that one sample collected in year 2002 exceeded the chronic criterion.							
1	**7061**	**2**	**Y**	**BOULDER CREEK**	**AG28YU**	**0**	**40N**	**06E**	**28**	**Temperature**	**Water**
				Nooksack Indian Tribe unpublished data from station Nooksack-20 (Boulder Creek at Mount Baker Highway) submitted by Sue Blake of Whatcom County on 17 December 2002 shows no excursions beyond the criterion from measurements collected in 1995-1997. Neff (1993) show 5 excursions beyond the criterion between 7/30/93 and 8/30/93.						More recent monitoring data from 1995 - 1997 shows that temperature standards are being met. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
1	**19879**	**2**	**N**	**CALIFORNIA CREEK**	**TW03VG**	**7.969**	**40N**	**01E**	**35**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 60D (California Cr at Bruce Rd) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.23.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**15412**	**2**	**N**	**CANYON LAKE CREEK**	**ND81CH**	**0.264**	**39N**	**05E**	**27**	**Dissolved oxygen**	**Water**
				U.S.Geological Survey data from NWIS database station 12208500 (Canyon Cr at Kulshan) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00. Nooksack Indian Tribe unpublished data from station Nooksack-12 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1996.							
1	**12910**	**2**	**N**	**CEMETARY CREEK**	**KL00LG**	**0**	**38N**	**03E**	**29**	**Indeno(1,2,3-cd)pyrene**	**Water**
				Serdar, et al. 1999. show 1 excursion beyond the National Toxics Rule criterion out of 1 samples collected at station LWHCEMCR (CEMETERY CREEK MOUTH NEAR CONFLUENCE) in 1998.							
1	**39268**	**2**	**N**	**CEMETERY CREEK**	**KL00LG**	**0**	**38N**	**03E**	**29**	**pH**	**Water**
				City of Bellingham unpublished data from station COB-CEM3 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 2 excursions beyond the criterion from 99 measurements collected in 1990-2000. Serdar et al. 1999 station LWHCEMCR (CEMETERY CREEK) shows 0 excursions beyond the criterion out of 2 samples collected between 06/98 - 01/99. City of Bellingham unpublished data from station COB-CEM1 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 2001.							
1	**39270**	**2**	**N**	**CHUCKANUT CREEK**	**PB98VA**	**0**	**37N**	**02E**	**13**	**pH**	**Water**
				City of Bellingham unpublished data from station COB-CHU2 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursions beyond the criterion from 100 measurements collected in 1990-2001.							
1	**39180**	**2**	**N**	**CHUCKANUT CREEK**	**PB98VA**	**0**	**37N**	**02E**	**13**	**Temperature**	**Water**
				City of Bellingham unpublished data from station COB-CHU2 (Chuckanut Creek at Mouth) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1997 and 1998.							
1	**7065**	**2**	**Y**	**CLEARBROOK CREEK**	**CT99ZQ**	**0.126**	**40N**	**04E**	**08**	**Dissolved oxygen**	**Water**
				Dickes, 1992. 4 excursions beyond the criterion out of 4 samples (100%) collected at a station on Clearbrook Ditch, West of Nooksack Road in 1992.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**39271**	**2**	**N**	**CONNELLY CREEK**	**II81TD**	**0.302**	**37N**	**03E**	**06**	**pH**	**Water**
				City of Bellingham unpublished data from station COB-CON6 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 2 excursions beyond the criterion from 99 measurements collected in 1990-2001.							
1	**38961**	**2**	**N**	**CORNELL CREEK**	**RQ36PH**	**0**	**39N**	**06E**	**01**	**Dissolved oxygen**	**Water**
				Nooksack Indian Tribe unpublished data from station Nooksack-18 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1996.							
1	**7067**	**2**	**Y**	**DAKOTA (REBEL) CREEK**	**NW63LN**	**0.88**	**40N**	**02E**	**17**	**Dissolved oxygen**	**Water**
				Dickes, 1992. 2 excursions beyond the criterion out of 4 samples (50%) at station D4 in 1992.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
1	**14009**	**2**	**N**	**DAKOTA (REBEL) CREEK**	**PN37OM**	**0.605**	**40N**	**01E**	**08**	**Dissolved oxygen**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show extended excursions beyond the criterion from measurements collected between 1996 and 2000.						Changed from Category 5 to Category 2 on 5/19/05 pending acquisition of raw data which will be re-assessed for the WQA cycle. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	
1	**14003**	**2**	**N**	**DAKOTA (REBEL) CREEK**	**PN37OM**	**0.605**	**40N**	**01E**	**08**	**pH**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show occasional excursions beyond the criterion from measurements collected between 1996 and 2000.						This dataset will be re-assessed in the 2006 WQA cycle pending acquisition of raw data. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	

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WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						**Remarks**	
1	**13997**	**2**	**N**	**DAKOTA (REBEL) CREEK**	**PN37OM**	**0.605**	**40N**	**01E**	**08**	**Temperature**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show the criterion was exceeded once from measurements collected between 1996 and 2000.						This dataset will be re-assessed in the 2006 WQA cycle pending acquisition of raw data. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	
1	**22274**	**2**	**N**	**DAKOTA CREEK, N.F.**	**ZX03DU**	**0.108**	**40N**	**01E**	**13**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 65D (North Fork Dakota Cr at Stein Rd) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.47.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
1	**38996**	**2**	**N**	**DAKOTA CREEK, N.F.**	**ZX03DU**	**3.666**	**40N**	**02E**	**07**	**Dissolved oxygen**	**Water**
				Utah State University unpublished data from station USU-14 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 2000.							
1	**7068**	**2**	**Y**	**DAKOTA CREEK, S.F.**	**UY09SW**	**3.437**	**40N**	**02E**	**20**	**Dissolved oxygen**	**Water**
				Dickes, 1992. 4 excursions beyond the criterion out of 4 samples (100%) at station D5 in 1992.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
1	**7069**	**2**	**Y**	**DAKOTA CREEK, S.F.**	**UY09SW**	**1.92**	**40N**	**02E**	**19**	**Dissolved oxygen**	**Water**
				Dickes, 1992. 4 excursions beyond the criterion out of 4 samples (100%) at station D9 in 1992.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
1	**6395**	**2**	**Y**	**DAKOTA CREEK, S.F.**	**UY09SW**	**1.92**	**40N**	**02E**	**19**	**Fecal Coliform**	**Water**
				U.S.Geological Survey data from NWIS database station 12213950 (SF Dakota Cr at Delta Line rd. nr Birch Bay) shows 1 of 1 sample exceeded the percentile criterion on 8/3/1998. Dickes, 1992. 3 excursions beyond the upper criterion at station D9 in 1992						EAP staff (Brown, 5/16/05) verified that listing #6395 is a category 2. The last 10 years of data (NWIS only) shows one excursion out of a sample set of one. The original analysis of this data obtained a geometric mean on all sample sets, even those with less than five samples available. Southwest regional staff (Rountree, personal communication, 2005)notes that the listing is based on problems dating to 1994-95 as a result of some failing on-site septics near a state park and public shellfish area. The only human sources were the septics, which are now connected to a nearby treatment plant operated by the County. The POTW effluent quality has been improved, including addition of a polishing pond that state DOH shellfish program required as a redundant feature to protect receiving waters just in case a major plant failure were to occur. More facility upgrades are again being considered, but not because of discharge violations. DMR data for the last five years shows the facility to be meeting BacT permit limits.						
1	**39146**	**2**	**N**	**DAKOTA CREEK, S.F.**	**AO27RX**	**0.224**	**40N**	**01E**	**24**	**Fecal Coliform**	**Water**
				U.S. Geological Survey unpublished data from station 12213950 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 170 cfu/100mL from 1 samples collected in 1998.							
1	**38962**	**2**	**N**	**DEADHORSE CREEK**	**DS40XW**	**0**	**39N**	**07E**	**01**	**Dissolved oxygen**	**Water**
				Nooksack Indian Tribe unpublished data from station Nooksack-14 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1996.							
1	**7070**	**2**	**Y**	**DEER CREEK**	**DR81WH**	**2.682**	**39N**	**02E**	**26**	**Dissolved oxygen**	**Water**
				Tetra Tech, 1989. , 3 excursions beyond the criterion out of 10 samples (30%) on 6/20/89, 7/19/89, and 8/16/89 at station 8 on Aldrich Road.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
1	**8631**	**2**	**N**	**DEPOT ROAD DITCH** Dickes, 1992 , single excursion beyond the criterion at station F13 on 3/4/92. Erickson, 1995, one excursion beyond the chronic criterion on 12/14/93 at station DP2.	**NK26OD**	**4.913**	**41N**	**03E**	**32**	**Ammonia-N**		**Water**
1	**7075**	**2**	**Y**	**DEPOT ROAD DITCH** Dickes, 1992 , 2 excursions beyond the criterion at Vissner Road and Depot Road on 3/4/92 and 3/11/92.	**NK26OD**	**4.913**	**41N**	**03E**	**32**	**Dissolved oxygen**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
1	**8625**	**2**	**N**	**DOUBLE DITCH DRAIN** Dickes, 1992 , single excursion beyond the criterion at station F2E on 3/4/92.	**LN43IE**	**13.355**	**40N**	**03E**	**19**	**Ammonia-N**		**Water**
1	**8626**	**2**	**N**	**DOUBLE DITCH DRAIN** Dickes, 1992 , single excursion beyond the criterion at station F9 on 3/4/92.	**LN43IE**	**8.583**	**40N**	**03E**	**06**	**Ammonia-N**		**Water**
1	**8627**	**2**	**N**	**DOUBLE DITCH DRAIN** Dickes, 1992 , single excursion beyond the criterion at station F14E on 3/4/92.	**LN43IE**	**7.498**	**41N**	**03E**	**31**	**Ammonia-N**		**Water**
1	**8632**	**2**	**N**	**DOUBLE DITCH DRAIN** Dickes, 1992. single excursion beyond the criterion at station F3W on 3/4/92.	**RC87WC**	**0**	**40N**	**03E**	**19**	**Ammonia-N**		**Water**
1	**8633**	**2**	**N**	**DOUBLE DITCH DRAIN** Dickes, 1992 , single excursion beyond the criterion at station F10 on 3/4/92.	**RC87WC**	**3.644**	**40N**	**03E**	**06**	**Ammonia-N**		**Water**
1	**7076**	**2**	**Y**	**DUFFNER DITCH** Dickes, 1992. , 2 excursions beyond the criteria at station B8E (Guide Meridian and Badger Road)	**KG72JQ**	**0**	**40N**	**02E**	**13**	**Dissolved oxygen**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**22443**	**2**	**N**	**FAZON LAKE**	**294MWE**	**39N**	**03E**	**13**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 90 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
1	**12949**	**2**	**N**	**FEVER CREEK**	**HI36SL**	**0**	**38N**	**03E**	**29**	**Benzo(a)pyrene**	**Water**
				Serdar, et al. 1999. show 1 excursion beyond the National Toxics Rule criterion out of 2 samples collected at station LWHFEVR1 (FEVER CREEK CULVERT TERMINUS AT MOUTH) in 1998.							
1	**12950**	**2**	**N**	**FEVER CREEK**	**HI36SL**	**0**	**38N**	**03E**	**29**	**Chrysene**	**Water**
				Serdar, et al. 1999. show 1 excursion beyond the National Toxics Rule criterion out of 2 samples collected at station LWHFEVR1 (FEVER CREEK CULVERT TERMINUS AT MOUTH) in 1998.							
1	**12948**	**2**	**N**	**FEVER CREEK**	**HI36SL**	**0**	**38N**	**03E**	**29**	**Indeno(1,2,3-cd)pyrene**	**Water**
				Serdar, et al. 1999. show 1 excursion beyond the National Toxics Rule criterion out of 1 samples collected at station LWHFEVR1 (FEVER CREEK CULVERT TERMINUS AT MOUTH) in 1998.							
1	**12951**	**2**	**N**	**FEVER CREEK**	**HI36SL**	**0**	**38N**	**03E**	**29**	**Mercury**	**Water**
				Serdar, et al. 1999. show 1 excursion beyond the National Toxics Rule criterion out of 3 samples collected at station LWHFEVR1 (FEVER CREEK CULVERT TERMINUS AT MOUTH) in 1998.							
1	**39274**	**2**	**N**	**FEVER CREEK**	**HI36SL**	**1.905**	**38N**	**03E**	**21**	**pH**	**Water**
				City of Bellingham unpublished data from station COB-FEV1 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursions beyond the criterion from 20 measurements collected in 1994-1996.							
1	**39275**	**2**	**N**	**FEVER CREEK**	**HI36SL**	**0**	**38N**	**03E**	**29**	**pH**	**Water**
				City of Bellingham unpublished data from station COB-FEV2 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 2 excursions beyond the criterion from 49 measurements collected in 1994-2001. Serdar et al. 1999 station LWHFEVR1 (FEVER CREEK CULVERT) shows 0 excursions beyond the criterion out of 2 samples collected between 06/98 - 01/99. Discharge monitoring data collected by Brooks Lumber Company (submitted by Steve Hood, BFO, on 13 December 2002) show no excursions beyond the criterion from 29 measurements collected in 2001.							
1	**39184**	**2**	**N**	**FEVER CREEK**	**HI36SL**	**1.905**	**38N**	**03E**	**21**	**Temperature**	**Water**
				City of Bellingham unpublished data from station COB-FEV1 (Fever Creek at East Illinois) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1996.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
1	35433	2	N	**FISHTRAP CREEK**	RN53NC	1.836	40N	02E	25	4,4'-DDE		Water
				U.S. Geological Survey unpublished data from station 12212100 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursion beyond the National Toxic Rule criterion from a samples collected on 9 July 1996.								
1	35437	2	N	**FISHTRAP CREEK**	RN53NC	1.836	40N	02E	25	ALPHA-BHC		Water
				U.S. Geological Survey unpublished data from station 12212100 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursion beyond the National Toxic Rule criterion from samples collected on 9 July 1996.								
1	35456	2	N	**FISHTRAP CREEK**	RN53NC	1.836	40N	02E	25	Chlorpyrifos		Water
				U.S. Geological Survey unpublished data from station 12212100 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursion beyond the chronic criterion from a sample collected on 9 July 1996.								
1	35479	2	N	**FISHTRAP CREEK**	RN53NC	1.836	40N	02E	25	Dieldrin		Water
				U.S. Geological Survey unpublished data from station 12212100 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursion beyond the National Toxic Rule criterion and the chronic criterion from samples collected on 9 July 1996.								
1	15407	2	N	**FISHTRAP CREEK**	RN53NC	13.867	41N	03E	34	Dissolved oxygen		Water
				U.S.Geological Survey data from NWIS database station 12211900 (Fishtrap Cr at International Boundary nr Lynden) shows 1 excursions beyond the criterion out of 3 samples collected between 01/93 - 10/00.								
1	35484	2	N	**FISHTRAP CREEK**	RN53NC	1.836	40N	02E	25	GAMMA-BHC (LINDANE)		Water
				U.S. Geological Survey unpublished data from station 12212100 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursion beyond the National Toxic Rule criterion from samples collected on 9 July 1996.								
1	35504	2	N	**FISHTRAP CREEK**	RN53NC	1.836	40N	02E	25	Parathion		Water
				U.S. Geological Survey unpublished data from station 12212100 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursion beyond the chronic criterion from samples collected on 9 July 1996.								
1	9112	2	N	**FISHTRAP CREEK**	RN53NC	0	40N	02E	35	pH		Water
				Joy (2000) station 01TFIS1 (FISHTRAP CREEK AT RIVER ROAD) shows 2 excursions beyond the criterion out of 4 samples collected between 02/97 - 02/98. Joy (2000) station 01TFIS (FISHTRAP CREEK AT NOOKSACK RIVER) shows 0 excursions beyond the criterion out of 20 samples collected between 02/97 - 02/98.								
1	22444	2	N	**FOUNTAIN LAKE**	447RGV	39N	03E	04		Total Phosphorus		Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.								

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**14010**	**2**	**N**	**FOURMILE CREEK**	**GI31UJ**	**0.163**	**39N**	**03E**	**18**	**Dissolved oxygen**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show extended excursions beyond the criterion from measurements collected between 1996 and 2000.						Changed from Category 5 to Category 2 on 5/19/05 pending acquisition of raw data which will be re-assessed for the WQA cycle. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	
1	**14014**	**2**	**N**	**FOURMILE CREEK**	**GI31UJ**	**0.163**	**39N**	**03E**	**18**	**Fecal Coliform**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show excursions beyond the geometric mean criterion from measurements collected between 1996 and 2000.						Changed from Category 5 to Category 2 on 5/19/05 pending acquisition of raw data which will be re-assessed for the WQA cycle. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	
1	**14004**	**2**	**N**	**FOURMILE CREEK**	**GI31UJ**	**0.163**	**39N**	**03E**	**18**	**pH**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show occasional excursions beyond the criterion from measurements collected between 1996 and 2000.						This dataset will be re-assessed in the 2006 WQA cycle pending acquisition of raw data. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	
1	**13998**	**2**	**N**	**FOURMILE CREEK**	**GI31UJ**	**0.163**	**39N**	**03E**	**18**	**Temperature**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show the criterion was exceeded once from measurements collected between 1996 and 2000.						This dataset will be re-assessed in the 2006 WQA cycle pending acquisition of raw data. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	
1	**38966**	**2**	**N**	**GALLUP CREEK**	**EO08VO**	**0.521**	**39N**	**07E**	**07**	**Dissolved oxygen**	**Water**
				Nooksack Indian Tribe unpublished data from station Nooksack-17 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1996.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
1	39187	2	N	**GALLUP CREEK**	EO08VO	0.521	39N	07E	07	Temperature	Water	
				Nooksack Indian Tribe unpublished data from station Nooksack-17 (Gallup Creek at Mount Baker Highway Bridge) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1996.								
1	38969	2	N	**HARDSCRABBLE CREEK**	NQ44RI	0	38N	05E	30	Dissolved oxygen	Water	
				Whatcom Conservation District unpublished data from station ACME-2 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1998.								
1	39189	2	N	**HARDSCRABBLE CREEK**	NQ44RI	0	38N	05E	30	Temperature	Water	
				Whatcom Conservation District unpublished data from station ACME-2 (Hardscrabble Creek) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1998.								
1	22276	2	N	**HUTCHINSON CREEK**	GW98HR	2.62	37N	05E	03	Bioassessment	Other	
				Plotnikoff and Wiseman, 2002, at station 64D (Hutchinson Cr at DNR campground) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.83.								This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk
1	38972	2	N	**JONES CREEK**	FL87SN	0	37N	05E	06	Dissolved oxygen	Water	
				Nooksack Indian Tribe unpublished data from station Nooksack-5 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1996. Whatcom Conservation District unpublished data from station ACME-11 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1998 and 1999.								
1	39193	2	N	**JONES CREEK**	FL87SN	0	37N	05E	06	Temperature	Water	
				Whatcom Conservation District unpublished data from station ACME-11 (Jones Creek (L)) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1998. Nooksack Indian Tribe unpublished data from station Nooksack-5 (Jones Creek (Acme)) submitted by Sue Blake of Whatcom County on 17 December 2002 shows no excursions beyond the criterion from measurements collected in 1995- 1997. Nooksack Indian Tribe unpublished data from station Nooksack-5 (Jones Creek (Acme)) submitted by Sue Blake of Whatcom County on 17 December 2002 shows no excursions beyond the criterion from measurements collected in 1995- 1997. Whatcom Conservation District unpublished data from station ACME-11 (Jones Creek (L)) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1998.								

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**9116**	**2**	**N**	**KAMM CREEK**	**LS95QH**	**0**	**40N**	**03E**	**21**	**Dissolved oxygen**	**Water**
				Joy (2000) station 01TKAM (KAMM CREEK AT NOOKSACK RIVER) shows 4 excursions beyond the criterion measured on these dates: 97/04/30, 97/05/12, 97/05/14, 97/06/18,							
1	**9117**	**2**	**N**	**KAMM CREEK**	**LS95QH**	**0**	**40N**	**03E**	**21**	**pH**	**Water**
				Joy (2000) station 01TKAM (KAMM CREEK AT NOOKSACK RIVER) shows 1 excursions beyond the criterion out of 15 samples collected between 02/97 - 02/98.							
1	**39199**	**2**	**N**	**KAMM CREEK**	**LS95QH**	**0.09**	**40N**	**03E**	**20**	**Temperature**	**Water**
				Western Washington University unpublished data from station WWU-25 (Kamm Creek near Mouth) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1993.							
1	**9120**	**2**	**N**	**KEEFE LAKE OUTLET**	**BX84LO**	**0**	**39N**	**02E**	**04**	**Dissolved oxygen**	**Water**
				Joy (2000) station 01TKEE (KEEFE LAKE OUTLET AT NOOKSACK RIVER) shows 7 excursions beyond the criterion measured on these dates: 97/04/29, 97/04/30, 97/07/22, 97/08/04, 97/08/27, 97/09/22, 97/09/24,							
1	**9121**	**2**	**N**	**KEEFE LAKE OUTLET**	**BX84LO**	**0**	**39N**	**02E**	**04**	**pH**	**Water**
				Joy (2000) station 01TKEE (KEEFE LAKE OUTLET AT NOOKSACK RIVER) shows 1 excursions beyond the criterion out of 10 samples collected between 02/97 - 02/98.							
1	**9122**	**2**	**N**	**KEEFE LAKE OUTLET**	**BX84LO**	**0**	**39N**	**02E**	**04**	**Temperature**	**Water**
				Joy (2000) station 01TKEE (KEEFE LAKE OUTLET AT NOOKSACK RIVER) shows 2 excursions beyond the criterion measured on these dates: 97/07/22, 97/08/04,							
1	**38979**	**2**	**N**	**LANDING STRIP CREEK**	**MU31EV**	**0**	**37N**	**05E**	**08**	**Dissolved oxygen**	**Water**
				Whatcom Conservation District unpublished data from station ACME-12 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1998 and 1999.							
1	**12970**	**2**	**N**	**LINCOLN CREEK**	**TF34BV**	**0**	**38N**	**03E**	**29**	**Benzo(b)fluoranthene**	**Water**
				Serdar, et al. 1999. show 1 excursion beyond the National Toxics Rule criterion out of 1 samples collected at station LWHLINCR (LINCOLN CREEK MOUTH NEAR CONFLUENCE) in 1998.							
1	**12971**	**2**	**N**	**LINCOLN CREEK**	**TF34BV**	**0**	**38N**	**03E**	**29**	**Chrysene**	**Water**
				Serdar, et al. 1999. show 1 excursion beyond the National Toxics Rule criterion out of 1 samples collected at station LWHLINCR (LINCOLN CREEK MOUTH NEAR CONFLUENCE) in 1998.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**9725**	**2**	**N**	**LINCOLN CREEK**	**TF34BV**	**0**	**38N**	**03E**	**29**	**Fecal Coliform**	**Water**
				Serdar et al. (1999) station LWHLINCR (LINCOLN CREEK) shows the geometric mean of 4973 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 2 samples collected during 1998.; ;							
1	**12972**	**2**	**N**	**LINCOLN CREEK**	**TF34BV**	**0**	**38N**	**03E**	**29**	**Indeno(1,2,3-cd)pyrene**	**Water**
				Serdar, et al. 1999. show 1 excursion beyond the National Toxics Rule criterion out of 1 samples collected at station LWHLINCR (LINCOLN CREEK MOUTH NEAR CONFLUENCE) in 1998.							
1	**39287**	**2**	**N**	**LINCOLN CREEK**	**GZ41HO**	**0**	**38N**	**03E**	**29**	**pH**	**Water**
				City of Bellingham unpublished data from station COB-LIN5 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursions beyond the criterion from 93 measurements collected in 1990-1999. City of Bellingham unpublished data from station COB-LIN2 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 2000. City of Bellingham unpublished data from station COB-LIN3 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 2001.							
1	**7105**	**2**	**Y**	**LUMMI BAY AND HALE PASSAGE**	**390KRD**	**48122H6C6**	**48.725**	**122.665**		**Fecal Coliform**	**Water**
				Cleland, 1985, shows that 17% of samples collected exceed the percetile criterion at station 8 during 1985, with only 1 sample that exceeds the percentile criterion.						An undetermined portion of this area/waterbody occurs or is likely to occur on the Lummi Indian Reservation. Washington State does not have jurisdiction over Reservation waters. This waterbody segment does not meet listing criteria for bacteria in WQ Policy 1-11, which requires that when the exceedances are based on a percentile critieron, you must have a minimum of 10% and at least 2 samples exceeding the criteria. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.	
1	**39204**	**2**	**N**	**MAPLE CREEK**	**AS55EX**	**1.508**	**40N**	**06E**	**30**	**Temperature**	**Water**
				Nooksack Indian Tribe unpublished data from station Nooksack-19 (Maple Creek at Mount Baker Highway Bridge) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1996.							
1	**38985**	**2**	**N**	**MCCARTY CREEK**	**KB73GN**	**0**	**38N**	**05E**	**31**	**Dissolved oxygen**	**Water**
				Whatcom Conservation District unpublished data from station ACME-14 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1998 and 1999.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**38986**	**2**	**N**	**MCCARTY CREEK**	**KB73GN**	**0.254**	**37N**	**05E**	**06**	**Dissolved oxygen**	**Water**
				Whatcom Conservation District unpublished data from station ACME-9 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1998.							
1	**39116**	**2**	**N**	**MCCARTY CREEK**	**KB73GN**	**0**	**38N**	**05E**	**31**	**Fecal Coliform**	**Water**
				Whatcom Conservation District unpublished data from station ACME-14 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 363 cfu/100mL from 2 samples collected in 1998. Whatcom Conservation District unpublished data from station ACME-14 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 104 cfu/100mL from 3 samples collected in 1999.							
1	**39205**	**2**	**N**	**MCCARTY CREEK**	**KB73GN**	**0**	**38N**	**05E**	**31**	**Temperature**	**Water**
				Whatcom Conservation District unpublished data from station ACME-14 (McCarty Creek (L)) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1999.							
1	**35434**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**4.334**	**38N**	**02E**	**05**	**4,4'-DDE**	**Water**
				U.S. Geological Survey unpublished data from station 12213140 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursion beyond the National Toxic Rule criterion from a samples collected on 9 July 1996.							
1	**35438**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**4.334**	**38N**	**02E**	**05**	**ALPHA-BHC**	**Water**
				U.S. Geological Survey unpublished data from station 12213140 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursion beyond the National Toxic Rule criterion from samples collected on 7 August 1996.							
1	**35455**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**4.334**	**38N**	**02E**	**05**	**Chlorpyrifos**	**Water**
				U.S. Geological Survey unpublished data from station 12213140 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursion beyond the chronic criterion from a sample collected on 7 August 1996.							
1	**8635**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**6.181**	**39N**	**02E**	**32**	**Chromium**	**Water**
				1 excursion beyond the criterion at Ecology ambient monitoring station 01A050 (RM 3.4) between 9/91 and 9/96.						A single excursion beyond the criterion does not violate the water quality standards	
1	**35480**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**4.334**	**38N**	**02E**	**05**	**Dieldrin**	**Water**
				U.S. Geological Survey unpublished data from station 12213140 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursion beyond the National Toxic Rule criterion and the chronic criterion from samples collected on 7 August 1996.							
1	**9151**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**21.118**	**40N**	**02E**	**35**	**Dissolved oxygen**	**Water**
				Joy (2000) station 01TLLPL (LEFT BANK DRAIN BELOW MERIDIAN RD) shows 6 excursions beyond the criterion measured on these dates: 97/07/22, 97/08/04, 97/08/27, 97/11/18, 97/11/19, 98/02/26,							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
1	**9730**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD 4.334 38N 02E 05**	**Fecal Coliform**	**Water**
				Joy (2000) station RM3 (Nooksack RM3) shows the geometric mean of 62 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 4 samples collected during 1997.; ;		Nooksack River Fecal Coliform TMDL approved 08-Aug-00.	
				Joy (2000) station RM2.5 (Nooksack River RM2.5) shows the geometric mean of 67 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 2 samples collected during 1997.; ;			
				Joy (2000) station RM3.5 (Nooksack River RM3.5) shows the geometric mean of 82 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 3 samples collected during 1997.; ; Joy (2000) station RM2.5 (Nooksack River RM2.5) shows the geometric mean of 67 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 2 samples collected during 1997.; ;			
				Joy (2000) station RM3 (Nooksack RM3) shows the geometric mean of 62 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 4 samples collected during 1997.; ;			
				Joy (2000) station RM3.5 (Nooksack River RM3.5) shows the geometric mean of 82 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 3 samples collected during 1997.; ;			

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
1	**9741**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD 48.006 39N 04E 28**	**Fecal Coliform**	**Water**

Hallock (2004), Dept. of Ecology ambient station 01A120 shows 1 of 9 samples (11.1%) in year 2002 exceeded the percentile criterion.

Changed from Category 1 to Category 2 on 01/13/05 due to consolidation with Listing ID 42605. -kk

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01A120 (Nooksack R. at North Cedarville) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 2001.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01A120 (Nooksack R. at North Cedarville) shows a geometric mean of 10 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01A120 (Nooksack R. at North Cedarville) shows a geometric mean of 8 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 13 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01A120 (Nooksack R. at North Cedarville) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1998.

Joy (2000) station 01TSCO (SCOTT DITCH AT NOOKSACK RIVER) shows the geometric mean of 106 exceeds the criterion and that 0 %of the samples does not exceed the percentile criterion from 2 samples collected during 1998.

Joy (2000) station 01TMS6 (NOOKSACK RIVER AT N. CEDARVILLE) shows the geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1998.

Joy (2000) station 01TMS6 (NOOKSACK RIVER AT N. CEDARVILLE) shows the geometric mean of 18 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 34 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01A120 (Nooksack R. at North Cedarville) shows a geometric mean of 15 does not exceed the criterion and that 8% of the samples does not exceed the percentile criterion from 12 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01A120 (Nooksack R. at North Cedarville) shows a geometric mean of 23 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1996.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01A120 (Nooksack R. at North Cedarville) shows a geometric mean of 14 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected during 1995.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01A120 (Nooksack R. at North Cedarville) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01A120 (Nooksack R. at North Cedarville) shows a geometric mean of 16 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 1993.

1	**35483**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD 4.334 38N 02E 05**	**GAMMA-BHC (LINDANE)**	**Water**

U.S. Geological Survey unpublished data from station 12213140 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursion beyond the National Toxic Rule criterion from samples collected on 7 August 1996.

1	**10527**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD 6.181 39N 02E 32**	**Mercury**	**Water**

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01A050 (NOOKSACK R @ BRENNAN) shows 1 excursions beyond the criterion out of 4 samples collected between 1993 - 2001

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**35503**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**4.334**	**38N**	**02E**	**05**	**Parathion**	**Water**
				U.S. Geological Survey unpublished data from station 12213140 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursion beyond the chronic criterion from samples collected on 7 August 1996.							
1	**9170**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**8.826**	**39N**	**02E**	**29**	**pH**	**Water**
				Joy (2000) station 01TMS2 (NOOKSACK RIVER AT FERNDALE) shows 1 excursions beyond the criterion out of 21 samples collected between 02/97 - 02/98. Utah State University unpublished data from station USU-10 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 2000.							
1	**9173**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**37.473**	**40N**	**04E**	**31**	**pH**	**Water**
				Joy (2000) station 01TMS5 (NOOKSACK RIVER AT EVERSON) shows 1 excursions beyond the criterion out of 20 samples collected between 02/97 - 02/98. Utah State University unpublished data from station USU-12 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 2000.							
1	**9174**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**48.006**	**39N**	**04E**	**28**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 01A120 shows that 1 of 31 samples exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01A120 (NOOKSACK R @ NO CEDARVILLE) shows 0 excursions beyond the criterion out of 50 samples collected between 1993 - 2001 U.S.Geological Survey data from NWIS database station 12210700 (Nooksack R at North Cedarville) shows 0 excursions beyond the criterion out of 35 samples collected between 01/93 - 10/00. Joy (2000) station 01TMS6 (NOOKSACK RIVER AT N. CEDARVILLE) shows 3 excursions beyond the criterion out of 22 samples collected between 02/97 - 02/98.							
1	**39293**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**32.377**	**40N**	**03E**	**27**	**pH**	**Water**
				Utah State University unpublished data from station USU-11 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursion beyond the criterion from 1 measurement collected in 2000.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**6561**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**6.181**	**39N**	**02E**	**32**	**Temperature**	**Water**

Dept. of Ecology unpublished data from core ambient monitoring station 01A050 (Nooksack R. at Brennen) shows a 7-day mean of daily maximum values of 17.4 for mid-week 12 August 2001.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01A050 (NOOKSACK R @ BRENNAN) shows 1 excursions beyond the criterion out of 59 samples collected between 1993 - 2001

Joy (2000) station RM4.5 (Nooksack River RM4.5) shows 0 excursions beyond the criterion out of 1 samples collected between 02/97 - 02/98.

Joy (2000) station RM4R (Nooksack River RM4R) shows 0 excursions beyond the criterion out of 1 samples collected between 02/97 - 02/98.

Joy (2000) station RM5R (Nooksack River RM5R) shows 0 excursions beyond the criterion out of 1 samples collected between 02/97 - 02/98.
Joy (2000) station RM4.5 (Nooksack River RM4.5) shows 0 excursions beyond the criterion out of 1 samples collected between 02/97 - 02/98.

Dept. of Ecology unpublished data from core ambient monitoring station 01A050 (Nooksack R. at Brennen) shows a 7-day mean of daily maximum values of 17.4 for mid-week 12 August 2001.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01A050 (NOOKSACK R @ BRENNAN) shows 1 excursions beyond the criterion out of 59 samples collected between 1993 - 2001

Joy (2000) station RM4R (Nooksack River RM4R) shows 0 excursions beyond the criterion out of 1 samples collected between 02/97 - 02/98.

Joy (2000) station RM5R (Nooksack River RM5R) shows 0 excursions beyond the criterion out of 1 samples collected between 02/97 - 02/98.

1	**9184**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**21.118**	**40N**	**02E**	**35**	**Temperature**	**Water**

Joy (2000) station 01TLLPL (LEFT BANK DRAIN BELOW MERIDIAN RD) shows 1 excursions beyond the criterion measured on these dates: 97/08/04,

1	**15909**	**2**	**N**	**NOOKSACK RIVER**	**ZA83VD**	**6.181**	**39N**	**02E**	**32**	**Turbidity**	**Water**

Hallock, 2002. shows 33 excursions beyond the criterion out of 102 samples collected between 1992 and 2001 derived by the difference between the upstream station 01A120 (Nooksack R @ No Cedarville) and the downstream station 01A050 (Nooksack R. @ Brennan).

Even though the data meet the policy, listing this segment under Category 5 is not recommended since there are also a number of cases where the turbidity at the upstream station is greater than the downstream station.

1	**38990**	**2**	**N**	**NOOKSACK RIVER, M.F.**	**FJ18SB**	**0**	**38N**	**06E**	**19**	**Dissolved oxygen**	**Water**

City of Bellingham unpublished data from station COB-MFD2 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1999.

City of Bellingham unpublished data from station COB-MFD1 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1998.
City of Bellingham unpublished data from station COB-MFD1 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1998.

City of Bellingham unpublished data from station COB-MFD2 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1999.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**42779**	**2**	**N**	**NOOKSACK RIVER, M.F.**	**UL53CF**	**7.727**	**38N**	**05E**	**13**	**Mercury**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 01G070 shows 1 sample in year 2002 exceeded the chronic criterion.							
1	**39014**	**2**	**N**	**NOOKSACK RIVER, S.F.**	**CQ54VT**	**12.667**	**37N**	**05E**	**05**	**Dissolved oxygen**	**Water**
				Whatcom Conservation District unpublished data from station ACME-13 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1999. Nooksack Indian Tribe unpublished data from station Nooksack-4 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1996 and 1997. Nooksack Indian Tribe unpublished data from station Nooksack-4 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1996 and 1997. Whatcom Conservation District unpublished data from station ACME-13 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1999.							
1	**39016**	**2**	**N**	**NOOKSACK RIVER, S.F.**	**CQ54VT**	**3.061**	**38N**	**05E**	**17**	**Dissolved oxygen**	**Water**
				Nooksack Indian Tribe unpublished data from station Nooksack-8 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1996. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01F070 (SF Nooksack @ Potter Rd) shows 0 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 Whatcom Conservation District unpublished data from station ACME-18 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1998 and 1999. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01F070 (SF Nooksack @ Potter Rd) shows 0 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 Whatcom Conservation District unpublished data from station ACME-18 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1998 and 1999. Nooksack Indian Tribe unpublished data from station Nooksack-8 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1996.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**42607**	**2**	**N**	**NOOKSACK RIVER, S.F.**	**CQ54VT**	**3.061**	**38N**	**05E**	**17**	**Fecal Coliform**	**Water**

Hallock (2004), Dept. of Ecology ambient station 01F070 shows 1 of 7 samples (14.3%) in year 2002 exceeded the percentile criterion.

Northwest Indian College unpublished data from station NWIC-SF (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 11 cfu/100mL from 18 samples collected in 1999.

Whatcom Conservation District unpublished data from station ACME-18 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 33 cfu/100mL from 7 samples collected in 1999.

Whatcom Conservation District unpublished data from station ACME-18 (submitted by Sue Blake of Whatcom County on 17 December 2002) shows a geometric mean of 71 cfu/100mL from 2 samples collected in 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01F070 (SF Nooksack @ Potter Rd) shows a geometric mean of 13 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01F070 (SF Nooksack @ Potter Rd) shows a geometric mean of 35 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1996.

1	**39315**	**2**	**N**	**NOOKSACK RIVER, S.F.**	**CQ54VT**	**3.061**	**38N**	**05E**	**17**	**pH**	**Water**

Hallock (2004), Dept. of Ecology ambient station 01F070 shows that of 12 samples none exceed the criterion.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01F070 (SF Nooksack @ Potter Rd) shows 0 excursions beyond the criterion out of 12 samples collected between 1993 - 2001.

Nooksack Indian Tribe unpublished data from station Nooksack-8 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursions beyond the criterion from 16 measurements collected in 1995-1997.

1	**39234**	**2**	**N**	**NOOKSACK RIVER, S.F.**	**CQ54VT**	**12.667**	**37N**	**05E**	**05**	**Temperature**	**Water**

Whatcom Conservation District unpublished data from station ACME-13 (South Fork Nooksack River (U)) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1998.

Nooksack Indian Tribe unpublished data from station Nooksack-4 (South Fork Nooksack River at Acme Bridge) submitted by Sue Blake of Whatcom County on 17 December 2002 shows no excursions beyond the criterion from measurements collected in 1995- 1997.
Nooksack Indian Tribe unpublished data from station Nooksack-4 (South Fork Nooksack River at Acme Bridge) submitted by Sue Blake of Whatcom County on 17 December 2002 shows no excursions beyond the criterion from measurements collected in 1995- 1997.

Whatcom Conservation District unpublished data from station ACME-13 (South Fork Nooksack River (U)) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1998.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**22279**	**2**	**N**	**PADDEN CREEK**	**PB65NR**	**2.329**	**37N**	**03E**	**07**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 68D (Padden Cr at Lake Padden Park) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.47. Plotnikoff and Wiseman, 2002, at station 113D (Upper Padden Cr) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.94.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
1	**19871**	**2**	**N**	**PADDEN CREEK**	**PB65NR**	**0.68**	**37N**	**02E**	**12**	**Chlorothalonil**	**Water**
				Seiders (2001) station PC-2 (PADDEN CREEK SAMPLING SITE #2) shows 1 excursions beyond the criterion recommended by the California Department of Fish and Game collected on 14 May 2001.							
1	**19874**	**2**	**N**	**PADDEN CREEK**	**II81TD**	**0**	**37N**	**03E**	**07**	**Chlorothalonil**	**Water**
				Seiders (2001) station PC-3 (PADDEN CR SAMPLING SITE #3 (CONNELLY CR)) shows 2 excursions beyond the criterion recommended by the California Department of Fish and Game collected on 14 May 2001.							
1	**19876**	**2**	**N**	**PADDEN CREEK**	**PB65NR**	**2.329**	**37N**	**03E**	**07**	**Chlorothalonil**	**Water**
				Seiders (2001) station PC-4 (PADDEN CR SAMPLING SITE #4) shows 1 excursion beyond the criterion recommended by the California Department of Fish and Game collected on 14 May 2001.							
1	**19872**	**2**	**N**	**PADDEN CREEK**	**PB65NR**	**0.68**	**37N**	**02E**	**12**	**Diazinon**	**Water**
				Seiders (2001) station PC-2 (PADDEN CREEK SAMPLING SITE #2) shows 1 excursions beyond the criterion recommended by the California Department of Fish and Game collected on 5 May 2001.							
1	**19873**	**2**	**N**	**PADDEN CREEK**	**II81TD**	**0**	**37N**	**03E**	**07**	**Diazinon**	**Water**
				Seiders (2001) station PC-3 (PADDEN CR SAMPLING SITE #3 (CONNELLY CR)) shows 2 excursions beyond the criterion recommended by the California Department of Fish and Game collected on 5 May 2001 and 14 May 2001.							
1	**19875**	**2**	**N**	**PADDEN CREEK**	**PB65NR**	**2.329**	**37N**	**03E**	**07**	**Diazinon**	**Water**
				Seiders (2001) station PC-4 (PADDEN CR SAMPLING SITE #4) shows 1 excursion beyond the criterion recommended by the California Department of Fish and Game collected on 14 May 2001.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**14011**	**2**	**N**	**PADDEN CREEK**	**PB65NR**	**0.215**	**37N**	**02E**	**01**	**Dissolved oxygen**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show occasional excursions beyond the criterion from measurements collected between 1996 and 2000.						This dataset will be re-assessed in the 2006 WQA cycle pending acquisition of raw data. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	
1	**14005**	**2**	**N**	**PADDEN CREEK**	**PB65NR**	**0.215**	**37N**	**02E**	**01**	**pH**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show occasional excursions beyond the criterion from measurements collected between 1996 and 2000.						This dataset will be re-assessed in the 2006 WQA cycle pending acquisition of raw data. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	
1	**14451**	**2**	**N**	**PADDEN CREEK**	**PB65NR**	**2.329**	**37N**	**03E**	**07**	**pH**	**Water**
				Seiders (2001) station PC-4 (PADDEN CR SAMPLING SITE #4) shows 1 excursions beyond the criterion out of 4 samples collected between 04/01 - 06/01. City of Bellingham unpublished data from station COB-PAD1 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 2 excursions beyond the criterion from 99 measurements collected in 1990-2001. City of Bellingham unpublished data from station COB-PAD2 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1996-2001.							
1	**14452**	**2**	**N**	**PADDEN CREEK**	**PB65NR**	**4.546**	**37N**	**03E**	**08**	**pH**	**Water**
				Seiders (2001) station PC-5 (PADDEN CREEK SAMPLING SITE #5) shows 1 excursions beyond the criterion out of 4 samples collected between 04/01 - 06/01.							
1	**14463**	**2**	**N**	**PADDEN CREEK**	**II81TD**	**0**	**37N**	**03E**	**07**	**pH**	**Water**
				Seiders (2001) station PC-3 (PADDEN CR SAMPLING SITE #3 (CONNELLY CR)) shows 1 excursions beyond the criterion out of 4 samples collected between 04/01 - 06/01.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**13999**	**2**	**N**	**PADDEN CREEK**	**PB65NR**	**0.215**	**37N**	**02E**	**01**	**Temperature**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show the criterion was exceeded once from measurements collected between 1996 and 2000.						This dataset will be re-assessed in the 2006 WQA cycle pending acquisition of raw data. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	
1	**14453**	**2**	**N**	**PADDEN CREEK**	**PB65NR**	**4.546**	**37N**	**03E**	**08**	**Temperature**	**Water**
				Seiders (2001) station PC-5 (PADDEN CREEK SAMPLING SITE #5) shows 1 excursions beyond the criterion measured on these dates: 01/06/27,							
1	**39225**	**2**	**N**	**PADDEN CREEK**	**PB65NR**	**0**	**37N**	**02E**	**99**	**Temperature**	**Water**
				City of Bellingham unpublished data from station COB-PAD7 (Padden Creek at Mouth) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1997 and 1998.							
1	**7115**	**2**	**Y**	**PANGBORN CREEK**	**PJ69OE**	**3.02**	**40N**	**03E**	**01**	**pH**	**Water**
				Dickes and Merrill, 1990. 2 excursions beyond the criterion out of 7 samples (28%) at station P3 (RM 1.5) in 1988 and 1989.						This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
1	**7116**	**2**	**Y**	**PANGBORN CREEK**	**PJ69OE**	**1.37**	**40N**	**04E**	**06**	**pH**	**Water**
				Dickes and Merrill, 1990. 2 excursions beyond the criterion out of 7 samples (28%) at station P2 (RM 0.7) in 1988 and 1989.						This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
1	**39006**	**2**	**N**	**PORTER CREEK**	**NT09YV**	**0**	**38N**	**05E**	**11**	**Dissolved oxygen**	**Water**
				Nooksack Indian Tribe unpublished data from station Nooksack-11 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1996.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**14012**	**2**	**N**	**SCHELL CREEK**	**CP04II**	**2.925**	**39N**	**02E**	**30**	**Dissolved oxygen**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show occasional excursions beyond the criterion from measurements collected between 1996 and 2000.						This dataset will be re-assessed in the 2006 WQA cycle pending acquisition of raw data. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	
1	**14000**	**2**	**N**	**SCHELL CREEK**	**CP04II**	**2.925**	**39N**	**02E**	**30**	**pH**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show the criterion was exceeded consistently from measurements collected between 1996 and 2000.						Changed from Category 5 to Category 2 on 5/19/05 pending acquisition of raw data which will be re-assessed for the WQA cycle. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed.	
2006											
1	**14433**	**2**	**N**	**SCOTT DITCH**	**AR42TO**	**0.034**	**40N**	**03E**	**31**	**Dissolved oxygen**	**Water**
				Joy (2000) station 01TSCO (SCOTT DITCH AT NOOKSACK RIVER) shows 11 excursions beyond the criterion measured on these dates: 97/04/28, 97/04/30, 97/05/12, 97/06/18, 97/07/21, 97/07/23, 97/08/27, 97/09/22, 97/09/24, 97/11/17, 97/11/19, Joy (2000) station 01TSCO1 (SCOTT CREEK AT BLYSMA ROAD) shows 1 excursions beyond the criterion measured on these dates: 97/05/14,						Renamed from Scott Creek to Scott Ditch on 4/12/05. -kk	
1	**14015**	**2**	**N**	**SEMIAHMOO BAY**	**390KRD**	**48122J7H9**	**48.975**	**122.795**		**Ammonia-N**	**Water**
				Hoyle-Dodson, 1997. based on samples of the Blaine Wastewater Treatment Plant effluent collected in December 1996 show a reasonable potential to exceed the chronic criteria in the receiving water.							
1	**8634**	**2**	**N**	**SILVER CREEK**	**WO95OB**	**0.13**	**38N**	**02E**	**08**	**Arsenic**	**Water**
				Four excursions beyond the criterion at US EPA station 11B027 between 7/1/87 and 7/1/91.						The measured data represent total arsenic. The National Toxic Rule cirterion applys only to inorganic arsenic.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
1	**7123**	**2**	**N**	**SILVER CREEK**	**WO95OB**	**0.13**	**38N**	**02E** **08**	**Temperature**	**Water**
				Western Washington University (1993), 3 excursions beyond the criterion out of 55 samples (5%) at Site 3 (RM 1.7) during 1991 and 1993. Joy (2000) station 01TSIL (SILVER CREEK AT MARINE DR.) shows 0 excursions beyond the criterion out of 4 samples collected between 02/97 - 02/98. Joy (2000) station 01TSIL (SILVER CREEK AT MARINE DR.) shows 0 excursions beyond the criterion out of 4 samples collected between 02/97 - 02/98. Western Washington University (1993), 3 excursions beyond the criterion out of 55 samples (5%) at Site 3 (RM 1.7) during 1991 and 1993.						
1	**7124**	**2**	**N**	**SILVER CREEK**	**WO95OB**	**4.447**	**39N**	**02E** **33**	**Temperature**	**Water**
				Western Washington University (1993),1 excursion beyond the criterion out of 55 samples (2%) between 7/91 and 5/93 at Site 5 (RM 3.0).						
1	**10517**	**2**	**N**	**SILVER CREEK**	**WO95OB**	**2.592**	**38N**	**02E** **04**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01B050 (Silver Cr nr Brennan) shows 1 excursions beyond the criterion out of 8 samples collected between 1993 - 2001 measured on these dates: 93/08/17, City of Bellingham unpublished data from station COB-SIL2 (Silver Creek at Shady Lane) submitted by Sue Blake of Whatcom County on 17 December 2002 shows no excursions beyond the criterion from measurements collected in 200-2001. City of Bellingham unpublished data from station COB-SIL2 (Silver Creek at Shady Lane) submitted by Sue Blake of Whatcom County on 17 December 2002 shows no excursions beyond the criterion from measurements collected in 200-2001. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01B050 (Silver Cr nr Brennan) shows 1 excursions beyond the criterion out of 8 samples collected between 1993 - 2001 measured on these dates: 93/08/17,						
1	**22446**	**2**	**N**	**SILVER LAKE**	**740PLK**	**28N**	**05E**	**30**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
1	**22281**	**2**	**N**	**SMITH CREEK**	**CR22YN**	**2.309**	**39N**	**04E** **27**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 70D (Smith Cr at Cedarville Br) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.57.					This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	39010	2	N	**SMITH CREEK**	HL56MK	0	37N	04E	05	**Dissolved oxygen**	**Water**
				Western Washington University unpublished data from station COB-CW1 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1994 and 1996.							
1	39011	2	N	**SMITH CREEK**	CR22YN	2.309	39N	04E	27	**Dissolved oxygen**	**Water**
				Nooksack Indian Tribe unpublished data from station Nooksack-25 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1996.							
1	14441	2	N	**SMITH CREEK**	CR22YN	0	39N	04E	21	**pH**	**Water**
				Joy (2000) station 01TSMI (SMITH CREEK AT LIND ROAD) shows 1 excursions beyond the criterion out of 10 samples collected between 02/97 - 02/98.							
1	39310	2	N	**SMITH CREEK**	HL56MK	0	37N	04E	05	**pH**	**Water**
				Western Washington University unpublished data from station COB-CW1 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursions beyond the criterion from 10 measurements collected in 1994-1999.							
1	22282	2	N	**SQUALICUM CREEK**	ZV66WA	2.499	38N	02E	13	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 71D (Squalicum Cr at Cornwall Park) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.7.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
1	14013	2	N	**SQUALICUM CREEK**	ZV66WA	0.064	38N	02E	43	**Dissolved oxygen**	**Water**
				Nooksack Salmon Enhancement Association data show extended excursions beyond the criterion from measurements collected between 1996 and 2000.						Changed from Category 5 to Category 2 on 5/19/05 pending acquisition of raw data which will be re-assessed for the	
2006				City of Bellingham data from station COB-SQA4 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1994, 1995, 1996.						WQA cycle. Current data descriptions are primarily narrative summary without geolocational information. -kk	
										Identified segment represents the most downstream portion of the stream reach assessed	
1	41334	2	N	**SQUALICUM CREEK**	ZV66WA	9.485	38N	03E	10	**Pentachlorophenol**	**Water**
				Anderson, P., Roose, M., (2004), station SQ7 shows that 1 of 2 samples exceeds the criterion..							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**14007**	**2**	**N**	**SQUALICUM CREEK**	**ZV66WA**	**0.064**	**38N**	**02E**	**43**	**pH**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show occasional excursions beyond the criterion from measurements collected between 1996 and 2000. City of Bellingham unpublished data from station COB-SQA4 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1990-2001.						This dataset will be re-assessed in the 2006 WQA cycle pending acquisition of raw data. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	
1	**39317**	**2**	**N**	**SQUALICUM CREEK**	**ZV66WA**	**7.387**	**38N**	**03E**	**09**	**pH**	**Water**
				City of Bellingham unpublished data from station COB-SQA1 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 2 excursions beyond the criterion from 51 measurements collected in 1994-2001.							
1	**39319**	**2**	**N**	**SQUALICUM CREEK**	**ZV66WA**	**2.656**	**38N**	**03E**	**18**	**pH**	**Water**
				Anderson, P., Roose, M., (2004), station SQ5 shows that 0 of 3 samples exceed the criterion. City of Bellingham unpublished data from station COB-SQA3 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 4 excursions beyond the criterion from 100 measurements collected in 1990-2001.							
1	**14001**	**2**	**N**	**SQUALICUM CREEK**	**ZV66WA**	**0.064**	**38N**	**02E**	**43**	**Temperature**	**Water**
				Nooksack Salmon Enhancement Association unpublished data show the criterion was exceeded consistently from measurements collected between 1996 and 2000. City of Bellingham data from station COB-SQA4 (Squalicum Creek at Mouth) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1994.						Changed from Category 5 to Category 2 on 5/19/05 pending acquisition of raw data which will be re-assessed for the WQA cycle. Current data descriptions are primarily narrative summary without geolocational information. -kk Identified segment represents the most downstream portion of the stream reach assessed	
1	**39240**	**2**	**N**	**SQUALICUM CREEK**	**ZV66WA**	**6.058**	**38N**	**03E**	**16**	**Temperature**	**Water**
				City of Bellingham unpublished data from station COB-SQA2 (Squalicum Creek at Hannegan) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1992.							
1	**41778**	**2**	**N**	**SQUALICUM CREEK**	**ZV66WA**	**9.485**	**38N**	**03E**	**10**	**Zinc**	**Water**
				Anderson, P., Roose, M., (2004), station SQ5 shows that one sample collected in year 2002 exceeded the chronic criterion.							
1	**22538**	**2**	**N**	**SQUALICUM LAKE**	**722MMD**	**38N**	**04E**	**07**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 68 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							

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WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**5832**	**2**	**Y**	**SQUAW CREEK**	**GF74PM**	**2.698**	**40N**	**03E**	**12**	**pH**	**Water**
				Dickes and Merrill, 1990. 2 excursions beyond the criterion out of 7 samples (28%) at station S3 (RM 1.4) in 1988 and 1989.						This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
1	**39243**	**2**	**N**	**STANDARD CREEK**	**UT02DB**	**0**	**38N**	**05E**	**31**	**Temperature**	**Water**
				Whatcom Conservation District unpublished data from station ACME-8 (Standard Creek) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1998.							
1	**22283**	**2**	**N**	**SUMAS RIVER**	**MS54MP**	**55.176**	**40N**	**04E**	**32**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 72D (Sumas River blw Swift Cr) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.32.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
1	**5833**	**2**	**N**	**SUMAS RIVER**	**MS54MP**	**34.863**	**40N**	**04E**	**02**	**Dissolved oxygen**	**Water**
				Cusimano, 1992. 1 excursion beyond the criterion out of 2 samples at RM 14.8 on 9/25/91.						Sumas River Ammonia-N, BOD and Chlorine TMDL approved 29-Apr-96.	
1	**15432**	**2**	**N**	**TENMILE CREEK**	**FY02EA**	**8.848**	**39N**	**03E**	**18**	**Dissolved oxygen**	**Water**
				U.S.Geological Survey data from NWIS database station 12212895 (Tenmile Cr blw Fourmile Cr nr Ferndale) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.							
1	**14446**	**2**	**N**	**TENMILE CREEK**	**FY02EA**	**0**	**39N**	**02E**	**20**	**pH**	**Water**
				Joy (2000) station 01TTEN (AT MOUTH BELOW BARRETT LAKE) shows 1 excursions beyond the criterion out of 18 samples collected between 02/97 - 02/98.							
1	**14447**	**2**	**N**	**TENMILE CREEK**	**FY02EA**	**1.815**	**39N**	**02E**	**21**	**pH**	**Water**
				Joy (2000) station 01TTEN1 (TENMILE CREEK AT PARADISE ROAD) shows 1 excursions beyond the criterion out of 3 samples collected between 02/97 - 02/98.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
1	15433	2	N	**TENMILE CREEK**	FY02EA	8.848	39N	03E	18	pH		Water
				U.S.Geological Survey data from NWIS database station 12212895 (Tenmile Cr blw Fourmile Cr nr Ferndale) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.								
1	14448	2	N	**TENMILE CREEK**	FY02EA	1.815	39N	02E	21	Temperature		Water
				Joy (2000) station 01TTEN1 (TENMILE CREEK AT PARADISE ROAD) shows 1 excursions beyond the criterion measured on these dates: 97/05/14,								
1	14449	2	N	**TENMILE CREEK**	FY02EA	0	39N	02E	20	Temperature		Water
				Joy (2000) station 01TTEN (AT MOUTH BELOW BARRETT LAKE) shows 4 excursions beyond the criterion measured on these dates: 97/07/22, 97/08/04, 97/08/25, 97/08/27,								
1	22539	2	N	**TENNANT LAKE**	017COV	39N	02E	32		Total Phosphorus		Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 192 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.								
1	22540	2	N	**TERRELL LAKE**	356SOW	39N	01E	16		Total Phosphorus		Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 32 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. O'Neal et al. (2001) concludes that designated uses are being supported.								
1	39027	2	N	**THOMPSON CREEK**	TP42PK	0	39N	07E	09	Dissolved oxygen		Water
				Nooksack Indian Tribe unpublished data from station Nooksack-15 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1996.								
1	39029	2	N	**TODD CREEK**	GK65ZS	0	38N	05E	18	Dissolved oxygen		Water
				Whatcom Conservation District unpublished data from station ACME-5 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1998. Nooksack Indian Tribe unpublished data from station Nooksack-9 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1996 and 1997. Nooksack Indian Tribe unpublished data from station Nooksack-9 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1996 and 1997. Whatcom Conservation District unpublished data from station ACME-5 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1998.								

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**39031**	**2**	**N**	**TOSS CREEK**	**NZ37OW**	**0**	**38N**	**05E**	**08**	**Dissolved oxygen**	**Water**
				Whatcom Conservation District unpublished data from station ACME-19 (submitted by Sue Blake of Whatcom County on 17 December 2002) show excursions beyond the criterion from measurements collected in 1998 and 1999.							
1	**39252**	**2**	**N**	**TOSS CREEK**	**NZ37OW**	**0**	**38N**	**05E**	**08**	**Temperature**	**Water**
				Whatcom Conservation District unpublished data from station ACME-19 (Toss Creek) submitted by Sue Blake of Whatcom County on 17 December 2002 shows excursions beyond the criterion from measurements collected in 1998.							
1	**5844**	**2**	**N**	**UNNAMED CREEK WDF# 01.0148**	**PC85CB**	**0.81**	**38N**	**02E**	**03**	**Dissolved oxygen**	**Water**
				Western Washington University (1993), 1 excursion beyond the criterion out of 25 samples (3%) between 9/92 and 5/93 at Site 9 (Unnamed Creek WDF# 01.0148 at RM 0.5).							
1	**5843**	**2**	**N**	**UNNAMED CREEK WDF# 01.0148**	**PC85CB**	**0.81**	**38N**	**02E**	**03**	**Temperature**	**Water**
				Western Washington University (1993), 1 excursion beyond the criterion out of 25 samples (3%) between 9/92 and 5/93 at Site 9 (Unnamed Creek WDF# 01.0148 at RM 0.5).							
1	**22285**	**2**	**N**	**WHATCOM CREEK**	**EZ19GC**	**4.036**	**38N**	**03E**	**28**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 114D (Whatcom Cr blw Whatcom Falls) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.55 , but more definitive information is needed to determine if the segment is actually impaired.							
1	**8623**	**2**	**N**	**WHATCOM CREEK**	**EZ19GC**	**2.176**	**38N**	**03E**	**29**	**Pentachlorophenol**	**Water**
				Kendra, 1988. One excursion beyond the criterion on Fever Creek below Brooks Lumber .							
1	**39327**	**2**	**N**	**WHATCOM CREEK**	**EZ19GC**	**4.036**	**38N**	**03E**	**28**	**pH**	**Water**
				City of Bellingham unpublished data from station COB-WHA1 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 5 excursions beyond the criterion from 100 measurements collected in 1990-2001.							
1	**39328**	**2**	**N**	**WHATCOM CREEK**	**EZ19GC**	**0.027**	**38N**	**03E**	**30**	**pH**	**Water**
				City of Bellingham unpublished data from station COB-WHA2 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 1 excursions beyond the criterion from 100 measurements collected in 1990-2001. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 01E050 (Whatcom Cr @ Bellingham) shows 0 excursions beyond the criterion out of 10 samples collected between 1993 - 2001. U.S.Geological Survey data from NWIS database station 12203540 (Whatcom Cr at James St at Bellingham) shows 0 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
1	**39329**	**2**	**N**	**WHATCOM CREEK**	**EZ19GC**	**2.176**	**38N**	**03E**	**29**	**pH**	**Water**
				City of Bellingham unpublished data from station COB-WHA3 (submitted by Sue Blake of Whatcom County on 17 December 2002) show 2 excursions beyond the criterion from 100 measurements collected in 1990-2001. Utah State University unpublished data from station USU-1 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 2000.							
1	**14458**	**2**	**N**	**WISER CREEK**	**UZ70KA**	**0**	**39N**	**02E**	**09**	**Dissolved oxygen**	**Water**
				Joy (2000) station 01TWIS (WISER CREEK AT NOOKSACK RIVER) shows 10 excursions beyond the criterion measured on these dates: 97/04/29, 97/04/30, 97/05/12, 97/06/18, 97/07/22, 97/08/27, 97/09/22, 97/09/24, 97/11/17, 97/11/19,							
1	**14460**	**2**	**N**	**WISER CREEK**	**UZ70KA**	**0**	**39N**	**02E**	**09**	**pH**	**Water**
				Joy (2000) station 01TWIS (WISER CREEK AT NOOKSACK RIVER) shows 1 excursions beyond the criterion out of 13 samples collected between 02/97 - 02/98.							
1	**22546**	**2**	**N**	**WISER LAKE**	**972LVC**	**39N**	**03E**	**06**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
2	**10101**	**2**	**N**	**EAST SOUND**	**390KRD**	**48122G8E8**	**48.645**	**122.885**		**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station EAS001 (East Sound - Rosario Point) shows 20 excursions beyond the criterions out of 33 samples collected between 1993-2000						This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern). These excursions beyond the criterion are a natural condition with no direct human-caused influence due to natural variations in the marine environment, based on the 11/03 judgment of Jan Newton (Dept. of Ecology).	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information				Parameter	Remarks	Medium
2	10102	2	N	**EAST SOUND**	390KRD	48122G8E8	48.645	122.885	pH		Water
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station EAS001 (East Sound - Rosario Point) shows 2 excursions beyond the criterions out of 32 samples collected between 1993-2000							
2	22550	2	N	**HUMMEL LAKE**	431RZX	35N	02W	23	Total Phosphorus		Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 146 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
2	22551	2	N	**MARTINS LAKE**	164MOC	36N	02W	12	Total Phosphorus		Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 24 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
2	10097	2	N	**SAN JUAN CHANNEL**	390KRD	48122F9B1	48.515	122.915	Dissolved oxygen		Water
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station FSH001 (Fisherman Bay - Lopez Island) shows 1 excursions beyond the criterions out of 11 samples collected between 1993-2000							
2	10111	2	N	**SAN JUAN CHANNEL**	390KRD	48123F0D1	48.535	123.015	Dissolved oxygen		Water
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station FRI001 (Friday Harbor - San Juan Island) shows 4 excursions beyond the criterions out of 11 samples collected between 1993-2000							
2	6637	2	Y	**SAN JUAN CHANNEL**	390KRD	48123F0D1	48.535	123.015	Fecal Coliform		Water
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station FRI001 (Friday Harbor - San Juan Island) shows a geometric mean of 1 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1997. Determan and Kendra, 1986. , excursions beyond the criterion are caused by boat wastes in Friday Harbor.						Based on more recent data showing that fecal coliform is being met and the age of the original data, the segment is categorized as "Waters of Concern." Data from Determan and Kendra, 1986, is only available in hardcopy format. The water segment was listed based on the 1998 303(d) assessment.	
2	22553	2	N	**SPENCER LAKE**	448QLS	21N	02W	32	Total Phosphorus		Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 8 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
2	10106	2	N	**STRAIT OF GEORGIA**	390KRD	48122I9A5	48.805	122.955	pH		Water
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GRG002 (Georgia Strait - N. of Patos Island) shows 3 excursions beyond the criterions out of 61 samples collected between 1993-2000							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
2	12320	2	N	**UNNAMED CREEK**	WK31QK	0	35N	02W	24	Dissolved oxygen	Water
				Coots, 1999. data from San Juan County station L17 (Pond Ellis farm) show exceeds both criterion in 1997 and 1998 with a sample size of 4. Coots, 1999. data from San Juan County station L18 (South side of Johnson Lane Private Rd. off Mt. Baker View Rd.) show excursions beyond the criterion in measurements collected in 1997 and 1998. Coots, 1999. data from San Juan County station L28 (Culvert by road inflow) show exceeds both criterion in 1997 with a sample size of 3. Coots, 1999. data from San Juan County station L29 (Culvert outflow by road) show exceeds both criterion in 1997 with a sample size of 4.							
2	12334	2	N	**UNNAMED CREEK**	WS69BZ	0	36N	01W	09	Dissolved oxygen	Water
				Coots, 1999. data from San Juan County station O1 (Obstruction Pass Road, culvert North of substation.) show excursions beyond the criterion in measurements collected in 1997 and 1998.							
2	12709	2	N	**UNNAMED CREEK**	AC91JG	1.652	37N	02W	33	Dissolved oxygen	Water
				Coots, 1999. data from San Juan County station O13 (Crow Valley to Horseshoe West Creek) show excursions beyond the criterion in measurements collected in 1998.							
2	12710	2	N	**UNNAMED CREEK**	AC91JG	0.098	36N	02W	04	Dissolved oxygen	Water
				Coots, 1999. data from San Juan County station O9 (W.Sound cabin stream outflow frm Crow Val.) show excursions beyond the criterion in measurements collected in 1997 and 1998.							
2	12717	2	N	**UNNAMED CREEK**	DN34IJ	0.021	36N	04W	36	Dissolved oxygen	Water
				Coots, 1999. data from San Juan County station SJ4 (Garrison Bay Creek) show excursions beyond the criterion in measurements collected in 1997.							
2	12720	2	N	**UNNAMED CREEK**	EE58AU	0.524	35N	03W	32	Dissolved oxygen	Water
				Coots, 1999. data from San Juan County station SJ13 (Kanaka Bay Culvert) show meets both criterion in 1997 with a sample size of 2.							
2	12721	2	N	**UNNAMED CREEK**	EE58AU	1.322	35N	03W	29	Dissolved oxygen	Water
				Coots, 1999. data from San Juan County station SJ3 (West Side Road Stream) show excursions beyond the criterion in measurements collected in 1997.							
2	12726	2	N	**UNNAMED CREEK**	GC53HA	0.55	35N	03W	07	Dissolved oxygen	Water
				Coots, 1999. data from San Juan County station SJ21 (AUG 1 Pump Station Outlet Stream) show excursions beyond the criterion in measurements collected in 1997.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
2	**12733**	**2**	**N**	**UNNAMED CREEK**	**IJ29GB**	**0**	**36N**	**01W**	**09**	**Dissolved oxygen**	**Water**
				Coots, 1999. data from San Juan County station O2 (Cascade Creek culvert N. side- incoming) show excursions beyond the criterion in measurements collected in 1997 and 1998.							
2	**12734**	**2**	**N**	**UNNAMED CREEK**	**IJ29GB**	**1.026**	**36N**	**01W**	**04**	**Dissolved oxygen**	**Water**
				Coots, 1999. data from San Juan County station O3 (ES Kaboo Hill Road, Cascade Creek Culvert) show exceeds both criterion in 1997 with a sample size of 1.							
2	**12747**	**2**	**N**	**UNNAMED CREEK**	**RS46QX**	**0.016**	**36N**	**02W**	**16**	**Dissolved oxygen**	**Water**
				Coots, 1999. data from San Juan County station O19 (Milk and Honey Cove) show excursions beyond the criterion in measurements collected in 1997 and 1998.							
2	**12748**	**2**	**N**	**UNNAMED CREEK**	**RS46QX**	**0.51**	**36N**	**02W**	**15**	**Dissolved oxygen**	**Water**
				Coots, 1999. data from San Juan County station O20 (WS Warm Valley Farm Stream raw water) show exceeds both criterion in 1997 with a sample size of 1.							
2	**12756**	**2**	**N**	**UNNAMED CREEK**	**VA83LA**	**0**	**35N**	**03W**	**11**	**Dissolved oxygen**	**Water**
				Coots, 1999. data from San Juan County station SJ7 (Friday Harbor Creek-South Side of Bridge at UW Labs) show excursions beyond the criterion in measurements collected in 1997 and 1998. Coots, 1999. data from San Juan County station SJ20 (Beaverton Valley Road Culvet) show no excursions beyond the criterion in all measurements collected in 1997.							
2	**12764**	**2**	**N**	**UNNAMED CREEK**	**WZ22GD**	**0**	**35N**	**03W**	**28**	**Dissolved oxygen**	**Water**
				Coots, 1999. data from San Juan County station SJ2 (FB San Juan Valley Stream into False Bay- South of West Side Road) show excursions beyond the criterion in measurements collected in 1997 and 1998.							
2	**12768**	**2**	**N**	**UNNAMED CREEK**	**XV83AX**	**0.871**	**36N**	**04W**	**25**	**Dissolved oxygen**	**Water**
				Coots, 1999. data from San Juan County station SJ15 (Wescott Bay South Stream Mitchell Bay Road Culvert-) show excursions beyond the criterion in measurements collected in 1997 and 1998.							
2	**12769**	**2**	**N**	**UNNAMED CREEK**	**XV83AX**	**0**	**36N**	**04W**	**24**	**Dissolved oxygen**	**Water**
				Coots, 1999. data from San Juan County station SJ6 (Wescott Bay South Stream Outlet) show excursions beyond the criterion in measurements collected in 1997 and 1998.							
2	**12711**	**2**	**N**	**UNNAMED CREEK**	**AC91JG**	**1.652**	**37N**	**02W**	**33**	**Fecal Coliform**	**Water**
				Coots, 1999. data from San Juan County station O13 (Crow Valley to Horseshoe West Creek) show meets both criterion in 1997 with a sample size of 1.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
2	12712	2	N	**UNNAMED CREEK**	AC91JG	0.098	36N	02W	04	Fecal Coliform	Water
				Coots, 1999. data from San Juan County station O9 (W.Sound cabin stream outflow frm Crow Val.) show meets both criterion in 1997 with a sample size of 1.							
2	12735	2	N	**UNNAMED CREEK**	IJ29GB	2.904	37N	01W	33	Fecal Coliform	Water
				Coots, 1999. data from San Juan County station O26 (ES Moran Park, Cascade Creek/ dam & spillway) show meets both criterion in 1997 with a sample size of 1.							
2	12749	2	N	**UNNAMED CREEK**	RS46QX	0.016	36N	02W	16	Fecal Coliform	Water
				Coots, 1999. data from San Juan County station O19 (Milk and Honey Cove) show exceeds both criterion ion 1997 and 1998 with a sample size of 3.							
2	12750	2	N	**UNNAMED CREEK**	RS46QX	0.51	36N	02W	15	Fecal Coliform	Water
				Coots, 1999. data from San Juan County station O20 (WS Warm Valley Farm Stream raw water) show meets both criterion in 1997 with a sample size of 1.							
2	12757	2	N	**UNNAMED CREEK**	VA83LA	0	35N	03W	11	Fecal Coliform	Water
				Coots, 1999. data from San Juan County station SJ7 (Friday Harbor Creek-South Side of Bridge at UW Labs) show meets both criterion in 1997 with a sample size of 1.							
2	12765	2	N	**UNNAMED CREEK**	WZ22GD	0	35N	03W	28	Fecal Coliform	Water
				Coots, 1999. data from San Juan County station SJ2 (FB San Juan Valley Stream into False Bay- South of West Side Road) show excceds both criteria in 1997 and 1998 with a sample size of 4.							
2	12729	2	N	**UNNAMED CREEK**	GG92HC	0.012	35N	02W	12	pH	Water
				Coots, 1999. data from San Juan County station L21 (Entrance to culvert) show 1 excursions beyond the criterion out of 1 measurement collected in 1997.							
				Coots, 1999. data from San Juan County station L27 (Outlet frm pond (lagoon)) show 1 excursions beyond the criterion out of 1 measurement collected in 1997.							
2	12771	2	N	**UNNAMED CREEK**	XV83AX	0.871	36N	04W	25	pH	Water
				Coots, 1999. data from San Juan County station SJ15 (Wescott Bay South Stream Mitchell Bay Road Culvert-) show 1 excursion beyond the criterion out of 6 measurement collected in 1997-1998.							
2	15445	2	N	**UNNAMED CREEK**	DN34IJ	0	36N	04W	99	pH	Water
				U.S.Geological Survey data from NWIS database station 12200754 (Unnamed Cr at English Camp on San Juan Is.) shows 1 excursions beyond the criterion out of 2 samples collected between 01/93 - 10/00.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
2	**12330**	**2**	**N**	**UNNAMED CREEK**	**WK31QK**	**0**	**35N**	**02W**	**24**	**Temperature**	**Water**
				Coots, 1999. data from San Juan County station L17 (Pond Ellis farm) show exceeded the criterion in measurements collected in 1997. Coots, 1999. data from San Juan County station L29 (Culvert outflow by road) show exceeded the criterion in measurements collected in 1997. Coots, 1999. data from San Juan County station L18 (South side of Johnson Lane Private Rd. off Mt. Baker View Rd.) show meet the criterion in all measurements collected in 1997 and 1998. Coots, 1999. data from San Juan County station L28 (Culvert by road inflow) show exceeds both criterion in 1997 with a sample size of 1. Coots, 1999. data from San Juan County station L18 (South side of Johnson Lane Private Rd. off Mt. Baker View Rd.) show meet the criterion in all measurements collected in 1997 and 1998. Coots, 1999. data from San Juan County station L28 (Culvert by road inflow) show exceeds both criterion in 1997 with a sample size of 1. Coots, 1999. data from San Juan County station L17 (Pond Ellis farm) show exceeded the criterion in measurements collected in 1997. Coots, 1999. data from San Juan County station L29 (Culvert outflow by road) show exceeded the criterion in measurements collected in 1997.							
2	**12725**	**2**	**N**	**UNNAMED CREEK**	**EE58AU**	**1.322**	**35N**	**03W**	**29**	**Temperature**	**Water**
				Coots, 1999. data from San Juan County station SJ3 (West Side Road Stream) show exceeded the criterion in measurements collected in 1997.							
2	**12731**	**2**	**N**	**UNNAMED CREEK**	**GG92HC**	**0.012**	**35N**	**02W**	**12**	**Temperature**	**Water**
				Coots, 1999. data from San Juan County station L21 (Entrance to culvert) show exceeded the criterion in measurements collected in 1997. Coots, 1999. data from San Juan County station L27 (Outlet frm pond (lagoon)) show exceeded the criterion in measurements collected in 1997.							
2	**12746**	**2**	**N**	**UNNAMED CREEK**	**QF52CH**	**0**	**35N**	**03W**	**33**	**Temperature**	**Water**
				Coots, 1999. data from San Juan County station SJ1 (False Bay Lagoon) show exceeded the criterion in measurements collected in 1997.							
2	**22556**	**2**	**N**	**ZYLSTRA LAKE**	**729WON**		**34N**	**03W**	**20**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 111 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
3	**6163**	**2**	**Y**	**BIG LAKE**	**596AVP**	**34N**	**04E**	**36**		**Total Phosphorus**	**Water**
				O'Neal et al. (2001) concludes that designated uses are being supported. In 1999, the mean measured total phosphorus concentration for Big Lake was 18.7. Pending a more thorough study, a tentative total phosphorus criterion of 20 µg/L was recommended. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 16 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Completed Lake Assessment Project in 1978 - Problems Encountered: Blue-green algae, low dissolved oxygen, tributary nutrient inputs. No control measures were implemented. URS Company, 1977.						According to O'Neal et al. (2001), shallow depths, dense residential development, and a location in a relatively large watershed may render Big Lake particularly susceptible to (and may have already caused) human-caused eutrophication. Future studies may likely recommend lowering the total phosphorus criterion.	
3	**6413**	**2**	**N**	**CARPENTER CREEK**	**YA61IC**	**7.779**	**33N**	**04E**	**04**	**Temperature**	**Water**
				Department of Ecology unpublished data from the Skagit TMDL Study shows a 7-day mean of daily maximum values of 17.9 for week ending 13 August 2001 at station 03C03 (Carpenter Creek at Stackp).; Department of Ecology unpublished data from the Skagit TMDL Study shows 11 excursions beyond the criterion out of 145 days collected.							
3	**7134**	**2**	**Y**	**CARPENTER CREEK**	**YA61IC**	**1.949**	**33N**	**04E**	**20**	**Temperature**	**Water**
				Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 3 excursions beyond the criterion on Hill Ditch/Carpenter Creek (WDF#03.0179) below Hwy 534 Bridge during 1997.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
3	**7135**	**2**	**Y**	**CARPENTER CREEK**	**YA61IC**	**6.016**	**33N**	**04E**	**09**	**Temperature**	**Water**
				Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 3 excursions beyond the criterion on Hill Ditch/ Carpenter Creek (WDF# 03.0179) above the Johnson Creek confluence during 1997.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
3	**7138**	**2**	**Y**	**COAL CREEK**	**RE17FI**	**0**	**35N**	**05E**	**10**	**Temperature**	**Water**
				Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 2 excursions beyond the criterion on Coal Creek below Hwy 20 Bridge during 1997.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
3	**7139**	**2**	**Y**	**CUMBERLAND CREEK**	**QX54OS**	**0.334**	**35N**	**06E**	**23**	**Temperature**	**Water**
				Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 2 excursions beyond the criterion on Cumberland Creek (WDF#03.0355) above S. Skagit Road Bridge during 1997.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
3	**7140**	**2**	**Y**	**DAY CREEK**	**QT99QB**	**3.146**	**35N**	**06E**	**28**	**Temperature**	**Water**
				Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 2 excursions beyond the criterion on Day Creek (WDF#03.0299) above S. Skagit Road Bridge during 1997.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.
3	**22561**	**2**	**N**	**ERIE LAKE**	**727DPU**	**34N**	**01E**	**11**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. O'Neal et al. (2001) concludes that designated uses are being supported.						
3	**7141**	**2**	**Y**	**FISHER CREEK**	**JK73SN**	**5.516**	**33N**	**04E**	**30**	**Temperature**	**Water**
				Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 3 excursions beyond the criterion on Fisher Creek above Hwy 530 Bridge during 1997.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.
3	**6416**	**2**	**N**	**HANSEN CREEK**	**PU87PF**	**9.708**	**36N**	**05E**	**31**	**Temperature**	**Water**
				Department of Ecology unpublished data from the Skagit TMDL Study shows a 7-day mean of daily maximum values of 17.9 for week ending 15 August 2001 at station 03H03 (Hansen Creek at Hansen Cr). Department of Ecology unpublished data from the Stillaguamish TMDL Study shows 3 excursions beyond the criterion out of 147 days collected.						
3	**7145**	**2**	**Y**	**HANSEN CREEK**	**PU87PF**	**0.989**	**35N**	**05E**	**29**	**Temperature**	**Water**
				Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 2 excursions beyond the criterion on Hansen Creek above River Road during 1997.						The daily maximum excursions from 1997 are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.
3	**7146**	**2**	**Y**	**HANSEN CREEK**	**PU87PF**	**3.966**	**35N**	**05E**	**17**	**Temperature**	**Water**
				Department of Ecology unpublished data from the Skagit TMDL Study shows 0 excursions beyond the criterion out of 104 days collected in 2001, with a 7-day mean of daily maximum values of 17.2 for week ending 31 August 2001 at station 03H02 (Hansen Creek at SR20). Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 2 excursions beyond the criterion below Highway 20 during 1997.						More recent montioring indicates temperature standards are being met. The daily maximum excursions from 1997 are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
3	40819	2	N	**HILL DITCH**	YA61IC	1.046	33N	04E	29	Dissolved oxygen	Water
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 03F070 (HILL DITCH AT CEDARDALE RD BRIDGE) shows 4 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 measured on these dates: 00/06/21, 00/07/19, 00/08/23, 00/09/20,							
3	7148	2	Y	**INDIAN (BIG) SLOUGH**	390KRD	48122E4F7	48.455	122.475		Temperature	Water
				Bulthius and Shellenberger, 1995. multiple excurison beyond the criterion during 1995. Cassidy and McKeen, 1986. 6 excursions beyond the criterion out of 11 samples measured in 1985.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
3	7151	2	Y	**JOE LEARY SLOUGH**	390KRD	48122F4C7	48.525	122.475		Dissolved oxygen	Water
				Bulthius and Shellenberegr, 1995. multiple excursions beyond the criterion during 1995.						Continuous measurements were taken, but the information submitted is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
3	10534	2	N	**JOE LEARY SLOUGH**	LA86QK	2.233	35N	03E	20	Dissolved oxygen	Water
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 03E050 (JOE LEARY SLOUGH NR MOUTH) shows 6 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 measured on these dates: 00/04/18, 00/05/16, 00/06/20, 00/07/18, 00/08/22, 00/09/19,							
3	16410	2	N	**JOE LEARY SLOUGH**	LA86QK	2.233	35N	03E	20	Fecal Coliform	Water
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 03E050 (JOE LEARY SLOUGH NR MOUTH) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples exceeds the percentile criterion from 2 samples collected during 1999.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 03E050 (JOE LEARY SLOUGH NR MOUTH) shows a geometric mean of 67 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 2000, with only 1 sample that exceeds the percentile criterion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
3	**7152**	**2**	**Y**	**JOE LEARY SLOUGH**	**390KRD**	**48122F4C7**	**48.525**	**122.475**		**Temperature**	**Water**
				Bulthius and Shellenberger, 1995. multiple excurison beyond the criterion during 1995. Bulthuis, 1993. 6 excursions beyond the criterion from samples measured in 1990 and 1991. Cassidy and McKeen, 1986. 3 excursions beyond the criterion during 1985						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. These waters are either brackish or marine waters. Elevated tempertures due to exposure of intertidal sediments to the sun cause warming of the sediments at low tide and significantly affects the overlaying water on incoming tides. This is a natural condition with no apparent human causes. 07/21/04 -kk	
3	**7154**	**2**	**Y**	**JONES CREEK**	**MB32NW**	**0**	**35N**	**06E**	**17**	**Temperature**	**Water**
				Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 2 excursions beyond the criterion on Jones Creek (WDF#03.0332) below Hwy 20 Bridge during 1997.						WASWIS changed from UT72SQ - 0.301 to MB32NW - 0.000 on 3/11/05. -kk The daily maximum excursions from 1997 are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
3	**9210**	**2**	**N**	**KULSHAN CREEK**	**RZ52HJ**	**0.051**	**34N**	**04E**	**18**	**Ammonia-N**	**Water**
				Pickett (1997) station Skagit20 (Kulshan Creek (PS-FR)) shows 1 excursions beyond the criterion out of 2 samples collected between 09/94 - 10/96 .							
3	**9211**	**2**	**N**	**KULSHAN CREEK**	**RZ52HJ**	**0.051**	**34N**	**04E**	**18**	**Dissolved oxygen**	**Water**
				Pickett (1997) station Skagit20 (Kulshan Creek (PS-FR)) shows 1 excursions beyond the criterion measured on these dates: 95/09/19,							
3	**9216**	**2**	**N**	**MANNSER CREEK**	**UT72SQ**	**0.301**	**35N**	**06E**	**16**	**Dissolved oxygen**	**Water**
				Summers (2001) station SRIW0302 (WATER QUALITY AT LYMAN-HAMILTON RD) shows 5 excursions beyond the criterion measured on these dates: 00/10/19, 00/11/15, 01/01/10, 01/02/14, 01/03/14,							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
3	**9217**	**2**	**N**	**MANNSER CREEK**	**UT72SQ**	**0.301**	**35N**	**06E**	**16**	**pH**	**Water**
				Summers (2001) station SRIW0302 (WATER QUALITY AT LYMAN-HAMILTON RD) shows 1 excursions beyond the criterion out of 6 samples collected between 10/00 - 09/01.							
3	**22563**	**2**	**N**	**MINKLER LAKE**	**164WEY**	**35N**	**05E**	**13**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 21 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
3	**7155**	**2**	**Y**	**MUD LAKE CREEK**	**IL21OS**	**1.366**	**34N**	**04E**	**02**	**Temperature**	**Water**
				Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 3 excursions beyond the criterion on Mud Lake Creek (WDF# 03.0229) below Swan Road during 1997.						The daily maximum excursions from 1997 are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
3	**39624**	**2**	**N**	**NONAME SLOUGH**	**BX87EZ**	**3.915**	**35N**	**03E**	**32**	**Temperature**	**Water**
				Skagit Stream Team unpublished data show excursions beyond the criterion in 2002.							
3	**39626**	**2**	**N**	**NONAME SLOUGH**	**BX87EZ**	**1.575**	**34N**	**03E**	**05**	**Temperature**	**Water**
				Skagit Stream Team unpublished data show excursions beyond the criterion in 2002. Skagit Stream Team unpublished data show no excursions beyond the criterion from measurements collected 1999-2002. Skagit Stream Team unpublished data show no excursions beyond the criterion from measurements collected 1999-2002. Skagit Stream Team unpublished data show excursions beyond the criterion in 2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
3	**10537**	**2**	**N**	**NOOKACHAMPS CREEK**	**LZ60MT**	**2.721**	**34N**	**04E**	**10**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 03D050 (Nookachamp Ck nr Mouth) shows 1 excursions beyond the criterion out of 18 samples collected between 1993 - 2001 measured on these dates: 95/07/19, Pickett (1997) station Skagit14 (Nookachamps Creek (NOOKCK)) shows 0 excursions beyond the criterion out of 10 samples collected between 09/94 - 10/96 . Skagit Stream Team unpublished data show no excursions beyond the criterion from measurements collected 1999-2002. Pickett (1997) station Skagit14 (Nookachamps Creek (NOOKCK)) shows 0 excursions beyond the criterion out of 10 samples collected between 09/94 - 10/96 . Hallock (2001) Dept. of Ecology Ambient Monitoring Station 03D050 (Nookachamp Ck nr Mouth) shows 1 excursions beyond the criterion out of 18 samples collected between 1993 - 2001 measured on these dates: 95/07/19, Skagit Stream Team unpublished data show no excursions beyond the criterion from measurements collected 1999-2002.							
3	**39638**	**2**	**N**	**NOOKACHAMPS CREEK**	**LZ60MT**	**20.131**	**33N**	**05E**	**19**	**Temperature**	**Water**
				Skagit Stream Team unpublished data show excursions beyond the criterion in 2000.							
3	**39640**	**2**	**N**	**NOOKACHAMPS CREEK**	**LZ60MT**	**7.976**	**34N**	**04E**	**23**	**Temperature**	**Water**
				Skagit Stream Team unpublished data show excursions beyond the criterion in 2000.							
3	**7166**	**2**	**Y**	**NOOKACHAMPS CREEK, E.F.**	**FE06WU**	**0**	**34N**	**05E**	**19**	**Temperature**	**Water**
				Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 2 excursions beyond the criterion below Beaver Lake Road Bridge during 1997.						The daily maximum excursions from 1997 are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
3	**22286**	**2**	**N**	**OTOOLE CREEK**	**AI47FW**	**0.492**	**35N**	**07E**	**21**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 133D (OToole Cr @ Skagit Valley Highway) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.85 , but more definitive information is needed to determine if the segment is actually impaired. Plotnikoff and Wiseman, 2002, at station 107D (OToole Cr @ Skagit Valley Highway) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 1.05.							
3	**39664**	**2**	**N**	**OTTER POND CREEK**	**GK78TY**	**0**	**34N**	**04E**	**25**	**Dissolved oxygen**	**Water**
				Skagit Stream Team unpublished data show excursions beyond the criterion in 1999 and 2000.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
3	10119	2	N	**PADILLA BAY, FIDALGO BAY, AND GUEMES CHANNEL** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station FID001 (Fidalgo Bay - E. of Anacortes) shows 2 excursions beyond the criterions out of 20 samples collected between 1993-2000	390KRD 48122F5B9 48.515 122.595	Dissolved oxygen	Water	
3	22448	2	N	**PASS LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 30 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	012BIB 34N 01E 23	Total Phosphorus	Water	
3	17367	2	N	**SAMISH LAKE** Seiders, 2002. show 1 excursion beyond the National Toxics Rule criterion in fillet samples of Largemouth bass collected in 2001.	O54FYG 37N 03E 26	Mercury	Tissue	
3	22287	2	N	**SAMISH RIVER** Plotnikoff and Wiseman, 2002, at station 39D (Samish R) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.51.	NN50EA 19.614 35N 04E 03	Bioassessment	Other	This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk
3	39649	2	N	**SAMISH RIVER** Skagit Stream Team unpublished data show excursions beyond the criterion in 2000 and 2002.	NN50EA 0.446 35N 03E 99	Dissolved oxygen	Water	
3	39650	2	N	**SAMISH RIVER** Skagit Stream Team unpublished data show excursions beyond the criterion in 2000.	NN50EA 13.11 35N 04E 07	Dissolved oxygen	Water	
3	39651	2	N	**SAMISH RIVER** Skagit Stream Team unpublished data show excursions beyond the criterion in 2000. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 03B045 (Samish R. nr Mouth) shows 0 excursions beyond the criterion out of 17 samples collected between 1993 - 2001 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 03B045 (Samish R. nr Mouth) shows 0 excursions beyond the criterion out of 17 samples collected between 1993 - 2001 Skagit Stream Team unpublished data show excursions beyond the criterion in 2000.	NN50EA 5.487 35N 03E 15	Dissolved oxygen	Water	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
3	39652	2	N	**SAMISH RIVER** Skagit Stream Team unpublished data show excursions beyond the criterion in 2002.	NN50EA	0.446	35N	03E	99	Temperature		Water
3	7169	2	N	**SKAGIT BAY AND SIMILK BAY** Cassidy and McKeen, 1986 , 7 excursions out of 12 samples (58%) at the north mouth of the Swinomish Channel between 1985 and 1986.	BN62VR	9.329	34N	02E	99	Dissolved oxygen		Water
3	17493	2	N	**SKAGIT RIVER** Mount Vernon Wastewater Utility unpublished data show the chronic criterion was exceeded 5 days in October 2001.	SV53RP	3.474	34N	04E	19	Ammonia-N	City of Mount Vernon has submitted an engineering plan for the outfall improvements (Project No. 03-06) that will increase effluent dilution and resolve ammonia issues. Ecology has approved the plan (May 6, 2003), and construction has begun. The goal of the plan is to build a new outfall to achieve better dilution at the Mt Vernon Waste Water Treatment Plant which would in turn correct the Ammonia-N problem. Effluent limits were placed on the treatment plant as a result of this study. The primary enforcement mechanism is the effluent limit contained within the NPDES permit. Based on data and modeling, the improvements have the potential to remove ammonia limits from this WWTP's NPDES permit. The increased dilution is expected to reduce or eliminate instances of ammonia criteria exceedences.	Water
3	35570	2	N	**SKAGIT RIVER** Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of 4 muscle samples collected in 2000 from coho salmon (Oncorhynchus kisutch) samples from station SKAGIT. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle samples collected in 1992-1996 from coho salmon (Oncorhynchus kisutch) samples from station SKAGIT. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle samples collected in 1992-1995 from chinook salmon (Oncorhynchus tshawytscha) samples from station SKAGIT.	SV53RP	1.372	34N	03E	25	Total PCBs	Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	Tissue
3	39656	2	N	**SWEDE CREEK** Skagit Stream Team unpublished data show excursions beyond the criterion in 2002.	UF21MA	0	35N	04E	03	Dissolved oxygen		Water
3	39659	2	N	**THOMAS CREEK** Skagit Stream Team unpublished data show excursions beyond the criterion in 1999 and 2000.	IO78KZ	0	35N	04E	18	Dissolved oxygen		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
3	39665	2	N	**UNNAMED CREEK** Skagit Stream Team unpublished data show excursions beyond the criterion in 1999 and 2000.	GC08NY	0	34N	04E	15	Dissolved oxygen	Water	
3	6420	2	N	**UNNAMED CREEK** Department of Ecology unpublished data from the Skagit TMDL Study shows a 7-day mean of daily maximum values of 15.8 for week ending 14 August 2001 at station 03U03 (Unnamed Trib at Lake Cavanaugh Rd.). Department of Ecology unpublished data from the Skagit TMDL Study shows 3 excursions beyond the criterion out of 83 days collected. Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 2 excursions beyond the criterion above Highway 9 (at RM 13.2) during 1997.	ZZ50GP	0	33N	05E	08	Temperature	Water	
3	39675	2	N	**UNNAMED SLOUGH** Skagit Stream Team unpublished data show excursions beyond the criterion in 2001 and 2002.	AU64DK	0.709	35N	03E	05	Temperature	Water	
3	7178	2	Y	**WISEMAN CREEK** Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 2 excursions beyond the criterion on Wiseman Creek (WDF# 03.0280) below Hwy 20 Bridge during 1997.	XZ26WG	2.948	35N	05E	27	Temperature	Water	The daily maximum excursions from 1997 are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.
4	22568	2	N	**CASKEY LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 13 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion. Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 6.4 ug/L in 1985 which does not exceed the water quality standards nutrient criterion for the Cascades Ecoregion.	789PBY	34N	09E	25		Total Phosphorus	Water	
4	22288	2	N	**DIOBSUD CREEK** Plotnikoff and Wiseman, 2002, at station 8D (Diobsud Cr) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.81 , but more definitive information is needed to determine if the segment is actually impaired. Plotnikoff and Wiseman, 2002, at station 148D (Diobsud Cr) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.93.	BS82WO	0.335	36N	11E	31	Bioassessment	Other	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
4	**15459**	**2**	**N**	**ELLIOTT CREEK**	**BQ12SN**	**6.028**	**29N**	**11E**	**11**	**Temperature**	**Water**
				U.S.Geological Survey data from NWIS database station 12185300 (Elliott Cr @ Goat Lk outlet nr Monte Cristo) shows 1 excursions beyond the criterion out of 7 samples collected between 01/93 - 10/00. U.S.Geological Survey data from NWIS database station 12185295 (Goat Lake inlet nr Monte Cristo) shows 0 excursions beyond the criterion out of 2 samples collected between 01/93 - 10/00. U.S.Geological Survey data from NWIS database station 12185295 (Goat Lake inlet nr Monte Cristo) shows 0 excursions beyond the criterion out of 2 samples collected between 01/93 - 10/00. U.S.Geological Survey data from NWIS database station 12185300 (Elliott Cr @ Goat Lk outlet nr Monte Cristo) shows 1 excursions beyond the criterion out of 7 samples collected between 01/93 - 10/00.							
4	**22289**	**2**	**N**	**FINNEY CREEK**	**CN43RF**	**2.724**	**35N**	**08E**	**19**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 17D (Finney Cr) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.56.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
4	**8023**	**2**	**N**	**FINNEY CREEK**	**CN43RF**	**0**	**35N**	**07E**	**13**	**Dissolved oxygen**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 04E050 (Finney Cr near Birdsview) shows 2 excursions beyond the criterion out of 11 samples collected between 1993 - 2001 measured on these dates: 95/07/18, 95/09/19,							
4	**7179**	**2**	**Y**	**FINNEY CREEK**	**CN43RF**	**0**	**35N**	**07E**	**13**	**Temperature**	**Water**
				Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 2 excursions beyond the criterion on Finney Creek above S. Skagit Road Bridge during 1997. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 04E050 (Finney Cr near Birdsview) shows 2 excursions beyond the criterion out of 11 samples collected between 1993 - 2001 measured on these dates: 95/07/18, 95/08/22,						The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
4	**15455**	**2**	**N**	**GOODELL CREEK**	**EW14RC**	**0**	**37N**	**12E**	**20**	**Dissolved oxygen**	**Water**
				U.S.Geological Survey data from NWIS database station 12178400 (Goodell Cr nr N Casc. NP Boundary nr New Halem) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00. U.S. Geological Survey unpublished data from station 12178400 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1997. U.S. Geological Survey unpublished data from station 12178400 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1997. U.S.Geological Survey data from NWIS database station 12178400 (Goodell Cr nr N Casc. NP Boundary nr New Halem) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.						
4	**7180**	**2**	**Y**	**GRANDY CREEK**	**WY11LD**	**1.444**	**35N**	**07E**	**10**	**Temperature**	**Water**
				Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 2 excursions beyond the criterion on Grandy Creek below Hwy 20 Bridge during 1997.						The daily maximum excursions from 1997 are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
4	**22574**	**2**	**N**	**HEART LAKE**	**657EXN**	**35N**	**01E**	**36**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 180 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.							
4	**22290**	**2**	**N**	**ILLABOT CREEK**	**CX28GI**	**3.102**	**35N**	**10E**	**34**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 21D (Illabot Cr) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.56.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
4	**22291**	**2**	**N**	**JACKMAN CREEK**	**EH12BY**	**0**	**35N**	**08E**	**13**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 23D (Jackman Cr) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.56.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
4	**7181**	**2**	**Y**	**JACKMAN CREEK**	**EH12BY**	**0**	**35N**	**08E**	**13**	**Temperature**	**Water**
				Skagit System Cooperative data (submitted by Bob LaRock on 10/30/97) show 2 excursions beyond the criterion on Jackman Creek below Hwy 20 Bridge during 1997.						The daily maximum excursions from 1997 are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
4	**22292**	**2**	**N**	**PRESSENTIN CREEK**	**ZL10RT**	**0**	**35N**	**07E**	**13**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 109D (Pressentin Cr nr mouth) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.81 , but more definitive information is needed to determine if the segment is actually impaired.							
4	**15453**	**2**	**N**	**STETATTLE CREEK**	**DS09OZ**	**1.574**	**38N**	**13E**	**31**	**Dissolved oxygen**	**Water**
				U.S.Geological Survey data from NWIS database station 12177450 (Stetattle Cr blw Camp Dayo Cr nr Newhalem) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00. U.S. Geological Survey unpublished data from station 12177450 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1997. U.S. Geological Survey unpublished data from station 12177450 (submitted by Sue Blake of Whatcom County on 17 December 2002) show no excursions beyond the criterion from measurements collected in 1997. U.S.Geological Survey data from NWIS database station 12177450 (Stetattle Cr blw Camp Dayo Cr nr Newhalem) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.							
5	**22293**	**2**	**N**	**ARMSTRONG CREEK**	**VP67JK**	**1.415**	**32N**	**05E**	**35**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 288D (Armstrong Cr) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.72.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
5	**9775**	**2**	**N**	**ARMSTRONG CREEK**	**VP67JK**	**1.415**	**32N**	**05E**	**35**	**Fecal Coliform**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TARMST (AT GAGING STATION ON ARMSTRONG CREEK) shows the geometric mean of 291 exceeds the criterion and that 25 % of the samples exceeds the percentile criterion from 4 samples collected during 2001. Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TARMST (AT GAGING STATION ON ARMSTRONG CREEK) shows the geometric mean of 10 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 1 samples collected during 2000.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
5	**22587**	**2**	**N**	**ARMSTRONG LAKE**	**917DDD 32N 05E 26**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 17 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.		Category changed from 1 to 2 based on comments from Snohomish County Surface Water Management. The County's 2003 State of the Lakes Report identifies the lake as "at risk" of future impairment. Summer epilimnetic total phosphorus concentrations exceed 20ug/l. The lake suffers from nuisance algal blooms in response to elevated nutrient levels.	
5	**7182**	**2**	**N**	**BEAVER CREEK**	**GE86BC 0.673 30N 10E 15**	**pH**	**Water**
24-				Stillaguamish Indian Tribal data (submitted by Don Klopfer on 8/4/95) show 2 excursions beyond the criterion on 1/19/94.		Multiple excursions beyond the criterion sampled within a hour period are considered a single excursion per Water Quality Program Policy.	
5	**7184**	**2**	**N**	**BENSON CREEK**	**BE92ZF 0.352 30N 08E 15**	**Dissolved oxygen**	**Water**
				Stillaguamish Indian Tribal data (submitted by Don Klopfer on8/4/95) show 1 excursions beyond the criterion on 5/26/94.			
5	**7183**	**2**	**N**	**BENSON CREEK**	**BE92ZF 0.352 30N 08E 15**	**pH**	**Water**
24-				Stillaguamish Indian Tribal data (submitted by Don Klopfer on 8/4/95) show 3 excursions beyond the criterion on 1/19/94.		Multiple excursions beyond the criterion sampled within a hour period are considered a single excursion per Water Quality Program Policy.	
5	**7185**	**2**	**N**	**BOARDMAN CREEK**	**GM04RO 0.857 30N 09E 29**	**pH**	**Water**
24-				Stillaguamish Indian Tribal data (submitted by Don Klopfer on8/4/95) show 2 excursions beyond the criterion on 1/19/94.		Multiple excursions beyond the criterion sampled within a hour period are considered a single excursion per Water Quality Program Policy.	
5	**7186**	**2**	**N**	**CANYON CREEK**	**RR46TS 1.297 30N 06E 01**	**Fecal Coliform**	**Water**
				Stillaguamish Tribal data (submitted by Don Klopfer on 10/29/97) show 1 excursion beyond the upper criterion on 9/17/97 at Canyon Fall Park on Canyon Creek RM 1.05.		Information submitted is insufficient to support a Category 5 listing.	
5	**22296**	**2**	**N**	**DEER CREEK**	**PA13UD 0.049 32N 07E 08**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 7D (Deer Cr @ RM 0.5) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.48. Plotnikoff and Wiseman, 2002, at station 278D (Deer Cr @ RM 1.0) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.86.		This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
5	**7189**	**2**	**N**	**DEER CREEK**	**PA13UD**	**0.049**	**32N**	**07E**	**08**	**Fecal Coliform**	**Water**
				Stillaguamish Tribal data (submitted by Don Klopfer on 10/29/97) show 1 excursion beyond the upper criterion on 9/17/97 at Oso Bridge (Hwy 530) on Deer Creek RM 0.2.						Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 2 based on the 1998 assessment.	
5	**6443**	**2**	**N**	**DEER CREEK**	**PA13UD**	**30.302**	**33N**	**08E**	**09**	**Temperature**	**Water**
				Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 15.2 for week ending 19 August 2001 at station 05D04 (Deer Creek at FR 1820). Department of Ecology unpublished data from the Stillaguamish TMDL Study shows 2 excursions beyond the criterion out of 103 days collected.							
5	**40931**	**2**	**N**	**FISH CREEK**	**QJ28UC**	**0.348**	**31N**	**04E**	**13**	**pH**	**Water**
				Snohomish County unpublished data from station FISH (NEAR MOUTH ON 5TH AVE NE) show 2 excursions beyond the criterion from 54 measurements collected 1998-2002.							
5	**14520**	**2**	**N**	**GLADE BEKKEN**	**FJ67XF**	**0.762**	**31N**	**04E**	**03**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TGLAD (GLADE BEKKEN) shows 0 excursions beyond the criterion out of 7 samples collected between 08/00 - 11/01. Snohomish County unpublished data from station TR30 (ON SILVANA TERRACE ROAD BY WAVERLY GARDENS NURSERY) show excursions beyond the criterion from measurements collected in 2001.						Changed from Category 1 to Category 2 on 01/25/05 due to consolidation with Listing ID 40809 (cat 2). -kk	
5	**14646**	**2**	**N**	**HAT SLOUGH**	**ZO73WL**	**2.236**	**32N**	**04E**	**31**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMARIN (MAINSTEM STILLY @ MARINE DRIVE) shows 0 excursions beyond the criterion out of 24 samples collected between 08/00 - 11/01. Snohomish County unpublished data from station MSMD (AT MARINE DRIVE) show excursions beyond the criterion from measurements collected in 2001.							
5	**14648**	**2**	**N**	**HAT SLOUGH**	**ZO73WL**	**2.236**	**32N**	**04E**	**31**	**Mercury**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMARIN (MAINSTEM STILLY @ MARINE DRIVE) shows 1 excursions beyond the criterion out of 5 samples collected between 08/00 - 11/01.							
5	**7199**	**2**	**N**	**HOWARD LAKE**	**003PVS**	**31N**	**04E**	**20**		**Fecal Coliform**	**Water**
				Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entrance Engineers, 1986.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				HOWARD LAKE	**003PVS**	**31N**	**04E**	**20**		**Total Phosphorus**	**Water**
5	**22452**	**2**	**N**								

Basis: Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.

Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entranco Engineers, 1986.

Snohomish County unpublished data show summer mean epilimnetic total phosphorus did not exceed the water quality standards nutrient criterion from samples collected between 1996-2002.

Remarks: Snohomish County's 2003 State of the Lakes Report identifies the lake as "at risk" of impairment. Summer epilimnetic total phosphorus concentrations do no consistently exceed 10 ug/l, however TP levels are quite high in the epilimnion. The lake experiences occasional nuisance algal blooms.

5	**22299**	**2**	**N**	**JIM CREEK**	**JU33JU**	**17.151**	**32N**	**07E**	**31**	**Bioassessment**	**Other**

Basis: Plotnikoff and Wiseman, 2002, at station 24D (Jim Cr) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.69 , but more definitive information is needed to determine if the segment is actually impaired. Plotnikoff and Wiseman, 2002, at station 128D (Jim Cr) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.88.

5	**7201**	**2**	**N**	**JORDON CREEK**	**TT19OT**	**0**	**31N**	**06E**	**28**	**pH**	**Water**

Basis: Stillaguamish Indian Tribal data (submitted by Don Klopfer on 8/4/95) show 2 excursions beyond the criterion on 1/19/94.

Remarks: Multiple excursions beyond the criterion sampled within a 24-hour period are considered a single excursion per Water Quality Program Policy.

5	**7239**	**2**	**N**	**JORGENSON SLOUGH (CHURCH CREEK)**	**GH05SX**	**5.093**	**32N**	**04E**	**21**	**Dissolved oxygen**	**Water**

Basis: Paulsen et al. 1991 , 1 excursion at RM 3.4, measured between 9/89 and 5/91.

Remarks: Referenced data on dissolved oxygen is not in the administrative record. The water segment is listed as Category 2 based on the 1998 assessment.

5	**7240**	**2**	**N**	**JORGENSON SLOUGH (CHURCH CREEK)**	**GH05SX**	**1.637**	**32N**	**04E**	**29**	**Dissolved oxygen**	**Water**

Basis: Paulsen et al. 1991, 1 excursion at RM 1.2, measured between 9/89 and 5/91.

Remarks: Referenced data on dissolved oxygen is not in the administrative record. The water segment is listed as Category 2 based on the 1998 assessment.

5	**9238**	**2**	**N**	**KACKMAN CREEK**	**XB43NX**	**1.467**	**32N**	**05E**	**28**	**Dissolved oxygen**	**Water**

Basis: Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TKACK (AT KACKMAN CREEK ON 252 ST NE) shows 2 excursions beyond the criterion measured on these dates: 01/11/14, 01/11/15,

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
5	**6317**	**2**	**N**	**KI LAKE**	**734XSE 31N 04E 23**	**Fecal Coliform**	**Water**
				Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entranco Engineers, 1986. Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entranco Engineers, 1986.		Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment. These data are more than 20 years old and there are no recent data to justify adding this Category 5 listing. In addition there is no anecdotal evidence to show that fecal bacteria are a continuing problem for this lake (per Snohomish County Surface Water Management).	
5	**22302**	**2**	**N**	**LONG CREEK**	**UE35UA 0.139 30N 09E 20**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 28D (Long Cr) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.81.		This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
5	**9242**	**2**	**N**	**MARCH CREEK**	**WI88QF 0 31N 05E 09**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMARSH (MOUTH OF MARCH CREEK) shows 6 excursions beyond the criterion measured on these dates: 00/09/11, 00/09/13, 01/06/12, 01/06/13, 01/11/14, 01/11/15,			
5	**9243**	**2**	**N**	**MARCH CREEK**	**WI88QF 0 31N 05E 09**	**pH**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMARSH (MOUTH OF MARCH CREEK) shows 1 excursions beyond the criterion out of 6 samples collected between 08/00 - 11/01 .			
5	**9245**	**2**	**N**	**MARTHA LAKE CREEK**	**IJ55EP 0.017 31N 03E 13**	**Dissolved oxygen**	**Water**
				Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMARTOL (MARTHA LAKE CREEK OUTLET TO BEACH) shows 1 excursions beyond the criterion measured on these dates: 01/08/22, Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMARTH (MARTHA LAKE CREEK) shows 0 excursions beyond the criterion out of 10 samples collected between 08/00 - 11/01 . Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMARTH (MARTHA LAKE CREEK) shows 0 excursions beyond the criterion out of 10 samples collected between 08/00 - 11/01 . Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMARTOL (MARTHA LAKE CREEK OUTLET TO BEACH) shows 1 excursions beyond the criterion measured on these dates: 01/08/22,			

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		**Remarks**	
5	**6318**	**2**	**N**	**MARTHA N. LAKE**	**126KEN 31N 04E 18**	**Fecal Coliform**	**Water**
				Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entranco Engineers, 1986. Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entranco Engineers, 1986.		Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment. These data are more than 20 years old. Snohomish County has no anecdotal evidence to show thatfecal bacteria are a continuing problem in the lake.	
5	**6354**	**2**	**N**	**MARTHA N. LAKE**	**126KEN 31N 04E 18**	**Total Phosphorus**	**Water**
				Snohomish County unpublished data show summer mean epilimnetic total phosphorus did not exceed the water quality standards nutrient criterion from samples collected between 1996-2002. O'Neal et al. (2001) concludes that designated uses are being supported. Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entranco Engineers, 1986. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 10 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.		Snohomish County's 2003 State of the Lakes Report identifies the lake as at risk of impairment. Summer epilimnetic total phosphorus concentrations do not consistently exceed 20 ug/l, however, TP levels are substantially higher in the hypolimnion. The lake does experience nuisance algal blooms.	
5	**9250**	**2**	**N**	**MILLER CREEK**	**KX60NO 0 32N 04E 32**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMILLR (MOUTH OF MILLER CREEK) shows 5 excursions beyond the criterion measured on these dates: 00/08/08, 00/10/18, 01/06/12, 01/06/13, 01/07/18,			
5	**7212**	**2**	**N**	**MONTAGUE CREEK**	**BS69SS 0 32N 07E 10**	**Fecal Coliform**	**Water**
				Stillaguamish Tribal data (submitted by Don Klopfer on 10/29/97) show 1 excursion beyond the upper criterion on 9/17/97 at Hwy 530 on Montague Creek RM 0.1.		WASWIS and Lower route changed on 01/25/05 to match basis description. -kk Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 2 based on the 1998 assessment.	
5	**14640**	**2**	**N**	**OLD STILLY CHANNEL, WEST PASS**	**XF13JD 0 32N 03E 99**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TWEST (OLD STILLY CHANNEL WEST PASS) shows 1 excursions beyond the criterion measured on these dates: 00/10/18,			
5	**14642**	**2**	**N**	**OLD STILLY CHANNEL, WEST PASS**	**XF13JD 0 32N 03E 99**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TWEST (OLD STILLY CHANNEL WEST PASS) shows 2 excursions beyond the criterion measured on these dates: 00/08/09, 01/07/17,			

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
5	**22303**	**2**	**N**	**PILCHUCK CREEK**	**VJ74AO**	**0.155**	**32N**	**05E**	**31**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 291D (Pilchuck Cr @ I-5) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.84.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
5	**7216**	**2**	**Y**	**PILCHUCK CREEK**	**VJ74AO**	**0.155**	**32N**	**05E**	**31**	**Dissolved oxygen**	**Water**
				Thornburgh, 1995, 13% of samples show excursions beyond the criterion.						Information submitted is insufficient to support a Category 5 listing. No raw data appear in the 1995 reference.	
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TPILCH (PILCHUCK CREEK @ JACKSON GULCH RD) shows 1 excursions beyond the criterion measured on these dates: 00/08/07.							
5	**40793**	**2**	**N**	**PILCHUCK CREEK**	**VJ74AO**	**0**	**31N**	**05E**	**06**	**Dissolved oxygen**	**Water**
				Snohomish County unpublished data from station PILC (NEAR MOUTH ON JACKSON GULCH ROAD) show excursions beyond the criterion from measurements collected in 2001.							
5	**40795**	**2**	**N**	**PILCHUCK CREEK**	**VJ74AO**	**0**	**31N**	**05E**	**06**	**pH**	**Water**
				Snohomish County unpublished data from station PILC (NEAR MOUTH ON JACKSON GULCH ROAD) show 6 excursions beyond the criterion from 55 measurements collected 1998-2002.							
5	**7217**	**2**	**Y**	**PILCHUCK CREEK**	**VJ74AO**	**0**	**31N**	**05E**	**06**	**Temperature**	**Water**
				Snohomish County unpublished data from station PILC (NEAR MOUTH ON JACKSON GULCH ROAD) show excursions beyond the criterion from measurements collected in 1998.						Information submitted is insufficient to support a Category 5 listing. No raw data appear in the 1996 reference.	
				Thornburgh, 1996, 4 excursions beyond criterion out of 38 samples (11%) at station PILC between 1992 and 1997.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
5	**10123**	**2**	**N**	**PORT SUSAN**	**390KRD**	**48122B3D6**	**48.135**	**122.365**		**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station SUZ001 (Port Susan - Kayak Point) shows 14 excursions beyond the criterions out of 20 samples collected between 1993-2000						This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern). These excursions beyond the criterion are a natural condition with no direct human-caused influence due to natural variations in the marine environment, based on the 11/03 judgment of Jan Newton (Dept. of Ecology).	
5	**14534**	**2**	**N**	**PORTAGE CREEK**	**OT80TY**	**0**	**31N**	**04E**	**12**	**Arsenic**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TPORT (PORTAGE CREEK @ 212TH ST BRIDGE) shows 1 excursions beyond the criterion out of 1 samples collected between 08/00 - 11/01 .							
5	**22305**	**2**	**N**	**PORTAGE CREEK**	**OT80TY**	**10.582**	**31N**	**05E**	**10**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 289D (Portage Cr 2) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.84.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
5	**22306**	**2**	**N**	**PORTAGE CREEK**	**OT80TY**	**11.548**	**31N**	**05E**	**11**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 37D (Portage Cr 1) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.42.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
5	**14538**	**2**	**N**	**PORTAGE CREEK**	**OT80TY**	**0**	**31N**	**04E**	**12**	**Mercury**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TPORT (PORTAGE CREEK @ 212TH ST BRIDGE) shows 1 excursions beyond the criterion out of 1 samples collected between 08/00 - 11/01 .							
5	**14540**	**2**	**N**	**PORTAGE CREEK**	**OT80TY**	**0**	**31N**	**04E**	**12**	**pH**	**Water**
				Snohomish County unpublished data from station PORL (AT 212TH ST NE) show 2 excursions beyond the criterion from 55 measurements collected 1998-2002.						Changed from Category 1 to Category 2 on 01/14/05 due to consolidation with Listing ID 40798. -kk	
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TPORT (PORTAGE CREEK @ 212TH ST BRIDGE) shows 0 excursions beyond the criterion out of 8 samples collected between 08/00 - 11/01.							
5	**6162**	**2**	**N**	**ROWLAND (DUBOIS) LAKE**	**270NJN**	**31N**	**04E**	**29**		**Total Phosphorus**	**Water**
				O'Neal et al. (2001) concludes that designated uses are not being supported.						WASWIS=270NJN, TRS=31N-04E-29. Does not appear on map layer used in Interactive Mapping Tool. -kk Snohomish County's 2003 State of the Lakes Report identifies the lake as "at risk" of future impairment. Summer epilimnetic total phosphorus concentrations are high, consistently exceeding 30 ug/l. The lake occasionally experiences nuisance algal blooms.	
5	**14516**	**2**	**N**	**SOUTH PASS SLOUGH**	**UJ01AO**	**0**	**32N**	**03E**	**99**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TSOUTH (SOUTH PASS) shows 6 excursions beyond the criterion measured on these dates: 00/08/08, 01/06/06, 01/07/11, 01/07/17, 01/07/18, 01/08/22,							
5	**22308**	**2**	**N**	**SQUIRE CREEK**	**XN66YN**	**0**	**32N**	**09E**	**08**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 276D (Squire Cr nr Mouth) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.61 , but more definitive information is needed to determine if the segment is actually impaired.							
5	**8640**	**2**	**Y**	**STILLAGUAMISH RIVER**	**QE93BW**	**4.112**	**32N**	**04E**	**30**	**Ammonia-N**	**Water**
				Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TTCF5 (TWIN CITY FOODS DRAIN #5) shows 0 excursions beyond the criterion out of 7 samples collected between 08/00 - 11/01. Glenn, 1996, the ammonia criterion is exceeded at the chronic mixing zone boundary of the Stanwood Discharge.						Recent monitoring in 2000-2001 indicates no excursions of ammonia.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
5	**10580**	**2**	**N**	**STILLAGUAMISH RIVER**	**QE93BW 23.077 31N 05E 06**	**Copper**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A070 (STILLAGUAMISH RIVER NEAR SILVANA) shows 1 excursions beyond the criterion out of 8 samples collected between 1993 - 2001 Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMS11 (MAIN STILLY CHANNEL AT I-5 BRIDGE) shows 0 excursions beyond the criterion out of 6 samples collected between 08/00 - 11/01 . Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMS11 (MAIN STILLY CHANNEL AT I-5 BRIDGE) shows 0 excursions beyond the criterion out of 6 samples collected between 08/00 - 11/01 . Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A070 (STILLAGUAMISH RIVER NEAR SILVANA) shows 1 excursions beyond the criterion out of 8 samples collected between 1993 - 2001			
5	**14556**	**2**	**N**	**STILLAGUAMISH RIVER**	**QE93BW 11.442 31N 04E 05**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMS3 (MAIN STILLY CHANNEL NEAR RIVER MILE 3) shows 1 excursions beyond the criterion measured on these dates: 00/09/13,			
5	**14557**	**2**	**N**	**STILLAGUAMISH RIVER**	**QE93BW 21.087 31N 04E 01**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TPILDOWN (DOWNSTREAM OF PILCHUCK CREEK MOUTH) shows 1 excursions beyond the criterion measured on these dates: 00/09/13,			
5	**14558**	**2**	**N**	**STILLAGUAMISH RIVER**	**QE93BW 23.077 31N 05E 06**	**Dissolved oxygen**	**Water**
				Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TPILUP (UPSTREAM OF PILCHUCK CREEK MOUTH) shows 1 excursions beyond the criterion measured on these dates: 00/09/13, Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A070 (STILLAGUAMISH RIVER NEAR SILVANA) shows 0 excursions beyond the criterion out of 61 samples collected between 1993 - 2001 Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMS11 (MAIN STILLY CHANNEL AT I-5 BRIDGE) shows 0 excursions beyond the criterion out of 12 samples collected between 08/00 - 11/01 . Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A070 (STILLAGUAMISH RIVER NEAR SILVANA) shows 0 excursions beyond the criterion out of 61 samples collected between 1993 - 2001 Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TPILUP (UPSTREAM OF PILCHUCK CREEK MOUTH) shows 1 excursions beyond the criterion measured on these dates: 00/09/13, Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMS11 (MAIN STILLY CHANNEL AT I-5 BRIDGE) shows 0 excursions beyond the criterion out of 12 samples collected between 08/00 - 11/01 .			
5	**14559**	**2**	**N**	**STILLAGUAMISH RIVER**	**QE93BW 4.112 32N 04E 30**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TTCF5 (TWIN CITY FOODS DRAIN #5) shows 5 excursions beyond the criterion measured on these dates: 01/06/12, 01/06/13, 01/07/17, 01/07/18, 01/11/14,			

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
5	**14560**	**2**	**N**	**STILLAGUAMISH RIVER**	**QE93BW 0.255 32N 03E 99**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TTCF1 (TWIN CITY FOODS DRAIN #1) shows 8 excursions beyond the criterion measured on these dates: 01/06/13, 01/07/11, 01/07/18, 01/08/22, 01/09/19, 01/10/17, 01/11/14, 01/11/15,			
5	**8224**	**2**	**N**	**STILLAGUAMISH RIVER**	**QE93BW 31.385 31N 05E 03**	**Fecal Coliform**	**Water**
				Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMS17 (MAIN STILLY CHANNEL NEAR RIVER MILE 17) shows the geometric mean of 126 exceeds the criterion and that 50 % of the samples exceeds the percentile criterion from 4 samples collected during 2001. Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMS17 (MAIN STILLY CHANNEL NEAR RIVER MILE 17) shows the geometric mean of 31 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 1 samples collected during 2000. Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMS15 (MAIN STILLY CHANNEL NEAR RIVER MILE 15) shows the geometric mean of 50 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 2 samples collected during 2000.; ; Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMS15 (MAIN STILLY CHANNEL NEAR RIVER MILE 15) shows the geometric mean of 50 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 2 samples collected during 2000. Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMS17 (MAIN STILLY CHANNEL NEAR RIVER MILE 17) shows the geometric mean of 31 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 1 samples collected during 2000.; Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMS17 (MAIN STILLY CHANNEL NEAR RIVER MILE 17) shows the geometric mean of 126 exceeds the criterion and that 50 % of the samples exceeds the percentile criterion from 4 samples collected during 2001.; Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TNFCIC (NORTH FORK STILLY @ CICERO BRIDGE) shows the geometric mean of 25 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 6 samples collected during 2001.			
5	**7975**	**2**	**Y**	**STILLAGUAMISH RIVER**	**QE93BW 4.112 32N 04E 30**	**Lead**	**Water**
				Glenn, 1996.: The lead criterion has a reasonable potential of exceedance at the chronic mixing zone boundary of the Stanwood Discharge.		Listing was not based on exceedance of actual data, water will be placed on Waters of Concern category until further verificaiton is done.	
5	**14573**	**2**	**N**	**STILLAGUAMISH RIVER**	**QE93BW 35.996 31N 05E 02**	**pH**	**Water**
				Snohomish County unpublished data from station MSAR (AT HIGHWAY 9 BRIDGE NEAR ARLINGTON) show 5 excursions beyond the criterion from 55 measurements collected 1998-2002. Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TCONFL (CONFLUENCE OF N AND S STILLY FORKS) shows 0 excursions beyond the criterion out of 5 samples collected between 08/00 - 11/01. Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMIXZO (MIXING ZONE OF N AND S STILLY FORKS) shows 0 excursions beyond the criterion out of 4 samples collected between 08/00 - 11/01.		Changed from Category 1 to Category 2 on 1/18/05 due to consolidation with Listing ID 40801. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
5	**14587**	**2**	**N**	**STILLAGUAMISH RIVER**	**QE93BW**	**0.255**	**32N**	**03E**	**99**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TTCF1 (TWIN CITY FOODS DRAIN #1) shows 2 excursions beyond the criterion measured on these dates: 01/06/13, 01/07/11,							
5	**14590**	**2**	**N**	**STILLAGUAMISH RIVER**	**QE93BW**	**26.522**	**31N**	**05E**	**05**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TMS12 (MAINSTEM STILLY NEAR RIVER MILE 12) shows 1 excursions beyond the criterion measured on these dates: 01/07/11,							
5	**14592**	**2**	**N**	**STILLAGUAMISH RIVER**	**QE93BW**	**4.112**	**32N**	**04E**	**30**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TTCF5 (TWIN CITY FOODS DRAIN #5) shows 1 excursions beyond the criterion measured on these dates: 01/07/18,							
5	**7248**	**2**	**N**	**STILLAGUAMISH RIVER, N.F.**	**WO38NV**	**47.792**	**32N**	**09E**	**07**	**Dissolved oxygen**	**Water**
				Stillaguamish Indian Tribal data (submitted by Don Klopfer on 8/4/95 and 11/14/95) show 1 excursions beyond the criterion at the Johnson Hatchery (RM30) on 1/20/94.						A single excursion beyond the criterion does not meet the Water	
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B110 (N. FORK STILLAGUAMISH NEAR DARRINGTON) shows 0 excursions beyond the criterion out of 48 samples collected between 1993 - 2001 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B110 (N. FORK STILLAGUAMISH NEAR DARRINGTON) shows 0 excursions beyond the criterion out of 48 samples collected between 1993 - 2001							
5	**15461**	**2**	**N**	**STILLAGUAMISH RIVER, N.F.**	**WO38NV**	**55.278**	**32N**	**09E**	**03**	**Dissolved oxygen**	**Water**
				U.S.Geological Survey data from NWIS database station 12164900 (NF Stillaguamish R Abv Squirre Cr nr Darrington) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
5	7249	2	N	**STILLAGUAMISH RIVER, N.F.**	**WO38NV 47.792 32N 09E 07**	**Fecal Coliform**	**Water**

Basis

Hallock (2004), Dept. of Ecology ambient station 05B110 meets tested standards for fecal coliform.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B110 (Stillaguamish R. N.F. near Darrington) shows a geometric mean of 8 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 2001.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B110 (Stillaguamish R. N.F. near Darrington) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 13 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B110 (Stillaguamish R. N.F. near Darrington) shows a geometric mean of 8 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 13 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B110 (Stillaguamish R. N.F. near Darrington) shows a geometric mean of 8 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 13 samples collected during 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B110 (Stillaguamish R. N.F. near Darrington) shows a geometric mean of 9 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B110 (Stillaguamish R. N.F. near Darrington) shows a geometric mean of 9 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1996.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B110 (Stillaguamish R. N.F. near Darrington) shows a geometric mean of 8 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1995.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B110 (Stillaguamish R. N.F. near Darrington) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B110 (Stillaguamish R. N.F. near Darrington) shows a geometric mean of 8 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 1993.

Stillaguamish Tribal data (submitted by Don Klopfer on 10/29/97) show 1 excursion beyond the upper criterion on 9/17/97 at Whitehorse at Swede Haven Road on the North Fork Stillaguamish RM 30.

Remarks

Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 2 based on the 1998 assessment.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
5	**9786**	**2**	**N**	**STILLAGUAMISH RIVER, N.F.**	**WO38NV 15.141 32N 06E 15**	**Fecal Coliform**	**Water**

Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TNFCIC (NORTH FORK STILLY @ CICERO BRIDGE) shows the geometric mean of 25 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 6 samples collected during 2001.

Changed from Category 1 to Category 2 on 01/12/05 due to consolidation with Listing ID 42788. -kk

Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TNFCIC (NORTH FORK STILLY @ CICERO BRIDGE) shows the geometric mean of 17 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 1 samples collected during 2000.

Hallock (2004), Dept. of Ecology ambient station 05B070 shows 1 of 12 samples (8.3%) in year 2002 exceeded the percentile criterion.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B070 (Stillaguamish R. N.F. at Cicero) shows a geometric mean of 14 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 2001.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B070 (Stillaguamish R. N.F. at Cicero) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B070 (Stillaguamish R. N.F. at Cicero) shows a geometric mean of 10 does not exceed the criterion and that 8% of the samples does not exceed the percentile criterion from 12 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B070 (Stillaguamish R. N.F. at Cicero) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B070 (Stillaguamish R. N.F. at Cicero) shows a geometric mean of 11 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B070 (Stillaguamish R. N.F. at Cicero) shows a geometric mean of 16 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1996.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B070 (Stillaguamish R. N.F. at Cicero) shows a geometric mean of 23 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1995.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B070 (Stillaguamish R. N.F. at Cicero) shows a geometric mean of 37 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B070 (Stillaguamish R. N.F. at Cicero) shows a geometric mean of 10 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1993.

5	**14628**	**2**	**N**	**STILLAGUAMISH RIVER, N.F.**	**WO38NV 0 31N 05E 02**	**Mercury**	**Water**

Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TNFTWI (N FORK STILLY @ TWIN RIVERS PARK) shows 1 excursions beyond the criterion out of 2 samples collected between 08/00 - 11/01 .

5	**42808**	**2**	**N**	**STILLAGUAMISH RIVER, N.F.**	**WO38NV 47.792 32N 09E 07**	**Mercury**	**Water**

Hallock (2004), Dept. of Ecology ambient station 05B110 shows 1 sample in year 2002 exceeded the chronic criterion.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				STILLAGUAMISH RIVER, N.F.	**WO38NV 15.141 32N 06E 15**	**pH**	**Water**
5	**10590**	**2**	**N**				

Basis

Hallock (2004), Dept. of Ecology ambient station 05B070 shows that 1 of 30 samples exceed the criterion.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05B070 (N) shows 1 excursions beyond the criterion out of 49 samples collected between 1993 - 2001.

Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TNFCIC (NORTH FORK STILLY @ CICERO BRIDGE) shows 0 excursions beyond the criterion out of 8 samples collected between 08/00 - 11/01.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				STILLAGUAMISH RIVER, S.F.	**SN06ZT 26.213 30N 07E 07**	**Fecal Coliform**	**Water**
5	**16687**	**2**	**Y**				

Basis

Hallock (2004), Dept. of Ecology ambient station 05A110 shows 1 of 10 samples (10%) in year 2003 exceeded the percentile criterion.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A110 (Stillaguamish S.F. near Granite Falls) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 7 samples collected during 2001.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A110 (Stillaguamish S.F. near Granite Falls) shows a geometric mean of 6 does not exceed the criterion and that 9% of the samples does not exceed the percentile criterion from 11 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A110 (Stillaguamish S.F. near Granite Falls) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 14 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A110 (Stillaguamish S.F. near Granite Falls) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A110 (Stillaguamish S.F. near Granite Falls) shows a geometric mean of 9 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A110 (Stillaguamish S.F. near Granite Falls) shows a geometric mean of 10 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1996.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A110 (Stillaguamish S.F. near Granite Falls) shows a geometric mean of 8 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1995.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A110 (Stillaguamish S.F. near Granite Falls) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A110 (Stillaguamish S.F. near Granite Falls) shows a geometric mean of 11 does not exceed the criterion and that 22% of the samples exceeds the percentile criterion from 9 samples collected during 1993.

Remarks

Recent ambient monitoring data indicates that fecal coliform standards are being met. Listing will be placed in waters of concern category until further study and monitoring further verifies the status of the water as clean.

Changed from Category 1 to Category 2 on 01/12/05 due to consolidation with Listing ID 42795. -kk

Monitoring data in the past 8 years (since 1993) indicates that standards are being consistently met.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
5	**16688**	**2**	**Y**	**STILLAGUAMISH RIVER, S.F.**	**SN06ZT**	**0**	**31N**	**05E** 02	**Fecal Coliform**	**Water**

Hallock (2004), Dept. of Ecology ambient station 05A090 shows 1 of 12 samples (8.3%) in year 2002 exceeded the percentile criterion and 1 of 11 samples (9.1%) in year 2003 exceeded the percentile criterion.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A090 (Stillaguamish R. S.F. at Arlington) shows a geometric mean of 22 does not exceed the criterion and that 10% of the samples does not exceed the percentile criterion from 10 samples collected during 2001.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A090 (Stillaguamish R. S.F. at Arlington) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 13 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A090 (Stillaguamish R. S.F. at Arlington) shows a geometric mean of 11 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 13 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A090 (Stillaguamish R. S.F. at Arlington) shows a geometric mean of 16 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 16 samples collected during 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A090 (Stillaguamish R. S.F. at Arlington) shows a geometric mean of 15 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 13 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A090 (Stillaguamish R. S.F. at Arlington) shows a geometric mean of 24 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1996.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A090 (Stillaguamish R. S.F. at Arlington) shows a geometric mean of 27 does not exceed the criterion and that 8% of the samples does not exceed the percentile criterion from 12 samples collected during 1995.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A090 (Stillaguamish R. S.F. at Arlington) shows a geometric mean of 9 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A090 (Stillaguamish R. S.F. at Arlington) shows a geometric mean of 19 does not exceed the criterion and that 12% of the samples exceeds the percentile criterion from 8 samples collected during 1993.

Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TSFTWI (S FORK STILLY @ TWIN RIVERS PARK) shows the geometric mean of 69 does not exceed the criterion and that 25% of the samples exceeds the percentile criterion from 4 samples collected during 2001.

Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TSFTWI (S FORK STILLY @ TWIN RIVERS PARK) shows the geometric mean of 34 does not exceed the criterion and that 0% of the samples does not xceed the percentile criterion from 6 samples collected during 2000.

Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TSOUTH (SOUTH PASS) shows the geometric mean of 50 exceeds the criterion and that 100% of the samples exceeds the percentile criterion from 21 samples collected during 2001.

Recent ambient monitoring data indicates that fecal coliform standards are being met. Listing will be placed in waters of concern category until further study and monitoring further verifies the status of the water as clean.

Changed from Category 1 to Category 2 on 01/24/05 due to consolidation with Listing ID 42787 (cat 2). -kk

Monitoring data in the past 8 years (since 1993) indicates that standards are being consistently met.

5	**14608**	**2**	**N**	**STILLAGUAMISH RIVER, S.F.**	**SN06ZT**	**0**	**31N**	**05E** 02	**Mercury**	**Water**

Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TSFTWI (S FORK STILLY @ TWIN RIVERS PARK) shows 1 excursions beyond the criterion out of 6 samples collected between 08/00 - 11/01 .

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
5	**14610**	**2**	**N**	**STILLAGUAMISH RIVER, S.F.**	**SN06ZT**	**24.094**	**30N**	**06E**	**12**	**pH**	**Water**
				Data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TSFGRA (SOUTH FORK STILLY @ GRANITE FALLS) shows 1 excursions beyond the criterion out of 5 samples collected between 08/00 - 11/01 .							
5	**14612**	**2**	**Y**	**STILLAGUAMISH RIVER, S.F.**	**SN06ZT**	**0**	**31N**	**05E**	**02**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 05A090 shows that of 30 samples none exceed the criterion.						Monitoring in the past 10 years of data indicate one exceedance out of 68 samples collected between 1993-	
2001.											
				Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TSFTWI (S FORK STILLY @ TWIN RIVERS PARK) shows 1 excursions beyond the criterion out of 18 samples collected between 08/00 - 11/01.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 05A090 (N) shows 0 excursions beyond the criterion out of 50 samples collected between 1993 - 2001.							
5	**6440**	**2**	**N**	**STILLAGUAMISH RIVER, S.F.**	**SN06ZT**	**15.233**	**31N**	**06E**	**34**	**Temperature**	**Water**
				Department of Ecology unpublished data from the Stillaguamish TMDL Study shows a 7-day mean of daily maximum values of 17.5 for week ending 16 September 2001 at station 05SF03 (S.F. Stilly at Littlefiel).; Department of Ecology unpublished data from the Stillaguamish TMDL Study shows 2 excursions beyond the criterion out of 38 days collected.							
5	**15913**	**2**	**N**	**STILLAGUAMISH RIVER, S.F.**	**SN06ZT**	**0**	**31N**	**05E**	**02**	**Turbidity**	**Water**
				Hallock, 2002. shows 13 excursions beyond the criterion out of 83 samples collected between 1992 and 2001 derived by the difference between the upstream station 05A110 (SF Stilly nr Granite Falls) and the downstream station 05A090 (SF Stillaguamish @ Arlington).						Even though the data meet the policy, listing this segment under Category 5 is not recommended since there are also a number of cases where the turbidity at the upstream station is greater than the downstream station.	
5	**7255**	**2**	**N**	**TURLO CREEK**	**JW96MO**	**0**	**30N**	**08E**	**09**	**pH**	**Water**
				Stillaguamish Indian Tribal data (submitted by Don Klopfer on 8/4/95) show 2 excursions beyond the criterion on 1/19/94.						Multiple excursions beyond the criterion sampled within a	
24-										hour period are considered a single excursion per Water Quality Program Policy.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
5	**14527**	**2**	**N**	**UNNAMED CREEK**	**IE90YH 0.004 31N 04E 07**	**Dissolved oxygen**	**Water**

Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TWARUP (UPSTREAM OF EFFLUENT AT WARM BEACH) shows 6 excursions beyond the criterion measured on these dates: 01/05/09, 01/06/06, 01/07/11, 01/08/22, 01/09/19, 01/10/17,

Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TWARUS (ABOVE STABLES AT WARM BEACH) shows 0 excursions beyond the criterion out of 1 samples collected between 08/00 - 11/01 .
Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TWARUS (ABOVE STABLES AT WARM BEACH) shows 0 excursions beyond the criterion out of 1 samples collected between 08/00 - 11/01 .

Unpublished data from the Dept. of Ecology EIM database for the Project STILTMDL (STILLAGUAMISH TMDL) station 05TWARUP (UPSTREAM OF EFFLUENT AT WARM BEACH) shows 6 excursions beyond the criterion measured on these dates: 01/05/09, 01/06/06, 01/07/11, 01/08/22, 01/09/19, 01/10/17,

6	**10132**	**2**	**N**	**ADMIRALTY INLET (INNER)**	**390KRD 48122A6D1 48.035 122.615**	**pH**	**Water**

Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station ADM001 (ADMIRALTY INLET - BUSH PT.) shows 2 excursions beyond the criterions out of 74 samples collected between 1993-2000

6	**22456**	**2**	**N**	**CRANBERRY LAKE**	**547CFM 16N 03E 01**	**Total Phosphorus**	**Water**

Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 30 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.

Listing ID 18899 rolled in to this listing. 04/20/04 -kk

Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 32 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.

Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.

6	**22597**	**2**	**N**	**CROCKETT LAKE**	**304OFN 34N 01E 22**	**Total Phosphorus**	**Water**

Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 359 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.

6	**22457**	**2**	**N**	**DEER LAKE**	**057YXW 30N 41E 11**	**Total Phosphorus**	**Water**

Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.
O'Neal et al. (2001) concludes that designated uses are not being supported and that total phosphorus levels exceed the recommended lake-specific criterion..

Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 10 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Northern Rockies Ecoregion.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
6	**10127**	**2**	**N**	**HOLMES HARBOR**	**390KRD**	**48122A5G3**	**48.065**	**122.535**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station HLM001 (Holmes Harbor - Honeymoon Bay) shows 10 excursions beyond the criterions out of 10 samples collected between 1993-2000					This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern). These excursions beyond the criterion are a natural condition with no direct human-caused influence due to natural variations in the marine environment, based on the 11/03 judgment of Jan Newton (Dept. of Ecology).	
6	**10128**	**2**	**N**	**HOLMES HARBOR**	**390KRD**	**48122A5G3**	**48.065**	**122.535**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station HLM001 (Holmes Harbor - Honeymoon Bay) shows 1 excursions beyond the criterions out of 10 samples collected between 1993-2000						
6	**22599**	**2**	**N**	**KRISTOFERSON LAKE**	**733QCJ**	**32N**	**03E**	**30**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 34 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
6	**22600**	**2**	**N**	**LONE LAKE**	**096RNO**	**29N**	**03E**	**07**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 73 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
6	**22458**	**2**	**N**	**OLIVER LAKE**	**729CBN**	**29N**	**02E**	**23**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
6	**10135**	**2**	**Y**	**SARATOGA PASSAGE**	**390KRD**	**48122B4A8**	**48.105**	**122.485**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station SAR003 (Saratoga Passage - East Point) shows 45 excursions beyond the criterions out of 86 samples collected between 1993-2000					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that this location does not suggest that the exceedances are the result of anthropogenic inputs. The site is located in an area that is typically well mixed and is not expected to be subject to loclized degrdaion of D.O. levels. Agree with earlier Ecology decision that these exceedances are a natural condition. These excursions beyond the criterion are a natural condition with no direct human caused influence based on the 6/97 judgement of John Glynn (Dept. of Ecology).	
6	**10139**	**2**	**Y**	**SKAGIT BAY AND SIMILK BAY**	**390KRD**	**48122C4J8**	**48.295**	**122.485**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station SKG003 (Skagit Bay - Str. Point Red Buoy) shows 13 excursions beyond the criterions out of 30 samples collected between 1993-2000					This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern).	
6	**10140**	**2**	**N**	**SKAGIT BAY AND SIMILK BAY**	**390KRD**	**48122C4J8**	**48.295**	**122.485**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station SKG003 (Skagit Bay - Str. Point Red Buoy) shows 1 excursions beyond the criterions out of 21 samples collected between 1993-2000						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
7	7259	2	Y	**ALLEN CREEK** Cusimano, 1995. 2 excursions beyond the criterion on 8/16/93 and 8/17/93.	YT94RF	0	30N	05E	33	Dissolved oxygen	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	Water
7	7392	2	N	**ALLEN CREEK** Snohomish County unpublished data from station ACLD (AT 4TH ST. IN MARYSVILLE) show 2 excursions beyond the criterion from 54 measurements collected 1998-2002. Cusimano (1997) station Snodry25 (Allen Creek (ALL20)) shows 0 excursions beyond the criterion out of 3 samples collected between 02/96 - 04/96. Johnson et al. 2001 show no excursions beyond the criterion at station ACLD from 5 measurements collected in 2000-2001.	YT94RF	1.692	30N	05E	28	pH	Changed from Category 1 to Category 2 on 01/18/05 due to consolidation with Listing ID 40925. -kk	Water
7	41119	2	N	**ALLEN CREEK** Erickson, D. and Matthews, W., (2002), station BECM2.6T shows 1 samples exceeded the criterion in year 1999.	XO13OJ	0	16N	02W	06	Temperature		Water
7	35373	2	N	**BEAR CREEK** Port Blakely Tree Farms unpublished data from station BC6 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursions beyond the criterion from 4 measurements collected in 2001-2002.	PU11QS	4.749	28N	08E	22	pH		Water
7	22463	2	N	**BEECHER LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	191WCD	27N	06E	07		Total Phosphorus	Snohomish County's 2003 State of the Lakes Report identifies the lake as "at risk" of impairment. Summer epilimnetic total phosphorus concentrations exceed 20ug/l. The lake suffers from nuisance algal blooms in response to elevated nutrient levels.	Water
7	22460	2	N	**BLACK LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 32 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion. (King Co)	255BIG	25N	08E	13		Total Phosphorus		Water
7	22609	2	N	**BRIDGES LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 15 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.	736OPL	25N	08E	35		Total Phosphorus		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					**Remarks**	
7	**22465**	**2**	**N**	**CASSIDY LAKE**	**019OJJ**	**30N**	**06E**	**31**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.					Snohomish County's 2003 State of the Lakes Report identifies the lake as "in need of restoration". Nutrient levels are high with summer epilimnetic total phosphorus concentrations consistently exceeding 20ug/l. Although high nutrient levels may be a natural condition for this lake, the lake experiences regular, nuisance algal blooms.	
7	**40930**	**2**	**N**	**CATHERINE CREEK**	**OW89ST**	**4.713**	**30N**	**06E**	**31**	**pH**	**Water**
				Snohomish County unpublished data from station CATH (AT MOUTH) show 1 excursion beyond the criterion from 46 measurements collected 1998-2002.							
7	**17496**	**2**	**N**	**CEMETERY CREEK**	**OR69ZS**	**0**	**28N**	**05E**	**12**	**Dissolved oxygen**	**Water**
				Friends of Cemetery Creek Watershed unpublished data for station CC4 show excrusions beyond the criterion in measurements collected in 2001-2002.							
7	**17498**	**2**	**N**	**CEMETERY CREEK**	**OR69ZS**	**0**	**28N**	**05E**	**12**	**pH**	**Water**
				Friends of Cemetery Creek Watershed unpublished data for station CC4 show excrusions beyond the criterion inmeasurements collected in 2001-2002.							
7	**22612**	**2**	**N**	**CHAIN LAKE**	**049EPS**	**28N**	**06E**	**24**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 32 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 15.3 ug/L in 1985 which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.					Snohomish County's State of the Lakes Report identifies the lake as "healthy". Summer epilimnetic total phosphorus concentrations occasionally exceed 20 ug/l. Moderate to high nutrient levels appear to be the natural condition for this lake. The lake experiences occasional nuisance algal blooms.	
7	**6319**	**2**	**N**	**CRABAPPLE LAKE**	**113EYQ**	**31N**	**04E**	**34**	**Fecal Coliform**	**Water**
				Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entranco Engineers, 1986. Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entranco Engineers, 1986.					Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment. These data are more than 20 years old and there are no recent data to justify adding this Category 5 listing. In addition there is no anecdotal evidence to show that fecal bacteria are a continuing problem for this lake (per Snohomish County Surface Water Management).	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
7	**6330**	**2**	**N**	**CRABAPPLE LAKE**	**113EYQ**	**31N**	**04E**	**34**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 17 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entranco Engineers, 1986. Snohomish County unpublished data show summer mean epilimnetic total phosphorus did not exceed the water quality standards nutrient criterion from samples collected between 1996-2002.					Listing ID 22615 rolled into this listing 04/06/04 -kk Listing was changed to a Category 2 based on data not exceeding standards.	
7	**7399**	**2**	**N**	**DEADWATER SLOUGH**	**PJ26IK**	**0.553**	**29N**	**05E** **28**	**Temperature**	**Water**
				Cusimano (1997) station Snodry19 (Deadwater Slough (DED19)) shows 3 excursions beyond the criterion measured on these dates: 93/08/17, 96/08/27, 96/08/28,						
7	**22560**	**2**	**N**	**DEVILS LAKE**	**844CTR**	**23N**	**04E**	**12**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 10 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.					Snohomish County's 2003 State of the Lakes Report identifies the lake as "at risk" of future impairment. Summer epilimnetic total phosphorus concentrations occasionally exceed 20 ug/l. Modeate to high nutrient levels appear to be the natural condition for this lake. The lake does experience nuisance algal blooms.	
7	**40816**	**2**	**N**	**DUBUQUE CREEK**	**RE52YG**	**0**	**29N**	**06E** **21**	**pH**	**Water**
				Snohomish County unpublished data from station DUBQ (AT MOUTH) show 4 excursions beyond the criterion from 46 measurements collected 1998-2002.						
7	**9797**	**2**	**Y**	**EBEY SLOUGH**	**PR16VH**	**0**	**30N**	**05E** **32**	**Fecal Coliform**	**Water**
				Cusimano (1997) station Snodry27 (Ebbey Slough (EBE27)) shows the geometric mean of 215 exceeds the criterion and that 50 % of the samples exceeds the percentile criterion from 2 samples collected during 1993.					This waterbody segment was incorreclty assessed and does not meet listing criteria for bacteria in WQ Policy 1-11, which indicates that a geometric mean cannot be computed with less than 5 samples. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.	
7	**9798**	**2**	**N**	**EBEY SLOUGH**	**PR16VH**	**1.072**	**30N**	**05E** **33**	**Fecal Coliform**	**Water**
				Cusimano (1997) station Snodry26 (Ebbey Slough (EBE26)) shows the geometric mean of 133 exceeds the criterion and that 0 % of the samples does not exceed the percentile criterion from 2 samples collected during 1993.; ;						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
7	9266	2	N	**EBEY SLOUGH**	PR16VH	3.619	29N	05E	03	Temperature		Water
				Cusimano (1997) station Snodry24 (Ebbey Slough (EBE24)) shows 4 excursions beyond the criterion measured on these dates: 93/08/16, 93/08/17, 96/08/27, 96/08/28,								
7	9267	2	N	**EBEY SLOUGH**	PR16VH	1.072	30N	05E	33	Temperature		Water
				Cusimano (1997) station Snodry26 (Ebbey Slough (EBE26)) shows 4 excursions beyond the criterion measured on these dates: 93/08/16, 93/08/17, 96/08/27, 96/08/28,								
7	9268	2	N	**EBEY SLOUGH**	PR16VH	9.832	29N	05E	14	Temperature		Water
				Cusimano (1997) station Snodry23 (Ebbey Slough (EBE23)) shows 3 excursions beyond the criterion measured on these dates: 93/08/16, 96/08/27, 96/08/28,								
7	9269	2	N	**EBEY SLOUGH**	PR16VH	0	30N	05E	32	Temperature		Water
				Cusimano (1997) station Snodry27 (Ebbey Slough (EBE27)) shows 3 excursions beyond the criterion measured on these dates: 93/08/17, 96/08/27, 96/08/28,								
7	7334	2	Y	**EBEY SLOUGH**	PR16VH	1.072	30N	05E	33	Water Column Bioassay		Water
				Hoyle-Dodson, 1997: based on chronic fathead minnow bioassay a reasonable potential exits for chronic conditions in the receiving water.							Listing was not based on exceedance of actual data but aon assumptions derived from a tissue bioassay; water will be placed on Waters of Concern category until further verificaiton is done.	
7	22624	2	N	**FRANCIS LAKE**	806NPV	25N	11E	29		Total Phosphorus		Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 15 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.								
7	10642	2	N	**FRENCH CREEK**	XZ24XU	1.974	28N	06E	29	Ammonia-N		Water
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 07R050 (French Cr nr Mouth) shows 1 excursions beyond the criterion out of 6 samples collected between 1993 - 2001								
7	7278	2	Y	**FRENCH CREEK**	XZ24XU	0	28N	06E	30	Dissolved oxygen		Water
				Cusimano (1997) station Snodry12 (French Creek (FRN12)) shows 2 excursions beyond the criterion measured on these dates: 93/08/16, 93/08/17,							This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
7	7282	2	N	**FRENCH CREEK** Thornburgh, et al. 1991. , 8 excursions beyond the criterion out of 58 samples at RM 4.75, between 8/87 and 11/90.	XZ24XU 6.452 28N 06E 27	pH	Water	
7	7275	2	N	**FRENCH CREEK** Thornburg, 1996. , 1 excursion beyond criterion out of 45 samples (2%) at station FCLD between 1992 and 1997.	XZ24XU 6.452 28N 06E 27	Temperature	Water	
7	40932	2	N	**FRENCH CREEK** Snohomish County unpublished data from station FCLD (AT PRIVATE BRIDGE ON DARLINGTON FARM OFF OLD SNOHOMISH MONROE HWY) show excursions beyond the criterion from measurements collected in 1998.	XZ24XU 0.575 28N 06E 19	Temperature	Water	
7	6320	2	N	**GOODWIN LAKE** Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entranco Engineers, 1986. Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entranco Engineers, 1986.	576OJP 31N 04E 33	Fecal Coliform	Water	Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment. These data are more than 20 years old and there are no recent data to justify adding this Category 5 listing. In addition there is no anecdotal evidence to show that fecal bacteria are a continuing problem for this lake (per Snohomish County Surface Water Management).
7	35291	2	N	**HULL LAKE** Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 22 ug/L in 1985 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	756RGG 25N 08E 09	Total Phosphorus	Water	
7	22636	2	N	**KLAUS LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 13 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.	950VBI 24N 08E 11	Total Phosphorus	Water	
7	40817	2	N	**LITTLE PILCHUCK CREEK** Snohomish County unpublished data from station LPIL (AT MOUTH) show 5 excursions beyond the criterion from 46 measurements collected 1998-2002.	EB60PD 0.637 29N 06E 16	pH	Water	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
7	**6321**	**2**	**N**	**LOMA LAKE**	**732XDD 31N 04E 35**	**Fecal Coliform**	**Water**
				Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: recycling, fecal coliform bacteria. Entranco Engineers, 1986.	Blue-green algae, low dissolved oxygen, sediment phosphorus	Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment. These data are more than 20 years old. Snohomish County has no anecdotal evidence to show that fecal bacteria are a continuing problem in the lake.	
7	**21556**	**2**	**N**	**MARCEL LAKE**	**526HXA 26N 07E 33**	**Total Phosphorus**	**Water**
				King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus exceeded the water quality standards nutrient criterion in 2001 from samples collected between 2000-2002.			
7	**9277**	**2**	**N**	**MARSHLANDS**	**XW79FQ 0 28N 05E 04**	**Dissolved oxygen**	**Water**
				Cusimano (1997) station Snodry17 (Marshland (MAR17)) shows 1 excursions beyond the criterion measured on these dates: 93/08/16, Cusimano (1997) station MLDN (MARSHLAND DRAINAGE (MLDN)) shows 5 excursions beyond the criterion measured on these dates: 96/02/13, 96/02/27, 96/03/12, 96/03/26, 96/04/09,			
7	**9279**	**2**	**N**	**MARSHLANDS**	**XW79FQ 6.582 28N 05E 23**	**Dissolved oxygen**	**Water**
				Cusimano (1997) station MLUP (MARSHLAND DRAINAGE (MLUP)) shows 4 excursions beyond the criterion measured on these dates: 96/02/13, 96/03/12, 96/03/26, 96/04/09,			
7	**9281**	**2**	**N**	**MARSHLANDS**	**XW79FQ 0 28N 05E 04**	**Temperature**	**Water**
				Cusimano (1997) station Snodry17 (Marshland (MAR17)) shows 1 excursions beyond the criterion measured on these dates: 96/08/27, Cusimano (1997) station MLDN (MARSHLAND DRAINAGE (MLDN)) shows 0 excursions beyond the criterion out of 5 samples collected between 02/96 - 04/96 . Cusimano (1997) station MLDN (MARSHLAND DRAINAGE (MLDN)) shows 0 excursions beyond the criterion out of 5 samples collected between 02/96 - 04/96 . Cusimano (1997) station Snodry17 (Marshland (MAR17)) shows 1 excursions beyond the criterion measured on these dates: 96/08/27,			
7	**4663**	**2**	**N**	**NINA LAKE**	**387CUG 31N 05E 32**	**INVASIVE EXOTIC SPECIES**	**Habitat**
				Ecology survey (Parsons and O'Neal, 2000) found parrotfeather (Myriophyllum aquaticum)		Snohomish County's 2003 State of the Lakes Report states that field surveys have not found any parrotfeather milfoil in the lake for several years. Changed from Category 4C. If continued monitoring supports finding of no parrotfeather, then the listing may be inactivated.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
7	**40965**	**2**	**N**	**NINA LAKE**	**387CUG**	**31N**	**05E**	**32**		**Total Phosphorus**	**Water**
				Snohomish County 2003 State of the Lake Report identifies the lake as "at risk" of impairment. Summer epilimnetic total phosphorus concentrations are consistently below 20 ug/l, however, shallow portions of the lake suffer from nuisance algal blooms throughout the summer.						This is a man made lake resulting from excavation to provide fill for freeway construction. -kk	
7	**35329**	**2**	**N**	**OLNEY CREEK**	**NI13PB**	**1.13**	**28N**	**08E**	**25**	**pH**	**Water**
				Port Blakely Tree Farms unpublished data from station OL1 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursion beyond the criterion from 4 measurements collected in 2001-2002.							
7	**35330**	**2**	**N**	**OLNEY CREEK**	**NI13PB**	**7.209**	**28N**	**08E**	**14**	**pH**	**Water**
				Port Blakely Tree Farms unpublished data from station OL3 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursion beyond the criterion from 4 measurements collected in 2001-2002.							
7	**10639**	**2**	**N**	**PATTERSON CREEK**	**UD50FI**	**0**	**24N**	**07E**	**04**	**Dissolved oxygen**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 07P070 (Patterson Ck nr Fall City) shows 1 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 measured on these dates: 95/10/16,							
7	**7286**	**2**	**N**	**PATTERSON CREEK**	**HI31XG**	**0**	**24N**	**07E**	**04**	**pH**	**Water**
				Thornburgh, et al. 1991. , 2 excursions beyond the criterion out of 58 samples at RM 1.0 between 8/87 and 11/90.							
7	**7290**	**2**	**N**	**PATTERSON CREEK**	**TI36PU**	**0**	**24N**	**07E**	**08**	**pH**	**Water**
				Thornburgh, et al. 1991. , 8 excursions beyond the criterion out of 58 samples at RM 2.0, between 8/87 and 11/90.							
7	**7291**	**2**	**N**	**PILCHUCK RIVER**	**NF79WA**	**1.643**	**28N**	**06E**	**18**	**pH**	**Water**
				Snohomish County unpublished data from station PILR (AT SNOHOMISH ON 6TH ST.) show 2 excursions beyond the criterion from 46 measurements collected 1998-2002. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 07B055 (Pilchuck R @ Snohomish) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001. Thornburgh, et al. 1991, 4 excursions beyond the criterion out of 58 samples at RM 1.8 between 8/87 and 11/90.						Consolidated with Listing IDs 10622 and 40797 on 7/14/05. -kk	
7	**10620**	**2**	**N**	**PILCHUCK RIVER**	**NF79WA**	**1.643**	**28N**	**06E**	**18**	**Temperature**	**Water**
				Snohomish County unpublished data from station PILR (AT SNOHOMISH ON 6TH ST.) show excursions beyond the criterion from measurements collected in 2001. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 07B055 (Pilchuck R @ Snohomish) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001.						Combined with Listing ID 40796. 09/08/04 -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
7	**14721**	**2**	**N**	**PILCHUCK RIVER**	**NF79WA**	**0**	**28N**	**06E**	**19**	**Temperature**	**Water**
				Cusimano (1997) station Snodry13 (Pilchuck River (PIL13)) shows 1 excursions beyond the criterion measured on these dates: 96/08/27, Cusimano (1997) station PRDN (PILCHUCK RIVER (PRDN)) shows 0 excursions beyond the criterion out of 5 samples collected between 02/96 - 04/96 . Cusimano (1997) station PRDN (PILCHUCK RIVER (PRDN)) shows 0 excursions beyond the criterion out of 5 samples collected between 02/96 - 04/96 . Cusimano (1997) station Snodry13 (Pilchuck River (PIL13)) shows 1 excursions beyond the criterion measured on these dates: 96/08/27,							
7	**9840**	**2**	**N**	**PORT GARDNER AND INNER EVERETT HARBOR**	**390KRD**	**48122A2B1**	**48.015**	**122.215**		**Fecal Coliform**	**Water**
				Cusimano (1997) station Snodry34 (Port Gardner (POG34)) shows the geometric mean of 28 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 2 samples collected during 1993.; ;							
7	**10155**	**2**	**Y**	**POSSESSION SOUND (NORTH)**	**390KRD**	**48122A2B9**	**48.015**	**122.295**		**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station PSS019 (Possession Sound - Gedney Island) shows 55 excursions beyond the criterions out of 88 samples collected between 1993-2000						This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern).	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
7	**15706**	**2**	**N**	**POSSESSION SOUND (NORTH)**	**390KRD**	**48122A2B9**	**48.015**	**122.295**	**Fecal Coliform**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSS019 (Possession Sound - Gedney Island) shows a geometric mean of 15 exceeds the criterion and that 0% of the samples does not exceed the percentile criterion from 1 samples collected during 1991.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSS019 (Possession Sound - Gedney Island) shows a geometric mean of 14 does not exceed the criterion and that 17% of the samples exceed the percentile criterion from 6 samples collected during 1992, with only 1 sample that exceeds the percentile criterion..Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSS019 (Possession Sound - Gedney Island) shows a geometric mean of 11 does not exceed the criterion and that 25% of the samples exceed the percentile criterion from 4 samples collected during 1993, with only 1 sample that exceeds the percentile criterion..Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSS019 (Possession Sound - Gedney Island) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 1994.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSS019 (Possession Sound - Gedney Island) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1995.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSS019 (Possession Sound - Gedney Island) shows a geometric mean of 10 does not exceed the criterion and that 25% of the samples exceed the percentile criterion from 4 samples collected during 1996, with only 1 sample that exceeds the percentile criterion..Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSS019 (Possession Sound - Gedney Island) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1997.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSS019 (Possession Sound - Gedney Island) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1998.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSS019 (Possession Sound - Gedney Island) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 1999.						
7	**10151**	**2**	**N**	**POSSESSION SOUND (SOUTH)**	**390KRD**	**47122J2I2**	**47.985**	**122.225**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station PSS008 (Possession Sound - PG Bay Pier 3) shows 4 excursions beyond the criterions out of 19 samples collected between 1993-2000						
7	**15705**	**2**	**N**	**POSSESSION SOUND (SOUTH)**	**390KRD**	**47122J2I2**	**47.985**	**122.225**	**Fecal Coliform**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSS008 (Possession Sound - PG Bay Pier 3) shows a geometric mean of 43 exceeds the criterion and that 0% of the samples does not exceed the percentile criterion from 1 samples collected during 1994.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSS008 (Possession Sound - PG Bay Pier 3) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 7 samples collected during 1995.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSS008 (Possession Sound - PG Bay Pier 3) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1997.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSS008 (Possession Sound - PG Bay Pier 3) shows a geometric mean of 19 exceeds the criterion and that 25% of the samples exceed the percentile criterion from 4 samples collected during 1998, with only 1 sample that exceeds the percentile criterion..						
7	**7296**	**2**	**Y**	**QUILCEDA CREEK**	**SR79YG**	**0**	**31N**	**05E** **34**	**Dissolved oxygen**	**Water**
				Thornburgh, et al. 1991. 7 excursions beyond the criterion at Middle Fork RM 2.0, between 8/87 and 11/90.					Information submitted is insufficient to support a Category 5 listing. No raw data appear in the reference so actual data assessment could not occur.	
7	**7299**	**2**	**Y**	**QUILCEDA CREEK**	**LY43NC**	**1.337**	**31N**	**05E** **29**	**Dissolved oxygen**	**Water**
				Thornburgh, et al. 1991. 13 excursions beyond the criterion at West Fork RM 4.0 between 8/87 and 11/90.					Information submitted is insufficient to support a Category 5 listing. No raw data appear in the 1991 reference so actual data assessment could not occur.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
7	**7300**	**2**	**Y**	**QUILCEDA CREEK**	**TH58TS**	**0.858**	**30N**	**05E**	**29**	**Dissolved oxygen**	**Water**
				Cusimano, 1995. 2 excursions beyond the criterion on 8/16/93 and 8/17/93. Cusimano (1997) station Snodry28 (QUILICEDA CREEK (QIL28)) shows 0 excursions beyond the criterion out of 4 samples collected between 02/96 - 04/96. Cusimano (1997) station Snodry28 (QUILICEDA CREEK (QIL28)) shows 0 excursions beyond the criterion out of 4 samples collected between 02/96 - 04/96.						More recent data from Ecology monitoring shows that temperature standards are being met. Because 2 excursions from 1993 may indicate problems, this water will be consisdered a water of concern.	
7	**7302**	**2**	**N**	**QUILCEDA CREEK**	**TH58TS**	**4.141**	**30N**	**05E**	**21**	**Dissolved oxygen**	**Water**
				Thornburgh, 1996. , 22% of samples collected between 1992 -1995 show excursions beyond criterion at station QCLD. Johnson et al. 2001 show no excursions beyond the criterion at station QCLD in 2000 and 2001. Johnson et al. 2001 show no excursions beyond the criterion at station QCLD in 2000 and 2001. Thornburgh, 1996. , 22% of samples collected between 1992 -1995 show excursions beyond criterion at station QCLD.						Information submitted is insufficient to support a Category 5 listing.	
7	**9816**	**2**	**N**	**QUILCEDA CREEK**	**TH58TS**	**0.858**	**30N**	**05E**	**29**	**Fecal Coliform**	**Water**
				Cusimano (1997) station Snodry28 (QUILICEDA CREEK (QIL28)) shows the geometric mean of 868 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 2 samples collected during 1993.; ;						Snohomish River Tributaries Fecal Coliform TMDL approved 09-Aug-01.	
7	**7301**	**2**	**Y**	**QUILCEDA CREEK, M.F.**	**MM28XN**	**3.996**	**31N**	**05E**	**27**	**Dissolved oxygen**	**Water**
				Thornburgh, 1996, 17% of samples collected between 1992 - 1995 show excursions beyond criterion at station QCLU.						Information submitted is insufficient to support a Category 5 listing. No raw data appear in the reference so actual data assessment could not occur.	
7	**9807**	**2**	**N**	**QUILCEDA CREEK, M.F.**	**MM28XN**	**2.283**	**31N**	**05E**	**34**	**Fecal Coliform**	**Water**
				Garrigues (1996) station QCRMF2 (QUILCEDA MIDDLE FORK CENTER) shows the geometric mean of 174 exceeds the criterion and that 67 % of the samples exceeds the percentile criterion from 3 samples collected during 1995.; ;						Snohomish River Tributaries Fecal Coliform TMDL approved 09-Aug-01.	
7	**10609**	**2**	**Y**	**RAGING RIVER**	**GU12TT**	**0.608**	**24N**	**07E**	**15**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 07Q070 shows that of 1 sample none exceeded the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 07Q070 (Raging R @ Fall City) shows 1 excursions beyond the criterion out of 21 samples collected between 1992 - 2001. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 07Q070 (Raging R @ Fall City) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001.						A reassessment of Ecology ambient monitoring data between 1992 and 2001 indicates one exceedance of pH.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		**Remarks**	
7	**22659**	**2**	**N**	**SERENE LAKE**	**912VBP 28N 04E 34**	**Total Phosphorus**	**Water**
				Snohomish County unpublished data show summer mean epilimnetic total phosphorus did not exceed the water quality standards nutrient criterion from samples collected between 1996-2002. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 10 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.		Changed from Category 1 to Categorry 2 on 02/01/05. Snohomish County 2003 State of the Lakes Reports identifies this lake as "at risk" of impairment. Summer epilimnetic total phosphorus concentrations are consistently below 20 ug/L, with a few higher spikes. The lake supports dense concentrations of aquatic plants. There is a risk of the lake switching from a plant-dominated to an algae-dominated state if nutrient inputs increase. -kk	
7	**6326**	**2**	**N**	**SHOECRAFT LAKE**	**471OUJ 31N 04E 33**	**Fecal Coliform**	**Water**
				Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entranco Engineers, 1986. Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, fecal coliform bacteria. Entranco Engineers, 1986.		These data are more than 20 years old and there are no recent data to justify adding this Category 5 listing. In addition there is no anecdotal evidence to show that fecal bacteria are a continuing problem for this lake (per Snohomish County Surface Water Management). -kk Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.	
7	**4665**	**2**	**N**	**SHOECRAFT LAKE**	**471OUJ 31N 04E 33**	**INVASIVE EXOTIC SPECIES**	**Habitat**
				Ecology survey (Parsons and O'Neal, 2000) found Eurasian water-milfoil (Myriophyllum spicatum)		Snohomish County's 2003 State of the Lakes Report states that since implementation of a herbicide lake treatment in 2000, repeated diving surveys have not found any Eurasioan watermilfoil in the lake. Changed from Category 4C to Category 2. 06/01/04 -kk.	
7	**7978**	**2**	**Y**	**SKYKOMISH RIVER**	**AO37WJ 5.546 27N 06E 12**	**Copper**	**Water**
				Golding, 1996: The copper criterion is exceeded at the acute mixing zone boundary of the Monroe WWTP Discharge.		Johnson, 2001, provides rationale that these samples are not representative of the current effluent quality. Listing was not based on exceedance of actual data in receiving water; water will be placed on Waters of Concern category until further verificaiton is done.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
7	**16694**	**2**	**Y**	**SKYKOMISH RIVER**	**AO37WJ**	**37.278**	**27N**	**09E**	**09**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 07C120 meets tested standards for fecal coliform. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 07C120 (Skykomish R near Goldbar) shows a geometric mean of 9 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 2000.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 07C120 (Skykomish R near Goldbar) shows a geometric mean of 8 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 2001, with only 1 sample that exceeds the percentile criterion.						This waterbody segment does not meet listing criteria for bacteria in WQ Policy 1-11, which requires that when the exceedances are based on a percentile critieron, you must have a minimum of 10% and at least 2 samples exceeding the criteria. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.	
7	**7980**	**2**	**Y**	**SKYKOMISH RIVER**	**AO37WJ**	**5.546**	**27N**	**06E**	**12**	**Lead**	**Water**
				Golding, 1996: The lead criterion is exceeded at the chronic mixing zone boundary of the Monroe WWTP Discharge.						Johnson, 2001, provides rationale that these samples are not representative of the current effluent quality. Listing was not based on exceedance of actual data in receiving water; water will be placed on Waters of Concern category until further verificaiton is done.	
7	**7979**	**2**	**Y**	**SKYKOMISH RIVER**	**AO37WJ**	**5.546**	**27N**	**06E**	**12**	**Silver**	**Water**
				Golding, 1996: The silver criterion is exceeded at the acute mixing zone boundary of the Monroe WWTP Discharge.						Johnson, 2001, provides rationale that these samples are not representative of the current effluent quality. Listing was not based on exceedance of actual data in receiving water; water will be placed on Waters of Concern category until further verificaiton is done.	
7	**9824**	**2**	**N**	**SNOHOMISH RIVER**	**JX50OE**	**10.293**	**28N**	**05E**	**11**	**Fecal Coliform**	**Water**
				Cusimano (1997) station Snodry15 (Snohomish River (SNO15)) shows the geometric mean of 150 exceeds the criterion and that 0 % of the samples does not exceed the percentile criterion from 2 samples collected during 1993.; ;						Snohomish River Tributaries Fecal Coliform TMDL approved 09-Aug-01.	
7	**7312**	**2**	**Y**	**SNOHOMISH RIVER**	**JX50OE**	**14.013**	**28N**	**06E**	**18**	**Temperature**	**Water**
				Cusimano (1997) station Snodry14 (Snohomish River (SNO14)) shows 0 excursions beyond the criterion out of 4 samples collected between 02/96 - 04/96. Thornburgh, et al. 1991. , 2 excursions beyond the criterion at RM13.0 between 8/87 and 11/90						More recent monitoring data from 1996 shows that temperature standards are being met. Earlier monitoring data indicates two excursions, which are insufficient to determine impairment in accordance with WQ Policy 1-11. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
7	**10618**	**2**	**N**	**SNOHOMISH RIVER**	**JX50OE**	**12.243**	**28N**	**05E**	**13**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 07A090 (SNOHOMISH RIVER AT SNOHOMISH) shows 3 excursions beyond the criterion out of 61 samples collected between 1993 - 2001 measured on these dates: 94/07/19, 94/08/16, 95/07/17,							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
7	14709	2	N	**SNOHOMISH RIVER**	JX50OE	18.364	28N	06E	31	Temperature		Water
				Cusimano (1997) station Snodry10 (Snohomish River (SNO10)) shows 1 excursions beyond the criterion measured on these dates: 96/08/27,								
7	14710	2	N	**SNOHOMISH RIVER**	JX50OE	16.678	28N	06E	30	Temperature		Water
				Cusimano (1997) station Snodry11 (Snohomish River (SNO11)) shows 1 excursions beyond the criterion measured on these dates: 96/08/27,								
7	14711	2	N	**SNOHOMISH RIVER**	JX50OE	10.293	28N	05E	11	Temperature		Water
				Cusimano (1997) station Snodry15 (Snohomish River (SNO15)) shows 1 excursions beyond the criterion measured on these dates: 96/08/27,								
7	14712	2	N	**SNOHOMISH RIVER**	JX50OE	5.156	28N	05E	04	Temperature		Water
				Cusimano (1997) station Snodry16 (Snohomish River (SNO16)) shows 2 excursions beyond the criterion measured on these dates: 96/08/27, 96/08/28,								
7	14713	2	N	**SNOHOMISH RIVER**	JX50OE	1.17	29N	05E	29	Temperature		Water
				Cusimano (1997) station Snodry18 (Snohomish River (SNO18)) shows 2 excursions beyond the criterion measured on these dates: 96/08/27, 96/08/28,								
7	14752	2	N	**SNOHOMISH RIVER**	YS20QN	4.108	29N	05E	21	Temperature		Water
				Cusimano (1997) station Snodry20 (Snohomish River (SNO20)) shows 2 excursions beyond the criterion measured on these dates: 96/08/27, 96/08/28,								
7	7419	2	N	**SNOQUALMIE RIVER**	QW73YS	10.09	26N	07E	06	pH		Water
				Thornburgh, et al. 1991. , 6 excursions beyond the criterion out of 58 samples at RM 7.0, between 8/87 and 11/90.;								
7	7410	2	Y	**SNOQUALMIE RIVER**	QW73YS	23.084	26N	06E	26	Temperature		Water
				Joy, 1991. , 2 excursions beyond the criterion at RM 14.7 between 7/89 and 9/89.							The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
7	7423	2	N	**SNOQUALMIE RIVER**	QW73YS	67.897	24N	08E	33	Temperature		Water
				Lane, 1993. 2 excursions beyond the criterion out of 11 samples (18%) at RM 44 in 1991 and 1992.								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
7	7425	2	Y	**SNOQUALMIE RIVER** Lane, 1993. 3 excursions beyond the criterion out of 9 samples (33%) at RM 36 in 1991 and 1992.	QW73YS	56.872	24N	07E	14	Temperature	Water	The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.
7	7426	2	N	**SNOQUALMIE RIVER** Puget Power, 1991. temperatures ranged from 8.8 to 19.4 during 1990.	QW73YS	69.768	24N	08E	34	Temperature	Water	The cited reference does not contain raw data. Waterbody name updated from Snoqualmie River, M.F. to Snoqualmie River. WBID updated from WA-07-1140 to WA-07-1110 4/29/04 -kk
7	7430	2	Y	**SNOQUALMIE RIVER, S.F.** South Fork Resources, 1983. 2 excursions beyond the criterion at RM 13.6 on 8/3/82 and 3/3/83.	UC46QU	20.932	23N	09E	34	pH	Water	This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
7	7427	2	Y	**SNOQUALMIE RIVER, S.F.** Numerous excursions beyond the criterion sampled by USGS at the Garcia station (RM 17.3) during 1979 and 1980.	UC46QU	27.329	22N	10E	06	Temperature	Water	The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water. This listing was based on data pulled from STORET. In the process, only the number of excursion were requested. No comparison exists between the number samples and the number of excursions because the number of samples is unknown. -kk
7	9829	2	N	**STEAMBOAT SLOUGH** Cusimano (1997) station Snodry30 (Steamboat Slough (STM30)) shows the geometric mean of 105 exceeds the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1993.	SU28KJ	5.108	29N	05E	15	Fecal Coliform	Water	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
7	**7389**	**2**	**N**	**STEAMBOAT SLOUGH**	**390KRD**	**48122A2D0**	**48.035**	**122.205**	**Temperature**	**Water**
				Cusimano (1997) station Snodry32 (STEAMBOAT SLOUGH (STM32)) shows 4 excursions beyond the criterion measured on these dates: 93/08/16, 93/08/17, 96/08/27, 96/08/28,					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
7	**14737**	**2**	**N**	**STEAMBOAT SLOUGH**	**SU28KJ**	**1.048**	**29N**	**05E**	**Temperature**	**Water**
				Cusimano (1997) station Snodry31 (Steamboat Slough (STM31)) shows 4 excursions beyond the criterion measured on these dates: 93/08/16, 93/08/17, 96/08/27, 96/08/28,						
7	**14738**	**2**	**N**	**STEAMBOAT SLOUGH**	**SU28KJ**	**5.108**	**29N**	**05E**	**Temperature**	**Water**
				Cusimano (1997) station Snodry30 (Steamboat Slough (STM30)) shows 2 excursions beyond the criterion measured on these dates: 96/08/27, 96/08/28,						
7	**4666**	**2**	**N**	**STEVENS LAKE**	**026ZDC**	**29N**	**06E**	**08**	**INVASIVE EXOTIC SPECIES**	**Habitat**
				Ecology survey (Parsons and O'Neal, 2000) found Eurasian water-milfoil (Myriophyllum spicatum)					Changed from Category 4C to Category 2 on 02/01/05. Snohomish County State of the Lakes Report (2003) indicates that Eurasian water-milfoil was found in the 1980s and early 1990s but has not been found in recent years. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
7	**43024**	**2**	**Y**	**STEVENS LAKE**	**026ZDC**	**29N**	**06E**	**08**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 5 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						Changed from Category 5 to Category 2 on 02/02/05 based on Snohomish County State of the Lakes Report (2003) that indicates this lake is "at risk" of future impairment. The summer epilimnetic total phosphorus concentrations are consistently below 20 ug/L, but should have even lower nutrient levels. The lake experiences occasional nuisance algal blooms. The aeration system in the lake limits internal phosphorus recycling but does not fully mitigate the on-going impacts of nutrient loading from the watershed. Recent data, together with the success of continuing restoration efforts suggest the lake is not currently impaired by total phosphorus but that nutrient levels are of concern. -kk This listing was originally on the 1998 303(d) list, but was errantly combined with Listing ID 22829. The listing has now been restored. As a result, the information which suggests a Category 5 has been removed to Listing ID 22829. 10/16/04 -kk	
7	**40807**	**2**	**N**	**SWAMP CREEK**	**GJ57UL**	**3.762**	**27N**	**04E**	**35**	**pH**	**Water**
				Snohomish County unpublished data from station SCLD (AT COUNTY LINE AT BRIDGE SOUTH OF 24225 LOCKWOOD ROAD.) show 2 excursions beyond the criterion from 53 measurements collected 1998-2002.							
7	**40806**	**2**	**N**	**SWAMP CREEK**	**GJ57UL**	**3.762**	**27N**	**04E**	**35**	**Temperature**	**Water**
				Snohomish County unpublished data from station SCLD (AT COUNTY LINE AT BRIDGE SOUTH OF 24225 LOCKWOOD ROAD.) show excursions beyond the criterion from measurements collected in 2001.							
7	**9299**	**2**	**N**	**SWAN TRAIL SLOUGH**	**AI14IV**	**0**	**28N**	**05E**	**03**	**Dissolved oxygen**	**Water**
				Cusimano (1997) station Snodry22 (Swan Trail Slough (STS22)) shows 4 excursions beyond the criterion measured on these dates: 93/08/16, 93/08/17, 96/08/27, 96/08/28,							
7	**9830**	**2**	**N**	**SWAN TRAIL SLOUGH**	**AI14IV**	**0**	**28N**	**05E**	**03**	**Fecal Coliform**	**Water**
				Cusimano (1997) station Snodry22 (Swan Trail Slough (STS22)) shows the geometric mean of 135 exceeds the criterion and that 0 % of the samples does not exceed the percentile criterion from 2 samples collected during 1993.; ;							
7	**9301**	**2**	**N**	**SWAN TRAIL SLOUGH**	**AI14IV**	**0**	**28N**	**05E**	**03**	**Temperature**	**Water**
				Cusimano (1997) station Snodry22 (Swan Trail Slough (STS22)) shows 1 excursions beyond the criterion measured on these dates: 93/08/17,							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
7	17497	2	N	**SWIFTY (FERGUSON) CREEK**	IQ42NC	3.181	28N	06E	06	Fecal Coliform	Water
				Friends of Blackman's Lake unpublished data show no excursions beyond the geometric mean or percentile criterion in 1998, 1999, 2000, and 2001 with samples collected at several locations in the segment.							
7	7434	2	N	**TOKUL CREEK**	ME08RY	15.609	25N	08E	22	Temperature	Water
				Rashin and Graber, 1992 , 1 excursion beyond the criterion out of 17 samples measured during 8/91.						Continuous temperature measurements were taken, but the information submitted is insufficient to support a Category 5 listing.	
7	9839	2	N	**UNION SLOUGH**	OA97PJ	0	29N	05E	05	Fecal Coliform	Water
				Cusimano (1997) station Snodry33 (Union Slough (UNS33)) shows the geometric mean of 77 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 2 samples collected during 1993.; ;							
7	14659	2	N	**UNION SLOUGH**	OA97PJ	0	29N	05E	05	Temperature	Water
				Cusimano (1997) station Snodry33 (Union Slough (UNS33)) shows 4 excursions beyond the criterion measured on these dates: 93/08/16, 93/08/17, 96/08/27, 96/08/28,							
7	35327	2	N	**UNNAMED CREEK**	HW33LG	0	28N	09E	30	Dissolved oxygen	Water
				Port Blakely Tree Farms unpublished data from station OL22 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursions beyond the criterion from measurements collected in 2001.							
7	9831	2	N	**UNNAMED CREEK**	WN14QS	0	30N	05E	04	Fecal Coliform	Water
				Garrigues (1996) station QCRTR2 (QUILCEDA TRIB DOWN) shows the geometric mean of 118 exceeds the criterion and that 67 % of the samples exceeds the percentile criterion from 3 samples collected during 1995.; ;							
7	35323	2	N	**UNNAMED CREEK**	FM15LJ	0	28N	09E	30	pH	Water
				Port Blakely Tree Farms unpublished data from station OL21 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursion beyond the criterion from 4 measurements collected in 2001-2002.							
7	35380	2	N	**UNNAMED CREEK**	QQ44SO	0	28N	08E	24	pH	Water
				Port Blakely Tree Farms unpublished data from station BV1 (submitted by Blake Murden on 10 Decemeber 2002) shows 2 excursions beyond the criterion from 4 measurements collected in 2001-2002.							
7	35575	2	N	**WALLACE RIVER**	OR02JV	0	28N	08E	36	Total PCBs	Tissue
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of 4 muscle samples collected in 1998 and 2000 from coho salmon (Oncorhynchus kisutch) samples from station WALLACER.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
7	**7436**	**2**	**Y**	**WOODS CREEK** Cusimano (1997) station Snodry6 (Woods Creek (WOD06)) shows 0 excursions beyond the criterion out of 2 samples collected between 02/96 - 04/96. Cusimano, 1995. 2 excursions beyond the criterion on 8/16/93 and 8/17/93.	**FZ74HO**	**0**	**27N**	**06E**	**12**	**Dissolved oxygen**	**Water**	Name administratively changed from WOOD CREEK (MARSH LAND) to WOODS CREEK on 01/25/05. -kk This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
7	**9834**	**2**	**N**	**WOODS CREEK** Cusimano (1997) station Snodry6 (Woods Creek (WOD06)) shows the geometric mean of 808 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 2 samples collected during 1993.; ;	**FZ74HO**	**0**	**27N**	**06E**	**12**	**Fecal Coliform**	**Water**	Snohomish River Tributaries Fecal Coliform TMDL approved 09-Aug-01.
8	**12669**	**2**	**N**	**BEAR CREEK** King County unpublished data from station 484 (Bear Creek RM 1.0) show excursions beyond the dissolved oxygen criterion in 2001.	**WR69YU**	**0.375**	**25N**	**05E**	**12**	**Dissolved oxygen**	**Water**	
8	**12672**	**2**	**N**	**BEAR CREEK** King County unpublished data from station J484 (Bear Creek RM 5.5) show excursions beyond the dissolved oxygen criterion in 2001.	**EW54VY**	**3.891**	**26N**	**06E**	**30**	**Dissolved oxygen**	**Water**	
8	**12643**	**2**	**N**	**BEAR CREEK** King County unpublished data from station 484 show 1 excursions beyond the criteria out of 66 all samples collected between 1998 and 2002.	**WR69YU**	**0.375**	**25N**	**05E**	**12**	**pH**	**Water**	
8	**12634**	**2**	**N**	**BEAR-EVANS CREEKS** King County unpublished data from station S484 show 1 excursions beyond the criteria out of 48 all samples collected between 1998 and 2002.	**MI67EG**	**4.093**	**25N**	**06E**	**18**	**pH**	**Water**	
8	**12635**	**2**	**N**	**BEAR-EVANS CREEKS** King County unpublished data from station N484 show 1 excursions beyond the criteria out of 52 all samples collected between 1998 and 2002.	**NO74JS**	**3.102**	**26N**	**06E**	**18**	**pH**	**Water**	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
8	40586	2	N	**BEAVER NO. 1 LAKE**	135STD 24N 06E 02	Total Phosphorus	Water
				Completed Phase I State Clean Lakes Restoration Project in 1994: Entranco, 1993. King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus exceeded the water quality standards nutrient criterion in 1998 and 2000 from samples collected between 1998-2002.		Changed from Category 5 to Category 2 based on draft Beaver Lakes I and II TMDL Analysis dated August 2004 submitted by Tony Whiley. The Lake currently meets total phosphorus criteria and load allocations are preventative. 01/07/05 -kk A Phase II restoration project funded under Section 319 is underway. Also, a Lake Management District was formed to generate local funds for matching the grant. The grant supports a long-term citizen's monitoring program. The above information meets EPA guidance for excluding the lake from the list under federal regulation 40 CFR130.7(b)(1)(iii).	
8	6290	2	Y	**BEAVER NO. 2 LAKE**	005OQX 24N 06E 11	Total Phosphorus	Water
				Completed Phase I State Clean Lakes Restoration Project in 1994: Entrance, 1993. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 16 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.		Changed from Category 5 to Category 2 based on draft Beaver Lakes I and II TMDL Analysis dated August 2004 submitted by Tony Whiley. The Lake currently meets total phosphorus criteria and load allocations are preventative. 01/07/05 -kk A Phase II restoration project funded under Section 319 is completed. Also, a Lake Management District was formed to generate local funds for matching the grant.	
8	22318	2	N	**BIG BEAR CREEK**	EW54VY 11.785 26N 06E 08	Bioassessment	Other
				Plotnikoff and Wiseman, 2002, at station 118D (Big Bear Creek) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.8 , but more definitive information is needed to determine if the segment is actually impaired.			
8	12152	2	N	**BITTER LAKE**	645KRD 26N 04E 19	Fecal Coliform	Water
				King County unpublished data from station A739 show a geometric mean of 110 cfu/100mL with 100% exceeding the percentile criterion during 1998. King County unpublished data from station A739 show a geometric mean of 80 cfu/100mL with 0% exceeding the percentile criterion during 1999.		Changed from Category 5 to Category 2 on 3/8/05. The geometric mean was incorrectly applied because the sample set was less than 5. However, calculations show the percentile criterion was violated on August 8, 1998. -kk	
8	21560	2	N	**BOREN LAKE**	693QOY 24N 05E 28	Total Phosphorus	Water
				King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus did not exceed the water quality standards nutrient criterion from samples collected between 1998-2002. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.			

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
8	**12673**	**2**	**N**	**CEDAR RIVER**	**JG09GH**	**0.467**	**23N**	**05E**	**07**	**Dissolved oxygen**	**Water**
				King County unpublished data from station X438 (Cedar River RM 0.2) show excursions beyond the dissolved oxygen criterion in 2000 and 2001.							
8	**12559**	**2**	**N**	**CEDAR RIVER**	**JG09GH**	**40.929**	**22N**	**07E**	**16**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 08C110 meets tested standards for fecal coliform. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08C110 (Cedar R. near Landburg) shows a geometric mean of 3 does not exceed the criterion and that 12% of the samples exceeds the percentile criterion from 8 samples collected during 2001, with only 1 sample that exceeds the percentile criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08C110 (Cedar R. near Landburg) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 7 samples collected during 2000. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08C110 (Cedar R. near Landburg) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1999. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08C110 (Cedar R. near Landburg) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 7 samples collected during 1998. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08C110 (Cedar R. near Landburg) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 7 samples collected during 1997. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08C110 (Cedar R. near Landburg) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1996. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08C110 (Cedar R. near Landburg) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1995. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08C110 (Cedar R. near Landburg) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1994.							
8	**10655**	**2**	**N**	**CEDAR RIVER**	**JG09GH**	**1.866**	**23N**	**05E**	**18**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 08C070 shows that 1 of 31 samples exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08C070 (CEDAR RIVER AT LOGAN ST/RENTON) shows 1 excursions beyond the criterion out of 59 samples collected between 1993 - 2001.							
8	**4806**	**2**	**N**	**CEDAR RIVER**	**JG09GH**	**15.415**	**23N**	**06E**	**29**	**Temperature**	**Water**
				King County unpublished data from station A438 (Cedar River RM 9.5) show temperature criterion was exceeded in 1998.E2162							
8	**12668**	**2**	**N**	**COAL CREEK**	**CH04NG**	**1.299**	**24N**	**05E**	**16**	**Dissolved oxygen**	**Water**
				King County unpublished data from station 442 (Coal Creek RM 0.8) show excursions beyond the dissolved oxygen criterion in 2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
8	**7025**	**2**	**N**	**COAL CREEK**	**CH04NG 1.299 24N 05E 16**	**Temperature**	**Water**
				King County unpublished data from station 442 (Coal Creek RM 0.8) show temperature criterion was exceeded in 2002.			
8	**43037**	**2**	**N**	**CRYSTAL LAKE**	**761DEZ 27N 05E 36**	**Total Phosphorus**	**Water**
				Snohomish County 2003 State of the Lakes Report shows a total phosphorus concentration of 19 ug/l indicating moderate nutrient levels.		Data for this listing came in form of public comment to the proposed 2002/2004 listings received from Gene Williams, Snohomish County Surface Water Management on 12/15/04. -kk	
8	**40814**	**2**	**N**	**CUTTHROAT CREEK**	**GD67PX 0.305 27N 05E 26**	**Dissolved oxygen**	**Water**
				Snohomish County unpublished data from station CUTT (AT HWY 9 SOUTH OF MALTBY RD.) show excursions beyond the criterion from measurements collected in 2001.			
8	**22675**	**2**	**N**	**ECHO LAKE**	**364SKR 27N 06E 33**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 15 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Snohomish County unpublished data show summer mean epilimnetic total phosphorus did not exceed the water quality standards nutrient criterion from samples collected between 1996-2002.			
8	**13702**	**2**	**N**	**EDEN (ETON) CREEK**	**FN75VG 0.288 25N 06E 32**	**Copper**	**Water**
				King County unpublished data from station A690 shows the chronic criterion was exceeded on 24 February 1999 from samples collected between 1998 and 2002.			
8	**12627**	**2**	**N**	**EDEN (ETON) CREEK**	**FN75VG 0.288 25N 06E 32**	**pH**	**Water**
				King County unpublished data from station A690 show 1 excursions beyond the criteria out of 75 all samples collected between 1998 and 2002.			
8	**4815**	**2**	**N**	**EVANS CREEK**	**MI67EG 4.093 25N 06E 18**	**Temperature**	**Water**
				King County unpublished data from station S484 (Evans Creek RM 2.2) show temperature criterion was exceeded in years between 1999 and 2001.			
8	**13539**	**2**	**N**	**FORBES CREEK**	**BG76BX 0.799 26N 05E 31**	**Mercury**	**Water**
				King County unpublished data from station 456 show the chronic criterion was exceeded in 2 samples collected on 25 July 2000 and 30 July 2002.		Because measurements are below the reporting limit and concentrations are at the detection limit, there is substantial uncertainty associated with the data (Johnson, ECY/EAP 2003). Because of uncertainty, this segment has been placed in the Waters of Concern category.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
8	**40815**	**2**	**N**	**GREAT DANE CREEK**	**VA31DQ**	**0.349**	**27N**	**05E**	**22**	**Dissolved oxygen**	**Water**
				Snohomish County unpublished data from station DANE (AT MALTBY RD EAST OF LITTLE BEAR CREEK RD) show excursions beyond the criterion from measurements collected in 2001.							
8	**42129**	**2**	**N**	**IDYLWOOD CREEK**	**BI22AX**	**0.235**	**25N**	**05E**	**24**	**Temperature**	**Water**
				City of Redmond (data submitted by Daren Baysinger on 4/24/04), station 24 (Idylwood Creek @ W Lk Samm) shows 3 excursions beyond the criterion from samples collected on the following dates: 8/29/2001, 8/30/2001, 8/31/2001.							
8	**15791**	**2**	**N**	**ISSAQUAH CREEK**	**TF31OB**	**1.777**	**24N**	**06E**	**21**	**pH**	**Water**
				King County unpublished data from station 631 (Issaquah Creek RM 1.1) show 2 excursions beyond the criterion on 9 June 1992 and 19 August 1992 out of 32 samples collected between 1991 and 1997. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08B130 (Issaquah Cr nr Issaquah) shows 0 excursions beyond the criterion out of 10 samples collected between 1993 - 2001.							
8	**7442**	**2**	**Y**	**ISSAQUAH CREEK**	**CZ80NC**	**1.026**	**24N**	**06E**	**28**	**Temperature**	**Water**
				Washington Dept. of Fish and Wildlife data (submitted by Hal Michael on 14 September 1995) show numerous excursions beyond the criterion at the inflow to the Issaquah Hatchery.						Information submitted is insufficient to support a Category 5 listing. No actual raw data appear in the reference.	
8	**15793**	**2**	**N**	**ISSAQUAH CREEK**	**TF31OB**	**4.051**	**24N**	**06E**	**28**	**Temperature**	**Water**
				King County unpublished data from station A632 (Issaquah Creek RM 3.0) show the criterion was exceeded on 20 Aug 1991.							
8	**13523**	**2**	**N**	**JUANITA CREEK**	**WA69TP**	**2.528**	**26N**	**05E**	**30**	**Mercury**	**Water**
				King County unpublished data from station 446 show the chronic criterion was exceeded in 4 samples collected between 1998 and 2002.						Because measurements are below the reporting limit and concentrations are at the detection limit, there is substantial uncertainty associated with the data (Johnson, ECY/EAP, 2003). Further, a King Co. website shows that out of 23 filtered stormwater samples collected from station 444 at the mouth of Kelsey Creek during 1997-2002, none exceeded mercury standards. Because of uncertainty, this segment has been placed in the Waters of Concern category.	
8	**12641**	**2**	**N**	**JUANITA CREEK**	**WA69TP**	**2.528**	**26N**	**05E**	**30**	**pH**	**Water**
				King County unpublished data from station 446 show 1 excursions beyond the criteria out of 64 all samples collected between 1998 and 2002. U.S.Geological Survey data from NWIS database station 12120490 (Juanita Cr at Juanita) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
8	**12642**	**2**	**N**	**JUANITA CREEK**	**WA69TP**	**4.783**	**26N**	**05E**	**20**	**pH**	**Water**
				King County unpublished data from station C446 show 1 excursions beyond the criteria out of 55 all samples collected between 1998 and 2002. U.S.Geological Survey data from NWIS database station 12120480 (Juanita Cr at NE 132nd st nr kirkland) shows 0 excursions beyond the criterion out of 6 samples collected between 01/93 - 10/00.						
8	**21564**	**2**	**N**	**KATHLEEN LAKE**	**261SOX**	**23N**	**06E**	**18**	**Total Phosphorus**	**Water**
				King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus exceeded the water quality standards nutrient criterion in 1998 and 2001 from samples collected between 1998-2001. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 10 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
8	**40964**	**2**		**KAYAK LAKE**	**827HLG**	**27N**	**07E**	**32**	**Total Phosphorus**	**Water**
				Snohomish County's 2003 State of the Lakes Report identifies the lake as at risk of future impairment. Summer epilimnetic total phosphorus concentrations consistently exceed 20 ug/l. The lake occasionally experiences nuisance algal blooms.						
8	**13584**	**2**	**N**	**KELSEY CREEK**	**CK50FE**	**7.893**	**25N**	**05E**	**33**	**Copper**	**Water**
				King County unpublished data from station 444 shows the chronic criterion was exceeded on 14 November 2001 from all samples collected between 1998 and 2002.						
8	**13587**	**2**	**N**	**KELSEY CREEK**	**CK50FE**	**7.893**	**25N**	**05E**	**33**	**Mercury**	**Water**
				King County unpublished data from station 444 show the chronic criterion was exceeded in 2 samples collected on 1 September 1998 and 26 July 2001 .					Because measurements are below the reporting limit and concentrations are at the detection limit, there is substantial uncertainty associated with the data (Johnson, ECY/EAP, 2003). Further, a King Co. website shows that out of 23 filtered stormwater samples collected from station 444 at the mouth of Kelsey Creek during 1997-2002, none exceeded mercury standards. Because of uncertainty, this segment has been placed in the Waters of Concern category.	
8	**21565**	**2**	**N**	**LEOTA LAKE**	**572SXN**	**26N**	**05E**	**11**	**Total Phosphorus**	**Water**
				King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus exceeded the water quality standards nutrient criterion in 2000 and 2001 from samples collected between 1998-2002. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 12 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
8	**13636**	**2**	**N**	**LEWIS CREEK**	**AP28OD**	**0.644**	**24N**	**06E**	**18**	**Mercury**	**Water**
				King County unpublished data from station A617 show the chronic criterion was exceeded on 3 September 1998 from samples collected between 1998 and 2002.					WASWIS and Lower Route Address changed from SY87QV 0.000 to AP28OD - 0.644 on 5/6/05. -kk	

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WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
8	**12637**	**2**	**N**	**LEWIS CREEK**	**AP28OD**	**0.644**	**24N**	**06E**	**18**	**pH**	**Water**
				King County unpublished data from station A617 show 3 excursions beyond the criteria out of 70 all samples collected between 1998 and 2002. U.S.Geological Survey data from NWIS database station 12121750 (Lewis Cr at 187th ave SE nr Bellevue) shows 1 excursions beyond the criterion out of 3 samples collected between 01/93 - 10/00.						WASWIS and Lower Route Address changed from SY87QV 0.000 to AP28OD - 0.644 on 5/6/05. -kk	
8	**22321**	**2**	**N**	**LITTLE BEAR CREEK**	**UT96KR**	**0**	**26N**	**05E**	**09**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 117D (Bear Creek-Little) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.73.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
8	**40785**	**2**	**N**	**LITTLE BEAR CREEK**	**UT96KR**	**5.478**	**27N**	**05E**	**27**	**Dissolved oxygen**	**Water**
				Snohomish County unpublished data from station LBLD (AT 228TH ST SE BRIDGE) show excursions beyond the criterion from measurements collected in 2001.							
8	**40786**	**2**	**N**	**LITTLE BEAR CREEK**	**UT96KR**	**11.012**	**27N**	**05E**	**15**	**Dissolved oxygen**	**Water**
				Snohomish County unpublished data from station LBLU (AT 51ST ST SE, JUST SOUTH OF 180TH ST SE) show excursions beyond the criterion from measurements collected in 2001.							
8	**40788**	**2**	**N**	**LITTLE BEAR CREEK**	**UT96KR**	**11.293**	**27N**	**05E**	**10**	**Dissolved oxygen**	**Water**
				Snohomish County unpublished data from station LBHW (AT INTERURBAN BLVD EAST OF 51ST AVE SE) show excursions beyond the criterion from measurements collected in 2001.							
8	**12639**	**2**	**N**	**LITTLE BEAR CREEK**	**UT96KR**	**0**	**26N**	**05E**	**09**	**pH**	**Water**
				King County unpublished data from station 478 show 1 excursions beyond the criteria out of 77 all samples collected between 1998 and 2002. Snohomish County unpublished data from station LBCC (at Hwy 202) show no excursions beyond the criterion from measurements collected 1998-2002. U.S.Geological Survey data from NWIS database station 12125500 (Bear Cr at Woodinville) shows 0 excursions beyond the criterion out of 2 samples collected between 01/93 - 10/00.							
8	**40784**	**2**	**N**	**LITTLE BEAR CREEK**	**UT96KR**	**5.478**	**27N**	**05E**	**27**	**pH**	**Water**
				Snohomish County unpublished data from station LBLD (AT 228TH ST SE BRIDGE) show 2 excursions beyond the criterion from 54 measurements collected 1998-2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
8	**40935**	**2**	**N**	**LITTLE BEAR CREEK**	**UT96KR**	**11.012**	**27N**	**05E**	**15**	**pH**	**Water**
				Snohomish County unpublished data from station LBLU (AT 51ST ST SE, JUST SOUTH OF 180TH ST SE) show 5 excursions beyond the criterion from 54 measurements collected 1998-2002.							
8	**7032**	**2**	**N**	**LITTLE BEAR CREEK**	**UT96KR**	**0**	**26N**	**05E**	**09**	**Temperature**	**Water**
				Snohomish County unpublished data from station LBCC (at Hwy 202) show no excursions beyond the criterion from measurements collected 2000-2002.							
				Snohomish County unpublished data from station LBCC (at Hwy 202) show no excursions beyond the criterion from measurements collected 2000-2002.							
				King County unpublished data from station 478 (Little Bear Creek RM 0.2) show temperature criterion was exceeded in 1999 and 2000.							
				U.S.Geological Survey data from NWIS database station 12125500 (Bear Cr at Woodinville) shows 0 excursions beyond the criterion out of 2 samples collected between 01/93 - 10/00.							
8	**12665**	**2**	**N**	**LYON CREEK**	**AS70QO**	**0.49**	**26N**	**04E**	**10**	**Dissolved oxygen**	**Water**
				King County unpublished data from station 430 (Lyon Creek RM 0.2) show excursions beyond the dissolved oxygen criterion in years 1998 and 2001.							
8	**13463**	**2**	**N**	**LYON CREEK**	**AS70QO**	**0.49**	**26N**	**04E**	**10**	**Mercury**	**Water**
				King County unpublished data from station 430 show the chronic criterion was exceeded in one sample on 24 July 2000 collected between 1998 and 2002.							
8	**15485**	**2**	**N**	**LYON CREEK**	**AS70QO**	**0.49**	**26N**	**04E**	**10**	**Temperature**	**Water**
				U.S.Geological Survey data from NWIS database station 12127290 (Lyon Cr at NE178th @ Lake Forest Park) shows 1 excursions beyond the criterion out of 6 samples collected between 01/93 - 10/00.							
				King County unpublished data from station 430 (Lyon Creek RM 0.2) show temperature criterion was met in all years between 1998 and 2002.							
				U.S.Geological Survey data from NWIS database station 12127300 (Lyon Cr at Lake Forest Park) shows 0 excursions beyond the criterion out of 2 samples collected between 01/93 - 10/00. King County unpublished data from station 430 (Lyon Creek RM 0.2) show temperature criterion was met in all years between 1998 and 2002.							
				U.S.Geological Survey data from NWIS database station 12127290 (Lyon Cr at NE178th @ Lake Forest Park) shows 1 excursions beyond the criterion out of 6 samples collected between 01/93 - 10/00.							
				U.S.Geological Survey data from NWIS database station 12127300 (Lyon Cr at Lake Forest Park) shows 0 excursions beyond the criterion out of 2 samples collected between 01/93 - 10/00.							
8	**42589**	**2**	**N**	**MAPLE LEAF CREEK**	**KK99GK**	**0.07**	**26N**	**04E**	**28**	**Lead**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 08M070 shows 1 sample in year 2003 exceeded the chronic criterion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
8	**42590**	**2**	**N**	**MAPLE LEAF CREEK**	**KK99GK 0.07 26N 04E 28**	**Mercury**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 08M070 shows 1 sample in year 2004 exceeded the chronic criterion.			
8	**6353**	**2**	**Y**	**MARTHA S. LAKE**	**855WHN 27N 04E 01**	**Total Phosphorus**	**Water**
				Completed Phase I State Clean Lakes Restoration Project in 1994 -Problems Encountered: Low transparency, tributary nutrient inputs, storm water. Entranco, 1991. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 3 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Snohomish County unpublished data show summer mean epilimnetic total phosphorus did not exceed the water quality standards nutrient criterion from samples collected between 1996-2002.		Snohomish County's 2003 State of the Lakes Report identifies the lake as "at risk" of impairment. Summer epilimnetic total phosphorus concentrations do not consistently exceed 20 ug/l, however at times, the TP levels are elevated in the hypolimnion. The lake experiences occasional nuisance algal blooms. It is not clear that current nutrient levels impair lake uses, although there is a risk of impairment from watershed impacts and possible internal loading. Was listed under name of MARTHA LAKE on 1998 list. -kk	
8	**12667**	**2**	**N**	**MAY CREEK**	**BH96KG 2.207 24N 05E 32**	**Dissolved oxygen**	**Water**
				King County unpublished data from station 440 (May Creek RM 0.2) show excursions beyond the dissolved oxygen criterion in 1998.			
8	**13555**	**2**	**N**	**MAY CREEK**	**BH96KG 2.207 24N 05E 32**	**Mercury**	**Water**
				King County unpublished data from station 440 show the chronic criterion was exceeded in one sample on 31 July 2002 collected between 1998 and 2002.			
8	**7445**	**2**	**Y**	**MAY CREEK**	**BG47ND 5.713 23N 05E 12**	**Temperature**	**Water**
				King County Surface Water Management (1995) shows 2 excursions beyond the criterion at the confluence with the North Fork on 7/8/94 and 7/29/94.		The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
8	**7447**	**2**	**Y**	**MAY CREEK**	**BH96KG 5.172 23N 05E 04**	**Temperature**	**Water**
				King County Surface Water Management (1995) shows 2 excursions beyond the criterion at the station at 148th Ave SE on 7/8/94 and 7/29/94.		The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis			Remarks
8	**21566**	**2**	**N**	**MCDONALD LAKE**	**056VER 23N 06E 20**	**Total Phosphorus**	**Water**
				King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus exceeded the water quality standards nutrient criterion in 1998, 1999, and 2000 from samples collected between 1998-2002. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 17 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.			
8	**12671**	**2**	**N**	**MERCER SLOUGH**	**CK50FE 4.499 24N 05E 08**	**Dissolved oxygen**	**Water**
				King County unpublished data from station D444 (West Branch Kelsey Creek WDF# 08.0264 at RM 0.1) show excursions beyond the dissolved oxygen criterion in 1999.			Name changed from KELSEY CREEK to MERCER SLOUGH on 3/2/05. -kk
8	**40633**	**2**	**Y**	**MERCER SLOUGH**	**DE87MT 0 24N 05E 05**	**Dissolved oxygen**	**Water**
				28 excursions beyond the criterion at Seattle-Metro station A444 between 7/1/87 and 7/1/91. 17 excursions beyond the upper criterion out of 98 samples (17%) collected at King County station O444 (Kelsey Creek RM 2.0) between 1/91 and 4/97.			Robert Brenner of Seattle-Metro states that these excursions beyond the criterion are a natural condition due to decomposition of vegetation in a large cattail marsh wetland just upstream of the station. John Glynn (Dept. of Ecology - 6/97 judgement) concurs with this comment. Since these excursions beyond the criterion with no direct human caused influence are not a violation of the standards, this segment should not be listed for dissolved oxygen based on these data. Combined with Listing ID 40610. 07/15/04 -kk
8	**7448**	**2**	**Y**	**MERCER SLOUGH**	**CK50FE 4.499 24N 05E 08**	**pH**	**Water**
				King County unpublished data from station D444 show 4 excursions beyond the criteria out of 51 all samples collected between 1998 and 2002. Davis, 1993. 1 excursion beyond the criterion at the mouth on 6/14/92			This listing appears to be a mistake in the 1998 303(d) list, as one eceedance of the criterion is not considered impaired for 303(d) listing purpses in either the 1998 or 2002/2004 listing process.
8	**7449**	**2**	**Y**	**NORMA CREEK**	**YI62JI 0.003 28N 04E 32**	**Dissolved oxygen**	**Water**
				Thornburgh, 1996. 54% of samples collected between 1992-1995 show excursions beyond criterion at station PSLU. Thornburgh, 1996. 15% of samples collected between 1992-1995 show excursions beyond criterion at station PSLD.			Information submitted is insufficient to support a Category 5 listing. No raw data appear in the 1996 reference so actual data assessment could not occur.
8	**7451**	**2**	**N**	**NORMA CREEK**	**YI62JI 0.003 28N 04E 32**	**Temperature**	**Water**
				Thornburg, 1996. , 1 excursion beyond criterion out of 52 samples (2%) at station PSLU between 1992 and 1997.			

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
8	**7455**	**2**	**Y**	**NORTH CREEK**	**SM74QQ**	**14.67**	**28N**	**05E**	**31**	**Dissolved oxygen**	**Water**
				Thornburgh, 1996. 46% of samples collected between 1992 -1995 show excursions beyond criterion at station NCLU.						Information submitted is insufficient to support a Category 5 listing. No raw data appear in the 1996 reference so actual data assessment could not occur.	
8	**7457**	**2**	**Y**	**NORTH CREEK**	**SM74QQ**	**2.745**	**27N**	**05E**	**32**	**Dissolved oxygen**	**Water**
				Thornburgh, 1996. 15% of samples collected between 1992 -1995 show excursions beyond criterion at station NCLD.						Information submitted is insufficient to support a Category 5 listing. No raw data appear in the 1996 reference so actual data assessment could not occur.	
8	**13431**	**2**	**N**	**NORTH CREEK**	**SM74QQ**	**0**	**26N**	**05E**	**08**	**Mercury**	**Water**
				King County unpublished data from station 474 show the chronic criterion was exceeded in one sample on 25 July 2000 collected between 1998 and 2002.							
8	**12636**	**2**	**N**	**NORTH CREEK**	**SM74QQ**	**0**	**26N**	**05E**	**08**	**pH**	**Water**
				King County unpublished data from station 474 show 2 excursions beyond the criteria out of 64 all samples collected between 1998 and 2002.							
8	**40791**	**2**	**N**	**NORTH CREEK**	**SM74QQ**	**16.371**	**28N**	**05E**	**30**	**pH**	**Water**
				Snohomish County unpublished data from station NCLU (AT MCCOLLUM PARK SOUTH OF EXTENSION SERVICE BUILDING) show 4 excursions beyond the criterion from 53 measurements collected 1998-2002.							
8	**7454**	**2**	**N**	**NORTH CREEK**	**SM74QQ**	**2.745**	**27N**	**05E**	**32**	**Temperature**	**Water**
				Snohomish County unpublished data from station NCLD (AT COUNTY LINE, EAST OF 3223 240TH ST SE) show excursions beyond the criterion from measurements collected in 1998.						Information submitted is insufficient to support a Category 5 listing.	
				Thornburg, 1996, 3 excursions beyond criterion out of 61 samples (5%) at station NCLD between 1992 and 1995.							
8	**21568**	**2**	**N**	**OTTER (SPRING) LAKE**	**543CBJ**		**23N**	**06E**	**31**	**Total Phosphorus**	**Water**
				King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus did not exceed the water quality standards nutrient criterion from samples collected between 1998-2002.							
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 30 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
8	**6363**	**2**	**N**	**PHANTOM LAKE**	**633ILV**	**24N**	**05E**	**02**		**Total Phosphorus**	**Water**
				Completed Phase I State Clean Lakes Restoration Project in 1987 - Problems Encountered: Blue-green algae, low dissolved oxygen, sediment phosphorus recycling, low transparency, storm water. KCM, 1987. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						Completed State Clean Lakes Restoration Project in 1995: KCM, 1993. Control measures underway - phosphorus precipitation/inactivation, diversion, structural storm water controls, hypolimnetic aeration, lake level regulation, public education. Listing_ID 22471 (Category 2, Total Phosphorus) rolled into this listing 3/10/04. Listing_ID 22471 marked as inactive. Listing moved from Cat 5 to Cat 2 based on comment by City of Bellevue. City requests Cat 2 pending development of lake-specific criteria. -kk 05/13/04.	
8	**42842**	**2**	**N**	**PIPER`S CREEK**	**DS45RL**	**0**	**26N**	**03E**	**25**	**Turbidity**	**Water**
				Herrera Environmental Consultants, 2001b., (submitted by Nancy Malmgren on on 6/12/2003) data shows one excursion beyond the criterion between stations V2 and V1 on 2/3/99.							
8	**42476**	**2**	**N**	**PUGET SOUND (CENTRAL)**	**390KRD**	**47122I3A9**	**47.805**	**122.395**		**Ammonia-N**	**Water**
				King County data (submitted by Kimberle Stark on 4/15/04) station ITEDWARDSPT (Edwards Point) shows 1 sample exceeded the criterion on 10/28/02.							
8	**15707**	**2**	**N**	**PUGET SOUND (CENTRAL)**	**390KRD**	**47122G4G4**	**47.665**	**122.445**		**Fecal Coliform**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSB003 (Puget Sound Main Basin - West Point) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1991.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSB003 (Puget Sound Main Basin - West Point) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1992.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSB003 (Puget Sound Main Basin - West Point) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 1993.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSB003 (Puget Sound Main Basin - West Point) shows a geometric mean of 6 does not exceed the criterion and that 25% of the samples exceed the percentile criterion from 4 samples collected during 1994, with only 1 sample that exceeds the percentile criterion..Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSB003 (Puget Sound Main Basin - West Point) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1995.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSB003 (Puget Sound Main Basin - West Point) shows a geometric mean of 5 does not exceed the criterion and that 20% of the samples exceed the percentile criterion from 5 samples collected during 1996, with only 1 sample that exceeds the percentile criterion..Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSB003 (Puget Sound Main Basin - West Point) shows a geometric mean of 2 does not exceed the criterion and that 14% of the samples exceed the percentile criterion from 7 samples collected during 1997 , with only 1 sample that exceeds the percentile criterion..Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSB003 (Puget Sound Main Basin - West Point) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 1998.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station PSB003 (Puget Sound Main Basin - West Point) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1999.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
8	10160	2	N	**PUGET SOUND (CENTRAL)**	390KRD	47122G4G4	47.665	122.445		pH		Water
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station PSB003 (Puget Sound Main Basin - West Point) shows 1 excursions beyond the criterions out of 76 samples collected between 1993-2000								
8	11470	2	N	**REX RIVER**	XD25SY	1.92	22N	09E	29	pH		Water
				Department of Ecology unpublished data from EMAP station R0CE99-043 (REX RIVER) shows excursions beyond the criterion from measurements made in 1999.								
8	15465	2	N	**ROCK CREEK**	UY00TX	4.695	22N	07E	10	Dissolved oxygen		Water
				U.S.Geological Survey data from NWIS database station 12117695 (Rock Cr at Cedar Falls Rd nr Landsburg) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.								
8	15466	2	N	**ROCK CREEK**	UY00TX	4.695	22N	07E	10	pH		Water
				U.S.Geological Survey data from NWIS database station 12117695 (Rock Cr at Cedar Falls Rd nr Landsburg) shows 1 excursions beyond the criterion out of 6 samples collected between 01/93 - 10/00.								
8	22474	2	N	**RUGGS LAKE**	361WKF	28N	05E	29		Total Phosphorus		Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 10 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							Snohomish County's 2003 State of the Lakes Report identifies the as "impaired" mainly because of excess aquatic plants and rapid sedimentation that is filling the lake. Summer epilimnetic total phosphorus totals usuallyexceed 20 ug/l. The lake suffers from excess algal growth in response to elevated nutrient levels. Excess aquatic plants restrict use of much of the lake, the result of highly enriched sediments.	
8	6327	2	N	**SAMMAMISH LAKE**	143MLR	47122G0A9	47.605	122.095		Total Phosphorus		Water
				Completed Phase I State Clean Lakes Restoration Project - Problems Encountered: Blue-green algae, tributary nutrient inputs, storm water. Horner, et al. 1987, showed that only the biologically available P affects trophic state. Entranco, 1989; METRO and King County, 1995.							Active Phase II State Clean Lakes Restoration Project: Control measures underway based on the Phase I study - watershed nutrient management, structural storm water controls, diversion, public education. Listing moved from Cat 5 to Cat 2 based on comment by City of Bellevue. City requests Cat 2 pending development of lake-specific criteria. -kk 05/13/04.	
8	10646	2	N	**SAMMAMISH RIVER**	CA16HI	5.606	26N	05E	08	Dissolved oxygen		Water
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08B070 (Sammamish R @ Bothell) shows 10 excursions beyond the criterion out of 21 samples collected between 1993 - 2001 measured on these dates: 93/05/19, 93/06/23, 93/07/21, 93/08/18, 93/10/18, 94/05/16, 94/06/20, 94/07/18, 94/08/15, 94/09/19,								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
8	**12621**	**2**	**Y**	**SAMMAMISH RIVER** King County unpublished data from station 486 show 2 excursions beyond the criteria out of 49 all samples collected between 1998 and 2002. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08B110 (Sammamish R @ Redmond) shows 0 excursions beyond the criterion out of 10 samples collected between 1993 - 2001.	**CA16HI**	**19.219**	**25N**	**05E**	**11**	**pH**	Assessment of the past 10 years of data indicate 2 excursions beyond the criterion out of 49 samples, which is is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
8	**10647**	**2**	**N**	**SAMMAMISH RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08B070 (Sammamish R @ Bothell) shows 7 excursions beyond the criterion out of 21 samples collected between 1993 - 2001 measured on these dates: 93/05/19, 93/07/21, 93/08/18, 94/06/20, 94/07/18, 94/08/15, 94/09/19,	**CA16HI**	**5.606**	**26N**	**05E**	**08**	**Temperature**		**Water**
8	**41131**	**2**	**N**	**SAMMAMISH RIVER** Carey, B., (2003), station SAM-135 shows 2 samples exceeded the criterion in year 2001. Carey, B., (2003), station SAM-143 shows 1 samples exceeded the criterion in year 2001.	**CA16HI**	**12.41**	**26N**	**05E**	**22**	**Temperature**		**Water**
8	**41134**	**2**	**N**	**SAMMAMISH RIVER** Carey, B., (2003), station SAM-85 shows 2 samples exceeded the criterion in year 2001. City of Redmond (data submitted by Daren Baysinger on 4/24/04), station 19 (Sammamish River Upstream of 85th St Bridge Outfall) shows 3 excursions beyond the criterion from samples collected on the following dates: 6/28/2001, 7/11/2002, 9/30/2003.	**CA16HI**	**17.583**	**25N**	**05E**	**02**	**Temperature**		**Water**
8	**41135**	**2**	**N**	**SAMMAMISH RIVER** Carey, B., (2003), station SAM-95 shows 1 samples exceeded the criterion in year 2001.	**CA16HI**	**16.384**	**26N**	**05E**	**35**	**Temperature**		**Water**
8	**41148**	**2**	**N**	**SAMMAMISH RIVER** Carey, B., (2003), station SAM-116 shows 2 samples exceeded the criterion in year 2001.	**CA16HI**	**14.867**	**26N**	**05E**	**26**	**Temperature**		**Water**
8	**41149**	**2**	**N**	**SAMMAMISH RIVER** Carey, B., (2003), station SAM-130 shows 2 samples exceeded the criterion in year 2001.	**CA16HI**	**14.07**	**26N**	**05E**	**27**	**Temperature**		**Water**

requirements

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				STICKNEY LAKE	**325WKL**	**28N**	**04E**	**35**	**Total Phosphorus**	**Water**
8	**22476**	**2**	**N**							

Basis: Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.

Remarks: Snohomish County's 2003 State of the Lakes Report identifies the lake as "at risk" of future impairment. Summer epilimnetic total phosphorus concentrationsusually do not exceed 20 ug/l, however, concentrations are substantially higher in the hypolimnion.

Moderate to high nutrient levels may be the natural condition for this lake. The lake has a lery large urbanized watershed and there are occasional nuisance algal blooms.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				STURTEVANT LAKE	**196PVE**	**25N**	**05E**	**28**	**Total Phosphorus**	**Water**
8	**22472**	**2**	**N**							

Basis: Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 1168 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				SWAMP CREEK	**GJ57UL**	**0**	**26N**	**04E**	**12**	**Bioassessment**	**Other**
8	**22323**	**2**	**N**							

Basis: Plotnikoff and Wiseman, 2002, at station 137D (Swamp Creek @ Bothel Way) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.76.

Remarks: This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				SWAMP CREEK	**GJ57UL**	**14.335**	**27N**	**04E**	**02**	**Dissolved oxygen**	**Water**
8	**7462**	**2**	**Y**							

Basis: Thornburgh, 1996. 42% of samples collected between 1992-1995 show excursions beyond criterion at station SCLU.

Remarks: Information submitted is insufficient to support a Category 5 listing. No raw data appear in the 1991 reference so actual data assessment could not occur.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				SWAMP CREEK	**GJ57UL**	**3.601**	**26N**	**04E**	**02**	**Dissolved oxygen**	**Water**
8	**7463**	**2**	**Y**							

Basis: Thornburgh, 1996. 12% of samples collected between 1992-1995 show excursions beyond criterion at station SCLD.

Remarks: Information submitted is insufficient to support a Category 5 listing. No raw data appear in the 1991 reference so actual data assessment could not occur.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				SWAMP CREEK	**GJ57UL**	**1.702**	**26N**	**04E**	**01**	**Dissolved oxygen**	**Water**
8	**15481**	**2**	**N**							

Basis: U.S.Geological Survey data from NWIS database station 12127000 (Swamp Cr nr Bothell) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
8	**10778**	**2**	**N**	**SWAMP CREEK**	**GJ57UL**	**0**	**26N**	**04E**	**12**	**Mercury**	**Water**
				King County unpublished data from station 470 show the chronic criterion was exceeded in one sample on 24 July 2000 collected between 1998 and 2002.							
8	**15482**	**2**	**N**	**SWAMP CREEK**	**GJ57UL**	**1.702**	**26N**	**04E**	**01**	**pH**	**Water**
				U.S.Geological Survey data from NWIS database station 12127000 (Swamp Cr nr Bothell) shows 1 excursions beyond the criterion out of 3 samples collected between 01/93 - 10/00.							
8	**40805**	**2**	**N**	**SWAMP CREEK**	**GJ57UL**	**16.144**	**28N**	**04E**	**35**	**pH**	**Water**
				Snohomish County unpublished data from station SCLU (NORTH OF 148TH ST SW ABOVE DRAINAGE COMING FROM EAST ALONG 148TH ST SW.) show 4 excursions beyond the criterion from 44 measurements collected 1998-2002.							
8	**7461**	**2**	**N**	**SWAMP CREEK**	**GJ57UL**	**3.601**	**26N**	**04E**	**02**	**Temperature**	**Water**
				Thornburg, 1996. , 6 excursions beyond criterion out of 61 samples (<10%) at station SCLD between 1992 and 1997.						Information submitted is insufficient to support a Category 5 listing.	
8	**7466**	**2**	**N**	**SWAMP CREEK**	**GJ57UL**	**14.335**	**27N**	**04E**	**02**	**Temperature**	**Water**
				Thornburg, 1996, 4 excursions beyond criterion out of 53 samples (8%) at station SCLU between 1992 and 1997.						Information submitted is insufficient to support a Category 5 listing.	
8	**15483**	**2**	**N**	**SWAMP CREEK**	**GJ57UL**	**1.702**	**26N**	**04E**	**01**	**Temperature**	**Water**
				U.S.Geological Survey data from NWIS database station 12127000 (Swamp Cr nr Bothell) shows 1 excursions beyond the criterion out of 3 samples collected between 01/93 - 10/00.							
8	**22324**	**2**	**N**	**TAYLOR CREEK**	**LU98QG**	**0.888**	**22N**	**08E**	**19**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 51D (Taylor Cr) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.66.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
8	**15463**	**2**	**N**	**TAYLOR CREEK**	**LU98QG**	**0.772**	**22N**	**08E**	**18**	**Dissolved oxygen**	**Water**
				U.S.Geological Survey data from NWIS database station 12117000 (Taylor Cr nr Selleck) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
8	22477	2	N	**THOMAS LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	388COZ 28N 05E 33	Total Phosphorus	Water	
8	13603	2	N	**THORNTON CREEK** King County unpublished data from station 434 show the chronic criterion was exceeded in 5 samples collected between 1998 and 2002.	VQ98YZ 1.219 26N 04E 34	Mercury	Water	Because measurements are below the reporting limit and concentrations are at the detection limit, there is substantial uncertainty associated with the data (Johnson, ECY/EAP, 2003). Because of uncertainty, this segment has been placed in the Waters of Concern category.
8	12640	2	N	**THORNTON CREEK** King County unpublished data from station 434 show 2 excursions beyond the criteria out of 64 all samples collected between 1998 and 2002. U.S.Geological Survey data from NWIS database station 12128000 (Thornton Cr nr Seattle) shows 1 excursions beyond the criterion out of 52 samples collected between 01/93 - 10/00.	VQ98YZ 1.219 26N 04E 34	pH	Water	
8	6400	2	N	**TIBBETTS CREEK** U.S.Geological Survey data from NWIS database station 12121699 (Tibbetts Cr at SE Newport Way nr Issaquag) shows a geometric mean of 440 exceeds the criterion and that 100% of the samples exceeds the percentile criterion from 1 samples collected during 1998.	MB51QQ 2.694 24N 06E 29	Fecal Coliform	Water	
8	15475	2	N	**TIBBETTS CREEK** U.S.Geological Survey data from NWIS database station 12121699 (Tibbetts Cr at SE Newport Way nr Issaquag) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.	MB51QQ 2.694 24N 06E 29	Temperature	Water	
8	11915	2	N	**UNION LAKE** King County unpublished data at station 527 shows the National Toxic Rule criterion was exceeded on 16 April 1998.	043HCN 25N 04E 19	4,4'-DDD	Water	
8	11916	2	N	**UNION LAKE** King County unpublished data at station 527 show the National Toxic Rule criterion was exceeded on 16 April 1998.	043HCN 25N 04E 19	4,4'-DDE	Water	
8	40808	2	N	**UNION LAKE** King County unpublished data from station 515 show an excursion beyond the National Toxic Rule criterion on 25 June 1998.	043HCN 25N 04E 19	Aldrin	Water	
8	10669	2	N	**UNION LAKE** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08K090 (Ship Canal @ Freemont) shows 6 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 93/10/20, 93/11/17, 93/12/21, 94/07/20, 94/08/17, 94/09/21,	043HCN 25N 04E 19	Dissolved oxygen	Water	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
8	10667	2	N	**UNION LAKE**	043HCN	25N	04E	19		pH		Water
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08K090 (Ship Canal @ Freemont) shows 2 excursions beyond the criterion out of 10 samples collected between 1993 - 2001								
8	10668	2	N	**UNION LAKE**	043HCN	25N	04E	19		Temperature		Water
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 08K090 (Ship Canal @ Freemont) shows 4 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 94/06/22, 94/07/20, 94/08/17, 94/09/21,								
8	12482	2	N	**UNION LAKE**	043HCN	25N	04E	19		Zinc		Water
				King County unpublished data from station 512 show the chronic criterion was exceeded on 3 November 1998 from samples collected between 1998 and 2002.								
8	40810	2	N	**UNNAMED CREEK**	BJ58VD	0	27N	05E	10	Dissolved oxygen		Water
				Snohomish County unpublished data from station TROT (AT INTERURBAN BLVD EAST OF SITE LBHW AT STABLES) show excursions beyond the criterion from measurements collected in 2001.								
8	42132	2	N	**UNNAMED CREEK (OVERLAKE SEARS TRUNKLINE)**	UNK000	0	25N	05E	26	Temperature		Water
				City of Redmond (data submitted by Daren Baysinger on 4/24/04), station 25 (Overlake Sears Trunk line) shows 3 excursions beyond the criterion from samples collected on the following dates: 10/2/2001, 7/10/2001, 9/29/2003.								
8	42946	2	N	**VENEMA CREEK**	WV86FU	0.238	26N	03E	25	Turbidity		Water
				Herrera Environmental Consultants, 2001b., (submitted by Nancy Malmgren on on 6/12/2003) data shows one excursion beyond the criterion between stations P3 and P2 on 2/9/99.								
8	11960	2	N	**WASHINGTON LAKE**	213HVK	47122G2E7	47.645	122.275		Ammonia-N		Water
				King County unpublished data from station 544 show 1 excursions beyond the criterion collected on 25 June 1998.								
8	11963	2	N	**WASHINGTON LAKE**	213HVK	47122G2J1	47.695	122.215		Ammonia-N		Water
				King County unpublished data from station 807 show 1 excursion beyond the criterion out of 50 samples collected between 1998 and 2002.								
8	11964	2	N	**WASHINGTON LAKE**	213HVK	47122G2F1	47.655	122.215		Ammonia-N		Water
				King County unpublished data from station 814 show 1 excursion beyond the criterion out of 50 samples collected between 1988 and 2002.								
8	11970	2	N	**WASHINGTON LAKE**	213HVK	47122G2B1	47.615	122.215		Ammonia-N		Water
				King County unpublished data from station 834 show 1 excursion beyond the criterion out of 52 samples collected between 1998 and 2002.								

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
8	**12186**	**2**	**Y**	**WASHINGTON LAKE**	**213HVK**	**47122G2J6**	**47.695**	**122.265**	**Fecal Coliform**	**Water**
				King County unpublished data from station 817 show a geometric mean of 6 cfu/100mL with 12% exceeding the percentile criterion during 2002, with only 1 sample that exceeds the percentile criterion. King County unpublished data from station 817 show a geometric mean of 3 cfu/100mL with 0% exceeding the percentile criterion during 2001. King County unpublished data from station 817 show a geometric mean of 4 cfu/100mL with 0% exceeding the percentile criterion during 2000. King County unpublished data from station 817 show a geometric mean of 5 cfu/100mL with 0% exceeding the percentile criterion during 1999. King County unpublished data from station 817 show a geometric mean of 6 cfu/100mL with 0% exceeding the percentile criterion during 1998.					Recent data in the past 5 years measuring the geometric mean indicates that this water is meeting standards for fecal coliform. Listing will be placed on the waters of concern list until further monitoring verifies the water continues to meet criteria.	
8	**12194**	**2**	**Y**	**WASHINGTON LAKE**	**213HVK**	**47122F2A1**	**47.505**	**122.215**	**Fecal Coliform**	**Water**
				King County unpublished data from station 829 show a geometric mean of 8 cfu/100mL with 14% exceeding the percentile criterion during 2002, with only 1 sample that exceeds the percentile criterion. King County unpublished data from station 829 show a geometric mean of 11 cfu/100mL with 0% exceeding the percentile criterion during 2001. King County unpublished data from station 829 show a geometric mean of 10 cfu/100mL with 0% exceeding the percentile criterion during 2000. King County unpublished data from station 829 show a geometric mean of 13 cfu/100mL with 8% exceeding the percentile criterion during 1999. King County unpublished data from station 829 show a geometric mean of 12 cfu/100mL with 17% exceeding the percentile criterion during 1998, with only 1 sample that exceeds the percentile criterion.					This waterbody segment does not meet listing criteria for bacteria in WQ Policy 1-11, which requires that when the exceedances are based on a percentile critieron, you must have a minimum of 10% and at least 2 samples exceeding the criteria. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.	
8	**12196**	**2**	**N**	**WASHINGTON LAKE**	**213HVK**	**47122F1H9**	**47.575**	**122.195**	**Fecal Coliform**	**Water**
				King County unpublished data from station 832 show a geometric mean of 5 cfu/100mL with 14% exceeding the percentile criterion during 2002, with only 1 sample that exceeds the percentile criterion. King County unpublished data from station 832 show a geometric mean of 5 cfu/100mL with 0% exceeding the percentile criterion during 1998. King County unpublished data from station 832 show a geometric mean of 6 cfu/100mL with 0% exceeding the percentile criterion during 1999. King County unpublished data from station 832 show a geometric mean of 3 cfu/100mL with 0% exceeding the percentile criterion during 2000. King County unpublished data from station 832 show a geometric mean of 5 cfu/100mL with 0% exceeding the percentile criterion during 2001.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
8	**12207**	**2**	**Y**	**WASHINGTON LAKE**	**213HVK**	**47122G2A8**	**47.605**	**122.285**	**Fecal Coliform**	**Water**
				King County unpublished data from station SD007SB show a geometric mean of 18 cfu/100mL with 9% exceeding the percentile criterion during 2002, with only 1 sample that exceeds the percentile criterion. King County unpublished data from station SD007SB show a geometric mean of 21 cfu/100mL with 9% exceeding the percentile criterion during 2001, with only 1 sample that exceeds the percentile criterion. King County unpublished data from station SD007SB show a geometric mean of 39 cfu/100mL with 20% exceeding the percentile criterion during 2000. King County unpublished data from station SD007SB show a geometric mean of 26 cfu/100mL with 10% exceeding the percentile criterion during 1999. King County unpublished data from station SD007SB show a geometric mean of 32 cfu/100mL with 17% exceeding the percentile criterion during 1998, with only 1 sample that exceeds the percentile criterion.					This waterbody segment does not meet listing criteria for bacteria in WQ Policy 1-11, which requires that when the exceedances are based on a percentile critieron, you must have a minimum of 10% and at least 2 samples exceeding the criteria. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.	
8	**8078**	**2**	**N**	**WASHINGTON LAKE**	**213HVK**	**47122G2I3**	**47.685**	**122.235**	**Lead**	**Water**
				King County unpublished data from station 826 show the chronic criterion was exceeded on 7 January 2002 in samples collected between 1998 and 2002.						
8	**12264**	**2**	**N**	**WASHINGTON LAKE**	**213HVK**	**47122G2B1**	**47.615**	**122.215**	**Mercury**	**Water**
				King County unpublished data from station 834 show the chronic criterion was exceeded on 3 February 2000 in samples collected between 2000 and 2002.						
8	**12272**	**2**	**N**	**WASHINGTON LAKE**	**213HVK**	**47122F2C6**	**47.525**	**122.265**	**Mercury**	**Water**
				King County unpublished data from station 4903 show the chronic criterion was exceeded on 11 December 2001 from samples collected between 2000 and 2002.						
8	**12311**	**2**	**N**	**WASHINGTON LAKE**	**213HVK**	**47122F2D0**	**47.535**	**122.205**	**Total PCBs**	**Water**
				King County unpublished data from station 840 show the National Toxic Rule criterion and the chronic criterion was exceeded on 8 August 2000.						
8	**12312**	**2**	**N**	**WASHINGTON LAKE**	**213HVK**	**47122G2D6**	**47.635**	**122.265**	**Total PCBs**	**Water**
				King County unpublished data from station 852 show the the National Toxic Rule criterion and chronic criterion was exceeded on 7 August 2000.						
8	**12313**	**2**	**N**	**WASHINGTON LAKE**	**213HVK**	**47122G2B5**	**47.615**	**122.255**	**Total PCBs**	**Water**
				King County unpublished data from station 861 show the the National Toxic Rule criterion and chronic criterion was exceeded on 7 August 2000.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
8	**12314**	**2**	**N**	**WASHINGTON LAKE**	**213HVK**	**47122F2H7**	**47.575**	**122.275**		**Total PCBs**	**Water**
				King County unpublished data from station 0864A show the the National Toxic Rule criterion and chronic criterion was exceeded on 25 September 2000.							
8	**12315**	**2**	**N**	**WASHINGTON LAKE**	**213HVK**	**47122F2H6**	**47.575**	**122.265**		**Total PCBs**	**Water**
				King County unpublished data from station 890 show the the National Toxic Rule criterion and chronic criterion was exceeded on 8 August 2000.							
8	**12316**	**2**	**N**	**WASHINGTON LAKE**	**213HVK**	**47122F2C6**	**47.525**	**122.265**		**Total PCBs**	**Water**
				King County unpublished data from station 4903A show the the National Toxic Rule criterion and chronic criterion was exceeded on 25 September 2000. King County unpublished data from station 4903B show the the National Toxic Rule criterion and chronic criterion was exceeded on 25 September 2000.							
8	**12317**	**2**	**N**	**WASHINGTON LAKE**	**213HVK**	**47122G2B7**	**47.615**	**122.275**		**Total PCBs**	**Water**
				King County unpublished data from station SD007B show the the National Toxic Rule criterion and chronic criterion was exceeded on 25 September 2000.							
8	**12318**	**2**	**N**	**WASHINGTON LAKE**	**213HVK**	**47122F2J3**	**47.595**	**122.235**		**Total PCBs**	**Water**
				King County unpublished data from station SD017A show the the National Toxic Rule criterion and chronic criterion was exceeded on 13 September 2000.							
8	**21570**	**2**	**N**	**WELCOME LAKE**	**493VBQ**	**26N**	**06E**	**21**		**Total Phosphorus**	**Water**
				King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus did not exceed the water quality standards nutrient criterion from samples collected between 1998-2002. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
8	**42120**	**2**	**N**	**WILLOWS CREEK**	**VL36DA**	**0.16**	**25N**	**05E**	**03**	**Temperature**	**Water**
				City of Redmond (data submitted by Daren Baysinger on 4/24/04), station 10 (Willows Creek @ Willows Rd) shows 4 excursions beyond the criterion from samples collected on the following dates: 8/5/2001, 8/6/2001, 8/14/, 2001, 8/15/2001.							
8	**40813**	**2**	**N**	**WOODS CREEK**	**FZ74HO**	**5.17**	**28N**	**07E**	**33**	**pH**	**Water**
				Snohomish County unpublished data from station WCMF (AT YORK HORSE FARM ON YEAGER ROAD.) show 5 excursions beyond the criterion from 54 measurements collected 1998-2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
8	40818	2	N	**WOODS CREEK, W.F.**	OH07SJ	0	28N	07E	33	pH	Water	
				Snohomish County unpublished data from station WCWF (AT SECOND BRIDGE PAST YORK FARM ON YEAGER ROAD AT 13421 YEAGER ROAD.) show 6 excursions beyond the criterion from 54 measurements collected 1998-2002.								
8	22473	2	N	**YELLOW LAKE**	501VIO	24N	06E	14		Total Phosphorus	Water	
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 30 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.								
9	42305	2	N	**BARNES CREEK**	MW05BA	0	22N	04E	17	Copper	Water	
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines on 3/15/2004), station BA-1 shows 1 sample collected 11/7/1995 exceeded the chronic criterion.								
9	22478	2	N	**BASS LAKE**	728VJQ	20N	06E	02		Total Phosphorus	Water	
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.								
9	15864	2	N	**BIG SOOS CREEK**	VY43OI	18.07	22N	05E	03	Ammonia-N	Water	
				King County unpublished data from station L320 (Soos Creek RM 10.5) show 1 excursion beyond the chronic criterion on 11 July 1996.								
9	15865	2	N	**BIG SOOS CREEK**	VY43OI	16.347	22N	05E	10	Ammonia-N	Water	
				King County unpublished data from station M320 (Soos Creek RM 10.0) show 1 excursion beyond the chronic criterion on 11 July 1996.								
9	18878	2	N	**BIG SOOS CREEK**	VY43OI	18.07	22N	05E	03	Bioassessment	Other	
				Plotnikoff and Wiseman, 2002, at station 75D (Big Soos Cr at 208th St) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.48.								This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk
9	15868	2	N	**BIG SOOS CREEK**	VY43OI	12.7	22N	05E	23	Dissolved oxygen	Water	
				King County unpublished data from station N320 (Soos Creek RM 8.2) show excursions beyond the criterion in 1995 and 1996.								
				King County unpublished data from station P320 (Soos Creek RM 7.5) show excursions beyond the criterion in 1995 and 1996.								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
9	13790	2	N	**BIG SOOS CREEK** King County unpublished data from station A320 show the chronic criterion was exceeded on 30 August 1999 and 25 July 2000.	VY43OI	0	21N	05E	16	Mercury	Because measurements are below the reporting limit and concentrations are at the detection limit, there is substantial uncertainty associated with the data (Johnson, ECY/EAP, 2003). Because of uncertainty, this segment has been placed in the Waters of Concern category.	Water
9	15873	2	N	**BIG SOOS CREEK** King County unpublished data from station L320 (Soos Creek RM 10.5) show 3 excursions beyond the criteria out of 43 mesurements collected between 1993 and 1997.	VY43OI	18.07	22N	05E	03	pH		Water
9	15874	2	N	**BIG SOOS CREEK** King County unpublished data from station M320 (Soos Creek RM 10.0) show 1 excursion beyond the criteria on 14 November 1994 out of 44 measurements collected between 1993 and 1997.	VY43OI	16.347	22N	05E	10	pH		Water
9	7493	2	N	**BIG SOOS CREEK** 2 excursions beyond the criterion out of 301 samples (0.6%) sampled at the inflow to the Green River Fish Hatchery (submitted by Chantal Stevens of the Muckelshoot Indian Tribe on 10/31/97).	VY43OI	2.398	21N	05E	10	Temperature		Water
9	10837	2	N	**BIG SOOS CREEK** King County unpublished data from station A320 (Soos Creek RM 0.7) show temperature criterion was met in all years between 1998 and 2002. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09B090 (Big Soos Cr nr Auburn) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 94/08/17.	VY43OI	0	21N	05E	16	Temperature		Water
9	15877	2	N	**BIG SOOS CREEK** King County unpublished data from station L320 (Soos Creek RM 10.5) show excursions beyond the criterion in 1995 and 1996.	VY43OI	18.07	22N	05E	03	Temperature		Water
9	22683	2	N	**BLACK DIAMOND LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 90 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	045AOT	21N	04E	22		Total Phosphorus	T21N R06E S22	Water
9	10678	2	N	**BLACK RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09H090 (Black R @ Renton) shows 8 excursions beyond the criterion out of 11 samples collected between 1993 - 2001 measured on these dates: 93/10/20, 93/11/17, 93/12/21, 94/01/19, 94/04/20, 94/05/18, 94/06/22, 94/09/21,	BY98ES	0.245	23N	04E	13	Dissolved oxygen		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
9	10677	2	N	**BLACK RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09H090 (Black R @ Renton) shows 1 excursions beyond the criterion out of 11 samples collected between 1993 - 2001 measured on these dates: 94/07/20,	BY98ES 0.245 23N 04E 13	Temperature	Water	
9	22480	2	N	**BOW LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 78 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	430BPQ 23N 04E 33	Total Phosphorus	Water	
9	12698	2	N	**CRISP CREEK** King County unpublished data from station 321 (Crisp Creek RM 1.8) show excursions beyond the dissolved oxygen criterion in year 2001.	XM98DY 1.07 21N 06E 20	Dissolved oxygen	Water	
9	13739	2	N	**CRISP CREEK** King County unpublished data from station 321 show the chronic criterion was exceeded in 5 samples collected between 2000 and 2002.	XM98DY 1.07 21N 06E 20	Mercury	Water	Because measurements are below the reporting limit and concentrations are at the detection limit, there is substantial uncertainty associated with the data (Johnson, ECY/EAP, 2003). Because of uncertainty, this segment has been placed in the Waters of Concern category.
9	22481	2	N	**DEEP LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 30 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 14 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	649FWZ 21N 07E 32	Total Phosphorus	Water	
9	42312	2	N	**DES MOINES CREEK** Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines on 3/15/2004), station DM-2 shows 1 sample collected 11/7/1995 exceeded the chronic criterion.	VX71MY 0 22N 04E 08	Copper	Water	
9	42934	2	N	**DES MOINES CREEK** Port of Seattle, 1997. (submitted by Merlin MacReynold, City of Normandy Park on March 15, 2004), samples collected in 1996 show possible excursions beyond the criterion.	VX71MY 2.677 22N 04E 04	Copper	Water	
9	10832	2	N	**DES MOINES CREEK** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09C070 (Des Moines Cr nr Mouth) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 94/07/20,	VX71MY 0 22N 04E 08	Temperature	Water	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
9	**42935**	**2**	**N**	**DES MOINES CREEK**	**VX71MY**	**2.677**	**22N**	**04E**	**04**	**Zinc**	**Water**
				Port of Seattle, 1997. (submitted by Merlin MacReynold, City of Normandy Park on March 15, 2004), samples collected in 1996 show possible excursions beyond the criterion.							
9	**42349**	**2**	**N**	**DES MOINES CREEK, EAST TRIBUTARY**	**CL09EE**	**0**	**22N**	**04E**	**04**	**Dissolved oxygen**	**Water**
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines on 3/15/2004), station DM-4 (east tributary) shows 1 sample in 1996 exceeded the criterion.							
9	**21573**	**2**	**N**	**DOLLOFF LAKE**	**194FPO**	**21N**	**04E**	**10**		**Total Phosphorus**	**Water**
				King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus exceeded the water quality standards nutrient criterion in 1998, 1999, 2000, and 2001 from samples collected between 1998-2001. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
9	**35585**	**2**	**N**	**DUWAMISH WATERWAY AND RIVER**	**IG58VD**	**3.281**	**24N**	**04E**	**19**	**4,4'-DDE**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle tissue tissue tissue tissue tissue tissue tissue samples collected in 1992, 1994 and 1996 from chinook salmon (Oncorhynchus tshawytscha) samples from station DUWAMISH. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was met in 1992-1997 from English sole (Pleuronectes vetulus) samples from station DUWAMISH. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was met in 1992-2000 from coho salmon (Oncorhynchus kisutch) samples from station DUWAMISH.						Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	
9	**8190**	**2**	**N**	**DUWAMISH WATERWAY AND RIVER**	**DH90GX**	**0**	**24N**	**03E**	**12**	**Bis(2-ethylhexyl)phthalate**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA stations 11H159 ((West waterway at mouth in mid-channel) on 9/1/82. 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA stations 11H167 (West waterway at Dog-leg, mid-channel) on 9/1/82.							
9	**8195**	**2**	**N**	**DUWAMISH WATERWAY AND RIVER**	**IG58VD**	**0**	**24N**	**04E**	**07**	**Bis(2-ethylhexyl)phthalate**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA stations 11H146 (at mouth in mid-channel) on 9/1/82. 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA stations 11H152 (East waterway off south end berth 5 in mid-channel) on 9/1/82. 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA stations 11H175 (Mid-channel off Slip 1) on 9/1/82. 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA stations 11H193 (Near head of Slip 6) on 9/1/82.							
9	**8642**	**2**	**N**	**DUWAMISH WATERWAY AND RIVER**	**IG58VD**	**15.424**	**23N**	**04E**	**14**	**Bis(2-ethylhexyl)phthalate**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA stations 11H199 (Mid-channel 1.1 mil below Black River) on 9/1/82.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
9	**8650**	**2**	**N**	**DUWAMISH WATERWAY AND RIVER**	**VV92OY**	**0.048**	**24N**	**04E**	**18**	**Bis(2-ethylhexyl)phthalate**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA stations 11H170 (East waterway .25 mile south of Spokane Street) on 9/1/82.							
9	**35593**	**2**	**N**	**DUWAMISH WATERWAY AND RIVER**	**IG58VD**	**3.281**	**24N**	**04E**	**19**	**Bis(2-ethylhexyl)phthalate**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle tissue tissue tissue tissue tissue tissue samples collected in 1992 from coho salmon (Oncorhynchus kisutch) samples from station DUWAMISH. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle tissue tissue tissue tissue tissue tissue samples collected in 1992 from chinook salmon (Oncorhynchus tshawytscha) samples from station DUWAMISH. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was met in 1992 from English sole (Pleuronectes vetulus) samples from station DUWAMISH.						Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	
9	**35594**	**2**	**N**	**DUWAMISH WATERWAY AND RIVER**	**IG58VD**	**3.281**	**24N**	**04E**	**19**	**Chlordane**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in single muscle tissue tissue tissue tissue tissue tissue samples collected in 1996 from chinook salmon (Oncorhynchus tshawytscha) samples from station DUWAMISH. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was met in 1992-1997 from English sole (Pleuronectes vetulus) samples from station DUWAMISH. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was met in 1992-1998 from coho salmon (Oncorhynchus kisutch) samples from station DUWAMISH.							
9	**35595**	**2**	**N**	**DUWAMISH WATERWAY AND RIVER**	**IG58VD**	**3.281**	**24N**	**04E**	**19**	**Dieldrin**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle tissue tissue tissue tissue tissue tissue samples collected in 1992 from chinook salmon (Oncorhynchus tshawytscha) samples from station DUWAMISH. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was met in 1992-1994 from coho salmon (Oncorhynchus kisutch) samples from station DUWAMISH.						Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	
9	**12697**	**2**	**N**	**DUWAMISH WATERWAY AND RIVER**	**IG58VD**	**12.189**	**23N**	**04E**	**10**	**Dissolved oxygen**	**Water**
				King County unpublished data from station 309 (Green River RM 7.0) show excursions beyond the dissolved oxygen criterion in 2001.							
9	**7473**	**2**	**Y**	**DUWAMISH WATERWAY AND RIVER**	**IG58VD**	**9.194**	**23N**	**04E**	**04**	**pH**	**Water**
				Muckleshoot Indian Tribal data (submitted by Karen Walter on 3/1/96) show 2 excursions beyond the criterion out of 4 samples at Station 7 (Turning Basin) during 1994 and 1995.						This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
9	**7036**	**2**	**N**	**DUWAMISH WATERWAY AND RIVER** King County unpublished data from station 309 (Green River RM 7.0) show temperature criterion was exceeded in 1998 and 2000.	**IG58VD**	**12.189**	**23N**	**04E**	**10**	**Temperature**		**Water**
9	**15499**	**2**	**N**	**DUWAMISH WATERWAY AND RIVER** U.S.Geological Survey data from NWIS database station 12113390 (Duwamish R at Golf Course at Tukwila) shows 1 excursions beyond the criterion out of 71 samples collected between 01/93 - 10/00.	**IG58VD**	**15.424**	**23N**	**04E**	**14**	**Temperature**		**Water**
9	**15801**	**2**	**N**	**ELLIOTT BAY** One excursion beyond the chronic criterion at Seattle-Metro station DENNY-VS2 (300 Yards north of Pier 70 in Seattle) on 5/12/77.	**390KRD**	**47122G3B5**	**47.615**	**122.355**		**Endosulfan**		**Water**
9	**10168**	**2**	**N**	**ELLIOTT BAY** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station ELB015 (Elliott Bay - E. of Duwamish Head) shows 2 excursions beyond the criterions out of 79 samples collected between 1993-2000	**390KRD**	**47122F3J6**	**47.595**	**122.365**		**pH**		**Water**
9	**8194**	**2**	**N**	**GREEN RIVER** One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 11H201 (.35 miles above Black River) on 9/2/82.	**YD05HE**	**0**	**23N**	**04E**	**23**	**Bis(2-ethylhexyl)phthalate**	Segment re-identified from IG58VD - 15.424 to YD05HE - 0.000, 12/13/04. -kk	**Water**
9	**8655**	**2**	**N**	**GREEN RIVER** One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 11H203 (0.5 miles above S. 180th St. Bridge) on 9/2/82.	**YD05HE**	**5.881**	**23N**	**04E**	**35**	**Bis(2-ethylhexyl)phthalate**		**Water**
9	**8656**	**2**	**N**	**GREEN RIVER** One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 11H207 (at Kent) on 9/2/82.	**YD05HE**	**10.496**	**22N**	**04E**	**11**	**Bis(2-ethylhexyl)phthalate**		**Water**
9	**8661**	**2**	**N**	**GREEN RIVER** One excursion beyond the chronic criterion at USEPA station 12106700 (at Purification Plant near Palmer) on 6/2/78.	**YD05HE**	**84.73**	**21N**	**08E**	**28**	**Endrin**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
9	**12570**	**2**	**N**	**GREEN RIVER**	**YD05HE**	**71.886**	**21N**	**07E**	**10**	**Fecal Coliform**	**Water**

Hallock (2004), Dept. of Ecology ambient station 09A190 meets tested standards for fecal coliform.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A190 (AT BRIDGE ON CUMBERLAND-PALMER RD.AT K) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 2001.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A190 (AT BRIDGE ON CUMBERLAND-PALMER RD.AT K) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A190 (AT BRIDGE ON CUMBERLAND-PALMER RD.AT K) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 16 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A190 (AT BRIDGE ON CUMBERLAND-PALMER RD.AT K) shows a geometric mean of 8 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 14 samples collected during 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A190 (AT BRIDGE ON CUMBERLAND-PALMER RD.AT K) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A190 (AT BRIDGE ON CUMBERLAND-PALMER RD.AT K) shows a geometric mean of 10 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 1996.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A190 (AT BRIDGE ON CUMBERLAND-PALMER RD.AT K) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1995.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A190 (AT BRIDGE ON CUMBERLAND-PALMER RD.AT K) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A190 (AT BRIDGE ON CUMBERLAND-PALMER RD.AT K) shows a geometric mean of 5 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 1993, with only 1 sample that exceeds the percentile criterion.

9	**8659**	**2**	**Y**	**GREEN RIVER**	**YD05HE**	**10.496**	**22N**	**04E**	**11**	**Mercury**	**Water**

18 excursions beyond the criterion at Ecology ambient monitoring station 09A090 (RM 18.3) between 1987 and 1991.

Changed from Category 5 to 2 on 3/8/05. The data which caused the original listing was done before the clean techniques sampling methods were used. -kk

9	**12649**	**2**	**N**	**GREEN RIVER**	**IG58VD**	**12.189**	**23N**	**04E**	**10**	**pH**	**Water**

King County unpublished data from station 309 show 2 excursions beyond the criteria out of 48 all samples collected between 1998 and 2002.

9	**12661**	**2**	**N**	**GREEN RIVER**	**YD05HE**	**48.857**	**21N**	**06E**	**28**	**pH**	**Water**

King County unpublished data from station B319 show 1 excursions beyond the criteria out of 73 all samples collected between 1998 and 2002.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
9	**15149**	**2**	**N**	**GREEN RIVER**	**YD05HE**	**66.458**	**21N**	**07E**	**08**	**pH**	**Water**
				Raforth, et al. 2002. show 1 excursion beyond the criterion from samples collected in 2000 and 2001.							
9	**10817**	**2**	**Y**	**GREEN RIVER**	**YD05HE**	**10.496**	**22N**	**04E**	**11**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A090 (Green R @ 212th St nr Kent) shows 2 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 94/07/20, 94/08/17,						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
9	**10821**	**2**	**N**	**GREEN RIVER**	**YD05HE**	**36.692**	**21N**	**05E**	**21**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A130 (Green Abv Big Soos/Auburn) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 94/07/20, King County unpublished data from station A319 (Green RM 34.) show temperature criterion was met in all years sampled between 1998 and 2001. King County unpublished data from station A319 (Green RM 34.) show temperature criterion was met in all years sampled between 1998 and 2001. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A130 (Green Abv Big Soos/Auburn) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 94/07/20,							
9	**8652**	**2**	**N**	**GREEN RIVER**	**YD05HE**	**10.496**	**22N**	**04E**	**11**	**Total PCBs**	**Water**
				One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 11H207 (at Kent) on 9/2/82.							
9	**8660**	**2**	**N**	**GREEN RIVER**	**YD05HE**	**84.73**	**21N**	**08E**	**28**	**Toxaphene**	**Water**
				One excursion beyond the chronic criterion at USEPA station 12106700 (at Purification Plant near Palmer) on 6/2/78.							
9	**15810**	**2**	**N**	**HILL (MILL) CREEK**	**BI99NR**	**10.803**	**21N**	**04E**	**15**	**Dissolved oxygen**	**Water**
				King County, 1993, 1 excursions out of 10 samples (10%) beyond the criterion at station 305 (RM 7.5) during 1992 and 1993.							
9	**13818**	**2**	**N**	**HILL (MILL) CREEK**	**BI99NR**	**0**	**22N**	**04E**	**25**	**Mercury**	**Water**
				King County unpublished data from station A315 show the chronic criterion was exceeded in 5 samples collected between 1998 and 2002.						Because measurements are below the reporting limit and concentrations are at the detection limit, there is substantial uncertainty associated with the data (Johnson, ECY/EAP, 2003). Because of uncertainty, this segment has been placed in the Waters of Concern category.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
9	12645	2	N	**HILL (MILL) CREEK** King County unpublished data from station A315 show 3 excursions beyond the criteria out of 73 all samples collected between 1998 and 2002.	BI99NR	0	22N	04E	25	pH		Water
9	7487	2	Y	**HILL (MILL) CREEK** King County, 1993, 2 excursions out of 9 samples (22%) beyond the criterion at station 304 (RM 2.2) during 1992 and 1993.	BI99NR	4.18	21N	04E	01	Temperature	The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	Water
9	15821	2	N	**HILL (MILL) CREEK** King County, 1993, 1 excursions out of 9 samples (11%) beyond the criterion at station 306 (Tributary at RM 7.2) during 1992 and 1993.	BI99NR	10.803	21N	04E	15	Temperature		Water
9	15822	2	Y	**HILL (MILL) CREEK** King County, 1993, 2 excursions out of 10 samples (20%) beyond the criterion at station 303 (RM 1.4) during 1992 and 1993.	BI99NR	2.128	22N	04E	35	Temperature	The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	Water
9	21522	2	N	**JONES LAKE** King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus exceeded the water quality standards nutrient criterion in 2000, 2001 and 2002. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 28 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	537LZB	21N	06E	14		Total Phosphorus		Water
9	21576	2	N	**KILLARNEY (NORTH ARM) LAKE** King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus exceeded the water quality standards nutrient criterion in 1998, 1999, 2000, 2001 and 2002 from samples collected between 1998-2002. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 28 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	668HKQ	21N	04E	22		Total Phosphorus	WASWIS=668HKQ	Water
9	12701	2	N	**LITTLE SOOS CREEK** King County unpublished data from station G320 (Little Soos Creek RM 0.3) show excursions beyond the dissolved oxygen criterion in 2001.	TI91MT	0.479	22N	05E	26	Dissolved oxygen		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
9	15857	2	N	**LITTLE SOOS CREEK**	TI91MT	2.809	22N	05E	24	Dissolved oxygen	Water
				King County unpublished data from station T320 (Little Soos Creek RM 3.2)show excursions beyond the criterion on 27 August 1996.							
9	15860	2	N	**LITTLE SOOS CREEK**	TI91MT	2.809	22N	05E	24	pH	Water
				King County unpublished data from station T320 (Little Soos Creek RM 3.2) show 2 excursions beyond the criterion on 14 February 1996 and 18 January 1996 from 38 samples collected between 1993 and 1997.							
9	15861	2	N	**LITTLE SOOS CREEK**	TI91MT	7.675	22N	05E	11	pH	Water
				King County unpublished data from station U320 (Little Soos Creek RM 4.7) show 3 excursions beyond the criteria out of 41 measurements collected between 1993 and 1997.							
9	15863	2	N	**LITTLE SOOS CREEK**	TI91MT	7.675	22N	05E	11	Temperature	Water
				King County unpublished data from station U320 (Little Soos Creek RM 4.7) show excursions beyond the criterion in 1995 and 1996.							
9	15848	2	N	**LITTLE SOOSETTE CREEK**	RX82DV	0	21N	05E	03	Dissolved oxygen	Water
				King County unpublished data from station V320 (Little Soosette Creek RM 1.6) show excursions beyond the criterion in 1994 and 1995.							
9	15850	2	N	**LITTLE SOOSETTE CREEK**	RX82DV	0	21N	05E	03	pH	Water
				King County unpublished data from station V320 (Little Soosette Creek RM 1.6) show 1 excursion beyond the criterion on 14 February 1996.							
9	15851	2	N	**LITTLE SOOSETTE CREEK**	RX82DV	0	21N	05E	03	Temperature	Water
				King County unpublished data from station V320 (Little Soosette Creek RM 1.6) show 1 excursion beyond the criterion on 10 August 1994.							
9	7489	2	N	**LONGFELLOW CREEK**	SM45HV	0	24N	03E	13	Dissolved oxygen	Water
				Longfellow Creek Watershed Management Committee, 1992a. , one excursion beyond the criterion at creek station LCF3 (west of 28th Ave SW and North of Andover near the fish ladder). King County unpublished data from station C370 (Longfellow Creek RM 0.5 at SW Yancy Street) show excursions beyond the dissolved oxygen criterion in 2000.							
9	42971	2	N	**LONGFELLOW CREEK**	SM45HV		24N	03E	25	Dissolved oxygen	Water
				Hallock (2003), Dept. of Ecology ambient station 09J090 shows a total of 1 sample in year 2003 exceeded the criterion.							
9	12654	2	N	**LONGFELLOW CREEK**	SM45HV	0	24N	03E	13	pH	Water
				King County unpublished data from station C370 show 2 excursions beyond the criteria out of 13 all samples collected between 1998 and 2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
9	**7044**	**2**	**N**	**LONGFELLOW CREEK**	**SM45HV**	**0**	**24N**	**03E**	**13**	**Temperature**	**Water**
				King County unpublished data from station C370 (Longfellow Creek RM 0.5 at SW Yancy Street) show temperature criterion was exceeded in 1998 and 2002.							
9	**15501**	**2**	**N**	**LONGFELLOW CREEK**	**SM45HV**	**0.788**	**24N**	**03E**	**24**	**Temperature**	**Water**
				U.S.Geological Survey data from NWIS database station 12113488 (Longfellow Cr @ SW Brandon St nr W. Seattle) shows 1 excursions beyond the criterion out of 2 samples collected between 01/93 - 10/00. King County unpublished data from station J370 (Longfellow Creek RM 1.1 at Brandon Street SW Bridge) show the criterion was exceeded in 1995 and 1996.							
9	**21523**	**2**	**N**	**LUCERNE LAKE**	**253IUY**	**22N**	**06E**	**28**		**Total Phosphorus**	**Water**
				King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus did not exceed the water quality standards nutrient criterion from samples collected between 1998-2002. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
9	**42345**	**2**	**N**	**MASSEY CREEK**	**ER96XL**	**1.372**	**22N**	**04E**	**16**	**Copper**	**Water**
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines on 3/15/2004), station MA-2 shows 1 sample collected 10/27/1999 exceeded the chronic criterion.							
9	**18881**	**2**	**N**	**McSORLEY CREEK**	**DR54QH**	**0**	**22N**	**04E**	**20**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 130D (McSorley Creek @ Saltwater St. Park) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.76.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
9	**42317**	**2**	**N**	**McSORLEY CREEK**	**DR54QH**	**1.192**	**22N**	**04E**	**21**	**Copper**	**Water**
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines on 3/15/2004), station MC-1 shows 1 sample collected 11/23/1994 exceeded the chronic criterion.							
9	**10829**	**2**	**N**	**MILL CREEK**	**TS53NN**	**0**	**23N**	**04E**	**36**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09E070 (Mill Creek @ Orillia) shows 3 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 94/06/22, 94/07/20, 94/08/17,							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
9	42936	2	N	**MILLER CREEK** Port of Seattle, 1997. (submitted by Merlin MacReynold, City of Normandy Park on March 15, 2004), samples collected in 1996 show possible excursions beyond the criterion.	WB35RQ	4.776	23N	04E	20	Copper		Water
9	42937	2	N	**MILLER CREEK** Port of Seattle, 1997. (submitted by Merlin MacReynold, City of Normandy Park on March 15, 2004), samples collected in 1996 show possible excursions beyond the criterion.	WB35RQ	4.776	23N	04E	20	Zinc		Water
9	15828	2	Y	**MULLEN SLOUGH** King County, 1993, 2 excursions out of 10 samples (20%) beyond the upper criterion at station 407 (Mullen Slough RM 0.5) during 1992 and 1993.	BP27QP	0	22N	04E	23	Temperature	The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	Water
9	15829	2	Y	**MULLEN SLOUGH** King County, 1993, 2 excursions out of 11 samples (18%) beyond the upper criterion at station 408 (Mullen Slough RM 1.6) during 1992 and 1993.	BP27QP	0.538	22N	04E	26	Temperature	The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	Water
9	21525	2	N	**NEILSON (HOLM) LAKE** King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus exceeded the water quality standards nutrient criterion in 2001 from samples collected between 1998-2002. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	094YTO	21N	05E	14		Total Phosphorus		Water
9	7492	2	N	**NEWAUKUM CREEK** Fritz, 1993. 23% of the samples collected at station L322 in 1992 were below the criterion. King County unpublished data from station L322 (Newaukum Creek RM 10.1 at Stonequarry Creek confluence)show excursions beyond the criterion in 1992 and 1994. King County unpublished data from station M322 (Newaukum Creek RM 10.1, north of SE 416th Street) show 1 excursion beyond the critreion on 10 January 1995.	LT44JU	0	20N	07E	07	Dissolved oxygen		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
9	**16705**	**2**	**Y**	**NEWAUKUM CREEK**	**JX80LS**	**0**	**21N**	**06E**	**29**	**Fecal Coliform**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09F150 (Newaukum Creek nr Enumclaw) shows a geometric mean of 99 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 1999, with only 1 sample that exceeds the percentile criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09F150 (Newaukum Creek nr Enumclaw) shows a geometric mean of 25 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 4 samples collected during 1998.						An assessment of the last 10 years of data, including more recent sampling in 1998 and 1998, indicates that data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the continued status of the water not shwoing impairment.	
9	**13768**	**2**	**N**	**NEWAUKUM CREEK**	**JX80LS**	**1.466**	**21N**	**06E**	**28**	**Mercury**	**Water**
				King County unpublished data from station 322 show the chronic criterion was exceeded in one sample on 25 July 2000 collected between 1998 and 2002.							
9	**12652**	**2**	**N**	**NEWAUKUM CREEK**	**JX80LS**	**7.626**	**20N**	**06E**	**10**	**pH**	**Water**
				King County unpublished data from station F322 show 1 excursions beyond the criteria out of 34 all samples collected between 1999 and 2002.							
9	**21526**	**2**	**N**	**PANTHER LAKE**	**046XDK**	**22N**	**04E**	**04**		**Total Phosphorus**	**Water**
				King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus exceeded the water quality standards nutrient criterion in 2000. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 21 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
9	**8183**	**2**	**Y**	**PUGET SOUND (S-CENTRAL) AND EAST PASSAGE**	**390KRD**	**47122F3C9**		**47.525**	**122.395**	**Ammonia-N**	**Water**
				Kendra, 1989. 1 excursion at 2 sampling locations on 6/15/1988.						This listing was based on one exceedance, which is not sufficent to place on the 303(d) list as impaired. This water will be place on Category 2 waters of concern until further testing confirms status of the water.	
9	**10164**	**2**	**N**	**PUGET SOUND (S-CENTRAL) AND EAST PASSAGE**	**390KRD**	**47122E3B7**		**47.415**	**122.375**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station EAP001 (EAST PASSAGE - SW OF THREE TREE POINT) shows 3 excursions beyond the criterions out of 41 samples collected between 1993-2000							
9	**21530**	**2**	**N**	**SHADOW LAKE**	**444SBN**	**22N**	**06E**	**07**		**Total Phosphorus**	**Water**
				King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus did not exceed the water quality standards nutrient criterion from samples collected between 1998-2002. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 30 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
9	8643	2	N	**SMAY CREEK**	KB84TV	12.08	21N	10E	35	Dieldrin		Water
				One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12105000 (near Lester) on 6/27/69.								
9	12655	2	N	**SOOS CREEK SYSTEM**	TI91MT	0.479	22N	05E	26	pH		Water
				King County unpublished data from station G320 show 1 excursions beyond the criteria out of 47 all samples collected between 1998 and 2002.								
9	8184	2	N	**SPRINGBROOK (MILL) CREEK**	BY98ES	0.245	23N	04E	13	Bis(2-ethylhexyl)phthalate		Water
				One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA stations 11H200 (near mouth) on 9/2/82.								
9	8645	2	N	**SPRINGBROOK (MILL) CREEK**	SQ03FA	0	23N	04E	24	Copper		Water
				Johnson, 2001, provides data collected by King County in 1998-1999 and by Landau Associates in 1990-2002 showing the chronic criterion is being met. 1 excursion beyond the criterion at Ecology ambient monitoring station 09E090 (RM 1.5) on 11/28/84.								
9	12646	2	N	**SPRINGBROOK (MILL) CREEK**	BY98ES	1.444	23N	04E	24	pH		Water
				King County unpublished data from station 317 show 6 excursions beyond the criteria out of 76 all samples collected between 1998 and 2002.								
9	7039	2	Y	**SPRINGBROOK (MILL) CREEK**	BY98ES	1.444	23N	04E	24	Temperature		Water
				King County unpublished data from station 317 (Springbrook Creek RM 1.0) show temperature criterion was exceeded in 1998 and 2000.							Assessment of the last 10 years of data indicate two excursions for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
9	4689	2	N	**STEEL LAKE**	117WKD	21N	04E	09		INVASIVE EXOTIC SPECIES		Habitat
				Ecology survey (Parsons and O'Neal, 2000) found Eurasian water-milfoil (Myriophyllum spicatum)							Changed from Category 4C to Category 2 on 01/31/05. In 2002, an active aquatic weed management program was implemented, including an annual milfoil eradication program. In 2003, Ecology approved the Steel Lake Integrated Aquatic Vegetative Management Plan. In 2004, the City of Federal Way formally created Lake Management District Number One for Steel Lake that will effectively manage aquatic weeds for a ten year period. -kk	
9	7494	2	N	**UNNAMED CREEK WDF# 09.0046**	ZR70IJ	0.944	22N	04E	34	Temperature		Water
				King County, 1993, 1 excursion beyond the upper criterion at station 409 (Unnamed Creek RM 2.1 - WDF# 09.0046) during 1992 and 1993.								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
9	15886	2	N	**UNNAMED CREEK WDF# 09.0046**	ZR70IJ	0.944	22N	04E	34	Temperature	Water
				King County, 1993, 1 excursion beyond the upper criterion at station 409 (Unnamed Creek RM 2.1 - WDF# 09.0046) during 1992 and 1993.							
9	21536	2	N	**WILDERNESS LAKE**	718FYY	22N	06E	27		Total Phosphorus	Water
				King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus exceeded the water quality standards TRS=22N-06E-27 -kk nutrient criterion in 2001 from samples collected between 1998-2002. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
10	7495	2	N	**BEAVER CREEK**	AD72YH	3.993	19N	07E	17	Temperature	Water
				Data collected by the Muckleshoot Indian Tribe (submitted by Chantal Stevens on 10/31/97) show 3 excursions beyond the criterion out of 60 samples (5%) during 8/97 and 9/97 at Beaver Creek RM 2.4.							
10	35410	2	N	**BOISE CREEK**	CT48DX	4.351	20N	07E	30	Fecal Coliform	Water
				Puyallup Tribe of Indians unpublished data at station BOI-1 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 122 cfu/100mL from 4 samples collected in 1999. Puyallup Tribe of Indians unpublished data at station BOI-1 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 123 cfu/100mL from 4 samples collected in 2001.							
10	35411	2	N	**BOISE CREEK**	CT48DX	0.406	20N	06E	35	Fecal Coliform	Water
				Puyallup Tribe of Indians unpublished data at station BOI-3 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 242 cfu/100mL from 4 samples collected in 1999. Puyallup Tribe of Indians unpublished data at station BOI-3 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 293 cfu/100mL from 4 samples collected in 2001. Puyallup Tribe of Indians unpublished data at station BOI-3 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 273 cfu/100mL from 4 samples collected in 2002.							
10	35338	2	N	**BOISE CREEK**	CT48DX	2.664	20N	06E	25	pH	Water
				Puyallup Tribe of Indians unpublished data at station BOI-2 (submitted by Char Naylor on 3 March 2003) show 4 excursions beyond the criterion from 28 measurements collected from 1999-2001.							
10	35339	2	N	**BOISE CREEK**	CT48DX	0.406	20N	06E	35	pH	Water
				Puyallup Tribe of Indians unpublished data at station BOI-3 (submitted by Char Naylor on 3 March 2003) show 4 excursions beyond the criterion from 28 measurements collected from 1999-2001.							
10	35343	2	N	**BOISE CREEK**	CT48DX	4.351	20N	07E	30	Temperature	Water
				Puyallup Tribe of Indians unpublished data at station BOI-1 (submitted by Char Naylor on 3 March 2003) show a 7-day mean of maximum daily temperature of 16.83 degrees C for the week ending 17 August 2002, with a maximum daily maximum temperature of 18.08 degrees C collected on 22 July 2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
10	**35344**	**2**	**N**	**BOISE CREEK**	**CT48DX**	**0.406**	**20N**	**06E**	**35**	**Temperature**	**Water**
				Puyallup Tribe of Indians unpublished data at station BOI-3 (submitted by Char Naylor on 3 March 2003) show a 7-day mean of maximum daily temperature of 17.52 degrees C for the week ending 25 July 2002, with a maximum daily maximum temperature of 18.62 degrees C collected on 22 July 2002.							
10	**9385**	**2**	**N**	**BOWMAN CREEK**	**AU19FR**	**0**	**21N**	**05E**	**30**	**Temperature**	**Water**
				Erickson (1999) station BOWMAN (Bowman Creek (BOWMAN)) shows 1 excursions beyond the criterion out of 6 samples collected between 06/96 - 11/97.							
10	**20318**	**2**	**N**	**CAMP CREEK**	**SS76DC**	**0**	**19N**	**09E**	**07**	**Temperature**	**Water**
				Department of Ecology unpublished data (submitted by Joanne Schuett-Hames, SWRO, on 13 December 2002) collected from WDFW Segment Number 10.0012 at River Mile 0.1 show the 7-day mean of daily maximum temperature of 15.64 with the highest daily maximum of 16.07 from measurements collected 7/17 - 9/2, 1996.							
10	**35407**	**2**	**N**	**CLARKS CREEK**	**AD37IU**	**0.069**	**20N**	**04E**	**19**	**Dissolved oxygen**	**Water**
				Puyallup Tribe of Indians unpublished data at station CLK-4 (submitted by Char Naylor on 3 March 2003) show excursions beyond the criterion from measurements collected in 1999 and 2001.							
10	**35398**	**2**	**N**	**CLEAR CREEK**	**UP04FV**	**0**	**20N**	**03E**	**11**	**Bioassessment**	**Other**
				Puyallup Tribe of Indians unpublished data (submitted by Char Naylor on 3 March 2003) show biological degredation of aquatic life based an Benthic Index of Biological Integrity (B-IBI) score of 18.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
10	**7500**	**2**	**N**	**CLEAR CREEK**	**UP04FV**	**0**	**20N**	**03E**	**11**	**Dissolved oxygen**	**Water**
				Ebbert, et al. 1987. , 1 excursion beyond the criterion (at 31st Avenue) on 11/3/84. Puyallup Tribe of Indians unpublished data at station CLR-3 (submitted by Char Naylor on 3 March 2003) show 5 excursions beyond the criterion from 18 measurements collected in 2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
10	**18883**	**2**	**N**	**CLEARWATER RIVER** Plotnikoff and Wiseman, 2002, at station 80D (Clearwater R) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.76.	**YH06OQ**	**3.831**	**19N**	**08E**	**16**	**Bioassessment**	This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	**Other**
10	**10176**	**2**	**N**	**COMMENCEMENT BAY** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station CMB003 (Commencement Bay - Browns Point) shows 2 excursions beyond the criterions out of 77 samples collected between 1993-2000	**390KRD**	**47122C4J4**	**47.295**	**122.445**		**pH**		**Water**
10	**8662**	**2**	**N**	**COMMENCEMENT BAY (INNER)** One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 11Y011 (Commencement Bay just off of Alexander Ave) on 6/3/80.	**AE20XP**	**47122C4I1**	**47.285**	**122.415**		**Benzene**		**Water**
10	**8664**	**2**	**N**	**COMMENCEMENT BAY (INNER)** One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 11Y007 (Mid-Channel of Blair- 100 yards upstream from Lincoln Street) on 6/3/80.	**AE20XP**	**0**	**21N**	**03E**	**99**	**Benzene**		**Water**
10	**8665**	**2**	**N**	**COMMENCEMENT BAY (INNER)** One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 11Y012 (Mid-Channel of Hylebos WW below 11th St. bridge) on 6/3/80. One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 11Y017 (Near North Shore of Hylebos across from Pennwalt facility) on 6/3/80. One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 11Y019 (Hylebos WW near south bank and below Kaiser drain) on 6/3/80.	**GK89AF**	**0**	**21N**	**03E**	**99**	**Benzene**		**Water**
10	**8663**	**2**	**N**	**COMMENCEMENT BAY (INNER)** 1 excursion beyond the chronic criterion for a dissolved sample collected at USGS station 471625122260001 (Commencement Bay near the mouth of the Puyallup River) on 8/25/83.	**AD37IU**	**47122C4G2**	**47.265**	**122.425**		**Copper**		**Water**
10	**8675**	**2**	**N**	**COMMENCEMENT BAY (INNER)** 1 excursion beyond the chronic criterion for a dissolved sample collected at USGS station 12102450 (Mouth of the Puyallup River) on 8/25/83.	**PX29AG**	**0**	**21N**	**03E**	**99**	**Copper**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
10	**8667**	**2**	**N**	**COMMENCEMENT BAY (INNER)**	**GK89AF**	**0**	**21N**	**03E**	**99**	**Tetrachloroethylene**	**Water**
				One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 11Y011 (Hylebos Waterway offshore of Old Hooker Solvent Plant) on 9/23/80.							
10	**8668**	**2**	**N**	**COMMENCEMENT BAY (INNER)**	**GK89AF**	**0**	**21N**	**03E**	**99**	**Trichloroethylene**	**Water**
				One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 11Y011 (Hylebos Waterway offshore of Old Hooker Solvent Plant) on 9/23/80.							
10	**35742**	**2**	**N**	**COMMENCEMENT BAY (OUTER)**	**390KRD**	**47122D4A4**	**47.305**	**122.445**		**Total PCBs**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in single muscle tissue tissue tissue tissue tissue tissue samples collected in 1999 from brown rockfish (Sebastes auriculatus) samples from station COMMBAY5. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was met in 1999 from quillback rockfish (Sebastes maliger) samples from station COMMBAY5.							
10	**10178**	**2**	**N**	**DALCO PASSAGE/POVERTY BAY**	**390KRD**	**47122D4B4**	**47.315**	**122.445**		**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station QMH002 (Quartermaster Harbor - Inner Harbor) shows 8 excursions beyond the criterions out of 18 samples collected between 1993-2000						This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern).	
10	**10180**	**2**	**N**	**DALCO PASSAGE/POVERTY BAY**	**390KRD**	**47122D4B4**	**47.315**	**122.445**		**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station QMH002 (Quartermaster Harbor - Inner Harbor) shows 8 excursions beyond the criterions out of 18 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
10	**22693**	**2**	**N**	**ECHO LAKE**	**638BJE**	**26N**	**04E**	**06**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 12 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion. King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus exceeded the water quality standards nutrient criterion in 2001. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
10	**35100**	**2**	**N**	**GOLDEN (NO. 1 - LARGEST) LAKE**	**465WJM**	**16N**	**07E**	**10**	**Total Phosphorus**	**Water**
				Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 10.7 ug/L in 1985 which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.						
10	**22696**	**2**	**N**	**GREENWATER, UPPER LAKE**	**571GHL**	**19N**	**11E**	**31**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 30 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.						
10	**18885**	**2**	**N**	**HYLEBOS CREEK**	**RL09XF**	**5.374**	**20N**	**04E** 06	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 127D (Hylebos Creek) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.25.					This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
10	**35409**	**2**	**N**	**HYLEBOS CREEK**	**RL09XF**	**5.374**	**20N**	**04E** 06	**Dissolved oxygen**	**Water**
				Puyallup Tribe of Indians unpublished data at station HYL-1 (submitted by Char Naylor on 3 March 2003) show 3 excursions beyond the criterion from 29 measurements collected in 2001 and 2002.						
10	**7510**	**2**	**Y**	**MEEKER DITCH**	**WC64LH**	**1.304**	**20N**	**04E** 33	**Dissolved oxygen**	**Water**
				Pierce County Conservation District data (submitted by Timothy Barbee on 6/26/97) show 2 excursions beyond the criterion out of 6 samples (33%) at stations 9D and 9H and 6 excursions beyond the criterion out of 6 samples at station 9C in 1996.					This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
10	**7507**	**2**	**Y**	**MEEKER DITCH** KCM (1996) shows the geometric mean criterion is exceeded in 1996 with 2 samples (data summary submitted 2/29/96 by the Puyallup Tribe).	**WC64LH**	**0**	**20N**	**04E**	**32**	**Fecal Coliform**	**Water**	This waterbody segment was incorrectly assessed and does not meet listing criteria for bacteria in WQ Policy 1-11, which indicates that a geometric mean cannot be computed with less than 5 samples. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.
10	**7509**	**2**	**Y**	**MEEKER DITCH** Pierce County Conservation District data (submitted by Timothy Barbee on 6/26/97) show 2 excursions beyond the criterion out of 5 samples (40%) in 1996 at station 9A.	**WC64LH**	**1.304**	**20N**	**04E**	**33**	**Temperature**	**Water**	The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.
10	**35403**	**2**	**N**	**PUYALLUP RIVER** Puyallup Tribe of Indians unpublished data (submitted by Char Naylor on 3 March 2003) show 1 excursion beyond the chronic criterion from samples collected in 2002 at RM 10.3.	**PX29AG**	**15.69**	**20N**	**04E**	**43**	**Copper**	**Water**	
10	**17520**	**2**	**N**	**PUYALLUP RIVER** Ebbert, 2002. Shows excursions beyond the criterion from measurements collected in 2000. Ebbert, 2002. Shows no excursions beyond the criterion from measurements collected in 2001. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A050 (Puyallup R @ Puyallup (USGS)) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A050 (Puyallup R @ Puyallup (USGS)) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 Ebbert, 2002. Shows excursions beyond the criterion from measurements collected in 2000. Ebbert, 2002. Shows no excursions beyond the criterion from measurements collected in 2001.	**PX29AG**	**7.735**	**20N**	**04E**	**18**	**Dissolved oxygen**	**Water**	
10	**17521**	**2**	**N**	**PUYALLUP RIVER** Ebbert, 2002. Shows excursions beyond the criterion from measurements collected in 2000. Ebbert, 2002. Shows no excursions beyond the criterion from measurements collected in 2001.	**PX29AG**	**3.908**	**20N**	**03E**	**11**	**Dissolved oxygen**	**Water**	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
10	**8677**	**2**	**N**	**PUYALLUP RIVER** Johnson, 1994. , 1 excursion beyond the chronic criterion at Meridian Street on 5/24/93. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A070 (PUYALLUP RIVER AT MERIDIAN ST) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 Johnson (1994) station 10A070 (AT BRIDGE ON MERIDIAN JUST N. OF PUYALLU) shows 1 excursions beyond the criterion out of 4 samples collected between 07/92 - 05/93. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A070 (PUYALLUP RIVER AT MERIDIAN ST) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 Johnson (1994) station 10A070 (AT BRIDGE ON MERIDIAN JUST N. OF PUYALLU) shows 1 excursions beyond the criterion out of 4 samples collected between 07/92 - 05/93.	**PX29AG**	**13.147**	**20N**	**04E**	**22**	**Lead**		**Water**
10	**35417**	**2**	**N**	**PUYALLUP RIVER** Puyallup Tribe of Indians unpublished data (submitted by Char Naylor on 3 March 2003) show 1 excursion beyond the chronic criterion from samples collected in 2002 at RM 10.3.	**PX29AG**	**15.69**	**20N**	**04E**	**43**	**Lead**		**Water**
10	**10874**	**2**	**N**	**PUYALLUP RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10A070 (PUYALLUP RIVER AT MERIDIAN ST) shows 1 excursions beyond the criterion out of 11 samples collected between 1993 - 2001	**PX29AG**	**13.147**	**20N**	**04E**	**22**	**Mercury**		**Water**
10	**36172**	**2**	**N**	**PUYALLUP RIVER** Puyallup Tribe of Indians unpublished data at RM 10.3 (submitted by Char Naylor on 3 March 2003) show a 7-day mean of maximum daily temperature of 17.48 degrees C for the week ending 15 August 2002, with a maximum daily maximum temperature of 18.18 degrees C collected on 9 August 2002.	**PX29AG**	**15.69**	**20N**	**04E**	**43**	**Temperature**		**Water**
10	**15914**	**2**	**N**	**PUYALLUP RIVER** Hallock, 2002. shows 6 excursions beyond the criterion out of 24 samples collected between 1992 and 2001 derived by the difference between the upstream station 10A110 (Puyallup R @ Orting) and the downstream station 10A070 (Puyallup R @ Meridian St).	**PX29AG**	**13.147**	**20N**	**04E**	**22**	**Turbidity**	Even though the data meet the policy, listing this segment under Category 5 is not recommended since there are also a number of cases where the turbidity at the upstream station is greater than the downstream station.	**Water**
10	**35340**	**2**	**N**	**SOUTH PRAIRIE CREEK** Puyallup Tribe of Indians unpublished data at station SPC-1 (submitted by Char Naylor on 3 March 2003) show 3 excursions beyond the criterion from 18 measurements collected in 2002.	**VC19MO**	**8.804**	**19N**	**06E**	**18**	**pH**		**Water**
10	**35341**	**2**	**N**	**SOUTH PRAIRIE CREEK** Puyallup Tribe of Indians unpublished data at station SPC-2 (submitted by Char Naylor on 3 March 2003) show 1 excursion beyond the criterion from 9 measurements collected in 2002.	**VC19MO**	**4.682**	**19N**	**05E**	**14**	**pH**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
10	**9862**	**2**	**N**	**SPIKETON CREEK**	**UW74TK**	**0**	**19N**	**06E**	**17**	**Fecal Coliform**	**Water**
				Roberts (2001) station SKTM (SPIKETON DITCH/CREEK) shows the geometric mean of 90.8404268413988 does not exceed the criterion and that 30 % of the samples exceeds the percentile criterion from 10 samples collected during 2001.; ;							
10	**9863**	**2**	**N**	**SPIKETON CREEK**	**UW74TK**	**0.606**	**19N**	**06E**	**09**	**Fecal Coliform**	**Water**
				Roberts (2001) station SD165 (SPIKETON DITCH/CREEK) shows the geometric mean of 283.068715621337 exceeds the criterion and that 75 % of the samples exceeds the percentile criterion from 4 samples collected during 2000.; Roberts (2001) station SD165 (SPIKETON DITCH/CREEK) shows the geometric mean of 680 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 2001.;							
10	**14763**	**2**	**N**	**UNNAMED CREEK**	**VC47MK**	**0**	**20N**	**05E**	**13**	**Dissolved oxygen**	**Water**
				Erickson (1999) station WRTRB15.5 (White River trib (WRTRB15.5)) shows 6 excursions beyond the criterion out of 6 samples collected between 06/96 - 11/97.							
10	**14764**	**2**	**N**	**UNNAMED CREEK**	**VC47MK**	**0**	**20N**	**05E**	**13**	**pH**	**Water**
				Erickson (1999) station WRTRB15.5 (White River trib (WRTRB15.5)) shows 1 excursions beyond the criterion out of 6 samples collected between 06/96 - 11/97.							
10	**35342**	**2**	**N**	**VOIGHT CREEK**	**AG77JE**	**0**	**19N**	**05E**	**33**	**pH**	**Water**
				Puyallup Tribe of Indians unpublished data at station VOI-1 (submitted by Char Naylor on 3 March 2003) show 3 excursions beyond the criterion from 18 measurements collected in 2002.							
10	**7516**	**2**	**Y**	**VOIGHT CREEK**	**AG77JE**	**0**	**19N**	**05E**	**33**	**Temperature**	**Water**
				Washington Dept. of Fish and Wildlife information (submitted by Hal Michael on 14 September 1995) show numerous excursions beyond the criterion at the inflow to the Puyallup Hatchery.						Information submitted is insufficient to support a Category 5 listing. No raw data appear in the reference, therefore the data cannot be assessed for actual exceedances. This listing will be placed on waters of concern category until further study and monitoring indicates the status of the water.	
10	**8679**	**2**	**N**	**WAPATO CREEK**	**ZV38XK**	**2.935**	**20N**	**03E**	**12**	**Benzene**	**Water**
				One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 11Y025 (east of Tacoma Thruway) on 6/3/80.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
10	**35413**	**2**	**N**	**WAPATO CREEK**	**ZV38XK**	**8.453**	**20N**	**04E**	**17**	**Fecal Coliform**	**Water**
				Puyallup Tribe of Indians unpublished data at station WAP-10 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 318 cfu/100mL from 3 samples collected in 1999. Puyallup Tribe of Indians unpublished data at station WAP-10 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 380 cfu/100mL from 4 samples collected in 2000. Puyallup Tribe of Indians unpublished data at station WAP-10 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 177 cfu/100mL from 2 samples collected in 2001. Puyallup Tribe of Indians unpublished data at station WAP-11 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 356 cfu/100mL from 3 samples collected in 1999. Puyallup Tribe of Indians unpublished data at station WAP-11 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 410 cfu/100mL from 4 samples collected in 2000. Puyallup Tribe of Indians unpublished data at station WAP-11 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 245 cfu/100mL from 2 samples collected in 2001.							
10	**35415**	**2**	**N**	**WAPATO CREEK**	**ZV38XK**	**7.012**	**20N**	**04E**	**18**	**Fecal Coliform**	**Water**
				Puyallup Tribe of Indians unpublished data at station WAP-4 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 884 cfu/100mL from 4 samples collected in 2000. Puyallup Tribe of Indians unpublished data at station WAP-4 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 398 cfu/100mL from 4 samples collected in 2001. Puyallup Tribe of Indians unpublished data at station WAP-4 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 690 cfu/100mL from 4 samples collected in 2002.							
10	**35416**	**2**	**N**	**WAPATO CREEK**	**ZV38XK**	**0.261**	**20N**	**03E**	**01**	**Fecal Coliform**	**Water**
				Puyallup Tribe of Indians unpublished data at station WAP-8 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 236 cfu/100mL from 3 samples collected in 1999. Puyallup Tribe of Indians unpublished data at station WAP-8 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 570 cfu/100mL from 4 samples collected in 2000. Puyallup Tribe of Indians unpublished data at station WAP-8 (submitted by Char Naylor on 3 March 2003) show a geometric mean of 141 cfu/100mL from 3 samples collected in 2001.							
10	**7522**	**2**	**Y**	**WHITE (STUCK) RIVER**	**LY34GL**	**9.004**	**21N**	**04E**	**36**	**Temperature**	**Water**
				Erickson, (1999) shows multiple excursions beyond the criterion (RM 6.3) during 1996. Review of the report shows 3 excursions out of 8 sampling days between 6/86 and 10/96.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
10	17512	2	N	**WHITE RIVER** Ebbert, 2003 shows a one-day minimum value of 7.9 mg/L on 3 September 2002 from measurements collected in 2002 for White River at RM 1.8. Ebbert, 2002. shows no excursions beyond the criterion from measurements collected in 2001. Unpublished data from the Puyallup TMDL Effectiveness Monitoring Project shows a 7-day mean of minimum values of 7.9 for week ending 27 September 2002.	LY34GL 2.468 20N 04E 42	Dissolved oxygen	Water	
10	42621	2	N	**WHITE RIVER** Hallock (2004), Dept. of Ecology ambient station 10C095 shows 1 of 4 samples (25%) in year 2001 exceeded the percentile criterion; 1 of 12 samples (8.3%) in year 2002 exceeded the percentile criterion; and 1 of 11 samples (9.1%) in year 2003 exceeded the	LY34GL 12.45 21N 05E 29	Fecal Coliform	Water	
10	14779	2	N	**WHITE RIVER** Erickson (1999) station WHI06.3 (White River (WHI06.3)) shows 5 excursions beyond the criterion out of 21 samples collected between 06/96 - 11/97.	LY34GL 10.405 21N 05E 31	pH	Water	
10	7523	2	Y	**WHITE RIVER** Erickson, (1999) shows multiple excursions beyond the criterion (RM 8.0) during 1996. Review of the report shows 3 excursions out of 8 sampling days between 6/86 and 10/96.	LY34GL 11.413 21N 05E 30	Temperature	Water	WASWIS reassigned from AU19FR 0.000 (which is Bowman Creek) to LY34GL 11.413 (White River) on 7/20/05. -kk The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.
10	10848	2	N	**WHITE RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 10C070 (White R @ Sumner) shows 1 excursions beyond the criterion out of 15 samples collected between 1993 - 2001 measured on these dates: 96/07/24,	LY34GL 0.505 20N 04E 49	Temperature	Water	
10	14787	2	N	**WHITE RIVER** Erickson (1999) station WHI06.3 (White River (WHI06.3)) shows 2 excursions beyond the criterion out of 6 samples collected between 06/96 - 11/97.	LY34GL 10.405 21N 05E 31	Temperature	Water	
11	22705	2	N	**ALDER LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 28 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.	365CMT 46122H2H7 46.775 122.275	Total Phosphorus	Water	The basis cited for the assessment applies to the entire lake. The center grid segment of the lake was selected to represent this information.
11	22706	2	N	**BALD HILL LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	569DTJ 00U XXU 00	Total Phosphorus	Water	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
11	**7528**	**2**	**Y**	**CATT CREEK**	**SG29YL**	**0**	**14N**	**07E**	**18**	**Temperature**	**Water**	
				2 excursions beyond the criterion sampled between 7/1/96 and 9/1/96 sampled by Gifford Pinchot National Forest (submitted by Jon Gier on 10/29/97)								The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.
11	**22365**	**2**	**N**	**EATON CREEK**	**XR83PB**	**0**	**17N**	**01E**	**06**	**Dissolved oxygen**	**Water**	
				Nisqually River Education Project station Eaton Creek show an excrusion beyond the criterion from measurements collected in March 2001.								
11	**22175**	**2**	**N**	**HIAWATHA CREEK**	**RD96FM**	**0**	**14N**	**04E**	**09**	**Temperature**	**Water**	
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.8 degrees C with 26 days that exceeded the criterion from continuous measurements collected during 2002 at the station called 'Hiawatha Creek at Little Nisqually River confluence'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.4 degrees C from continuous measurements collected during 2001 at the station called 'Hiawatha Creek at Little Nisqually River confluence'.								
11	**22707**	**2**	**N**	**KREGER LAKE**	**422OFF**	**16N**	**03E**	**14**		**Total Phosphorus**	**Water**	
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 442 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.								
11	**22366**	**2**	**N**	**LACAMAS CREEK**	**XL66UK**	**0**	**18N**	**02E**	**34**	**Dissolved oxygen**	**Water**	
				Nisqually River Education Project station Lacamas@Crk.@288th S show an excrusion beyond the criterion from measurements collected 17 October 2002.								
11	**22708**	**2**	**N**	**LAGRANDE LAKE**	**167SIP**	**16N**	**04E**	**33**		**Total Phosphorus**	**Water**	
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 26 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.								
11	**22709**	**2**	**N**	**LITTLE (LITTLE HART) LAKE**	**560PHQ**	**16N**	**03E**	**07**		**Total Phosphorus**	**Water**	
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 21 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.								
11	**34852**	**2**	**N**	**MASHEL RIVER**	**KU71FS**	**23.336**	**16N**	**05E**	**25**	**Temperature**	**Water**	
				Nisqually Indian Tribe unpublished data (submitted by Sayre Hodgson on 6 February 2003) at RM MR146 show a 7-day mean of maximum daily temperature of 15.5 degrees C, with a maximum daily temperature of 16.5 degrees C from continuous measurements collected in 1993. Nisqually Indian Tribe unpublished data (submitted by Sayre Hodgson on 6 February 2003) at RM MR146 show a 7-day mean of maximum daily temperature of 17.5 degrees C, with a maximum daily temperature of 18.4 degrees C from continuous measurements collected in 1994. Nisqually Indian Tribe unpublished data (submitted by Sayre Hodgson on 6 February 2003) at RM MR146 show a 7-day mean of maximum daily temperature of 17.9 degrees C, with a maximum daily temperature of 19.1 degrees C from continuous measurements collected in 1996.								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
11	**22369**	**2**	**N**	**MCALLISTER CREEK** Nisqually River Education Project station McAllister@Fish Hatchery show excursions beyond the criterion from measurements collected in Mach 2001 and on 17 October 2002.	**LD26OX**	**5.21**	**18N**	**01E**	**40**	**Dissolved oxygen**	**Water**	
11	**9880**	**2**	**N**	**MCALLISTER CREEK** Data from the Dept. of Ecology EIM database for the Project BEDI0005 (MCALLISTER CREEK WATER QUALITY SURVEY) station MED46 (MCALLISTER CREEK MED46) shows the geometric mean of 114.987744448519 exceeds the criterion and that 27.2727272727273 % of the samples exceeds the percentile criterion from 11 samples collected during 2001.	**UV40CA**	**0**	**18N**	**01E**	**40**	**Fecal Coliform**	**Water**	
11	**22370**	**2**	**N**	**MUCK CREEK** Nisqually River Education Project station Muck Creek@8th Av E show excursions beyond the criterion from measurements collected in March 2002 and on 17 October 2002.	**HN77NY**	**21.524**	**18N**	**03E**	**28**	**Dissolved oxygen**	**Water**	
11	**22411**	**2**	**N**	**MUCK CREEK** Nisqually River Education Project station Muck Creek@8th Av E data show a geometric mean of 520 cfu/100mL from 1 samples collected in 2001. Nisqually River Education Project station Muck Creek@8th Av East data show a geometric mean of 164 cfu/100mL from 2 samples collected in 2002. Nisqually River Education Project station Muck Creek@8th Ave. South data show a geometric mean of 68 cfu/100mL from 1 samples collected in 2002.	**HN77NY**	**21.524**	**18N**	**03E**	**28**	**Fecal Coliform**	**Water**	
11	**22710**	**2**	**N**	**MUD LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 118 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.	**630SQG**	**25N**	**08E**	**11**		**Total Phosphorus**	**Water**	
11	**22711**	**2**	**N**	**NISQUALLY LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 48 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	**353UWX**	**00U**	**XXU**	**00**		**Total Phosphorus**	**Water**	
11	**39751**	**2**	**Y**	**NISQUALLY REACH/DRAYTON PASSAGE** Department of Health unpublished data collected from station NISQUALLY REACH-246 show a geometric mean of 6 cfu/100mL and 10% of samples exceed the percentile criterion with the last sample collected on 3-Dec-2001.	**390KRD**	**47122B6B9**	**47.115**		**122.695**	**Fecal Coliform**	**Water**	Recent Department of Health monitoring data indicates that this water segment is meeting fecal coliform standards. Previous listing was based on data from 1990. Listing will be placed on the waters of concern list until further monitoring verifies the water continues to meet criteria.
11	**8682**	**2**	**N**	**NISQUALLY RIVER** One excursion beyond the criterion at Ecology ambient monitoring station 11A070 (RM 3.4) on 10/26/88.	**OE72JI**	**5.653**	**18N**	**01E**	**08**	**Chromium**	**Water**	A single excursion beyond the criterion does not meet the Water Quality Program Policy for listing.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
11	**16718**	**2**	**N**	**NISQUALLY RIVER**	**OE72JI**	**34.052**	**17N**	**02E**	**28**	**Fecal Coliform**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 11A080 (Nisqually R. at McKenna) shows a geometric mean of 18 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 1993, with only 1 sample that exceeds the percentile criterion..						
11	**35781**	**2**	**N**	**NISQUALLY RIVER**	**OE72JI**	**3.838**	**18N**	**01E**	**38**	**Total PCBs**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle samples collected in 1993-1995 from chinook salmon (Oncorhynchus tshawytscha) samples from station NISQUALY. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle samples collected in 1993-1996 from coho salmon (Oncorhynchus kisutch) samples from station NISQUALY. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of 4 muscle samples collected in 2000 from coho salmon (Oncorhynchus kisutch) samples from station NISQUALY.					Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	
11	**22712**	**2**	**N**	**RAPJOHN LAKE**	**072IEX**	**17N**	**04E**	**31**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 24 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
11	**18909**	**2**	**N**	**ST. CLAIR (NORTH ARM) LAKE**	**002QIU**	**17N**	**01E**	**06**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 78 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
11	**18902**	**2**	**N**	**STIDHAM LAKE**	**537VGU**	**17N**	**04E**	**22**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 127 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
11	**18903**	**2**	**N**	**TANWAX LAKE**	**118XWL**	**17N**	**04E**	**23**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 30 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
11	**22713**	**2**	**N**	**TULE LAKE**	**313UJV**	**16N**	**03E**	**09**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 55 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 385 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
11	**18888**	**2**	**N**	**TWENTY-FIVE MILE CREEK** Plotnikoff and Wiseman, 2002, at station 89D (Twentyfivemile Cr) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.74.	**UZ01ZH**	**0**	**17N**	**04E**	**26**	**Bioassessment**	**Other**	This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk
11	**18904**	**2**	**N**	**TWENTYSEVEN LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 21 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	**416DMH**	**17N**	**04E**	**27**		**Total Phosphorus**	**Water**	
11	**18905**	**2**	**N**	**TWIN LAKE, NORTH** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	**IX51UB**	**32N**	**35E**	**10**		**Total Phosphorus**	**Water**	
11	**18906**	**2**	**N**	**TWIN LAKE, SOUTH** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	**GZ46ZG**	**32N**	**35E**	**22**		**Total Phosphorus**	**Water**	
11	**18907**	**2**	**N**	**WHITMAN LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	**079RCG**	**17N**	**04E**	**14**		**Total Phosphorus**	**Water**	
11	**22423**	**2**	**N**	**YELM CREEK** Nisqually River Education Project station Yelm Creek@Mouth data show a geometric mean of 124 cfu/100mL from 1 samples collected in 2001. Nisqually River Education Project station Yelm Creek@Nisqually data show a geometric mean of 12 cfu/100mL from 1 samples collected in 2001. Nisqually River Education Project station Yelm Creek@Nisqually data show a geometric mean of 8 cfu/100mL from 1 samples collected in 2002. Nisqually River Education Project station Yelm Creek@Nisqually data show a geometric mean of 12 cfu/100mL from 1 samples collected in 2001. Nisqually River Education Project station Yelm Creek@Nisqually data show a geometric mean of 8 cfu/100mL from 1 samples collected in 2002. Nisqually River Education Project station Yelm Creek@Mouth data show a geometric mean of 124 cfu/100mL from 1 samples collected in 2001.	**NW22QO**	**0**	**17N**	**01E**	**12**	**Fecal Coliform**	**Water**	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
12	**18889**	**2**	**N**	**CHAMBERS CREEK** Plotnikoff and Wiseman, 2002, at station 78D (Chambers Cr at Steilacoom Lake) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.32.	**DO71CI**	**7.24**	**20N**	**02E**	**42**	**Bioassessment**	This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	**Other**
12	**10881**	**2**	**N**	**CHAMBERS CREEK** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12A100 (Chambers Cr blw Steilacoom Lk) shows 1 excursions beyond the criterion out of 10 samples collected between 1993 - 2001	**DO71CI**	**7.24**	**20N**	**02E**	**42**	**pH**		**Water**
12	**7534**	**2**	**Y**	**CHAMBERS CREEK** Washington Dept. of Fish and Wildlife data (submitted by Hal Michael on 14 September 1995) show numerous excursions beyond the criterion at the inflow to the Chambers Creek Hatchery.	**DO71CI**	**6.107**	**20N**	**02E**	**41**	**Temperature**	Information submitted is insufficient to support a Category 5 listing. No raw data appear in the reference. This listing will be placed on waters of concern category until further study and monitoring indicates the status of the water.	**Water**
12	**8248**	**2**	**N**	**CHAMBERS CREEK** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12A070 (Chambers Cr nr Steilacoom) shows 1 excursions beyond the criterion out of 14 samples collected between 1993 - 2001 measured on these dates: 96/07/24, Johnson (1996) station 12A070 (LOCATED AT CHAMBERS CREEK ROAD BRIDGE 1) shows 0 excursions beyond the criterion out of 4 samples collected between 08/95 - 10/95. Unpublished data from the Dept. of Ecology EIM database for the Project AJOH0023 (1995 CHAMBERS/CLOVER CR METALS) station 12A070 (LOCATED AT CHAMBERS CREEK ROAD BRIDGE 1) shows 0 excursions beyond the criterion out of 4 samples collected between 08/95 - 10/95. Johnson (1996) station 12A070 (LOCATED AT CHAMBERS CREEK ROAD BRIDGE 1) shows 0 excursions beyond the criterion out of 4 samples collected between 08/95 - 10/95. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12A070 (Chambers Cr nr Steilacoom) shows 1 excursions beyond the criterion out of 14 samples collected between 1993 - 2001 measured on these dates: 96/07/24, Unpublished data from the Dept. of Ecology EIM database for the Project AJOH0023 (1995 CHAMBERS/CLOVER CR METALS) station 12A070 (LOCATED AT CHAMBERS CREEK ROAD BRIDGE 1) shows 0 excursions beyond the criterion out of 4 samples collected between 08/95 - 10/95.	**DO71CI**	**1.488**	**20N**	**02E**	**99**	**Temperature**		**Water**
12	**10883**	**2**	**N**	**CHAMBERS CREEK** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12A100 (Chambers Cr blw Steilacoom Lk) shows 2 excursions beyond the criterion out of 10 samples collected between 1993 - 2001 measured on these dates: 97/07/23, 97/09/23,	**DO71CI**	**7.24**	**20N**	**02E**	**42**	**Temperature**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
12	**7537**	**2**	**Y**	**CLOVER CREEK** 4 excursions beyond the criterion at USGS station 12090330 (at Military Road near Spanaway) in 1991.	**PS92IZ**	**17.164**	**19N**	**03E**	**25**	**Dissolved oxygen**	**Water**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
12	**7539**	**2**	**N**	**CLOVER CREEK** 3 excursions beyond the criterion at USGS station 12090355 (at 25th Ave E near Parkland) in 1991.	**PS92IZ**	**12.249**	**19N**	**03E**	**48**	**Dissolved oxygen**	**Water**	
12	**7540**	**2**	**Y**	**CLOVER CREEK** 6 excursions beyond the criterion at USGS station 12090500 (near Tillicum) in 1991.	**PS92IZ**	**2.126**	**19N**	**02E**	**48**	**Dissolved oxygen**	**Water**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
12	**7541**	**2**	**Y**	**CLOVER CREEK** 3 excursions beyond the criterion at USGS station 12090602 (at Gravelly Lake drive near Tacoma) in 1991; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12A110 (Clover Cr abv Steilacoom Lk) shows 0 excursions beyond the criterion out of 5 samples collected between 1993 - 2001 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12A110 (Clover Cr abv Steilacoom Lk) shows 0 excursions beyond the criterion out of 5 samples collected between 1993 - 2001	**PS92IZ**	**0.546**	**19N**	**02E**	**11**	**Dissolved oxygen**	**Water**	Recent data from Ecology monitoring from 1993-2001 shows that temperature standards are being met. Previous listings were based on data from 1991.
12	**7535**	**2**	**N**	**CLOVER CREEK** McCarthy, 1996. , 1 excursions beyond the criteria out of 7 samples (14%) at station 330 from 1991 to 1992;	**PS92IZ**	**17.164**	**19N**	**03E**	**25**	**Fecal Coliform**	**Water**	Fecal coliform data were available only in hardcopy form. The water segment is listed as Category 2 based on the assessment.

1998

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
12	**9419**	**2**	**N**	**CLOVER CREEK**	**PS92IZ**	**0.546**	**19N**	**02E**	**11**	**Lead**	**Water**
				Johnson (1996) station 12A110 (LOCATED ON CLOVER CREST DRIVE JUST OFF G) shows 1 excursions beyond the criterion out of 4 samples collected between 08/95 - 10/95. Unpublished data from the Dept. of Ecology EIM database for the Project AJOH0023 (1995 CHAMBERS/CLOVER CR METALS) station 12A110 (LOCATED ON CLOVER CREST DRIVE JUST OFF G) shows 1 excursions beyond the criterion out of 4 samples collected between 08/95 - 10/95. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12A110 (Clover Cr abv Steilacoom Lk) shows 0 excursions beyond the criterion out of 3 samples collected between 1993 - 2001 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12A110 (Clover Cr abv Steilacoom Lk) shows 0 excursions beyond the criterion out of 3 samples collected between 1993 - 2001 Johnson (1996) station 12A110 (LOCATED ON CLOVER CREST DRIVE JUST OFF G) shows 1 excursions beyond the criterion out of 4 samples collected between 08/95 - 10/95. Unpublished data from the Dept. of Ecology EIM database for the Project AJOH0023 (1995 CHAMBERS/CLOVER CR METALS) station 12A110 (LOCATED ON CLOVER CREST DRIVE JUST OFF G) shows 1 excursions beyond the criterion out of 4 samples collected between 08/95 - 10/95.							
12	**9421**	**2**	**N**	**CLOVER CREEK**	**PS92IZ**	**0.546**	**19N**	**02E**	**11**	**Mercury**	**Water**
				Johnson (1996) station 12A110 (LOCATED ON CLOVER CREST DRIVE JUST OFF G) shows 1 excursions beyond the criterion out of 3 samples collected between 08/95 - 10/95. Data from the Dept. of Ecology EIM database for the Project AJOH0023 (1995 CHAMBERS/CLOVER CR METALS) station 12A110 (LOCATED ON CLOVER CREST DRIVE JUST OFF G) shows 1 excursions beyond the criterion out of 3 samples collected between 08/95 - 10/95. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12A110 (Clover Cr abv Steilacoom Lk) shows 1 excursions beyond the criterion out of 3 samples collected between 1993 - 2001							
12	**7536**	**2**	**N**	**CLOVER CREEK**	**PS92IZ**	**6.487**	**19N**	**03E**	**42**	**pH**	**Water**
				One excursion beyond the criterion at USGS station 12090430 (at 17th Ave S. near Parkland) on 4/21/92.							
12	**7538**	**2**	**N**	**CLOVER CREEK**	**PS92IZ**	**12.249**	**19N**	**03E**	**48**	**Temperature**	**Water**
				One excursion beyond the criterion at USGS station 12090355 (at 25th Ave E near Parkland) on 9/4/91;							
12	**7551**	**2**	**Y**	**CLOVER CREEK**	**PS92IZ**	**11.027**	**19N**	**03E**	**47**	**Temperature**	**Water**
				2 excursions beyond the criterion at USGS station 12090360 (Below 138th Street S. near Parkland) on 6/11/91 and 6/26/91;						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
12	**7552**	**2**	**Y**	**CLOVER CREEK** 4 excursions beyond the criterion at USGS station 12090500 (near Tillicum) in 1991.	**PS92IZ**	**2.126**	**19N**	**02E**	**48**	**Temperature**	The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	**Water**
12	**7554**	**2**	**Y**	**CLOVER CREEK** McCarthy, 1996. , 2 excursions beyond the criterion out of 17 samples (12%) at station 460 from 1991 to 1992;.	**MK20YT**	**0**	**19N**	**03E**	**42**	**Temperature**	The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	**Water**
12	**35828**	**2**	**N**	**COMMENCEMENT BAY (OUTER)** Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in single muscle tissue tissue tissue tissue tissue samples collected in 1999 from brown rockfish (Sebastes auriculatus) samples from station COMMBAY2.	**390KRD**	**47122C4I7**		**47.285**	**122.475**	**Total PCBs**		**Tissue**
12	**22715**	**2**	**N**	**GRAVELLY LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 26 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	**302RYA**	**19N**	**02E**	**10**		**Total Phosphorus**		**Water**
12	**3743**	**2**	**N**	**LEACH CREEK** Johnson (1996) station LEACH (LEACH CREEK AT MOUTH (CHAMBERS CK)) shows 1 excursions beyond the criterion out of 2 samples collected between 08/95 - 10/95. Data from the Dept. of Ecology EIM database for the Project AJOH0023 (1995 CHAMBERS/CLOVER CR METALS) station LEACH (LEACH CREEK AT MOUTH (CHAMBERS CK)) shows 1 excursions beyond the criterion out of 2 samples collected between 08/95 - 10/95.	**GY44AY**	**0**	**20N**	**02E**	**27**	**Lead**		**Water**
12	**40821**	**2**	**N**	**PONCE DE LEON CREEK** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12D050 (Ponce de Leon Ck nr mouth) shows 1 excursions beyond the criterion out of 1 samples collected between 1993 - 2001 measured on these dates: 97/01/22,	**UNK000**					**Dissolved oxygen**		**Water**
12	**40820**	**2**	**N**	**PONCE DE LEON CREEK** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12D050 (Ponce de Leon Ck nr mouth) shows 1 excursions beyond the criterion out of 5 samples collected between 1993 - 2001 measured on these dates: 97/06/18,	**UNK000**					**Temperature**		**Water**
12	**14803**	**2**	**N**	**SEQUALITCHEW CREEK** Data from the Dept. of Ecology EIM database for the Project SPASM (SOUTH PUGET SOUND MODEL) station SEQ01 (SEQUALITCHEW CREEK NEAR BARKSDALE AVE) shows 3 excursions beyond the criterion out of 3 samples collected between 03/99 - 09/99.	**KU60ZF**	**1.467**	**19N**	**01E**	**26**	**Dissolved oxygen**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
12	22716	2	N	**SEQUALITCHEW LAKE**	823ZVR	19N	01E	24		Total Phosphorus	Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 21 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
12	7557	2	Y	**SPANAWAY CREEK**	FC86XG	2.708	19N	03E	49	Temperature	Water
				McCarthy, 1996. , 3 excursions beyond the criteria out of 23 samples (13%) at Station 452 (Spanaway Creek at Spanaway Lake outlet) from 1991 to 1992.						The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
12	6145	2	N	**SPANAWAY LAKE**	900AKK	19N	03E	20		Total Phosphorus	Water
				Smith et al. (2000) concludes that designated uses are not being supported. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 10 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
12	22717	2	N	**WAUGHOP LAKE**	795YBY	19N	02E	04		Total Phosphorus	Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 584 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
13	18912	2	N	**BIGELOW LAKE**	045YPK	18N	02W	40		Total Phosphorus	Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
13	43014	2	N	**BUDD INLET (INNER)**	390KRD	47122A9F0	47.055	122.905		Dissolved oxygen	Water
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 4 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/25/2001).							
13	43015	2	N	**BUDD INLET (INNER)**	390KRD	47122A9F0	47.055	122.905		Dissolved oxygen	Water
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 5 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/25/2001).							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information				Parameter	Remarks	Medium
13	**5859**	**2**	**Y**	**BUDD INLET (INNER)** Data collected by Ecology (summarized by Eisner and Newton, 1997) show 2 excursions beyond the upper criterion out of 9 samples (22%) at station BA-2 between 1992 and 1994.	**390KRD**	**47122A9H1**	**47.075**	**122.915**	**pH**	This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
13	**5860**	**2**	**Y**	**BUDD INLET (INNER)** Data collected by Ecology (summarized by Eisner and Newton, 1997) show 2 excursions beyond the upper criterion out of 10 samples (20%) at station BI-1 between 1992 and 1994.	**390KRD**	**47122A8F9**	**47.055**	**122.895**	**pH**	This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
13	**5861**	**2**	**Y**	**BUDD INLET (INNER)** Data collected by Ecology (summarized by Eisner and Newton, 1997) show 2 excursions beyond the upper criterion out of 10 samples (20%) at station BI-3 between 1992 and 1994.	**390KRD**	**47122A9G0**	**47.065**	**122.905**	**pH**	This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
13	**5854**	**2**	**N**	**BUDD INLET (INNER)** Data collected by Ecology (summarized by Eisner and Newton, 1997) show 7 excursions beyond the criterion out of 26 samples (27%) at station BI-1 between 1992 and 1994.	**390KRD**	**47122A8F9**	**47.055**	**122.895**	**Temperature**	This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
13	**5855**	**2**	**N**	**BUDD INLET (INNER)**	**390KRD**	**47122A8G9**	**47.065**	**122.895**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 12 excursions beyond the criterion out of 48 samples (25%) at station BI-2 between 1992 and 1994.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
13	**5857**	**2**	**N**	**BUDD INLET (INNER)**	**390KRD**	**47122A9E0**	**47.045**	**122.905**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 12 excursions at station BI-5 between 1992 and 1994. Data collected by Ecology (summarized by Eisner and Newton, 1997) show 7 excursions at station BI-6 between 1992 and 1994						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
13	**5858**	**2**	**N**	**BUDD INLET (INNER)**	**390KRD**	**47122A9G0**	**47.065**	**122.905**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 9 excursions beyond the criterion out of 47 samples (19%) at station BI-3 between 1992 and 1994.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
13	**7562**	**2**	**N**	**BUDD INLET (INNER)**	**390KRD**	**47122A9H1**	**47.075**	**122.915**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 26 excursions beyond the criterion out of 47 samples (55%) at station BA-2 between 1992 and 1994.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
13	**40580**	**2**	**N**	**BUDD INLET (INNER)**	**390KRD**	**47122A9F0**	**47.055**	**122.905**	**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station BUD002 (Budd Inlet - S. End Oly Port) shows 2 excursions beyond the criterions out of 37 samples collected between 1993-2000 Data collected by Ecology (summarized by Eisner and Newton, 1997) show 12 excursions beyond the criterion out of 48 samples (25%) at station BI-4 between 1992 and 1994. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station BUD002 (Budd Inlet - S. End Oly Port) shows 2 excursions beyond the criterions out of 37 samples collected between 1993-2000					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
13	**10188**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122A9J1**	**47.095**	**122.915**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station BUD005 (Budd Inlet - Olympia Shoal) shows 12 excursions beyond the criterions out of 97 samples collected between 1993-2000						
13	**43016**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122A9I1**	**47.085**	**122.915**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 7 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/25/2001).						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information				Parameter	Medium / Remarks
13	**7577**	**2**	**Y**	**BUDD INLET (OUTER)** Data collected by Ecology (summarized by Eisner and Newton, 1997) show 2 excursions beyond the upper criterion out of 7 samples (29%) at station BC-1 between 1992 and 1994.	**390KRD**	**47122A8J9**	**47.095**	**122.895**	**pH**	**Water** This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
13	**7578**	**2**	**Y**	**BUDD INLET (OUTER)** Data collected by Ecology (summarized by Eisner and Newton, 1997) show 2 excursions beyond the upper criterion out of 7 samples (29%) at station BC-2 between 1992 and 1994.	**390KRD**	**47122B9A0**	**47.105**	**122.905**	**pH**	**Water** This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
13	**7580**	**2**	**Y**	**BUDD INLET (OUTER)** Data collected by Ecology (summarized by Eisner and Newton, 1997) show 2 excursions beyond the upper criterion out of 8 samples (25%) at station BC-3 between 1992 and 1994.	**390KRD**	**47122B9A1**	**47.105**	**122.915**	**pH**	**Water** This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
13	**7581**	**2**	**Y**	**BUDD INLET (OUTER)** Data collected by Ecology (summarized by Eisner and Newton, 1997) show 2 excursions beyond the upper criterion out of 9 samples (22%) at station BE-2 between 1992 and 1994.	**390KRD**	**47122B9C1**	**47.125**	**122.915**	**pH**	**Water** This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
13	**3766**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122B9E2**	**47.145**	**122.925**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 6 excursions beyond the criterion out of 10 samples (60%) at station BF-3 between 1992 and 1994.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
13	**3767**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122B9E1**	**47.145**	**122.915**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 7 excursions beyond the criterion out of 13 samples (54%) at station BF-2 between 1992 and 1994.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
13	**7559**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122B9A0**	**47.105**	**122.905**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 21 excursions beyond the criterion out of 30 samples (70%) at station BC-2 between 1992 and 1994.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
13	**7560**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122A8J9**	**47.095**	**122.895**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 17 excursions beyond the criterion out of 28 samples (61%) at station BC-1 between 1992 and 1994.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
13	**7561**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122B9A2**	**47.105**	**122.925**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 16 excursions beyond the criterion out of 28 samples (57%) at station BC-4 between 1992 and 1994.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
13	**7563**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122A9I0**	**47.085**	**122.905**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 13 excursions beyond the criterion out of 24 samples (54%) at station BB-1 between 1992 and 1994.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
13	**7564**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122A9I2**	**47.085**	**122.925**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 12 excursions beyond the criterion out of 23 samples (52%) at station BB-3 between 1992 and 1994.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
13	**7565**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122B9A1**	**47.105**	**122.915**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 23 excursions beyond the criterion out of 45 samples (51%) at station BC-3 between 1992 and 1994.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
13	**7566**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122B8B9**	**47.115**	**122.895**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 11 excursions beyond the criterion out of 22 samples (50%) at station BD-1 between 1992 and 1994.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
13	**7567**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122A9I1**	**47.085**	**122.915**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 24 excursions beyond the criterion out of 49 samples (49%) at station BB-2 between 1992 and 1994.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
13	**7568**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122B9B1**	**47.115**	**122.915**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 22 excursions beyond the criterion out of 45 samples (49%) at station BD-2 between 1992 and 1994.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
13	**7569**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122B9B2**	**47.115**	**122.925**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 10 excursions beyond the criterion out of 21 samples (48%) at station BD-3 between 1992 and 1994.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
13	**7570**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122B9C1**	**47.125**	**122.915**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 18 excursions beyond the criterion out of 40 samples (45%) at station BE-2 between 1992 and 1994.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
13	**7571**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122B9C2**	**47.125**	**122.925**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 10 excursions beyond the criterion out of 24 samples (42%) at station BE-3 between 1992 and 1994.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
13	**7572**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122B9D0**	**47.135**	**122.905**	**Temperature**	**Water**
				Data collected by Ecology (summarized by Eisner and Newton, 1997) show 8 excursions beyond the criterion out of 23 samples (35%) at station BE-1 between 1992 and 1994.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
13	**10190**	**2**	**N**	**BUDD INLET (OUTER)**	**390KRD**	**47122A9J1**	**47.095**	**122.915**		**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station BUD005 (Budd Inlet - Olympia Shoal) shows 20 excursions beyond the criterions out of 97 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
13	**9434**	**2**	**N**	**CAPITOL LAKE OUTLET**	**QV20EB**	**0.006**	**18N**	**02W**	**46**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project SPASM (SOUTH PUGET SOUND MODEL) station CAP02 (CAPITAL LAKE OUTLET) shows 2 excursions beyond the criterion out of 7 samples collected between 03/99 - 09/99.							
13	**10196**	**2**	**N**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122B8G6**	**47.165**	**122.865**		**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station DNA001 (Dana Passage - S. of Brisco Point) shows 24 excursions beyond the criterions out of 92 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that this location does not suggest that the exceedances are the result of anthropogenic inputs. The site is located in an area that is typically well mixed and is not expected to be subject to loclized degrdaion of D.O. levels. Agree with earlier Ecology decision that these exceedances are a natural condition. These excursions beyond the criterion are a natural condition with no direct human-caused influence due to natural variations in the marine environment, based on the 11/03 judgment of Jan Newton (Dept. of Ecology).	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
13	**10197**	**2**	**Y**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122B8G6**	**47.165**	**122.865**		**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station DNA001 (Dana Passage - S. of Brisco Point) shows 3 excursions beyond the criterions out of 79 samples collected between 1993-2000						This water was previously listed under the name "Squaxin, Peale and Pickering Passages." A reassessment of data indicates that three exceedances out of 79 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water.	
13	**10198**	**2**	**N**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122B8G6**	**47.165**	**122.865**		**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station DNA001 (Dana Passage - S. of Brisco Point) shows 36 excursions beyond the criterions out of 95 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
13	**22719**	**2**	**N**	**CHAMBERS LAKE**	**216MLW**	**11N**	**10E**	**02**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 26 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 5.4 ug/L in 1985 which does not exceed the water quality standards nutrient criterion for the Cascades Ecoregion.							
13	**22720**	**2**	**N**	**CHAMBERS, LITTLE**	**084EEY**	**18N**	**01W**	**29**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 22 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
13	**35848**	**2**	**N**	**DESCHUTES RIVER**	**TM40PW**	**1.076**	**18N**	**02W**	**60**	**4,4'-DDE**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle samples collected in 1994 and 1995 from chinook salmon (Oncorhynchus tshawytscha) samples from station DESCHUTE. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was met in 1993-1996 from coho salmon (Oncorhynchus kisutch) samples from station DESCHUTE.						Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
13	**35863**	**2**	**N**	**DESCHUTES RIVER**	**TM40PW**	**1.076**	**18N**	**02W**	**60**	**Bis(2-ethylhexyl)phthalate**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle samples collected in 1994 from chinook salmon (Oncorhynchus tshawytscha) samples from station DESCHUTE. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was met in 1993-1994 from coho salmon (Oncorhynchus kisutch) samples from station DESCHUTE.						Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	
13	**9437**	**2**	**N**	**DESCHUTES RIVER**	**TM40PW**	**31.504**	**16N**	**01E**	**18**	**Dissolved oxygen**	**Water**
				Summers (2001) station SRIW1305 (WATER QUALITY AT HWY 507 BRIDGE) shows 1 excursions beyond the criterion measured on these dates: 01/06/11, Hallock (2001) Dept. of Ecology Ambient Monitoring Station 13A150 (Deschutes R nr Rainier) shows 0 excursions beyond the criterion out of 8 samples collected between 1993 - 2001 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 13A150 (Deschutes R nr Rainier) shows 0 excursions beyond the criterion out of 8 samples collected between 1993 - 2001 Summers (2001) station SRIW1305 (WATER QUALITY AT HWY 507 BRIDGE) shows 1 excursions beyond the criterion measured on these dates: 01/06/11,							
13	**7594**	**2**	**N**	**DESCHUTES RIVER**	**TM40PW**	**24.439**	**16N**	**01W**	**03**	**Temperature**	**Water**
				Davis, et al. 1993. 1 excursion beyond the criterion on 7/30/91at RM 16.25.							
13	**7595**	**2**	**N**	**DESCHUTES RIVER**	**TM40PW**	**40.188**	**16N**	**01E**	**26**	**Temperature**	**Water**
				Davis, et al. 1993. 1 excursion beyond the criterion on 7/30/91at RM 26.5.							
13	**35942**	**2**	**N**	**DESCHUTES RIVER**	**TM40PW**	**1.076**	**18N**	**02W**	**60**	**Total PCBs**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle samples collected in 1993-1995 from chinook salmon (Oncorhynchus tshawytscha) samples from station DESCHUTE. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle samples collected in 1993-1996 from coho salmon (Oncorhynchus kisutch) samples from station DESCHUTE.						Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	
13	**10200**	**2**	**N**	**ELD INLET**	**390KRD**	**47122B9A4**	**47.105**	**122.945**		**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station ELD001 (Eld Inlet - Flapjack Point) shows 1 excursions beyond the criterions out of 36 samples collected between 1993-2000							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information				Parameter	Remarks	Medium
13	**10201**	**2**	**N**	**ELD INLET**	**390KRD**	**47122B9A4**	**47.105**	**122.945**	**pH**		**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station ELD001 (Eld Inlet - Flapjack Point) shows 3 excursions beyond the criterions out of 33 samples collected between 1993-2000							
13	**10202**	**2**	**N**	**ELD INLET**	**390KRD**	**47122B9A4**	**47.105**	**122.945**	**Temperature**		**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station ELD001 (Eld Inlet - Flapjack Point) shows 5 excursions beyond the criterions out of 36 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
13	**10192**	**2**	**Y**	**HENDERSON INLET**	**390KRD**	**47122B8F3**	**47.155**	**122.835**	**Dissolved oxygen**		**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station HND001 (HENDERSON INLET - CLIFF POINT) shows 1 excursions beyond the criterions out of 17 samples collected between 1993-2000						Recent data from Ecology monitoring from 1993 - 2000 shows that dissolved oxygen excursion only occurred once in 7 years of data. This water will be placed in the waters of concern category.	
13	**43011**	**2**	**N**	**HENDERSON INLET**	**390KRD**	**47122B7D4**	**47.135**	**122.745**	**Dissolved oxygen**		**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 1 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/27/2001).							
13	**43012**	**2**	**N**	**HENDERSON INLET**	**390KRD**	**47122B8F3**	**47.155**	**122.835**	**Dissolved oxygen**		**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 2 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/27/2001).							
13	**39762**	**2**	**N**	**HENDERSON INLET**	**390KRD**	**47122B8D4**	**47.135**	**122.845**	**Fecal Coliform**		**Water**
				Department of Health unpublished data collected from station HENDERSON INLET-193 show a geometric mean of 9 cfu/100mL and 6.66666666666667% of samples exceed the percentile criterion with the last sample collected on 4-Dec-2001. Department of Health unpublished data collected from station HENDERSON INLET-203 show a geometric mean of 8 cfu/100mL and 6.66666666666667% of samples exceed the percentile criterion with the last sample collected on 4-Dec-2001.						Changed from Category 5 to Category 2. Basis describes Category 2. 07/05/04 -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
13	**39777**	**2**	**N**	**HENDERSON INLET**	**390KRD**	**47122B8F3**	**47.155**	**122.835**	**Fecal Coliform**	**Water**
				Department of Health unpublished data collected from station HENDERSON INLET-208 show a geometric mean of 4 cfu/100mL and 0% of samples exceed the percentile criterion with the last sample collected on 4-Dec-2001. Department of Health unpublished data collected from station HENDERSON INLET-209 show a geometric mean of 4 cfu/100mL and 4.2% of samples exceed the percentile criterion with the last sample collected on 13-Nov-2001.					Changed from Category 5 to Category 2. Basis describes Category 2. 07/05/04 -kk	
13	**10193**	**2**	**N**	**HENDERSON INLET**	**390KRD**	**47122B8F3**	**47.155**	**122.835**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station HND001 (HENDERSON INLET - CLIFF POINT) shows 1 excursions beyond the criterions out of 17 samples collected between 1993-2000						
13	**10194**	**2**	**N**	**HENDERSON INLET**	**390KRD**	**47122B8F3**	**47.155**	**122.835**	**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station HND001 (HENDERSON INLET - CLIFF POINT) shows 8 excursions beyond the criterions out of 20 samples collected between 1993-2000					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
13	**22724**	**2**	**N**	**MCINTOSH LAKE**	**618HVI**	**16N**	**01W**	**33**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 36 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
13	**3760**	**2**	**Y**	**MCLANE CREEK**	**SD15AI**	**0.792**	**18N**	**03W 24**	**pH**	**Water**
				Seiders and Cusimano, 1996. 7 excursions beyond the criteria out of 19 samples (37%) from 1992 to 1996.					Information submitted by David Batts on 13 December 2002 concludes that quality assurance concerns exist with this data. The pH data may be in error based on the low ionic strength of the water and the measurement protocols that were used.	
13	**23750**	**2**	**N**	**MCLANE CREEK**	**SD15AI**	**0**	**18N**	**02W 19**	**Temperature**	**Water**
				Squaxin Island Tribe unpublished data from station McLane 1 (Delphi Road @ McKenzie Road) show a 7-day mean of daily maximum temperature of 17.50 degrees C from continuous measurements collected in 2002. Squaxin Island Tribe unpublished data from station Deer 1 (At Hwy 3 bridge) show excursions beyond the criterion from measurements collected in 2002.						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
13	3762	2	N	**MOXLIE CREEK** Data collected by Thurston County (submitted by Sue Davis on 3/28/96) shows 1 excursion beyond the lower criterion at Plum Street and Henderson Blvd on 1/26/93.	UNK000 0 00U 000U 00	pH	Water	Newer data at Thurston County website.
13	22484	2	N	**MUNN LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	154WRA 17N 02W 01	Total Phosphorus	Water	
13	42992	2	N	**NISQUALLY REACH/DRAYTON PASSAGE** South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 58 shows at least one excursion beyond the criterion in 2002 (sample collected on 9/30/2002).	390KRD 47122B7G8 47.165 122.785	Dissolved oxygen	Water	
13	42995	2	N	**NISQUALLY REACH/DRAYTON PASSAGE** South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 63 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/24/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 9/30/2002).	390KRD 47122B7C2 47.125 122.725	Dissolved oxygen	Water	This data was collected by Ecology during a cruise of the south Sound aboard a University of Washington (UW) research vessel. All data were collected using a UW instrument package. It has since been discovered that the dissolved oxygen sensor on the instrument package had not been calibrated recently, leading us to question the accuracy of the data collected. We therefore recommend that the listings based solely on these data be changed to category 2 (Grantham memo, 4/2005).
13	39779	2	N	**NISQUALLY REACH/DRAYTON PASSAGE** Department of Health unpublished data collected from station NISQUALLY REACH-222 show a geometric mean of 6 cfu/100mL and 3.33333333333333% of samples exceed the percentile criterion with the last sample collected on 3-Dec-2001. Department of Health unpublished data collected from station NISQUALLY REACH-244 show a geometric mean of 3 cfu/100mL and 3.33333333333333% of samples exceed the percentile criterion with the last sample collected on 3-Dec-2001.	390KRD 47122B7B5 47.115 122.755	Fecal Coliform	Water	
13	39780	2	N	**NISQUALLY REACH/DRAYTON PASSAGE** Department of Health unpublished data collected from station NISQUALLY REACH-223 show a geometric mean of 7 cfu/100mL and 10% of samples exceed the percentile criterion with the last sample collected on 3-Dec-2001.	390KRD 47122B7B4 47.115 122.745	Fecal Coliform	Water	Although the water quality standards are met, the samples exceed the Department of Health's criterion for a Threatened shellfish growing area.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
13	**6362**	**2**	**N**	**PATTERSON (PATTISON)(NORTH ARM) LAKE**	**326JXW**	**18N**	**01W**	**34**	**Total Phosphorus**	**Water**
				Completed Phase I Federal Clean Lakes Restoration Project in 1982- Problems Encountered: Blue-green algae, low transparency, aquatic macrophytes, sediment phosphorus recycling. Unpublished data from Dept. of Ecology 1996-2002 data show summer (May-Sept.) total phosphorus at 18 Ug/l. (Moore, ECY/WQP 2003)					Completed Federal Clean Lakes Restoration Project in 1987: Entranco Engineer's, 1987. Control Measures Implemented - Phosphorus precipitation/inactivation, aquatic macrophyte harvesting, public education. Monitoring is being conducted under Ecology's Lake Water Quality Assessment Program and Thurston County. Welch and Cooke (1995) monitored the effectiveness of the control and showed only a 1 ug/L increase in whole-lake phosphorus 7 years after implementation. The above information meets EPA guidance for excluding the lake from the list under federal regulation 40 CFR130.7(b)(1)(iii). (taken from 1998 list database). Study and monitoring between 1996-2002 indicates lake is just below the eutrophic status for summer but at risk, should be carried on Category 2 (Moore, ECY/WQP, 2003)		
13	**22725**	**2**	**N**	**PERCIVAL COVE LAKE**	**985HOG**	**18N**	**02W**	**22**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 272 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
13	**22726**	**2**	**N**	**SIMMONS (KEN) LAKE**	**055LCJ**	**18N**	**02W**	**20**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 24 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
13	**22727**	**2**	**N**	**SOUTHWICK LAKE**	**704ZRO**	**18N**	**01W**	**33**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 28 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
13	**22486**	**2**	**N**	**TEMPO (BUSHMAN) LAKE**	**748SCJ**	**17N**	**01W**	**28**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 90 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
13	**22487**	**2**	**N**	**TRAILS END LAKE**	**761HEZ**	**17N**	**02W**	**12**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
13	22488	2	N	**TROSPER LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	199YGI	18N	02W	33		Total Phosphorus	Water	
13	6147	2	N	**WARD LAKE** Smith et al. (2000) concludes that designated uses are not being supported. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 10 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	729WNB	18N	02W	38		Total Phosphorus	Water	
13	3771	2	Y	**WOODARD CREEK** Two excursions beyond criteria collected by Thurston County Environmental Health (submitted by Sue Davis on 2/29/96) on 8/3/93 and 8/16/94.	MJ83ZH	0	19N	01W	19	Dissolved oxygen	Water	This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
13	40587	2	N	**WOODARD CREEK** Four excursions beyond criteria collected by Thurston County Environmental Health (submitted by Sue Davis on 2/29/96) on 2/16/93, 3/16/93/, 12/9/93 and 1/10/94.	MJ83ZH	0	19N	01W	19	pH	Water	
14	42361	2	N	**BURNS CREEK** Batts, D. and K. Seiders, (2003), station BUR shows 1 sample exceeded the criterion in year 1993.	UNK000	0	19N	03W	27	Dissolved oxygen	Water	
14	42376	2	N	**BURNS CREEK** Batts, D. and K. Seiders, (2003), station BUR shows 1 samples exceeded the criterion in year 2000.	UNK000	0	19N	03W	27	Temperature	Water	
14	42377	2	N	**BURNS CREEK** Batts, D. and K. Seiders, (2003), station BURCUL shows 4 samples exceeded the criterion in years 2000 and 2001.	UNK000	0	19N	03W	27	Temperature	Water	
14	42986	2	N	**CASE INLET AND DANA PASSAGE** South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 52 shows at least one excursion beyond the criterion in 2002 (sample collected on 10/1/2002).	390KRD	47122C8F5	47.255	122.855		Dissolved oxygen	Water	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information				Parameter	Remarks	Medium
14	**43013**	**2**	**N**	**CASE INLET AND DANA PASSAGE** South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 3 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/27/2001).	**390KRD**	**47122B8G6**	**47.165**	**122.865**	**Dissolved oxygen**		**Water**
14	**43022**	**2**	**N**	**CASE INLET AND DANA PASSAGE** South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 49 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/25/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 10/1/2002).	**390KRD**	**47122D8A1**	**47.305**	**122.815**	**Dissolved oxygen**	This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern).	**Water**
14	**36024**	**2**	**N**	**CASE INLET AND DANA PASSAGE** Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle tissue samples collected in 1998 from coho salmon (Oncorhynchus kisutch) samples from station SSNDM. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle tissue samples collected in 1998 and 2000 from coho salmon (Oncorhynchus kisutch) samples from station SSNDM.	**390KRD**	**47122C8H4**	**47.275**	**122.845**	**Total PCBs**	Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	**Tissue**
14	**24233**	**2**	**N**	**CRANBERRY CREEK** Squaxin Island tribe unpublished data from station Cranberry 1 (At Hwy 3 bridge) show a geometric mean of 70 cfu/100mL out of 6 samples collected in 2002. Squaxin Island tribe unpublished data from station Cranberry 1 (At Hwy 3 bridge) show a geometric mean of 288 cfu/100mL out of 4 samples collected in 2001.	**TX75AG**	**0.148**	**21N**	**03W 36**	**Fecal Coliform**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
14	**23756**	**2**	**N**	**DEER CREEK**	**BP46RE**	**0.243**	**21N**	**03W**	**36**	**Temperature**	**Water**

Squaxin Island Tribe unpublished data from station Deer 1 (At Hwy 3 bridge) show a 7-day mean of daily maximum temperature of 17.37 degrees C from continuous measurements collected in 2002.

Squaxin Island Tribe unpublished data from station Deer 1 (At Hwy 3 bridge) show excursions beyond the criterion from measurements collected in 2002.

Unpublished data from the Dept. of Ecology EIM database for the Project SPASM (SOUTH PUGET SOUND MODEL) station DER06 (DEAR CREEK AT HWY 3) shows 0 excursions beyond the criterion out of 7 samples collected between 03/99 - 09/99.

Unpublished data from the Dept. of Ecology EIM database for the Project SPASM (SOUTH PUGET SOUND MODEL) station DER06 (DEAR CREEK AT HWY 3) shows 0 excursions beyond the criterion out of 7 samples collected between 03/99 - 09/99.

14	**10204**	**2**	**N**	**ELD INLET**	**390KRD**	**47122A9J7**	**47.095**	**122.975**		**Dissolved oxygen**	**Water**

Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station ELD002 (Eld Inlet - S. Flapjack Point) shows 1 excursions beyond the criterions out of 14 samples collected between 1993-2000

14	**16724**	**2**	**N**	**GOLDSBOROUGH CREEK**	**MI94TV**	**0.254**	**20N**	**03W**	**19**	**Fecal Coliform**	**Water**

Squaxin Island tribe unpublished data from station Goldsborough 1 (At Hwy 3 bridge) show a geometric mean of 23 cfu/100mL out of 3 samples collected in 2002. Squaxin Island tribe unpublished data from station Goldsborough 1 (At Hwy 3 bridge) show a geometric mean of 19 cfu/100mL out of 4 samples collected in 2001.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 14A060 (Goldsborough Cr @ Shelton) shows a geometric mean of 20 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 14A060 (Goldsborough Cr @ Shelton) shows a geometric mean of 9 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 14A060 (Goldsborough Cr @ Shelton) shows a geometric mean of 19 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 14A060 (Goldsborough Cr @ Shelton) shows a geometric mean of 57 does not exceed the criterion and that 33% of the samples exceeds the percentile criterion from 3 samples collected during 1993.

14	**23757**	**2**	**N**	**GOLDSBOROUGH CREEK**	**MI94TV**	**2.216**	**20N**	**04W**	**24**	**Temperature**	**Water**

Squaxin Island Tribe unpublished data from station Goldsborough 2 (Under Hwy 101 bridge) show a 7-day mean of daily maximum temperature of 17.69 degrees C from continuous measurements collected in 2000 and 17.35 degrees C from continuous measurements collected in 2001. Squaxin Island Tribe unpublished data from station Deer 1 (At Hwy 3 bridge) show excursions beyond the criterion from measurements collected in 2000 and 2001.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
14	**10219**	**2**	**N**	**GREAT BEND/LYNCH COVE**	**390KRD**	**47123D0F2**	**47.355**	**123.025**		**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station HCB004 (Hood Canal - Gt. Bend Sisters Point) shows 57 excursions beyond the criterions out of 118 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
14	**23554**	**2**	**N**	**HURLEY CREEK**	**CP41AC**	**0**	**19N**	**04W**	**26**	**Fecal Coliform**	**Water**
				Squaxin Island tribe unpublished data from station Hurley 1 (At Eich Road culvert) show a geometric mean of 26 cfu/100mL out of 3 samples collected in 2002. Squaxin Island tribe unpublished data from station Hurley 1 (At Eich Road culvert) show a geometric mean of 21 cfu/100mL out of 8 samples collected in 2001. Squaxin Island tribe unpublished data from station Hurley 1 (At Eich Road culvert) show a geometric mean of 79 cfu/100mL out of 3 samples collected in 2000.							
14	**22490**	**2**	**N**	**ISLAND LAKE**	**249XMV**	**20N**	**03W**	**06**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 30 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Smith et al. (2000) concludes that designated uses are being supported.							
14	**12584**	**2**	**N**	**KENNEDY CREEK**	**AO33HF**	**1.134**	**19N**	**03W**	**31**	**Fecal Coliform**	**Water**
				National Monitoring Program unpublished data (submitted by David Batts on 13 December 2002) show no excursions beyond the the geometric mean criterion in the wet seasons from 1992-2002. National Monitoring Program unpublished data (submitted by David Batts on 13 December 2002) show no excursions beyond the the percentile criterion in the wet seasons from 1992-2002. National Monitoring Program unpublished data (submitted by David Batts on 13 December 2002) show no excursions beyond the the geometric mean criterion in the dry seasons from 1992-2002. National Monitoring Program unpublished data (submitted by David Batts on 13 December 2002) show an excursion beyond the the percentile criterion in the dry season from 2001.						Changed to Category 2 based on single excursion. 06/21/04 - kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
14	**7597**	**2**	**Y**	**KENNEDY CREEK**	**AO33HF**	**1.134**	**19N**	**03W**	**31**	**pH**	**Water**
				Seiders and Cusimano, 1996. 3 excursions beyond the criteria out of 18 samples (17%) from 1992 to 1996.						Information submitted by David Batts on 13 December 2002 concludes that quality assurance concerns exist with this data. The pH data may be in error based on the low ionic strength of the water and the measurement protocols that were used.	
14	**23550**	**2**	**N**	**LITTLE CREEK**	**VC13FN**	**0.237**	**19N**	**03W**	**18**	**Fecal Coliform**	**Water**
				Squaxin Island tribe unpublished data from station Little 2 (1st Kamilche Lane bridge) show a geometric mean of 21 cfu/100mL out of 2 samples collected in 2002. Squaxin Island tribe unpublished data from station Little 2 (1st Kamilche Lane bridge) show a geometric mean of 7 cfu/100mL out of 2 samples collected in 2001. Squaxin Island tribe unpublished data from station Little 2 (1st Kamilche Lane bridge) show a geometric mean of 61 cfu/100mL out of 2 samples collected in 2000. Squaxin Island tribe unpublished data from station Little 3 (2nd Kamilche Lane bridge) show a geometric mean of 14 cfu/100mL out of 1 samples collected in 2002. Squaxin Island tribe unpublished data from station Little 3 (2nd Kamilche Lane bridge) show a geometric mean of 54 cfu/100mL out of 4 samples collected in 2001. Squaxin Island tribe unpublished data from station Little 3 (2nd Kamilche Lane bridge) show a geometric mean of 101 cfu/100mL out of 2 samples collected in 2000. Squaxin Island tribe unpublished data from station Little 4 (Simpson Road bridge) show a geometric mean of 7 cfu/100mL out of 3 samples collected in 2002. Squaxin Island tribe unpublished data from station Little 4 (Simpson Road bridge) show a geometric mean of 59 cfu/100mL out of 2 samples collected in 2001. Squaxin Island tribe unpublished data from station Little 4 (Simpson Road bridge) show a geometric mean of 8 cfu/100mL out of 2 samples collected in 2000.							
14	**36187**	**2**	**N**	**MUD BAY**	**390KRD**	**47123A0F0**	**47.055**	**123.005**		**Temperature**	**Water**
				Unpublished data from Pacific Shellfish Institute shows a maximum 7-day mean of maximum daily temperatures of 20.0 degrees C from continuous measurements collected during 1998. Unpublished data from Pacific Shellfish Institute shows a maximum 7-day mean of maximum daily temperatures of 18.0 degrees C from continuous measurements collected during 1999. Unpublished data from Pacific Shellfish Institute shows a maximum 7-day mean of maximum daily temperatures of 19.4 degrees C from continuous measurements collected during 2000.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
14	**10213**	**2**	**N**	**OAKLAND BAY**	**390KRD**	**47123C0B7**	**47.215**	**123.075**		**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station OAK004 (Oakland Bay - Near Eagle Point) shows 2 excursions beyond the criterions out of 96 samples collected between 1993-2000							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
14	**15720**	**2**	**Y**	**OAKLAND BAY**	**390KRD**	**47123C0B7**	**47.215**	**123.075**	**Fecal Coliform**	**Water**

Department of Health unpublished data collected from station OAKLAND BAY-115 show a geometric mean of 4 cfu/100mL and 0% of samples exceed the percentile criterion with the last sample collected on 6-Dec-2001.

Department of Health unpublished data collected from station OAKLAND BAY-122 show a geometric mean of 4 cfu/100mL and 6.66666666666667% of samples exceed the percentile criterion with the last sample collected on 6-Dec-2001.

Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station OAK004 (Oakland Bay - Near Eagle Point) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 1992.

Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station OAK004 (Oakland Bay - Near Eagle Point) shows a geometric mean of 8 does not exceed the criterion and that 12% of the samples exceed the percentile criterion from 8 samples collected during 1999, with only 1 sample that exceeds the percentile criterion.

Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station OAK004 (Oakland Bay - Near Eagle Point) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1998.

Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station OAK004 (Oakland Bay - Near Eagle Point) shows a geometric mean of 6 does not exceed the criterion and that 11% of the samples does not exceed the percentile criterion from 9 samples collected during 1997, with only 1 sample that exceeds the percentile criterion.

Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station OAK004 (Oakland Bay - Near Eagle Point) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1996.

Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station OAK004 (Oakland Bay - Near Eagle Point) shows a geometric mean of 6 does not exceed the criterion and that 11% of the samples exceed the percentile criterion from 9 samples collected during 1995, with only 1 sample that exceeds the percentile criterion.

Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station OAK004 (Oakland Bay - Near Eagle Point) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 4 samples collected during 1994.

Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station OAK004 (Oakland Bay - Near Eagle Point) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 8 samples collected during 1993.

Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station OAK004 (Oakland Bay - Near Eagle Point) shows a geometric mean of 19 exceeds the criterion and that 0% of the samples does not exceed the percentile criterion from 1 samples collected during 1991.

This listing was based on Department of Health Conditionally Approved Commercial Shellfish Area in Oakland Bay based partially on data sampled station 3 that exceed the criterion (from the Annual Growing Area Review ending December 1996). More recent continuous monitoring data shows that fecal coliform standards are being met. TRS is different on 1998 list.

14	**10214**	**2**	**N**	**OAKLAND BAY**	**390KRD**	**47123C0B7**	**47.215**	**123.075**	**pH**	**Water**

Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station OAK004 (Oakland Bay - Near Eagle Point) shows 6 excursions beyond the criterions out of 76 samples collected between 1993-2000

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
14	**10215**	**2**	**N**	**OAKLAND BAY**	**390KRD**	**47123C0B7**	**47.215**	**123.075**		**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station OAK004 (Oakland Bay - Near Eagle Point) shows 43 excursions beyond the criterions out of 131 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
14	**7598**	**2**	**Y**	**PERRY CREEK**	**FE29VY**	**0.21**	**18N**	**03W**	**13**	**pH**	**Water**
				Seiders and Cusimano, 1996. 6 excursions beyond the criteria out of 19 samples (32%) from 1992 to 1996.						Information submitted by David Batts on 13 December 2002 concludes that quality assurance concerns exist with this data. The pH data may be in error based on the low ionic strength of the water and the measurement protocols that were used.	
14	**41122**	**2**	**N**	**PERRY CREEK**	**FE29VY**	**0.21**	**18N**	**03W**	**13**	**Temperature**	**Water**
				Batts, D. and K. Seiders, (2003), station PRY shows 1 samples exceeded the criterion in year 1999.							
14	**7599**	**2**	**Y**	**SCHNEIDER CREEK**	**ER21HD**	**0.339**	**19N**	**03W**	**33**	**pH**	**Water**
				Seiders and Cusimano, 1996. 5 excursions beyond the criteria out of 18 samples (28%) from 1992 to 1996.						Information submitted by David Batts on 13 December 2002 concludes that quality assurance concerns exist with this data. The pH data may be in error based on the low ionic strength of the water and the measurement protocols that were used.	
14	**18915**	**2**	**N**	**SHELTON CREEK**	**JZ99VQ**	**0.532**	**20N**	**03W**	**19**	**Fecal Coliform**	**Water**
				Squaxin Island tribe unpublished data from station Shelton 1 (At Dairy Queen) show a geometric mean of 172 cfu/100mL out of 2 samples collected in 2002.							
14	**14809**	**2**	**N**	**SHERWOOD CREEK**	**CL86HL**	**0.016**	**22N**	**01W**	**20**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project SPASM (SOUTH PUGET SOUND MODEL) station SHE07 (SHERWOOD CREEK AT HWY 3) shows 1 excursions beyond the criterion out of 7 samples collected between 03/99 - 09/99.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
14	**14810**	**2**	**N**	**SHERWOOD CREEK**	**CL86HL**	**0.016**	**22N**	**01W**	**20**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project SPASM (SOUTH PUGET SOUND MODEL) station SHE07 (SHERWOOD CREEK AT HWY 3) shows 1 excursions beyond the criterion out of 7 samples collected between 03/99 - 09/99.							
14	**7600**	**2**	**N**	**SKOOKUM CREEK**	**BI64LF**	**0.901**	**19N**	**03W**	**20**	**Dissolved oxygen**	**Water**
				Seiders and Cusimano, 1996. , 1 excursion beyond the criterion on 2/2/93.							
				Data from the Dept. of Ecology EIM database for the Project SPASM (SOUTH PUGET SOUND MODEL) station SKO03 (SKOOKUM CREEK AT KAMILCHE LN) shows 1 excursions beyond the criterion out of 7 samples collected between 03/99 - 09/99.							
14	**23547**	**2**	**N**	**SKOOKUM CREEK**	**BI64LF**	**6.381**	**19N**	**04W**	**26**	**Fecal Coliform**	**Water**
				Squaxin Island tribe unpublished data from station Skookum 4 (At Eich Road bridge) show a geometric mean of 38 cfu/100mL out of 4 samples collected in 2002. Squaxin Island tribe unpublished data from station Skookum 4 (At Eich Road bridge) show a geometric mean of 8 cfu/100mL out of 7 samples collected in 2001. Squaxin Island tribe unpublished data from station Skookum 4 (At Eich Road bridge) show a geometric mean of 175 cfu/100mL out of 4 samples collected in 2000.							
14	**43017**	**2**	**N**	**SQUAXIN, PEALE, AND PICKERING PASSAGES**	**390KRD**	**47122B9F0**	**47.155**	**122.905**		**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 14 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/25/2001).							
14	**43018**	**2**	**N**	**SQUAXIN, PEALE, AND PICKERING PASSAGES**	**390KRD**	**47122C9A2**	**47.205**	**122.925**		**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 28 shows at least one excursion beyond the criterion in 2000 (sample collected on 6/12/2000).							
14	**43019**	**2**	**N**	**SQUAXIN, PEALE, AND PICKERING PASSAGES**	**390KRD**	**47122C8J8**	**47.295**	**122.885**		**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 43 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/26/2001).							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
14	**43020**	**2**	**N**	**SQUAXIN, PEALE, AND PICKERING PASSAGES**	**390KRD**	**47122D8A4**	**47.305**	**122.845**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 44 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/26/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 10/3/2002).					This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern).	
14	**36023**	**2**	**N**	**SQUAXIN, PEALE, AND PICKERING PASSAGES**	**390KRD**	**47122C8A2**	**47.205**	**122.825**	**Total PCBs**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle tissue samples collected in 1995 from chinook salmon (Oncorhynchus tshawytscha) samples from station BDDINLET.					Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	
14	**10208**	**2**	**N**	**TOTTEN INLET**	**390KRD**	**47122B9G6**	**47.165**	**122.965**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station TOT001 (Totten Inlet - Windy Point) shows 2 excursions beyond the criterions out of 34 samples collected between 1993-2000						
14	**10209**	**2**	**N**	**TOTTEN INLET**	**390KRD**	**47122B9G6**	**47.165**	**122.965**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station TOT001 (Totten Inlet - Windy Point) shows 1 excursions beyond the criterions out of 31 samples collected between 1993-2000						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis							Remarks
14	**10210**	**2**	**N**	**TOTTEN INLET**	**390KRD**	**47122B9G6**	**47.165**	**122.965**		**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station TOT001 (Totten Inlet - Windy Point) shows 20 excursions beyond the criterions out of 50 samples collected between 1993-2000							This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
14	**36186**	**2**	**N**	**TOTTEN INLET**	**390KRD**	**47122B9E6**	**47.145**	**122.965**		**Temperature**	**Water**
				Unpublished data from Pacific Shellfish Institute shows a maximum 7-day mean of maximum daily temperatures of 18.8 degrees C from continuous measurements collected during 1999. Unpublished data from Pacific Shellfish Institute shows a maximum 7-day mean of maximum daily temperatures of 19.0 degrees C from continuous measurements collected during 2000. Unpublished data from Pacific Shellfish Institute shows a maximum 7-day mean of maximum daily temperatures of 20.8 degrees C from continuous measurements collected during 2001.							This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
14	**7602**	**2**	**Y**	**TWANOH FALLS CREEK**	**HL04LK**	**0**	**22N**	**02W**	**21**	**pH**	**Water**
				Mason County Shellfish Protection Project (submitted by Wayne Clifford 8/91) shows 1 excursions beyond the criterion at station S2 (at Twanoh Falls Beach Club) on 20 Feb 1991.							A reassessment of the past 10 years of data indicate one excursion beyond the criterion, which is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11.
14	**11549**	**2**	**Y**	**UNNAMED CREEK**	**DT79MC**	**0.528**	**22N**	**12W**	**31**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station WA840S (TRIB TO QUINALT RIVER (WA840S)) shows two excursions beyond the criterion from measurements made in 1994 & 1995.							An assessment of the past 10 years of data indicate two excursions beyond the criterion, which is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**38396**	**2**	**N**	**AGATE PASSAGE**	**390KRD**	**47122H5B6**	**47.715**	**122.565**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data at station AG02 (NEARSHORE NE CORNER OF BRIDGE (PUGET PWR)) show excursions beyond the criterion in measurements collected in 1996 and 1998.						
15	**10222**	**2**	**N**	**BALCH AND CORMORANT PASSAGES**	**390KRD**	**47122B6I3**	**47.185**	**122.635**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GOR001 (GORDON POINT) shows 26 excursions beyond the criterions out of 53 samples collected between 1993-2000					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that this location does not suggest that the exceedances are the result of anthropogenic inputs. The site is located in an area that is typically well mixed and is not expected to be subject to loclized degrdaion of D.O. levels. Agree with earlier Ecology decision that these exceedances are a natural condition. These excursions beyond the criterion are a natural with no direct human-caused influence due to natural variations in the marine environment, based on the 11/03 judgment of Jan Newton (Dept. of Ecology).	
condition										
15	**42996**	**2**	**N**	**BALCH AND CORMORANT PASSAGES**	**390KRD**	**47122B6E5**	**47.145**	**122.655**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 65 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/27/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 10/1/2002).					This data was collected by Ecology during a cruise of the south Sound aboard a University of Washington (UW) research vessel. All data were collected using a UW instrument package. It has since been discovered that the dissolved oxygen sensor on the instrument package had not been calibrated recently, leading us to question the accuracy of the data collected. We therefore recommend that the listings based solely on these data be changed to category 2 (Grantham memo, 4/2005).	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**42997**	**2**	**N**	**BALCH AND CORMORANT PASSAGES**	**390KRD**	**47122B6I3**	**47.185**	**122.635**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 66 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/27/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 10/1/2002).					This data was collected by Ecology during a cruise of the south Sound aboard a University of Washington (UW) research vessel. All data were collected using a UW instrument package. It has since been discovered that the dissolved oxygen sensor on the instrument package had not been calibrated recently, leading us to question the accuracy of the data collected. We therefore recommend that the listings based solely on these data be changed to category 2 (Grantham memo, 4/2005).	
15	**42998**	**2**	**N**	**BALCH AND CORMORANT PASSAGES**	**390KRD**	**47122B5J9**	**47.195**	**122.595**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 67 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/27/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 10/3/2002).					This data was collected by Ecology during a cruise of the south Sound aboard a University of Washington (UW) research vessel. All data were collected using a UW instrument package. It has since been discovered that the dissolved oxygen sensor on the instrument package had not been calibrated recently, leading us to question the accuracy of the data collected. We therefore recommend that the listings based solely on these data be changed to category 2 (Grantham memo, 4/2005).	
15	**43006**	**2**	**N**	**BALCH AND CORMORANT PASSAGES**	**390KRD**	**47122C5E7**	**47.245**	**122.575**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 76 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/28/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 10/3/2002).					This data was collected by Ecology during a cruise of the south Sound aboard a University of Washington (UW) research vessel. All data were collected using a UW instrument package. It has since been discovered that the dissolved oxygen sensor on the instrument package had not been calibrated recently, leading us to question the accuracy of the data collected. We therefore recommend that the listings based solely on these data be changed to category 2 (Grantham memo, 4/2005).	
15	**10223**	**2**	**N**	**BALCH AND CORMORANT PASSAGES**	**390KRD**	**47122B6I3**	**47.185**	**122.635**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GOR001 (GORDON POINT) shows 3 excursions beyond the criterions out of 36 samples collected between 1993-2000						
15	**38416**	**2**	**N**	**BARKER CREEK**	**IQ67FF**	**2.169**	**25N**	**01E**	**15**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1997 and 1998 at station BK03.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**7609**	**2**	**N**	**BARKER CREEK**	**YJ04NG**	**1.432**	**25N**	**01W**	**22**	**pH**	**Water**
				2 excursions beyond the criterion on 2/1/95 and 2/22/95 from Barker Creek collected for an independent study project conducted by students from the Biology Class at Olympic High School (submitted by Mary Bertrand on 7/18/95).							
15	**38418**	**2**	**N**	**BARKER CREEK**	**IQ67FF**	**2.169**	**25N**	**01E**	**15**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 46 measurements collected in 1996-2001 at station BK03.							
15	**22838**	**2**	**N**	**BAY LAKE**	**123YUJ**	**20N**	**01W**	**12**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 254 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
15	**38420**	**2**	**N**	**BEAR CREEK**	**AP73BA**	**0.146**	**22N**	**01E**	**02**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1998 and 1999 at station BR01.							
15	**22493**	**2**	**N**	**BEAR LAKE**	**702TYT**	**23N**	**01W**	**36**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 2.2 ug/L in 1985 which does not exceed the water quality standards nutrient criterion for the Cascades Ecoregion.							
15	**38424**	**2**	**N**	**BEAVER CREEK**	**LS41EH**	**0**	**24N**	**02E**	**16**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1997 at station BV01.							
15	**38428**	**2**	**N**	**BEAVER CREEK**	**LS41EH**	**1.601**	**24N**	**02E**	**21**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1997.							
15	**38433**	**2**	**N**	**BIG ANDERSON CREEK**	**HL10ZJ**	**0.151**	**24N**	**02W**	**17**	**pH**	**Water**
				Kitsap County unpublished data show 3 excursions beyond the criterion out of 42 measurements collected in 1996-2001 at station BA01.							
15	**9456**	**2**	**N**	**BIG BEEF CREEK**	**FB10GH**	**0.195**	**25N**	**01W**	**22**	**pH**	**Water**
				Summers (2001) station SRIW1501 (WATER QUALITY AT BBC UW GRAVEL RD) shows 2 excursions beyond the criterion out of 9 samples collected between 10/00 - 09/01.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**38437**	**2**	**N**	**BIG BEEF CREEK**	**FB10GH**	**8.145**	**24N**	**01W**	**05**	**pH**	**Water**
				Kitsap County unpublished data show 2 excursions beyond the criterion out of 49 measurements collected in 1996-2001 at station BB02. Kitsap County unpublished data show 5 excursions beyond the criterion out of 50 measurements collected in 1996-2001 at station BB03.						The measured excursions beyond the criterion are a natural condition due to the large open wetlands at the headwaters per the 3 January 2003 submittal by Jim Zimny of Kitsap County.	
15	**7614**	**2**	**N**	**BIG BEEF CREEK**	**FB10GH**	**10.615**	**24N**	**01W**	**07**	**Temperature**	**Water**
				Port Gamble S'Klallam Tribal data (submitted by Peter Bahls on 10/13/97) show 2 excursions beyond the criterion out of 23 samples (9%) at Big Beef Creek RM 7.0 between 1992 and 1994.						Continuous temperature measurements were taken, but the information submitted is insufficient to support a Category 5 listing.	
15	**42544**	**2**	**N**	**BIG MISSION CREEK**	**PZ62BB**	**0**	**22N**	**02W**	**99**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 15J050 shows 1 of 3 samples (33.3%) in year 2002 exceeded the percentile criterion.							
15	**23704**	**2**	**N**	**BIG SCANDIA BAY**	**390KRD**	**47122H6B5**	**47.715**	**122.655**		**Fecal Coliform**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-37 (Big Scandia Bay @ mid-bay) show a geometric mean of 17 cfu/100mL from samples collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-39 (Little Scandia Bay @ mid-bay) show a geometric mean of 13 cfu/100mL from samples collected in 2001-2002.						Changed to Category 2. Measurements taken at or near an outfall do not adequately portray the condition of the receiving waters.	
15	**23724**	**2**	**N**	**BIG SCANDIA BAY**	**390KRD**	**47122H6B5**	**47.715**	**122.655**		**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-37 (Big Scandia Bay @ mid-bay) show 4 excursions beyond the criterion out of 5 measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-39 (Little Scandia Bay @ mid-bay) show 4 excursions beyond the criterion out of 5 measurements collected in 2001-2002.						Low pH. Changed to Category 2. Data reported by Kitsap County Health contradicts the low pH readings reported by Liberty Bay Foundation.	
15	**23744**	**2**	**N**	**BIG SCANDIA BAY**	**390KRD**	**47122H6B5**	**47.715**	**122.655**		**Temperature**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-37 (Big Scandia Bay @ mid-bay) show 2 excursions beyond the criterion from measurements collected in 2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-39 (Little Scandia Bay @ mid-bay) show 2 excursions beyond the criterion from measurements collected in 2002.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**38443**	**2**	**N**	**BIG SCANDIA CREEK**	**CC82SQ**	**0.003**	**26N**	**01E**	**27**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1999 at station BS01. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-36 (Big Scandia Creek @ Scandia Road crossing) show no excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-36 (Big Scandia Creek @ Scandia Road crossing) show no excursions beyond the criterion from measurements collected in 2001-2002. Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1999 at station BS01.							
15	**23713**	**2**	**N**	**BIG SCANDIA CREEK**	**CC82SQ**	**0.003**	**26N**	**01E**	**27**	**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-36 (Big Scandia Creek @ Scandia Road crossing) show 1 excursions beyond the criterion out of 8 measurements collected in 2001-2002. Kitsap County unpublished data show no excursions beyond the criterion in measurements collected in 1996-2001 at station BS01.							
15	**23712**	**2**	**N**	**BJORGEN CREEK**	**IS22QB**	**0.005**	**26N**	**01E**	**25**	**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-30 (Bjorgen Creek @ Lemolo Shore Drive crossing (access @ Lemolo Store)) show 2 excursions beyond the criterion out of 11 measurements collected in 2001-2002.							
15	**38449**	**2**	**N**	**BLACKJACK CREEK**	**LK41ZU**	**0.018**	**24N**	**01E**	**25**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 36 measurements collected in 1996-2001 at station BJ01.							
15	**38459**	**2**	**N**	**BOYCE CREEK**	**ED35FX**	**0**	**25N**	**02W**	**34**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1997 and 2001 at station BY01.							
15	**38461**	**2**	**N**	**BOYCE CREEK**	**ED35FX**	**0**	**25N**	**02W**	**34**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 29 measurements collected in 1996-2001 at station BY01.							
15	**22494**	**2**	**N**	**BUCK LAKE**	**682WZA**	**28N**	**02E**	**21**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**10372**	**2**	**Y**	**BURLEY CREEK**	**NQ77DR**	**2.736**	**23N**	**01E**	**36**	**Fecal Coliform**	**Water**
				Dickes and Patterson, 1994. station B3 (Burley Creek (B3)) shows a geometric mean of 33 cfu/100mL (not exceeding) with 14% exceeding the percentile criterion out of 7 samples collected during 1993, with only 1 sample that exceeds the percentile criterion.						This waterbody segment does not meet listing criteria for bacteria in WQ Policy 1-11, which requires that when the exceedances are based on a percentile critieron, you must have a minimum of 10% and at least 2 samples exceeding the criteria. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.	
15	**10374**	**2**	**Y**	**BURLEY CREEK**	**NQ77DR**	**6.267**	**23N**	**01E**	**24**	**Fecal Coliform**	**Water**
				Dickes and Patterson, 1994. station B5 (Burley Creek (B5)) shows a geometric mean of 9 cfu/100mL (not exceeding) with 14% exceeding the percentile criterion out of 7 samples collected during 1993, with only 1 sample that exceeds the percentile criterion. Kitsap County unpublished data show a geometric mean of 10 cfu/100mL with 13% of the samples above the percentile criterion out of 8 samples collected in 2002 at station BL06 (only one sample exceeding percentile criterion)						This waterbody segment does not meet listing criteria for bacteria in WQ Policy 1-11, which requires that when the exceedances are based on a percentile critieron, you must have a minimum of 10% and at least 2 samples exceeding the criteria. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.	
15	**38477**	**2**	**N**	**BURLEY CREEK**	**NQ77DR**	**6.267**	**23N**	**01E**	**24**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 43 measurements collected in 1996-2001 at station BL06.							
15	**36196**	**2**	**N**	**CARPENTER CREEK**	**PS91TZ**	**0.08**	**27N**	**02E**	**27**	**Dissolved oxygen**	**Water**
				Stillwaters Environmental Education Center unpublished data show 1 excursion beyond the criterion from measurements collected on 14 July 2002.							
15	**36194**	**2**	**N**	**CARPENTER CREEK**	**LJ90XO**	**0.04**	**27N**	**02E**	**26**	**pH**	**Water**
				Stillwaters Environmental Education Center unpublished data show excursions beyond the criterion from measurements collected in 2001 and 2002. Kitsap County unpublished data show 1 excursion beyond the criterion out of 50 measurements collected in 1996-2001.							
15	**36350**	**2**	**N**	**CARPENTER CREEK**	**PS91TZ**	**0.08**	**27N**	**02E**	**27**	**pH**	**Water**
				Stillwaters Environmental Education Center unpublished data show 1 excursion beyond the criterion from measurements collected on 18 March 2001.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					**Remarks**	
15	**10231**	**2**	**N**	**CARR INLET**	**390KRD**	**47122C7H0**	**47.275**	**122.705**	**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station CRR001 (Carr Inlet - Off Green Point) shows 18 excursions beyond the criterions out of 48 samples collected between 1993-2000					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
15	**10233**	**2**	**Y**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122C8G4**	**47.265**	**122.845**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station CSE001 (Case Inlet - S. Heron Island) shows 13 excursions beyond the criterions out of 35 samples collected between 1993-2000					This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern).	
15	**10244**	**2**	**N**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122D8F1**	**47.355**	**122.815**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station CSE002 (Case Inlet - Off Rocky Point) shows 5 excursions beyond the criterions out of 14 samples collected between 1993-2000					This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern).	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**42985**	**2**	**N**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122C8H3**	**47.275**	**122.835**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 51 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/25/2001).						
15	**42987**	**2**	**N**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122C8E4**	**47.245**	**122.845**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 53 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/25/2001).						
15	**42988**	**2**	**N**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122C8C2**	**47.225**	**122.825**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 54 shows at least one excursion beyond the criterion in 2002 (sample collected on 10/1/2002).						
15	**42989**	**2**	**N**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122C8B1**	**47.215**	**122.815**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 55 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/25/2001).						
15	**42990**	**2**	**N**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122B8J0**	**47.195**	**122.805**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 56 shows at least one excursion beyond the criterion in 2002 (sample collected on 9/30/2002).						
15	**43021**	**2**	**N**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122D8F1**	**47.355**	**122.815**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 47 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/25/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 10/1/2002).					This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern).	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**7619**	**2**	**Y**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122E8A1**	**47.405**	**122.815**	**pH**	**Water**
				Mason County data (submitted by Wayne Clifford on 8/91) show 3 excursions beyond the criterion out of 5 samples at station M3 between 8/1/90 and 8/1/91.						Low pH EAP Marine Unit staff (Grantham memo, 5/10/05)examined the pH data underlying this listing and had QA concerns that the measurements may have been subject to a systematic error. Recommendation was to place this listing on Category 2 data because of questionable QA from other sources of data.
15	**7620**	**2**	**Y**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122E8A2**	**47.405**	**122.825**	**pH**	**Water**
24-				Mason County data (submitted by Wayne Clifford on 8/91) show 2 excursions beyond the criterion out of 5 samples at stations M4, M5, M6, M7 between 8/1/90 and 8/1/91.						Multiple excursions beyond the criterion sampled within a hour period are considered a single excursion per Water Quality Program Policy. A reassessment of data indicates one exceedance of pH, which is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11.
15	**7621**	**2**	**Y**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122D8H2**	**47.375**	**122.825**	**pH**	**Water**
24-				Mason County data (submitted by Wayne Clifford on 8/91) show 2 excursions beyond the criterion out of 5 samples at stations M9 and M10 between 8/1/90 and 8/1/91.						Multiple excursions beyond the criterion sampled within a hour period are considered a single excursion per Water Quality Program Policy. A reassessment of data indicates one exceedance of pH, which is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11.
15	**7622**	**2**	**Y**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122D8H3**	**47.375**	**122.835**	**pH**	**Water**
24-				Mason County data (submitted by Wayne Clifford on 8/91) show 2 excursions beyond the criterion out of 5 samples at station M11 between 8/1/90 and 8/1/91.						Multiple excursions beyond the criterion sampled within a hour period are considered a single excursion per Water Quality Program Policy. A reassessment of data indicates one exceedance of pH, which is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11.
15	**10234**	**2**	**N**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122C8G4**	**47.265**	**122.845**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station CSE001 (Case Inlet - S. Heron Island) shows 2 excursions beyond the criterions out of 32 samples collected between 1993-2000						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**10235**	**2**	**N**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122C8G4**	**47.265**	**122.845**		**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station CSE001 (Case Inlet - S. Heron Island) shows 15 excursions beyond the criterions out of 35 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
15	**10246**	**2**	**N**	**CASE INLET AND DANA PASSAGE**	**390KRD**	**47122D8F1**	**47.355**	**122.815**		**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station CSE002 (Case Inlet - Off Rocky Point) shows 5 excursions beyond the criterions out of 14 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
15	**18890**	**2**	**N**	**CHICO CREEK**	**GE63UG**	**1.204**	**24N**	**01E**	**08**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 120D (Chico Creek) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.7 , but more definitive information is needed to determine if the segment is actually impaired.							
15	**38487**	**2**	**N**	**CHICO CREEK**	**GE63UG**	**2.266**	**24N**	**01E**	**07**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1996, 1998, 1999 and 2000 at station CH03.						The 2003 Kitsap County County Salmonid Refugia Report notes numerous chum salmon at the sampling sites during the time period (see page 127). Salmon spawning activities (large numbers of adult fish and decaying salmon carcasses) increase oxygen demand and lower the dissolved oxygen values. The 1999 and 2000 excursions are attributed to seasonal fluctuations of seasonal low flow and high temperature conditions.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**16725**	**2**	**N**	**CHICO CREEK**	**GE63UG**	**0.023**	**24N**	**01E**	**05**	**Fecal Coliform**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 15B050 (CHICO CR NR CHICO) shows a geometric mean of 25 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 4 samples collected during 1997.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 15B050 (CHICO CR NR CHICO) shows a geometric mean of 20 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 1998, with only 1 sample that exceeds the percentile criterion.. Kitsap County unpublished data show a geometric mean of 21 cfu/100mL with 0% of the samples above the percentile criterion out of 13 samples collected in 2002 at station CH01.							
15	**38501**	**2**	**N**	**CLEAR CREEK**	**TF15AC**	**3.422**	**25N**	**01E**	**04**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 37 measurements collected in 1996-2001 at station CC05.							
15	**9459**	**2**	**N**	**COULTER CREEK**	**XB62GX**	**0**	**22N**	**01W**	**09**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project SPASM (SOUTH PUGET SOUND MODEL) station COL08 (COULTER CREEK AT HWY 302) shows 1 excursions beyond the criterion out of 7 samples collected between 03/99 - 09/99.							
15	**38520**	**2**	**N**	**COULTER CREEK**	**PT50XZ**	**8.866**	**23N**	**01W**	**24**	**Fecal Coliform**	**Water**
				Kitsap County unpublished data show a geometric mean of 5 cfu/100mL with 11% of the samples above the percentile criterion out of 9 samples collected in 2002.							
15	**38522**	**2**	**N**	**COULTER CREEK**	**PT50XZ**	**8.866**	**23N**	**01W**	**24**	**Temperature**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1996 AND 1997.							
15	**43010**	**2**	**N**	**DALCO PASSAGE/POVERTY BAY**	**390KRD**	**47122D5B0**	**47.315**	**122.505**		**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 80 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/28/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 10/4/2002).						This data was collected by Ecology during a cruise of the south Sound aboard a University of Washington (UW) research vessel. All data were collected using a UW instrument package. It has since been discovered that the dissolved oxygen sensor on the instrument package had not been calibrated recently, leading us to question the accuracy of the data collected. We therefore recommend that the listings based solely on these data be changed to category 2 (Grantham memo, 4/2005).	
15	**36323**	**2**	**N**	**DALCO PASSAGE/POVERTY BAY**	**390KRD**	**47122D4C7**	**47.325**	**122.475**		**Mercury**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in single muscle tissue tissue tissue tissue tissue samples collected in 1996 from quillback rockfish (Sebastes maliger) samples from station DALCOPAS.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**35471**	**2**	**N**	**DICKERSON CREEK**	**NE95KG**	**1.393**	**24N**	**01E**	**18**	**Dissolved oxygen**	**Water**
				Port Blakely Tree Farms unpublished data from station DI3 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursion beyond the criterion from measurements collected in 2001. Port Blakely Tree Farms unpublished data from station DI2 (submitted by Blake Murden on 10 Decemeber 2002) shows no excursions beyond the criterion from measurements collected in 2001-2002. Port Blakely Tree Farms unpublished data from station DI2 (submitted by Blake Murden on 10 Decemeber 2002) shows no excursions beyond the criterion from measurements collected in 2001-2002. Port Blakely Tree Farms unpublished data from station DI3 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursion beyond the criterion from measurements collected in 2001.							
15	**38531**	**2**	**N**	**DICKERSON CREEK**	**NE95KG**	**0.17**	**24N**	**01E**	**07**	**Dissolved oxygen**	**Water**
				Port Blakely Tree Farms unpublished data from station DI1 (submitted by Blake Murden on 10 Decemeber 2002) shows no excursions beyond the criterion from measurements collected in 2001-2002. Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1996 and 1998.							
15	**38533**	**2**	**N**	**DICKERSON CREEK**	**NE95KG**	**0.17**	**24N**	**01E**	**07**	**pH**	**Water**
				Kitsap County unpublished data show 2 excursions beyond the criterion out of 47 measurements collected in 1996-2001. Port Blakely Tree Farms unpublished data from station DI1 (submitted by Blake Murden on 10 Decemeber 2002) shows no excursions beyond the criterion from measurements collected in 2001-2002.							
15	**38535**	**2**	**N**	**DOGFISH CREEK**	**OQ62QE**	**0.452**	**26N**	**01E**	**11**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1997 and 1999 at station DF01.							
15	**8729**	**2**	**Y**	**DOGFISH CREEK**	**OQ62QE**	**0**	**26N**	**01E**	**15**	**Turbidity**	**Water**
				Forsyth, 1995. , 2 excursions beyond the criterion out of 4 samples collected at the mouth during 1994-1995.						This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
15	**38541**	**2**	**N**	**DOGFISH CREEK, E.F.**	**AE23TW**	**0**	**26N**	**01E**	**11**	**pH**	**Water**
				Kitsap County unpublished data show 2 excursions beyond the criterion out of 49 measurements collected in 1996-2001 at station ED01.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
15	38543	2	N	**DOGFISH CREEK, W.F.**	TD36EV	0	26N	01E	11	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1998 and 1999 at station WD01.							
15	38563	2	N	**DYES INLET**	390KRD	47122F6H7	47.575	122.675		**Dissolved oxygen**	**Water**
				Kitsap County unpublished data at station DY14 (NEARSHORE HEAD OF OYSTER BAY APP. 150 M NORTH OF PUMP STATION) show excursions beyond the criterion in measurements collected in 1996.							
15	38583	2	N	**DYES INLET**	390KRD	47122G6D8	47.635	122.685		**Dissolved oxygen**	**Water**
				Kitsap County unpublished data at station DY28 (NORTH END MID CHANNEL) show excursions beyond the criterion in measurements collected in 1996 and 1998.							
15	38576	2	N	**DYES INLET**	390KRD	47122G6E9	47.645	122.695		**Fecal Coliform**	**Water**
				Kitsap County unpublished data at station DY24 (NEARSHORE DOCK AT SILVERDALE COUNTY PARK) show a geometric mean of 2 cfu/100mL with 17% of the samples above the percentile criterion out of 6 samples collected in 2002, with only 1 sample that exceeds the percentile criterion.							
15	38549	2	N	**DYES INLET**	390KRD	47122F6G1	47.565	122.615		**pH**	**Water**
				Kitsap County unpublished data at station DY01 (MOUTH AT SOUTH END PORT WASHINGTON NARROWS) show 1 excursion beyond the criterion out of 29 measurements collected in 1996-2001.							
15	38573	2	N	**DYES INLET**	390KRD	47122G7A0	47.605	122.705		**pH**	**Water**
				Kitsap County unpublished data at station DY20 (NEARSHORE SW CORNER CHICO BAY NEAR CHICO CR MOUTH) show 2 excursions beyond the criterion out of 30 measurements collected in 1996-2001.							
15	38581	2	N	**DYES INLET**	523BPV	47122G6E8	47.645	122.685		**pH**	**Water**
				Kitsap County unpublished data at station DY27 (HEAD OF DYES NEAR CLEAR CREEK ESTUARY) show 1 excursion beyond the criterion out of 22 measurements collected in 1996-2001.							

Remarks

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**38550**	**2**	**N**	**DYES INLET**	**390KRD**	**47122F6G1**	**47.565**	**122.615**	**Temperature**	**Water**
				Kitsap County unpublished data at station DY01 (MOUTH AT SOUTH END PORT WASHINGTON NARROWS) show excursions beyond the criterion in measurements collected in 1996 and 1998.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.
15	**38554**	**2**	**N**	**DYES INLET**	**390KRD**	**47122F6I4**	**47.585**	**122.645**	**Temperature**	**Water**
				Kitsap County unpublished data at station DY05 (NEARSHORE LIONS PARK SOUTH OF BOAT LAUNCH) show excursions beyond the criterion in measurements collected in 1996, 1997 and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**38558**	**2**	**N**	**DYES INLET**	**390KRD**	**47122F6I5**	**47.585**	**122.655**	**Temperature**	**Water**
				Kitsap County unpublished data at station DY07 (NEARSHORE HEAD OF PHINNEY BAY) show excursions beyond the criterion in measurements collected in 1996,1997, 1998 and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.
15	**38562**	**2**	**N**	**DYES INLET**	**390KRD**	**47122G6A6**	**47.605**	**122.665**	**Temperature**	**Water**
				Kitsap County unpublished data at station DY09 (MID-CHANNEL EAST OF BASS POINT) show excursions beyond the criterion in measurements collected in 1996-1998. Kitsap County unpublished data at station DY32 (NEARSHORE TRACYTON BOAT LAUNCH) show excursions beyond the criterion in measurements collected in 1996, 1997, 1998 and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**38566**	**2**	**N**	**DYES INLET**	**390KRD**	**47122F6H7**	**47.575**	**122.675**	**Temperature**	**Water**
				Kitsap County unpublished data at station DY14 (NEARSHORE HEAD OF OYSTER BAY APP. 150 M NORTH OF PUMP STATION) show excursions beyond the criterion in measurements collected in 1996, 1997, 1998, and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.
15	**38570**	**2**	**N**	**DYES INLET**	**390KRD**	**47122F6H8**	**47.575**	**122.685**	**Temperature**	**Water**
				Kitsap County unpublished data at station DY15 (NEARSHORE HEAD OF OSTRICH BAY) show excursions beyond the criterion in measurements collected in 1996, 1997, 1998 and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**38574**	**2**	**N**	**DYES INLET**	**390KRD**	**47122G7A0**	**47.605**	**122.705**	**Temperature**	**Water**
				Kitsap County unpublished data at station DY20 (NEARSHORE SW CORNER CHICO BAY NEAR CHICO CR MOUTH) show excursions beyond the criterion in measurements collected in 1996, 1997, 1998 and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.
15	**38578**	**2**	**N**	**DYES INLET**	**390KRD**	**47122G6E9**	**47.645**	**122.695**	**Temperature**	**Water**
				Kitsap County unpublished data at station DY24 (NEARSHORE DOCK AT SILVERDALE COUNTY PARK) show excursions beyond the criterion in measurements collected in 1997, 1998 and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**38582**	**2**	**N**	**DYES INLET**	**523BPV**	**47122G6E8**	**47.645**	**122.685**	**Temperature**	**Water**
				Kitsap County unpublished data at station DY27 (HEAD OF DYES NEAR CLEAR CREEK ESTUARY) show excursions beyond the criterion in measurements collected in 1996, 1997, 1998 and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.
15	**38586**	**2**	**N**	**DYES INLET**	**390KRD**	**47122G6D8**	**47.635**	**122.685**	**Temperature**	**Water**
				Kitsap County unpublished data at station DY28 (NORTH END MID CHANNEL) show excursions beyond the criterion in measurements collected in 1996, 1997, 1998 and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**38590**	**2**	**N**	**DYES INLET**	**390KRD**	**47122G6D7**	**47.635**	**122.675**	**Temperature**	**Water**
				Kitsap County unpublished data at station DY29 (NEARSHORE BARKER CREEK MOUTH) show excursions beyond the criterion in measurements collected in 1996, 1997, 1998 and 2001.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.	
15	**10254**	**2**	**N**	**EAGLE HARBOR**	**390KRD**	**47122G5C2**	**47.625**	**122.525**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station EAG001 (Eagle Harbor - Inner) shows 4 excursions beyond the criterions out of 11 samples collected between 1993-2000						
15	**10256**	**2**	**N**	**EAGLE HARBOR**	**390KRD**	**47122G5C2**	**47.625**	**122.525**	**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station EAG001 (Eagle Harbor - Inner) shows 3 excursions beyond the criterions out of 11 samples collected between 1993-2000					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**38627**	**2**	**N**	**EGLON CREEK**	**EW21GE**	**0**	**27N**	**02E**	**02**	**Fecal Coliform**	**Water**
				Kitsap County unpublished data show a geometric mean of 34 cfu/100mL with 33% of the samples above the percentile criterion out of 12 samples collected in 2002.						Changed from Hoffman Creek to Eglon Creek per comment from Kitsap Co Health on 5/10/04 -kk Changed from Cat 5 to Cat 2 due to poor sampling location. The stream did not flow in some months due to sand buildup around the stream outfall creating a shallow pond with no outlet. FC had unusual growth characteristics. -kk	
15	**38595**	**2**	**N**	**GAMBLE CREEK**	**PQ58EB**	**0**	**27N**	**02E**	**20**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1996 and 2001 at station PG01.							
15	**38600**	**2**	**N**	**GAMBLE CREEK**	**PQ58EB**	**0.249**	**27N**	**02E**	**29**	**Fecal Coliform**	**Water**
				Kitsap County unpublished data show a geometric mean of 18 cfu/100mL with 13% of the samples above the percentile criterion out of 8 samples collected in 2002 at station PG02.							
15	**38601**	**2**	**N**	**GAMBLE CREEK**	**PQ58EB**	**0.249**	**27N**	**02E**	**29**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 44 measurements collected in 1996-2001 at station PG02.							
15	**38617**	**2**	**N**	**GORST CREEK**	**WT04RS**	**3.236**	**24N**	**01W**	**36**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 40 measurements collected in 1996-2001.							
15	**40077**	**2**	**N**	**GREAT BEND/LYNCH COVE**	**390KRD**	**47122E8C9**	**47.425**	**122.895**		**Fecal Coliform**	**Water**
				Department of Health unpublished data collected from station HOOD CANAL #9-279 show a geometric mean of 6 cfu/100mL and 10% of samples exceed the percentile criterion with the last sample collected on 14-Nov-2001. Department of Health unpublished data collected from station HOOD CANAL #9-278 show a geometric mean of 4 cfu/100mL and 6.66666666666667% of samples exceed the percentile criterion with the last sample collected on 14-Nov-2001.						Although the water quality standards are met, the samples exceed the Department of Health's criterion for a Threatened shellfish growing area.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
15	**10249**	**2**	**N**	**GREAT BEND/LYNCH COVE** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station HCB007 (Hood Canal - Lynch Cove) shows 42 excursions beyond the criterions out of 79 samples collected between 1993-2000	**390KRD**	**47122D9J2**	**47.395**	**122.925**		**Temperature**	**Water**	This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
15	**38622**	**2**	**N**	**GROVERS CREEK** Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1998 at station GC01.	**QB02OV**	**0.01**	**26N**	**02E**	**04**	**Temperature**	**Water**	
15	**8730**	**2**	**N**	**GROVERS CREEK** Forsyth, 1995. , 1 excursion beyond the criterion out of 4 samples collected at the mouth during 1994-1995.	**QB02OV**	**0.01**	**26N**	**02E**	**04**	**Turbidity**	**Water**	
15	**10241**	**2**	**Y**	**HENDERSON BAY** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station BML001 (Burley-Minter Lagoon) shows 3 excursions beyond the criterions out of 12 samples collected between 1993-2000	**390KRD**	**47122D6H3**	**47.375**	**122.635**		**Dissolved oxygen**	**Water**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**43004**	**2**	**N**	**HENDERSON BAY**	**390KRD**	**47122D6F6**	**47.355**	**122.665**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 74 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/27/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 10/3/2002).					This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern).	
15	**43005**	**2**	**N**	**HENDERSON BAY**	**390KRD**	**47122D6H3**	**47.375**	**122.635**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 75 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/27/2001).						
15	**10243**	**2**	**N**	**HENDERSON BAY**	**390KRD**	**47122D6H3**	**47.375**	**122.635**	**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station BML001 (Burley-Minter Lagoon) shows 6 excursions beyond the criterions out of 12 samples collected between 1993-2000					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
15	**36347**	**2**	**N**	**HENDERSON BAY**	**390KRD**	**47122D6H9**	**47.375**	**122.695**	**Total PCBs**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of 4 muscle tissue tissue tissue tissue tissue samples collected in 1998 and 2000 from coho salmon (Oncorhynchus kisutch) samples from station MINTERCR.						
15	**38382**	**2**	**N**	**HOOD CANAL**	**390KRD**	**47122H6H9**	**47.775**	**122.695**	**pH**	**Water**
				Kitsap County unpublished data at station HC25 (NEARSHORE N OF VINLAND) show 1 excursion beyond the criterion out of 35 measurements collected in 1996-2001.						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
15	**38386**	**2**	**N**	**HOOD CANAL** Kitsap County unpublished data at station HC28 (NEARSHORE LOFALL CR) show 1 excursion beyond the criterion out of 35 measurements collected in 1996-2001.	**390KRD**	**47122I6B5**	**47.815**	**122.655**		**pH**		**Water**
15	**38644**	**2**	**N**	**HOOD CANAL** Kitsap County unpublished data at station HC05 (ANDERSON COVE - NEARSHORE TO BIG ANDERSON CR) show 1 excursion beyond the criterion out of 28 measurements collected in 1996-2001. Kitsap County unpublished data at station HC04 (HOLLY COVE - NEARSHORE TO HOLLY CR) show no excursions beyond the criterion in measurements collected in 1996-2001.	**390KRD**	**47122F9G7**	**47.565**	**122.975**		**pH**		**Water**
15	**10272**	**2**	**N**	**HOOD CANAL (NORTH)** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station HCB006 (Hood Canal - King Spit Bangor) shows 5 excursions beyond the criterions out of 72 samples collected between 1993-2000	**390KRD**	**47122H7E2**	**47.745**	**122.725**		**pH**		**Water**
15	**10282**	**2**	**N**	**HOOD CANAL (SOUTH)** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station HCB003 (Hood Canal - Eldon Hamma Hamma R.) shows 8 excursions beyond the criterions out of 46 samples collected between 1993-2000	**390KRD**	**47123F0D0**	**47.535**	**123.005**		**pH**		**Water**
15	**10379**	**2**	**Y**	**HUGE CREEK** Dickes and Patterson, 1994. station H2 (Huge Creek (H2)) shows a geometric mean of 7 cfu/100mL with 14% exceeding the percentile criterion out of 7 samples collected during 1993, with only 1 sample that exceeds the percentile criterion. Dickes and Patterson, 1994. station H2 (Huge Creek (H2)) shows 0 single samples exceed the geometric mean criterion out of 2 samples collected during 1992. Kitsap County unpublished data show a geometric mean of 25 cfu/100mL with 0% of the samples above the percentile criterion out of 9 samples collected in 2002 at station HG01.	**YV85GW**	**2.064**	**22N**	**01E**	**08**	**Fecal Coliform**	This waterbody segment does not meet listing criteria for bacteria in WQ Policy 1-11, which requires that when the exceedances are based on a percentile critieron, you must have a minimum of 10% and at least 2 samples exceeding the criteria. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.	**Water**
15	**38660**	**2**	**N**	**ILLAHEE CREEK** Kitsap County unpublished data show 1 excursion beyond the criterion out of 38 measurements collected in 1996-2001 at station IC01.	**BT04CA**	**0.003**	**25N**	**02E**	**31**	**pH**		**Water**
15	**38664**	**2**	**N**	**JOHNSON CREEK** Kitsap County unpublished data show 1 excursion beyond the criterion out of 21 measurements collected in 1996-2001.	**VD71BW**	**0.01**	**26N**	**01E**	**22**	**pH**		**Water**
15	**38666**	**2**	**N**	**KINMAN CREEK** Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1996.	**LU93MN**	**0.041**	**27N**	**01E**	**23**	**Dissolved oxygen**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
15	38918	2	N	**KLEABAL CREEK**	TK40MO	0	26N	02E	29	Dissolved oxygen	Water
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1996 and 1997.							
15	23710	2	N	**LEMOLO CREEK**	AO74VW	0.02	26N	01E	25	pH	Water
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-31 (Lemolo Creek @ estuary mouth) show 1 excursions beyond the criterion out of 11 measurements collected in 2001-2002.							
15	10268	2	N	**LIBERTY BAY**	390KRD	47122H6D4	47.735	122.645		Dissolved oxygen	Water
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station POD007 (Port Orchard - Inner) shows 2 excursions beyond the criterions out of 12 samples collected between 1993-2000. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-10 (Upper Liberty Bay west shore at Legion Park shoreline trail access point(@ south stormwater outfall)) show no excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-11 (City of Poulsbo waterfront - north end of town just off boardwalk just north of SON Hall) show no excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-9 (Upper Liberty Bay west shore at Legion Park) show no excursions beyond the criterion from measurements collected in 2002.							
15	23537	2	N	**LIBERTY BAY**	390KRD	47122H6B2	47.715	122.625		Dissolved oxygen	Water
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-24 (Lemolo Cove on north side of point (Horder property)) show no excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-27 (Lemolo Point north shore (Klinikowsky property)) show 1 excursion beyond the criterion from measurements collected in 2002.							
15	23540	2	N	**LIBERTY BAY**	390KRD	47122H6C3	47.725	122.635		Dissolved oxygen	Water
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-14 (City of Poulsbo waterfront - south end of town (outside of Harbor) along bluffs below Net- Shed Park) show no excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-15 (City of Poulsbo waterfront - south end of town @ Poulsbo Yacht Club main dock at base of gangway) show no excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-16 (City of Poulsbo waterfront - south of Poulsbo Yacht Club (@ Stormwater outfall)) show no excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-17 (City of Poulsbo waterfront - south end of town @ Oyster Park) show no excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-18 (City of Poulsbo waterfront - south end of town @ Liberty Bay Marina (bay-side near docks)) show 1 excursions beyond the criterion from measurements collected in 2001. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-19 (City of Poulsbo waterfront - south end of town @ city limits/sheep farm (below stormwater outfall)) show no excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-20 (City of Poulsbo waterfront - south end of town @ city limits mid-bay) show no excursions beyond the criterion from measurements collected in 2001-2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**23541**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6C4**	**47.725**	**122.645**	**Dissolved oxygen**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-12 (City of Poulsbo waterfront - central area @ Poulsbo Marina fueling dock (shore-side)) show no excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-13 (City of Poulsbo waterfront - at boat end of ramp near Poulsbo MSC (w/in Harbor)) show 2 excursions beyond the criterion from measurements collected in 2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-46 (Poulsbo Outfall @ Boardwalk near Gran Kirk Apartments) show no excursions beyond the criterion from measurements collected in 2001-2002.						
15	**38682**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6D5**	**47.735**	**122.655**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data at station LB06 (MID CHANNEL HEAD OF LIBERTY BAY) show excursions beyond the criterion in measurements collected in 1997, 1998, 1999 and 2001.					This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern). Kitsap County Health Department (Kreis, 5/12/05) provides justification that historic DO exceedances occur seasonally at these nearshore monitoring stations located in or near shallow embayments with elevated summer temperatures. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**38686**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6C5**	**47.725**	**122.655**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data at station LB08 (MID-CHANNEL EAST OF JOHNSON CREEK) show excursions beyond the criterion in measurements collected in 1997-1999.						This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern). Kitsap County Health Department (Kreis, 5/12/05) provides justification that historic DO exceedances occur seasonally at these nearshore monitoring stations located in or near shallow embayments with elevated summer temperatures. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.
15	**38690**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6B4**	**47.715**	**122.645**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data at station LB10 (NEARSHORE PEARSON POINT) show excursions beyond the criterion in measurements collected in 1997-1999.						This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern). Kitsap County Health Department (Kreis, 5/12/05) provides justification that historic DO exceedances occur seasonally at these nearshore monitoring stations located in or near shallow embayments with elevated summer temperatures.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**38694**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6A3**	**47.705**	**122.635**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data at station LB12 (MID-BAY DOGFISH BAY) show excursions beyond the criterion in measurements collected in 1996-1999.					This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern). Kitsap County Health Department (Kreis, 5/12/05) provides justification that historic DO exceedances occur seasonally at these nearshore monitoring stations located in or near shallow embayments with elevated summer temperatures. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.	
15	**15732**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6B3**	**47.715**	**122.635**	**Fecal Coliform**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station POD006 (Port Orchard - Liberty Bay/Virg. Point) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1991.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station POD006 (Port Orchard - Liberty Bay/Virg. Point) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 4 samples collected during 1992.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station POD006 (Port Orchard - Liberty Bay/Virg. Point) shows a geometric mean of 190 exceeds the criterion and that 100% of the samples exceeds the percentile criterion from 1 samples collected during 1994.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station POD006 (Port Orchard - Liberty Bay/Virg. Point) shows a geometric mean of 1 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1995. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-43 (Virginia Point (Ingels property)) show a geometric mean of 4 cfu/100mL from samples collected in 2001-2002.						
15	**23700**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6A2**	**47.705**	**122.625**	**Fecal Coliform**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-26 (Lemolo Cove on south side of point (Benham property)) show a geometric mean of 27 cfu/100mL from samples collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-29 (Lemolo Point south shore (Deits property)) show a geometric mean of 84 cfu/100mL from samples collected in 2001-2002.					Changed to Category 2. Measurements taken at or near an outfall do not adequately portray the condition of the receiving waters.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**23705**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6C3**	**47.725**	**122.635**	**Fecal Coliform**	**Water**

Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-14 (City of Poulsbo waterfront - south end of town (outside of Harbor) along bluffs below Net-Shed Park) show a geometric mean of 34 cfu/100mL from samples collected in 2001-2002.

Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-15 (City of Poulsbo waterfront - south end of town @ Poulsbo Yacht Club main dock at base of gangway) show a geometric mean of 5 cfu/100mL from samples collected in 2001-2002.

Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-16 (City of Poulsbo waterfront - south of Poulsbo Yacht Club (@ Stormwater outfall)) show a geometric mean of 110 cfu/100mL from samples collected in 2001-2002.

Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-17 (City of Poulsbo waterfront - south end of town @ Oyster Park) show a geometric mean of 22 cfu/100mL from samples collected in 2001-2002.

Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-18 (City of Poulsbo waterfront - south end of town @ Liberty Bay Marina (bay-side near docks)) show a geometric mean of 8 cfu/100mL from samples collected in 2001-2002.

Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-19 (City of Poulsbo waterfront - south end of town @ city limits/sheep farm (below stormwater outfall)) show a geometric mean of 18 cfu/100mL from samples collected in 2001-2002.

Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-20 (City of Poulsbo waterfront - south end of town @ city limits mid-bay) show a geometric mean of 7 cfu/100mL from samples collected in 2001-2002.

Changed to Category 2. Measurements taken at or near an outfall do not adequately portray the condition of the receiving waters.

15	**23706**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6C4**	**47.725**	**122.645**	**Fecal Coliform**	**Water**

Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-12 (City of Poulsbo waterfront - central area @ Poulsbo Marina fueling dock (shore-side)) show a geometric mean of 31 cfu/100mL from samples collected in 2001-2002.

Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-13 (City of Poulsbo waterfront - at boat end of ramp near Poulsbo MSC (w/in Harbor)) show a geometric mean of 24 cfu/100mL from samples collected in 2001-2002.

Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-46 (Poulsbo Outfall @ Boardwalk near Gran Kirk Apartments) show a geometric mean of 109 cfu/100mL from samples collected in 2001-2002.

Changed to Category 2. Measurements taken at or near an outfall do not adequately portray the condition of the receiving waters.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**23707**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6D4**	**47.735**	**122.645**	**Fecal Coliform**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-10 (Upper Liberty Bay west shore at Legion Park shoreline trail access point(@ south stormwater outfall)) show a geometric mean of 134 cfu/100mL from samples collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-11 (City of Poulsbo waterfront - north end of town just off boardwalk just north of SON Hall) show a geometric mean of 14 cfu/100mL from samples collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-8 (Upper Liberty Bay west shore at Legion Park shoreline trail access point (@ north stormwater outfall)) show a geometric mean of 101 cfu/100mL from samples collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-9 (Upper Liberty Bay west shore at Legion Park) show a geometric mean of 9 cfu/100mL from samples collected in 2001-2002. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station POD007 (Port Orchard - Inner) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1997.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station POD007 (Port Orchard - Inner) shows a geometric mean of 4 does not exceed the criterion and that 14% of the samples exceed the percentile criterion from 7 samples collected during 1998, with only 1 sample that exceeds the percentile criterion..					The sample locations for LBNS-10 & LBNS-9 are located at outfalls and may not be representative of the conditions of this waterbody. Station LBNS-8 is not located at an outfall and is at the upper limit criterion (14 cfu/100mL) for this waterbody. -cb 5/20/05	
15	**23709**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6E5**	**47.745**	**122.655**	**Fecal Coliform**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-2 (Head of Liberty Bay west shore at end of rip-rap along Bayview Fitness Center parking lot (@ stormwater outfall)) show a geometric mean of 242 cfu/100mL from samples collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-3 (Head of Liberty Bay east shore at Nelson Park shoreline trail access point (@ stormwater outfall)) show a geometric mean of 35 cfu/100mL from samples collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-4 (Head of Liberty Bay east shore at Nelson Park (w/in park property just north of apartment complex)) show a geometric mean of 9 cfu/100mL from samples collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-42 (Dogfish Bay @ mid-bay) show a geometric mean of 6 cfu/100mL from samples collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-5 (Head of Liberty Bay east shore at apartment complex (@stormwater outfall)) show a geometric mean of 71 cfu/100mL from samples collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-6 (Upper Liberty Bay east shore at Liberty Shores Retirement Home beach access point (@stormwater outfall)) show a geometric mean of 33 cfu/100mL from samples collected in 2001-2002.					Changed to Category 2. Measurements taken at or near an outfall do not adequately portray the condition of the receiving waters.	
15	**23716**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122G6J1**	**47.695**	**122.615**	**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-45 (Keyport north of Naval Station Keyport mid-bay) show 1 excursions beyond the criterion out of 3 measurements collected in 2001-2002.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**23718**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6A1**	**47.705**	**122.615**	**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-28 (Lemolo Point @ point mid-channel (off Bushnell/Stimac beach)) show 1 excursions beyond the criterion out of 2 measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-34 (Ne Si Ka Bay @ mid-bay) show no excursions beyond the criterion out of measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-44 (Keyport @ Keyport Marina (outside of docks)) show 3 excursions beyond the criterion out of 5 measurements collected in 2001-2002.						Low pH. Changed to Category 2. Data reported by Kitsap County Health contradicts the pH readings reported by Liberty Bay Foundation.
15	**23719**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6A2**	**47.705**	**122.625**	**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-26 (Lemolo Cove on south side of point (Benham property)) show 3 excursions beyond the criterion out of 9 measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-29 (Lemolo Point south shore (Deits property)) show 3 excursions beyond the criterion out of 9 measurements collected in 2001-2002.						Low pH. Changed to Category 2. Data reported by Kitsap County Health contradicts the pH readings reported by Liberty Bay Foundation.
15	**23721**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6B1**	**47.715**	**122.615**	**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-25 (Lemolo Cove @ mid-bay) show 3 excursions beyond the criterion out of 4 measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-33 (Ne Si Ka Bay @ Ne Si Ka development (off-shore)) show 3 excursions beyond the criterion out of 5 measurements collected in 2001-2002.						Low pH. Changed to Category 2. Data reported by Kitsap County Health contradicts the pH readings reported by Liberty Bay Foundation.
15	**23722**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6B2**	**47.715**	**122.625**	**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-24 (Lemolo Cove on north side of point (Horder property)) show no excursions beyond the criterion out of measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-27 (Lemolo Point north shore (Klinikowsky property)) show 4 excursions beyond the criterion out of 9 measurements collected in 2001-2002.						Low pH, except for one high pH exceedence of 10.00 on 12/17/01. Changed to Category 2. Data reported by Kitsap County Health contradicts the pH readings reported by Liberty Bay Foundation.
15	**23723**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6B3**	**47.715**	**122.635**	**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-43 (Virginia Point (Ingels property)) show 4 excursions beyond the criterion out of 5 measurements collected in 2001-2002. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station POD006 (Port Orchard - Liberty Bay/Virg. Point) shows 0 excursions beyond the criterions out of 11 samples collected between 1993-2000						Both low pH and high pH. Changed to Category 2. EAP Marine Unit staff (Grantham memo, 5/10/05)examined the pH data underlying this listing and had QA concerns that the measurements may have been subject to a systematic error. Recommendation was to place this listing on Category 2 data because of questionable QA from other sources of data. Data reported by Kitsap County Health contradicts the low pH readings reported by Liberty Bay Foundation.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**23725**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6C2**	**47.725**	**122.625**	**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-22 (Lemolo @ undeveloped shoreline site just south of Lemolo Meat Market) show 5 excursions beyond the criterion out of 10 measurements collected in 2001-2002.						Low pH. Changed to Category 2. Data reported by Kitsap County Health contradicts the pH readings reported by Liberty Bay Foundation.
15	**23726**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6C3**	**47.725**	**122.635**	**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-14 (City of Poulsbo waterfront - south end of town (outside of Harbor) along bluffs below Net- Shed Park) show 1 excursions beyond the criterion out of 3 measurements collected in 2001-2002.						Low pH. Changed to Category 2. Data reported by Kitsap County Health contradicts the pH readings reported by Liberty Bay Foundation.
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-15 (City of Poulsbo waterfront - south end of town @ Poulsbo Yacht Club main dock at base of gangway) show 5 excursions beyond the criterion out of 5 measurements collected in 2001-2002.						
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-16 (City of Poulsbo waterfront - south of Poulsbo Yacht Club (@ Stormwater outfall)) show 2 excursions beyond the criterion out of 7 measurements collected in 2001-2002.						
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-17 (City of Poulsbo waterfront - south end of town @ Oyster Park) show 7 excursions beyond the criterion out of 10 measurements collected in 2001-2002.						
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-18 (City of Poulsbo waterfront - south end of town @ Liberty Bay Marina (bay-side near docks)) show 7 excursions beyond the criterion out of 11 measurements collected in 2001-2002.						
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-19 (City of Poulsbo waterfront - south end of town @ city limits/sheep farm (below stormwater outfall)) show 4 excursions beyond the criterion out of 8 measurements collected in 2001-2002.						
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-20 (City of Poulsbo waterfront - south end of town @ city limits mid-bay) show 1 excursions beyond the criterion out of 2 measurements collected in 2001-2002.						
15	**23729**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6D5**	**47.735**	**122.655**	**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-7 (Upper Liberty Bay east shore at the mouth of Johnson Creek) show 3 excursions beyond the criterion out of 6 measurements collected in 2001-2002.						Low pH. Changed to Category 2. Data reported by Kitsap County Health contradicts the pH readings reported by Liberty Bay Foundation.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**10267**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6B3**	**47.715**	**122.635**	**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station POD006 (Port Orchard - Liberty Bay/Virg. Point) shows 2 excursions beyond the criterions out of 23 samples collected between 1993-2000. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-43 (Virginia Point (Ingels property)) show 3 excursions beyond the criterion from measurements collected in 2001-2002.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
15	**10269**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6D4**	**47.735**	**122.645**	**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station POD007 (Port Orchard - Inner) shows 6 excursions beyond the criterions out of 12 samples collected between 1993-2000. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-10 (Upper Liberty Bay west shore at Legion Park shoreline trail access point(@ south stormwater outfall)) show 2 excursions beyond the criterion from measurements collected in 2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-11 (City of Poulsbo waterfront - north end of town just off boardwalk just north of SON Hall) show 1 excursion beyond the criterion from measurements collected in 2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-8 (Upper Liberty Bay west shore at Legion Park shoreline trail access point (@ north stormwater outfall)) show no excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-9 (Upper Liberty Bay west shore at Legion Park) show 3 excursions beyond the criterion from measurements collected in 2001-2002.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
15	**23739**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6A1**	**47.705**	**122.615**	**Temperature**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-28 (Lemolo Point @ point mid-channel (off Bushnell/Stimac beach)) show 1 excursions beyond the criterion from measurements collected in 2001. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-34 (Ne Si Ka Bay @ mid-bay) show 1 excursions beyond the criterion from measurements collected in 2001. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-44 (Keyport @ Keyport Marina (outside of docks)) show 2 excursions beyond the criterion from measurements collected in 2002.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**23740**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6A2**	**47.705**	**122.625**	**Temperature**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-26 (Lemolo Cove on south side of point (Benham property)) show 1 excursions beyond the criterion from measurements collected in 2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-29 (Lemolo Point south shore (Deits property)) show 1 excursions beyond the criterion from measurements collected in 2002.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
15	**23742**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6B1**	**47.715**	**122.615**	**Temperature**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-25 (Lemolo Cove @ mid-bay) show 3 excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-33 (Ne Si Ka Bay @ Ne Si Ka development (off-shore)) show 3 excursions beyond the criterion from measurements collected in 2001-2002.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
15	**23745**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6C2**	**47.725**	**122.625**	**Temperature**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-22 (Lemolo @ undeveloped shoreline site just south of Lemolo Meat Market) show 3 excursions beyond the criterion from measurements collected in 2001-2002.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**23746**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6C3**	**47.725**	**122.635**	**Temperature**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-14 (City of Poulsbo waterfront - south end of town (outside of Harbor) along bluffs below Net-Shed Park) show no excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-15 (City of Poulsbo waterfront - south end of town @ Poulsbo Yacht Club main dock at base of gangway) show 3 excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-16 (City of Poulsbo waterfront - south of Poulsbo Yacht Club (@ Stormwater outfall)) show 1 excursion beyond the criterion from measurements collected in 2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-17 (City of Poulsbo waterfront - south end of town @ Oyster Park) show 1 excursions beyond the criterion from measurements collected in 2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-18 (City of Poulsbo waterfront - south end of town @ Liberty Bay Marina (bay-side near docks)) show 3 excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-19 (City of Poulsbo waterfront - south end of town @ city limits/sheep farm (below stormwater outfall)) show 1 excursion beyond the criterion from measurements collected in 2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-20 (City of Poulsbo waterfront - south end of town @ city limits mid-bay) show no excursions beyond the criterion from measurements collected in 2001-2002.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
15	**23749**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6E5**	**47.745**	**122.655**	**Temperature**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-2 (Head of Liberty Bay west shore at end of rip-rap along Bayview Fitness Center parking lot (@ stormwater outfall)) show no excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-3 (Head of Liberty Bay east shore at Nelson Park shoreline trail access point (@ stormwater outfall)) show 3 excursions beyond the criterion from measurements collected in 2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-4 (Head of Liberty Bay east shore at Nelson Park (w/in park property just north of apartment complex)) show 3 excursions beyond the criterion from measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-42 (Dogfish Bay @ mid-bay) show 1 excursions beyond the criterion from measurements collected in 2001. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-5 (Head of Liberty Bay east shore at apartment complex (@stormwater outfall)) show 3 excursions beyond the criterion from measurements collected in 2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-6 (Upper Liberty Bay east shore at Liberty Shores Retirement Home beach access point (@stormwater outfall)) show 3 excursions beyond the criterion from measurements collected in 2002.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**38677**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6B2**	**47.715**	**122.625**	**Temperature**	**Water**
				Kitsap County unpublished data at station LB03 (NEARSHORE LEMOLO BAY) show excursions beyond the criterion in measurements collected in 1996-2001.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
15	**38681**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6C4**	**47.725**	**122.645**	**Temperature**	**Water**
				Kitsap County unpublished data at station LB05 (NEARSHORE NORTH END POULSBO MARINA) show excursions beyond the criterion in measurements collected in 1996-2001.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**38685**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6D5**	**47.735**	**122.655**	**Temperature**	**Water**
				Kitsap County unpublished data at station LB06 (MID CHANNEL HEAD OF LIBERTY BAY) show excursions beyond the criterion in measurements collected in 1996-2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.
15	**38689**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6C5**	**47.725**	**122.655**	**Temperature**	**Water**
				Kitsap County unpublished data at station LB08 (MID-CHANNEL EAST OF JOHNSON CREEK) show excursions beyond the criterion in measurements collected in 1996-2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**38693**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6B4**	**47.715**	**122.645**	**Temperature**	**Water**
				Kitsap County unpublished data at station LB10 (NEARSHORE PEARSON POINT) show excursions beyond the criterion in measurements collected in 1996-2001.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
15	**38697**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122H6A3**	**47.705**	**122.635**	**Temperature**	**Water**
				Kitsap County unpublished data at station LB12 (MID-BAY DOGFISH BAY) show excursions beyond the criterion in measurements collected in 1996-2001.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**38701**	**2**	**N**	**LIBERTY BAY**	**390KRD**	**47122G6J0**	**47.695**	**122.605**		**Temperature**	**Water**
				Kitsap County unpublished data at station LB13 (MID-CHANNEL WEST OF POINT BOLIN) show excursions beyond the criterion in measurements collected in 1996-2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
15	**18892**	**2**	**N**	**LITTLE ANDERSON CREEK**	**HL10ZJ**	**0.151**	**24N**	**02W**	**17**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 129D (Little Anderson Cr) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.68 , but more definitive information is needed to determine if the segment is actually impaired.							
15	**38702**	**2**	**N**	**LITTLE ANDERSON CREEK**	**YH53MY**	**0.706**	**25N**	**01W**	**13**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1997 at station LA02.							
15	**38704**	**2**	**N**	**LITTLE ANDERSON CREEK**	**YH53MY**	**0.706**	**25N**	**01W**	**13**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 46 measurements collected in 1996-2001 at station LA02.							
15	**7650**	**2**	**Y**	**LITTLE MISSION CREEK**	**SB72ZI**	**0**	**22N**	**02E**	**01**	**pH**	**Water**
				Mason County Shellfish Protection Project , 2 excursions beyond the criterion at station S10 (near mouth) between 8/1/90 and 8/1/91.						This waterbody segment was listed on the 1998 303(d) list based on two exceedances, and does not meet minimum exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
15	**42796**	**2**	**N**	**LONGFELLOW CREEK**	**XE80KI**	**0.01**	**22N**	**02W**	**11**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 15H050 shows 1 of 3 samples (33.3%) in year 2002 exceeded the percentile criterion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**38708**	**2**	**N**	**MARTHA-JOHN CREEK**	**BU57GF**	**0**	**27N**	**02E**	**17**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 36 measurements collected in 1996-2001 at station MJ01.							
15	**21913**	**2**	**N**	**MARTHA-JOHN CREEK**	**YF74OD**	**0**	**27N**	**02E**	**16**	**Temperature**	**Water**
				Labbe et al. 2002, shows excursions beyond the criterion from instanatenous measurements collected in 2002 near NE 288th St. Labbe et al. 2002, shows no excursions beyond the criterion from the annual 7-day mean of daily maximum temperature from continuous measurements collected in 2001-2002 near NE 288th St.						This monitoring station replaces the monitoring station used in Listing ID 7657. -kk	
15	**7656**	**2**	**Y**	**MAYO CREEK**	**TV40MV**	**0**	**20N**	**01W**	**01**	**pH**	**Water**
				Sandison and Hanowell, 1999. show 1 excursion beyond the criterion on 29 August 1996 out of 8 samples collected between 1996 and 1998. Tacoma-Pierce County Health department unpublished data (submitted by Ray Hanowell on 8/28/91) show 2 excursions beyond the criterion at station PA08 between 11/1/88 and 10/1/90 and 2 excursions beyond the criterion at station PS12 between 11/1/88 and 10/1/90.						Assessment of data in the past 10 years indicates one excursion, which is is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
15	**38713**	**2**	**N**	**MILLER BAY**	**390KRD**	**47122H5E5**	**47.745**	**122.555**		**Temperature**	**Water**
				Kitsap County unpublished data at station MB01 (MID CHANNEL MOUTH OF MILLER BAY WEST OF SPIT) show excursions beyond the criterion in measurements collected in 1996, 1997, 1998, 1999 and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**38716**	**2**	**N**	**MILLER BAY**	**390KRD**	**47122H5F5**	**47.755**	**122.555**	**Temperature**	**Water**
				Kitsap County unpublished data at station MB03 show excursions beyond the criterion in measurements collected in 1996, 1998 and 1999.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
15	**22495**	**2**	**N**	**MILLER LAKE**	**331XJG**	**27N**	**02E**	**21**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
15	**23717**	**2**	**N**	**NE SI KA BAY**	**390KRD**	**47122H6A0**	**47.705**	**122.605**	**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-35 (Ne Si Ka Point @ tribal property (contact Paul Dorn for access)) show 4 excursions beyond the criterion out of 5 measurements collected in 2001-2002.						Low pH. Changed to Category 2. Data reported by Kitsap County Health contradicts the pH readings reported by Liberty Bay Foundation.
15	**36071**	**2**	**N**	**NISQUALLY REACH/DRAYTON PASSAGE**	**390KRD**	**47122B7E6**	**47.145**	**122.765**	**4,4'-DDE**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle and tissue samples collected in 1992 from chinook salmon (Oncorhynchus tshawytscha) samples from station SOUSOUND. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was met in 1992 and 1995 from coho salmon (Oncorhynchus kisutch) samples from station SOUSOUND.						Tissue samples are from anadromous or nonresident fish do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.
15	**36245**	**2**	**N**	**NISQUALLY REACH/DRAYTON PASSAGE**	**390KRD**	**47122B7E6**	**47.145**	**122.765**	**Dieldrin**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle and tissue samples collected in 1992 from coho salmon (Oncorhynchus kisutch) samples from station SOUSOUND. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was met in 1992 from chinook salmon (Oncorhynchus tshawytscha) samples from station SOUSOUND.						Tissue samples are from anadromous or nonresident fish do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**10225**	**2**	**N**	**NISQUALLY REACH/DRAYTON PASSAGE**	**390KRD**	**47122B7G8**	**47.165**	**122.785**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station NSQ002 (Nisqually Reach - Devils Head) shows 22 excursions beyond the criterions out of 52 samples collected between 1993-2000					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that this location does not suggest that the exceedances are the result of anthropogenic inputs. The site is located in an area that is typically well mixed and is not expected to be subject to loclized degrdaion of D.O. levels. Agree with earlier Ecology decision that these exceedances are a natural condition. These excursions beyond the criterion are a natural with no direct human-caused influence due to natural variations in the marine environment, based on the 11/03 judgment of Jan Newton (Dept. of Ecology).	
condition										
15	**42991**	**2**	**N**	**NISQUALLY REACH/DRAYTON PASSAGE**	**390KRD**	**47122B7I9**	**47.185**	**122.795**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 57 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/25/2001).						
15	**42993**	**2**	**N**	**NISQUALLY REACH/DRAYTON PASSAGE**	**390KRD**	**47122B7H3**	**47.175**	**122.735**	**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 60 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/24/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 9/30/2002).					This data was collected by Ecology during a cruise of the south Sound aboard a University of Washington (UW) research vessel. All data were collected using a UW instrument package. It has since been discovered that the dissolved oxygen sensor on the instrument package had not been calibrated recently, leading us to question the accuracy of the data collected. We therefore recommend that the listings based solely on these data be changed to category 2 (Grantham memo, 4/2005).	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**42994**	**2**	**N**	**NISQUALLY REACH/DRAYTON PASSAGE**	**390KRD**	**47122B7E5**	**47.145**	**122.755**		**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 61 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/24/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 9/30/2002).						This data was collected by Ecology during a cruise of the south Sound aboard a University of Washington (UW) research vessel. All data were collected using a UW instrument package. It has since been discovered that the dissolved oxygen sensor on the instrument package had not been calibrated recently, leading us to question the accuracy of the data collected. We therefore recommend that the listings based solely on these data be changed to category 2 (Grantham memo, 4/2005).	
15	**10226**	**2**	**N**	**NISQUALLY REACH/DRAYTON PASSAGE**	**390KRD**	**47122B7G8**	**47.165**	**122.785**		**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station NSQ002 (Nisqually Reach - Devils Head) shows 3 excursions beyond the criterions out of 37 samples collected between 1993-2000							
15	**36341**	**2**	**N**	**NISQUALLY REACH/DRAYTON PASSAGE**	**390KRD**	**47122B7E6**	**47.145**	**122.765**		**Total PCBs**	**Tissue**
				Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle tissue tissue tissue tissue tissue tissue samples collected in 1992 from chinook salmon (Oncorhynchus tshawytscha) samples from station SOUSOUND. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle tissue tissue tissue tissue tissue tissue samples collected in 1992 and 1995 from coho salmon (Oncorhynchus kisutch) samples from station SOUSOUND.						Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	
15	**23720**	**2**	**N**	**NORTH PEARSON BAY**	**390KRD**	**47122H6A3**	**47.705**	**122.635**		**pH**	**Water**
				Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-40 (North Pearson Bay @ mid-bay) show 2 excursions beyond the criterion out of 3 measurements collected in 2001-2002. Liberty Bay Foundation unpublished data (submitted by Luis Barrantes on 12 Decemeber 2002) from station LBNS-41 (South Pearson Bay @ mid-bay) show 2 excursions beyond the criterion out of 3 measurements collected in 2001-2002.							
15	**38721**	**2**	**N**	**OLALLA CREEK**	**GC81GI**	**2.481**	**22N**	**02E**	**05**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1997 at station OC02.							
15	**38723**	**2**	**N**	**OLALLA CREEK**	**GC81GI**	**2.481**	**22N**	**02E**	**05**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 15K070 shows that of 12 samples none exceed the criterion. Kitsap County unpublished data show 1 excursion beyond the criterion out of 44 measurements collected in 1996-2001 at station OC02.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**10278**	**2**	**N**	**PORT GAMBLE BAY**	**390KRD**	**47122I5E7**	**47.845**	**122.575**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station PGA001 (Port Gamble - Inner Harbor) shows 7 excursions beyond the criterions out of 18 samples collected between 1993-2000					July 2003 Sediment Cleanup Action Plan and related dredging that occurred by Pope & Talbot, as well as participation in the MTCA Voluntary Cleanup Program has resulted in significant improvements to the bay that would provide improvements to dissolved oxygen, among other things. The indication of substantial recovery of benthic biological community is a very good sign that water quality improvements have occurred. Based on extensive work in the Bay, this listing has been moved to Category 2. Ecology staff, Albertson 2005, suggests data provided to demonstrated El Nino Southern Oscillation (ENSO) variation effects on DO are inconclusive. Near bottom DO levels at close by stations are higher than inside Port Gamble suggesting local processes within the bay may be responsible for reducing the oxygen concentrations. No data is available subsequent to the dredging of 12,000 cubic yards of wood waste carried out in July 2003. Such newer data may provide different results.	
15	**40125**	**2**	**Y**	**PORT GAMBLE BAY**	**390KRD**	**47122I5C6**	**47.825**	**122.565**	**Fecal Coliform**	**Water**
				Kitsap County unpublished data at station HC37 (NEARSHORE MARTHA JOHN CR) show a geometric mean of 3 cfu/100mL with 0% of the samples above the percentile criterion out of 5 samples collected in 2002. Department of Health unpublished data collected from station PORT GAMBLE-67 show a geometric mean of 6 cfu/100mL and 10% of samples exceed the percentile criterion with the last sample collected on 10-Dec-2001.					More recent data measuring the geometric mean indicates that this water is meeting standards for fecal coliform. Listing will be placed on the waters of concern list until further monitoring verifies the water continues to meet criteria.	
15	**10262**	**2**	**N**	**PORT MADISON BAY**	**390KRD**	**47122H5D3**	**47.735**	**122.535**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station PMA001 (Port Madison - S. of Buoy 65) shows 4 excursions beyond the criterions out of 11 samples collected between 1993-2000						
15	**38741**	**2**	**N**	**PORT MADISON BAY**	**390KRD**	**47122H4C9**	**47.725**	**122.495**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data at station PM04 (OFFSHORE MID BAY BETWEEN POINT MONROE & JEFF HEAD) show excursions beyond the criterion in measurements collected in 1996.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**38463**	**2**	**N**	**PORT ORCHARD BAY**	**390KRD**	**47122G6F1**	**47.655**	**122.615**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data no show excursions beyond the criterion in measurements collected in 1997-2002.					This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern). Kitsap County Health Department (Kreis, 5/12/05) provides a clarification that only two DO exceedances (10/24/02 and 11/14/02), have been recorded since monitoring began in 1996. The 10/24/02 value is attributable to equipment error during the monitoring event as all DO values for that day were low. The 11/14/02 has an unknown cause. The 10/24/02 DO data will be discarded by the Health District. The measured excursions beyond the criterion are a natural condition due to the large open wetlands in the headwaters per the 3 January 2003 submittal by Jim Zimny of Kitsap County.		
15	**38750**	**2**	**N**	**PORT ORCHARD BAY**	**390KRD**	**47122G5B9**	**47.615**	**122.595**	**Fecal Coliform**	**Water**
				Kitsap County unpublished data at station PO09 (NEARSHORE SCOTT'S CREEK SOUTH BOAT DOCK) show a geometric mean of 4 cfu/100mL with 20% of the samples above the percentile criterion out of 5 samples collected in 2002, with only 1 sample that exceeds the percentile criterion.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**38470**	**2**	**N**	**PORT ORCHARD BAY**	**390KRD**	**47122G6F1**	**47.655**	**122.615**	**Temperature**	**Water**
				Kitsap County unpublished data at station BU01 (MID-CHANNEL MOUTH OF BURKE BAY) show excursions beyond the criterion in measurements collected in 1996-2001.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.	
15	**38843**	**2**	**N**	**PURDY CREEK**	**UM57RJ**	**2.304**	**22N**	**01E**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1998 at station PR01.						
15	**10237**	**2**	**Y**	**QUARTERMASTER HARBOR**	**390KRD**	**47122D4I6**	**47.385**	**122.465**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station QMH001 (Quartermaster Harbor - Burton) shows 4 excursions beyond the criterions out of 11 samples collected between 1993-2000					This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern). This listing should not have appeared on the 1998 303(d) list because these excursions beyond the criterion are a natural condition with no direct human caused influence due to stratification based on the 6/97 judgement of Jan Newton (Dept. of Ecology). This listing will be placed on Category 2 as a water of concern.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information				Parameter	Remarks	Medium
15	**10238**	**2**	**N**	**QUARTERMASTER HARBOR** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station QMH001 (Quartermaster Harbor - Burton) shows 1 excursions beyond the criterions out of 11 samples collected between 1993-2000	**390KRD**	**47122D4I6**	**47.385**	**122.465**	**pH**		**Water**
15	**10239**	**2**	**N**	**QUARTERMASTER HARBOR** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station QMH001 (Quartermaster Harbor - Burton) shows 8 excursions beyond the criterions out of 22 samples collected between 1993-2000	**390KRD**	**47122D4I6**	**47.385**	**122.465**	**Temperature**	This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	**Water**
15	**38847**	**2**	**N**	**RICH PASSAGE** Kitsap County unpublished data at station SN18 (NEARSHORE PT GLOVER (GREEN CHANNEL MARKER #9)) show excursions beyond the criterion in measurements collected in 1997 and 1998.	**390KRD**	**47122F5J4**	**47.595**	**122.545**	**Dissolved oxygen**		**Water**
15	**38854**	**2**	**N**	**RICH PASSAGE** Kitsap County unpublished data at station SN21 (MID-CHANNEL RICH PASSAGE OFF ORCHARD PT (RED MARKER #4)) show excursions beyond the criterion in measurements collected in 1997 and 1998.	**390KRD**	**47122F5H2**	**47.575**	**122.525**	**Dissolved oxygen**		**Water**
15	**38849**	**2**	**N**	**RICH PASSAGE** Kitsap County unpublished data at station SN18 (NEARSHORE PT GLOVER (GREEN CHANNEL MARKER #9)) show 1 excursion beyond the criterion out of 30 measurements collected in 1996-2001.	**390KRD**	**47122F5J4**	**47.595**	**122.545**	**pH**		**Water**
15	**38852**	**2**	**N**	**RICH PASSAGE** Kitsap County unpublished data at station SN19 show 1 excursions beyond the criterion out of 6 measurements collected in 1996-1998.	**390KRD**	**47122F5I4**	**47.585**	**122.545**	**pH**		**Water**
15	**38856**	**2**	**N**	**RICH PASSAGE** Kitsap County unpublished data at station SN21 (MID-CHANNEL RICH PASSAGE OFF ORCHARD PT (RED MARKER #4)) show 1 excursions beyond the criterion out of 31 measurements collected in 1996-2001.	**390KRD**	**47122F5H2**	**47.575**	**122.525**	**pH**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**14826**	**2**	**N**	**ROCKY CREEK**	**JD90EX**	**0**	**22N**	**01W**	**27**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project SPASM (SOUTH PUGET SOUND MODEL) station ROC09 (ROCKY CREEK AT HWY 302) shows 1 excursions beyond the criterion out of 7 samples collected between 03/99 - 09/99.							
15	**38858**	**2**	**N**	**ROSS CREEK**	**NY49GT**	**0**	**24N**	**01E**	**34**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1996 at station RS02.							
15	**38928**	**2**	**N**	**SACCO CREEK**	**WN12XA**	**0**	**24N**	**02E**	**19**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 16 measurements collected in 1996-2001.							
15	**18893**	**2**	**N**	**SEABECK CREEK**	**DX55BD**	**0.158**	**25N**	**01W**	**29**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 136D (Seabeck Cr nr mouth) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.7 , but more definitive information is needed to determine if the segment is actually impaired. Plotnikoff and Wiseman, 2002, at station 41D (Seabeck Cr nr mouth) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.78 , but more definitive information is needed to determine if the segment is actually impaired. Plotnikoff and Wiseman, 2002, at station 110D (Seabeck Cr nr mouth) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 1.05.							
15	**10251**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6F4**	**47.555**	**122.645**		**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station SIN001 (Sinclair Inlet - Naval Shipyards) shows 11 excursions beyond the criterions out of 97 samples collected between 1993-2000							
15	**15738**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6F4**	**47.555**	**122.645**		**Fecal Coliform**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station SIN001 (Sinclair Inlet - Naval Shipyards) shows a geometric mean of 85 exceeds the criterion and that 50% of the samples exceeds the percentile criterion from 2 samples collected during 1991, with only 1 sample that exceeds the percentile criterion..Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station SIN001 (Sinclair Inlet - Naval Shipyards) shows a geometric mean of 4 does not exceed the criterion and that 11% of the samples exceed the percentile criterion from 9 samples collected during 1992, with only 1 sample that exceeds the percentile criterion..Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station SIN001 (Sinclair Inlet - Naval Shipyards) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 1993.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station SIN001 (Sinclair Inlet - Naval Shipyards) shows a geometric mean of 5 does not exceed the criterion and that 20% of the samples exceed the percentile criterion from 5 samples collected during 1994, with only 1 sample that exceeds the percentile criterion..Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station SIN001 (Sinclair Inlet - Naval Shipyards) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 4 samples collected during 1995.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station SIN001 (Sinclair Inlet - Naval Shipyards) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1996.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station SIN001 (Sinclair Inlet - Naval Shipyards) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 7 samples collected during 1997.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station SIN001 (Sinclair Inlet - Naval Shipyards) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 4 samples collected during 1998.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station SIN001 (Sinclair Inlet - Naval Shipyards) shows a geometric mean of 11 does not exceed the criterion and that 20% of the samples exceed the percentile criterion from 5 samples collected during 1999, with only 1 sample that exceeds the percentile criterion..							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**38803**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6E0**	**47.545**	**122.605**	**Fecal Coliform**	**Water**
				Kitsap County unpublished data at station SN13 (NEARSHORE BETWEEN ANNAPOLIS DOCK & P.O. WWTP OF) show a geometric mean of 4 cfu/100mL with 17% of the samples above the percentile criterion out of 6 samples collected in 2002, with only 1 sample that exceeds the percentile criterion.						
15	**38807**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6G0**	**47.565**	**122.605**	**Fecal Coliform**	**Water**
				Kitsap County unpublished data at station SN14 (MID-CHANNEL BETWEEN PT HERON & P.O. WWTP OF) show a geometric mean of < 2 cfu/100mL with 17% of the samples above the percentile criterion out of 6 samples collected in 2002, with only 1 sample that exceeds the percentile criterion.						
15	**10252**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6F4**	**47.555**	**122.645**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station SIN001 (Sinclair Inlet - Naval Shipyards) shows 8 excursions beyond the criterions out of 75 samples collected between 1993-2000						
15	**38800**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6E2**	**47.545**	**122.625**	**pH**	**Water**
				Kitsap County unpublished data at station SN12 (NEARSHORE BLACKJACK CR ESTUARY) show 2 excursions beyond the criterion out of 24 measurements collected in 1996-2001.						
15	**38804**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6E0**	**47.545**	**122.605**	**pH**	**Water**
				Kitsap County unpublished data at station SN13 (NEARSHORE BETWEEN ANNAPOLIS DOCK & P.O. WWTP OF) show 2 excursions beyond the criterion out of 29 measurements collected in 1996-2001.						
15	**38808**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6G0**	**47.565**	**122.605**	**pH**	**Water**
				Kitsap County unpublished data at station SN14 (MID-CHANNEL BETWEEN PT HERON & P.O. WWTP OF) show 1 excursion beyond the criterion out of 29 measurements collected in 1996-2001.						
15	**38812**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F5I6**	**47.585**	**122.565**	**pH**	**Water**
				Kitsap County unpublished data at station SN17 (NEARSHORE WEST OF WATERMAN PT) show 1 excursion beyond the criterion out of 30 measurements collected in 1996-2001.						
15	**38868**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6E6**	**47.545**	**122.665**	**pH**	**Water**
				Kitsap County unpublished data at station SN03 (NEARSHORE HWY 3 MERGER NEAR PILINGS (BREM WWTP OF)) show 2 excursions beyond the criterion out of 28n measurements collected in 1996-2001. Kitsap County unpublished data at station SN08 (NEARSHORE ROSS POINT) show 2 excursions beyond the criterion out of 28 measurements collected in 1996-2001.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
15	**38872**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6D8**	**47.535**	**122.685**	**pH**	**Water**
				Kitsap County unpublished data at station SN05 (MID INLET AT HEAD OFF PILINGS BY PIONEER QUARRY) show 2 excursion beyond the criterion out of 28 measurements collected in 1996-2001.						
15	**38880**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6E4**	**47.545**	**122.645**	**pH**	**Water**
				Kitsap County unpublished data at station SN10 (NEARSHORE OBSERVATION DOCK NEAR TWEETENS REST.) show 3 excursions beyond the criterion out of 28 measurements collected in 1996-2001.						
15	**10253**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6F4**	**47.555**	**122.645**	**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station SIN001 (Sinclair Inlet - Naval Shipyards) shows 12 excursions beyond the criterions out of 112 samples collected between 1993-2000					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
15	**38797**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6E4**	**47.545**	**122.645**	**Temperature**	**Water**
				Kitsap County unpublished data at station SN10 (NEARSHORE OBSERVATION DOCK NEAR TWEETENS REST.) show excursions beyond the criterion in measurements collected in 1996, 1997, 1998 and 2001.					This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**38801**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6E2**	**47.545**	**122.625**	**Temperature**	**Water**
				Kitsap County unpublished data at station SN12 (NEARSHORE BLACKJACK CR ESTUARY) show excursions beyond the criterion in measurements collected in 1996, 1997, 1998 and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.
15	**38805**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6E0**	**47.545**	**122.605**	**Temperature**	**Water**
				Kitsap County unpublished data at station SN13 (NEARSHORE BETWEEN ANNAPOLIS DOCK & P.O. WWTP OF) show excursions beyond the criterion in measurements collected in 1996, 1997, 1998 and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
15	**38809**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6G0**	**47.565**	**122.605**	**Temperature**	**Water**
				Kitsap County unpublished data at station SN14 (MID-CHANNEL BETWEEN PT HERON & P.O. WWTP OF) show excursions beyond the criterion in measurements collected in 1996 and 1997.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.
15	**38869**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6E6**	**47.545**	**122.665**	**Temperature**	**Water**
				Kitsap County unpublished data at station SN03 (NEARSHORE HWY 3 MERGER NEAR PILINGS (BREM WWTP OF)) show excursions beyond the criterion in measurements collected in 1996, 1997 and 2001. Kitsap County unpublished data at station SN08 (NEARSHORE ROSS POINT) show excursions beyond the criterion in measurements collected in 1996, 1997, 1998, and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**38873**	**2**	**N**	**SINCLAIR INLET**	**390KRD**	**47122F6D8**	**47.535**	**122.685**		**Temperature**	**Water**
				Kitsap County unpublished data at station SN05 (MID INLET AT HEAD OFF PILINGS BY PIONEER QUARRY) show excursions beyond the criterion in measurements collected in 1996, 1997, 1999 and 2001.						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming. The measured excursions beyond the criterion are a natural condition per the 3 January 2003 submittal by Jim Zimny of Kitsap County.	
15	**38882**	**2**	**N**	**STRAWBERRY CREEK**	**LV21OX**	**0.062**	**25N**	**01E**	**20**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1997 at station SB01. Kitsap County unpublished data show no excursions beyond the criterion in measurements collected in 1996-2001. Kitsap County unpublished data show no excursions beyond the criterion in measurements collected in 1996-2001. Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1997 at station SB01.						
15	**38884**	**2**	**N**	**STRAWBERRY CREEK**	**LV21OX**	**0.062**	**25N**	**01E**	**20**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 50 measurements collected in 1996-2001 at station SB01. Kitsap County unpublished data show 2 excursions beyond the criterion out of 44 measurements collected in 1996-2001.							
15	**43007**	**2**	**N**	**TACOMA NARROWS**	**390KRD**	**47122C5I3**	**47.285**	**122.535**		**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 77 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/28/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 10/3/2002).						This data was collected by Ecology during a cruise of the south Sound aboard a University of Washington (UW) research vessel. All data were collected using a UW instrument package. It has since been discovered that the dissolved oxygen sensor on the instrument package had not been calibrated recently, leading us to question the accuracy of the data collected. We therefore recommend that the listings based solely on these data be changed to category 2 (Grantham memo, 4/2005).	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**43008**	**2**	**N**	**TACOMA NARROWS**	**390KRD**	**47122D5B6**	**47.315**	**122.565**		**Dissolved oxygen**	**Water**
				South Puget Sound Area Synthesis Model (SPASM) Water Quality Study (D.O. Titration samples, submitted by Jan Newton, Ecology on 3/8/2004), station 78 shows at least one excursion beyond the criterion in 2001 (sample collected on 9/28/2001); and at at least one excursion beyond the criterion in 2002 (sample collected on 10/4/2002).						This data was collected by Ecology during a cruise of the south Sound aboard a University of Washington (UW) research vessel. All data were collected using a UW instrument package. It has since been discovered that the dissolved oxygen sensor on the instrument package had not been calibrated recently, leading us to question the accuracy of the data collected. We therefore recommend that the listings based solely on these data be changed to category 2 (Grantham memo, 4/2005).	
15	**18894**	**2**	**N**	**TAHUYA RIVER**	**YE86JI**	**24.571**	**23N**	**02W**	**01**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 50D (Tahuya R) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.6 , but more definitive information is needed to determine if the segment is actually impaired. Plotnikoff and Wiseman, 2002, at station 138D (Upper Tahuya R) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.83 , but more definitive information is needed to determine if the segment is actually impaired. Plotnikoff and Wiseman, 2002, at station 112D (Tahuya R) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.97.							
15	**38895**	**2**	**N**	**TAHUYA RIVER**	**YE86JI**	**31.629**	**24N**	**01W**	**20**	**Fecal Coliform**	**Water**
				Kitsap County unpublished data show a geometric mean of 9 cfu/100mL with 22% of the samples above the percentile criterion out of 9 samples collected in 2002 at station TR02.						Changed from Category 5 to Category 2 based on recalculation of basis. 07/16/04 -kk	
15	**38892**	**2**	**N**	**TAHUYA RIVER**	**YE86JI**	**26.166**	**24N**	**02W**	**36**	**pH**	**Water**
				Kitsap County unpublished data show 2 excursions beyond the criterion out of 44 measurements collected in 1996-2001 at station TR01.							
15	**38896**	**2**	**N**	**TAHUYA RIVER**	**YE86JI**	**31.629**	**24N**	**01W**	**20**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 44 measurements collected in 1996-2001 at station TR02.							
15	**38898**	**2**	**N**	**UNION RIVER**	**MF56EG**	**7.893**	**23N**	**01W**	**10**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1998, 1999 and 2001 at station UN01.						Kitsap County Health Department (Kreis, 5/12/05) provides justification that low DO values are historically recorded at these monitoring stations during warm season conditions. These exceedances have an unknown cause.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
15	**38902**	**2**	**N**	**UNION RIVER**	**MF56EG**	**8.972**	**23N**	**01W**	**03**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1996-2001 at station UN02. Kitsap County unpublished data show no excursions beyond the criterion in measurements collected in 2001.						Kitsap County Health Department (Kreis, 5/12/05) provides justification that low DO values are historically recorded at these monitoring stations during warm season conditions. These exceedances have an unknown cause.	
15	**38900**	**2**	**N**	**UNION RIVER**	**MF56EG**	**7.893**	**23N**	**01W**	**10**	**pH**	**Water**
				Kitsap County unpublished data show 3 excursions beyond the criterion out of 32 measurements collected in 1996-2001 at station UN01.							
15	**38904**	**2**	**N**	**UNION RIVER**	**MF56EG**	**8.972**	**23N**	**01W**	**03**	**pH**	**Water**
				Kitsap County unpublished data show 2 excursions beyond the criterion out of 46 measurements collected in 1996-2001 at station UN02. Kitsap County unpublished data show no excursions beyond the criterion in measurements collected in 1996-2001.							
15	**38930**	**2**	**N**	**UNNAMED CREEK**	**DT92SL**	**1.064**	**25N**	**01E**	**08**	**Dissolved oxygen**	**Water**
				Kitsap County unpublished data show excursions beyond the criterion in measurements collected in 1998 at station WC01.							
15	**35461**	**2**	**N**	**UNNAMED CREEK**	**IV50BF**	**1.3**	**24N**	**01E**	**19**	**pH**	**Water**
				Port Blakely Tree Farms unpublished data from station DI212 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursion beyond the criterion from 5 measurements collected in 2001-2002.							
15	**38912**	**2**	**N**	**UNNAMED CREEK**	**IN53PY**	**0.251**	**23N**	**01W**	**10**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 13 measurements collected in 1996-2001.							
15	**38932**	**2**	**N**	**UNNAMED CREEK**	**DT92SL**	**1.064**	**25N**	**01E**	**08**	**pH**	**Water**
				Kitsap County unpublished data show 1 excursion beyond the criterion out of 49 measurements collected in 1996-2001 at station WC01.							
15	**43032**	**2**	**N**	**UNNAMED CREEK**	**UNK000**	**0**	**00U**	**000U**	**00**	**pH**	**Water**
				Kitsap County Health District, 2004, 1 excursion beyond the criterion out of 36 samples collected at station DE01 between 1996 and 2001.						ENETAI (DEE) CREEK, no WASWIS, TRS = 24N-02E-07. - kk	
15	**7658**	**2**	**N**	**WRIGHT CREEK**	**KD05SA**	**0.013**	**24N**	**01E**	**28**	**Fecal Coliform**	**Water**
				Bremerton-Kitsap Health District data show excursions beyond the criterion measured at station WR01 (near mouth off of Earhart Street) on 4/29/92 and 6/1/92.						Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 2 based on the 1998 assessment.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
16	**22325**	**2**	**N**	**DUCKABUSH RIVER**	**SC72WD**	**7.858**	**25N**	**03W**	**02**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 12D (Duckabush R) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.84 , but more definitive information is needed to determine if the segment is actually impaired. Plotnikoff and Wiseman, 2002, at station 149D (Duckabush River) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.89. Plotnikoff and Wiseman, 2002, at station 283D (Duckabush River) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 1.18.						
16	**40193**	**2**	**N**	**HOOD CANAL (SOUTH)**	**390KRD**	**47122G8I8**	**47.685**	**122.885**		**Fecal Coliform**	**Water**
				Department of Health unpublished data collected from station HOOD CANAL #3-125 show a geometric mean of 7 cfu/100mL and 10% of samples exceed the percentile criterion with the last sample collected on 12-Dec-2001. Department of Health unpublished data collected from station HOOD CANAL #3-126 show a geometric mean of 5 cfu/100mL and 10% of samples exceed the percentile criterion with the last sample collected on 12-Dec-2001.						Although the water quality standards are met, the samples exceed the Department of Health's criterion for a Threatened shellfish growing area.	
16	**9889**	**2**	**N**	**LILLIWAUP CREEK**	**PY66QZ**	**0.023**	**23N**	**03W**	**99**	**Fecal Coliform**	**Water**
				Sargeant (1999) station LILC0.0 (LILLIWAUP CK-LC (MOUTH)) shows the geometric mean of 102 exceeds the criterion and that 75 % of the samples exceeds the percentile criterion from 4 samples collected during 1998.; ; Sargeant (1999) station LIRC0.0 (LILLIWAUP CK-RC (MOUTH)) shows the geometric mean of 140 exceeds the criterion and that 67 % of the samples exceeds the percentile criterion from 3 samples collected during 1998.; ;							
16	**9891**	**2**	**N**	**LILLIWAUP CREEK**	**PY66QZ**	**0.415**	**23N**	**03W**	**19**	**Fecal Coliform**	**Water**
				Sargeant (1999) station LICM0.6 (LILLIWAUP CK BELOW FALLS) shows the geometric mean of 22 does not exceed the criterion and that 20 % of the samples exceeds the percentile criterion from 5 samples collected during 1998, with only 1 sample that exceeds the percentile criterion.							
16	**9893**	**2**	**N**	**LILLIWAUP CREEK**	**PY66QZ**	**7.593**	**23N**	**04W**	**10**	**Fecal Coliform**	**Water**
				Sargeant (1999) station LICM5.7 (LILLIWAUP CK BELOW DNR CAMPGROUND) shows the geometric mean of 46 does not exceed the criterion and that 25 % of the samples exceeds the percentile criterion from 4 samples collected during 1998.; ;							
16	**21927**	**2**	**N**	**MCDONALD CREEK**	**BL34WW**	**0**	**25N**	**02W**	**29**	**Temperature**	**Water**
				Labbe et al. 2002, shows excursions beyond the criterion from instanatenous measurements collected in 2002 near Highway 101. Labbe et al. 2002, shows no excursions beyond the criterion from the annual 7-day mean of daily maximum temperature from continuous measurements collected in 2001-2002 near Highway 101.							
16	**14846**	**2**	**N**	**PURDY CREEK**	**MJ89JI**	**0**	**21N**	**04W**	**14**	**Dissolved oxygen**	**Water**
				Seiders et al. (2001) station PURBOUR (PURDY CREEK AT E. BOURGAULT RD BRIDGE) shows 5 excursions beyond the criterion out of 10 samples collected between 01/99 - 01/00.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
16	**21930**	**2**	**N**	**ROCKY BROOK**	**RB91GP 0 26N 02W 28**	**Temperature**	**Water**
				Labbe et al. 2002, shows excursions beyond the criterion from instanatenous measurements collected in 2001-2002 near stream mouth. Labbe et al. 2002, shows excursions beyond the criterion from the annual 7-day mean of daily maximum temperature from continuous measurements collected in 2001 and 2002 near stream mouth. Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show a 7-day mean of maximum daily temperature of 16.6 degrees C on the week ending 7-17-2002, with a maximum daily temperature of 17.4 degrees C from continuous measurements collected in 2002 at RM 0.25 (station ID Rocky Brook).		Changed to Category 2 due to concerns regarding sample collection. 07/15/04 -kk	
16	**35268**	**2**	**N**	**SKOKOMISH RIVER, S.F.**	**QW27AV 22.167 22N 05W 05**	**Temperature**	**Water**
				Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show a 7-day mean of maximum daily temperature of 15.5 degrees C on the week ending 7-8-2001, with a maximum daily temperature of 16.4 degrees C from continuous measurements collected in 2001 at RM 14 (station ID #27).			
16	**35269**	**2**	**N**	**SKOKOMISH RIVER, S.F.**	**QW27AV 31.762 23N 06W 27**	**Temperature**	**Water**
				Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show a 7-day mean of maximum daily temperature of 14 degrees C on the week ending 8-16-2001, with a maximum daily temperature of 16.4 degrees C from continuous measurements collected in 2001 at RM 20.25 (station ID #7). Department of Ecology unpublished data from EMAP station WA028S (S. FORK SKOKOMISH RIVER (WA028S)) shows no excursions beyond the criterion from measurements made in 1995. Department of Ecology unpublished data from EMAP station WA028S (S. FORK SKOKOMISH RIVER (WA028S)) shows no excursions beyond the criterion from measurements made in 1995. Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show a 7-day mean of maximum daily temperature of 14 degrees C on the week ending 8-16-2001, with a maximum daily temperature of 16.4 degrees C from continuous measurements collected in 2001 at RM 20.25 (station ID #7).			
17	**10294**	**2**	**N**	**ADMIRALTY INLET (OUTER)**	**390KRD 48122B8I4 48.185 122.845**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station ADM002 (Admiralty Inlet (north) - Quimper Pn.) shows 2 excursions beyond the criterions out of 65 samples collected between 1993-2000			
17	**22742**	**2**	**N**	**ANDERSON LAKE**	**669AHJ 29N 01W 09**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 136 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.			

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
17	**16735**	**2**	**N**	**BIG QUILCENE RIVER**	**EL58TS**	**0.161**	**27N**	**02W**	**24**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 17A060 meets tested standards for fecal coliform. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 17A060 (BIG QUILCENE R NR MOUTH) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 8 samples collected during 2001. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 17A060 (BIG QUILCENE R NR MOUTH) shows a geometric mean of 6 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 2000, with only 1 sample that exceeds the percentile criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 17A060 (BIG QUILCENE R NR MOUTH) shows a geometric mean of 1 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1999.						Listing IDs 40737 (cat 5) and 42678 (cat 1) were consolidated into this listing on 01/24/05, this listing remained as Category 2. -kk	
17	**16736**	**2**	**N**	**BIG QUILCENE RIVER**	**EL58TS**	**3.694**	**27N**	**02W**	**22**	**Fecal Coliform**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 17A070 (Big Quilcene R. near Quilcene) shows a geometric mean of 11 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 1 samples collected during 1998.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 17A070 (Big Quilcene R. near Quilcene) shows a geometric mean of 9 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1993.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 17A070 (Big Quilcene R. near Quilcene) shows a geometric mean of 33 does not exceed the criterion and that 25% of the samples exceeds the percentile criterion from 4 samples collected during 1994.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 17A070 (Big Quilcene R. near Quilcene) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 8 samples collected during 1999.							
17	**7668**	**2**	**Y**	**CHICKEN COOP CREEK**	**KC32MC**	**0.29**	**29N**	**02W**	**06**	**Fecal Coliform**	**Water**
				Clallam County , 1991 show high fecal coliform values at the mouth between 4/17/91 and 9/22/91.						The data and information submitted is not sufficient to make a determination that the water is impaired. Listing will be placed on the waters of concern list until further monitoring verifies the status of the water.	
17	**7669**	**2**	**N**	**CHICKEN COOP CREEK**	**KC32MC**	**2.128**	**29N**	**02W**	**05**	**Fecal Coliform**	**Water**
				Clallam County , 1991 show high fecal coliform values near the headwaters on 8/22/91.						Information submitted is not sufficient to support a Category 5 listing.	
17	**10942**	**2**	**N**	**CHIMACUM CREEK**	**MB88JL**	**5.735**	**29N**	**01W**	**14**	**Dissolved oxygen**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 17B100 (Chimacum Cr @ Chimacum) shows 4 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 94/06/27, 94/07/25, 94/08/22, 94/09/26,							
17	**6126**	**2**	**N**	**CROCKER LAKE**	**482UNR**		**28N**	**02W**	**12**	**Fecal Coliform**	**Water**
				Smith et al. (2000) shows 1 sample above the criterion out of 1 samples.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
17	**22743**	**2**	**N**	**CROCKER LAKE**	**482UNR**	**28N**	**02W**	**12**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Smith et al. (2000) concludes that designated uses are being supported.						
17	**10289**	**2**	**N**	**DISCOVERY BAY**	**390KRD**	**48122A8B4**	**48.015**	**122.845**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station DIS001 (Discovery Bay - Near Mill Point) shows 17 excursions beyond the criterions out of 23 samples collected between 1993-2000					This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern). These excursions beyond the criterion are a natural condition with no direct human-caused influence due to natural variations in the marine environment, based on the 11/03 judgment of Jan Newton (Dept. of Ecology).	
17	**22498**	**2**	**N**	**GIBBS LAKE**	**697FIQ**	**29N**	**01W**	**28**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 22 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
17	**42823**	**2**	**N**	**JIMMYCOMELATELY CREEK**	**JW80JU**	**0.012**	**29N**	**03W 12**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2000, 2001, 2002 and 2003 at site Jimmycomelately 0.1. Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2000 and 2002 at site Jimmycomelately 0.2. Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2001 and 2002 at site Jimmycomelately 0.6.					This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
17	**21544**	**2**	**N**	**JIMMYCOMELATELY CREEK**	**JW80JU**	**0.012**	**29N**	**03W**	**12**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 17C070 shows that of 1 sample none exceeded the criterion. Streamkeepers of Clallam County unpublished data show 2 excursions beyond the criterion out of 8 measurements collected in 2000-2002 at station JCL 0.1 (JCL upstream of Old Blyn Hwy). Streamkeepers of Clallam County unpublished data show 0 excursions beyond the criterion out of 9 measurements collected in 2000-2002 at station JCL 0.2 (JCL u/s of Hwy 101). Streamkeepers of Clallam County unpublished data show 1 excursions beyond the criterion out of 4 measurements collected in 2000-2002 at station JCL 0.3 (JCL @ Corriea Rd).						Low pH	
17	**42832**	**2**	**N**	**JOHNSON CREEK**	**BV22BE**	**0**	**30N**	**03W**	**27**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999 at site Johnson 0.0. Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999 at site Johnson 0.6.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
17	**42975**	**2**	**N**	**JOHNSON CREEK**	**BV22BE**	**1.699**	**30N**	**03W**	**33**	**Fecal Coliform**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Johnson 1.7 shows in 2000, at least one sample exceeded the criterion.							
17	**21549**	**2**	**N**	**JOHNSON CREEK**	**BV22BE**	**0**	**30N**	**03W**	**27**	**pH**	**Water**
				Streamkeepers of Clallam County unpublished data show 1 excursions beyond the criterion out of 7 measurements collected in 1998-2000 at station Johnson 0.6 (Johnson d/s of Hwy 101). Streamkeepers of Clallam County unpublished data show 0 excursions beyond the criterion out of 9 measurements collected in 1997-2000 at station Johnson 0.0 (Johnson upstream of Marina).							
17	**22744**	**2**	**N**	**KAI TAI LAKE**	**203AIU**	**30N**	**01W**	**11**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 1168 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
17	**22499**	**2**	**N**	**LELAND LAKE**	**232QEK**	**28N**	**02W**	**26**		**Total Phosphorus**	**Water**
				Smith et al. (2000) concludes that designated uses are not being supported. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
17	**34989**	**2**	**N**	**SALMON CREEK** Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show a 7-day mean of maximum daily temperature of 12.1 degrees C on the week ending 7-28-2002, with a maximum daily temperature of 16.4 degrees C from continuous measurements collected in 2002 at RM 4.5 (station ID Salmon Ck RM 4.5).	**PY22HX**	**5.843**	**29N**	**02W**	**32**	**Temperature**		**Water**
17	**7678**	**2**	**N**	**SEQUIM BAY** Norman Associates (1978) , 1 excursion beyond the criterion at station 017 on 5/18/87.	**390KRD**	**48123A0D1**	**48.035**	**123.015**		**Dissolved oxygen**		**Water**
17	**7679**	**2**	**N**	**SEQUIM BAY** Norman Associates (1978) , 1 excursion beyond the criterion at station 019 on 5/18/87.	**390KRD**	**48123A0D0**	**48.035**	**123.005**		**Dissolved oxygen**		**Water**
17	**7680**	**2**	**N**	**SEQUIM BAY** Norman Associates (1978) , 1 excursion beyond the criterion at station 018 on 5/18/87.	**390KRD**	**48123A0C0**	**48.025**	**123.005**		**Dissolved oxygen**		**Water**
17	**10296**	**2**	**N**	**SEQUIM BAY** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station JDF007 (Strait of Juan de Fuca - Sequim Bay Goose Point) shows 1 excursions beyond the criterions out of 2 samples collected between 1993-2000	**390KRD**	**48123A0E0**	**48.045**	**123.005**		**Dissolved oxygen**		**Water**
17	**10300**	**2**	**N**	**SEQUIM BAY** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station JDF005 (Strait of Juan de Fuca - Sequim Bay) shows 3 excursions beyond the criterions out of 10 samples collected between 1993-2000. Norman Associates (1978) , 1 excursion beyond the criterion at station 028 on 5/18/87.	**390KRD**	**48123A0G2**	**48.065**	**123.025**		**Dissolved oxygen**		**Water**
17	**10302**	**2**	**N**	**SEQUIM BAY** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station SEQ002 (Sequim Bay - Northern) shows 5 excursions beyond the criterions out of 12 samples collected between 1993-2000.	**390KRD**	**48123A0H1**	**48.075**	**123.015**		**Dissolved oxygen**	This listing was reviewed by Ecology Marine Unit staff for natural conditions (see Grantham memo April, 2005). This listing is in an area with physical characteristics or circulation patterns that may increase its susceptibility to anthropogenic effects relative to other parts of Puget Sound. With this consideration, the professional opinion of staff is that the observed dissolved oxygen concentrations at this location may reflect human influences and therefore warrant further examination. However, the available data are sufficiently ambiguous that neither a category 5, nor a category 1 designation is prudent or appropriate. Until further verification is done these locations should be designated as category 2 (waters of concern).	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
17	**7681**	**2**	**N**	**SHINE CREEK**	**WN32JV**	**0.067**	**28N**	**01E**	**32**	**Temperature**	**Water**
				Port Gamble S'Klallam Tribal data (submitted by Peter Bahls on 10/13/97) show 2 excursions beyond the criterion out of 23 samples (9%) at Shine Creek RM 0.2 (WDF# 17.0181) between 1992 and 1994. Labbe et al. 2002, shows excursions beyond the criterion from instanatenous measurements collected in 1993 at Highway 104. Labbe et al. 2002, shows no excursions beyond the criterion from the annual 7-day mean of daily maximum temperature from continuous measurements collected in 2001-2002 at Highway 104.						Continuous temperature measurements were taken, but the information submitted is insufficient to support a Category 5 listing.	
17	**21945**	**2**	**N**	**SPENCER CREEK**	**EL68QD**	**1.492**	**26N**	**02W**	**11**	**Temperature**	**Water**
				Labbe et al. 2002, shows excursions beyond the criterion from instanatenous measurements collected in 1994 near BPA powerline crossing.							
17	**21941**	**2**	**N**	**THORNDYKE CREEK, W.F.**	**AJ93FP**	**0**	**27N**	**01W**	**24**	**Temperature**	**Water**
				Labbe et al. 2002, shows excursions beyond the criterion from instanatenous measurements collected in 1992 and 1993 near stream mouth. Labbe et al. 2002, shows no excursions beyond the criterion from the annual 7-day mean of daily maximum temperature from continuous measurements collected in 2002 near stream mouth.							
18	**42954**	**2**	**N**	**BAGLEY CREEK**	**YM49RG**	**0**	**30N**	**05W**	**08**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999 at site Bagley 0.0.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42955**	**2**	**N**	**BAGLEY CREEK**	**YM49RG**	**1.089**	**30N**	**05W**	**09**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2000, 2001, 2002 and 2003 at site Bagley 0.7.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
18	**42956**	**2**	**N**	**BAGLEY CREEK**	**YM49RG**	**1.838**	**30N**	**05W** **16**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999, 2000 and 2001 at site Bagley 1.2. Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999 and 2000 at site Bagley 1.8.					This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42957**	**2**	**N**	**BAGLEY CREEK**	**YM49RG**	**5.69**	**30N**	**05W** **28**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2001 and 2002 at site Bagley 4.6.					This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42958**	**2**	**N**	**BAGLEY CREEK**	**YM49RG**	**1.838**	**30N**	**05W** **16**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Bagley 1.2 shows 1 sample beyond the criterion collected on the following day: 4/27/2002.						
18	**6971**	**2**	**N**	**BAGLEY CREEK**	**YM49RG**	**0**	**30N**	**05W** **08**	**Fecal Coliform**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Bagley 0.0 shows in 1999, 2000, 2001, 2002, and 2003 at least one sample exceeded the criterion. Streamkeepers of Clallam County unpublished data show a geometric mean of 17 cfu/100mL from 2 samples collected in 2003 at station Bagley 0.0 (Bagley near mouth). Streamkeepers of Clallam County unpublished data show a geometric mean of 34 cfu/100mL from 4 samples collected in 2002 at station Bagley 0.0 (Bagley near mouth). Streamkeepers of Clallam County unpublished data show a geometric mean of 9 cfu/100mL from 4 samples collected in 2001 at station Bagley 0.0 (Bagley near mouth). Streamkeepers of Clallam County unpublished data show a geometric mean of 49 cfu/100mL from 5 samples collected in 2000 at station Bagley 0.0 (Bagley near mouth). Streamkeepers of Clallam County unpublished data show a geometric mean of 108 cfu/100mL from 1 samples collected in 1999 at station Bagley 0.0 (Bagley near mouth).						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
18	**21433**	**2**	**N**	**BAGLEY CREEK**	**YM49RG**	**1.838**	**30N**	**05W**	**16**	**pH**	**Water**
				Streamkeepers of Clallam County unpublished data show 2 excursions beyond the criterion out of 20 measurements collected in 1997-2002 at station Bagley 1.2 (Bagley d/s of Hwy 101). Streamkeepers of Clallam County unpublished data show 2 excursions beyond the criterion out of 16 measurements collected in 1997-2001 at station Bagley 1.8 (Bagley nr. S. Bagley Creek Rd).							
18	**21554**	**2**	**N**	**BAGLEY CREEK**	**YM49RG**	**0**	**30N**	**05W**	**08**	**pH**	**Water**
				Streamkeepers of Clallam County unpublished data show 1 excursions beyond the criterion out of 8 measurements collected in 1997-2000 at station Bagley 0.0 (Bagley near mouth).							
18	**42962**	**2**	**N**	**BELL CREEK**	**ZX80OY**	**0**	**30N**	**03W**	**22**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999, 2000 and 2001 at site Bell 0.1.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42963**	**2**	**N**	**BELL CREEK**	**ZX80OY**	**0.4**	**30N**	**03W**	**21**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2002 and 2003 at site Bell 0.8.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42964**	**2**	**N**	**BELL CREEK**	**ZX80OY**	**2.084**	**30N**	**03W**	**20**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2000 at site Bell 1.8.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42967**	**2**	**N**	**BELL CREEK**	**ZX80OY**	**2.084**	**30N**	**03W**	**20**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Bell 1.8 shows 1 sample beyond the criterion collected on the following day: 1/17/2000.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium
18	15600	2	N	**BELL CREEK**	ZX80OY 0.4 30N 03W 21	Fecal Coliform	Water

Remarks

Jamestown S'Klallam Tribe unpublished data from station Bell 04 shows a geometric mean of 4 from 4 samples collected in 2002. Jamestown S'Klallam Tribe unpublished data from station Bell 04 shows a geometric mean of 98 from 4 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station Bell 04 shows a geometric mean of 24 from 4 samples collected in 2000. Jamestown S'Klallam Tribe unpublished data from station Bell 04 shows a geometric mean of 7 from 4 samples collected in 1998.

Jamestown S'Klallam Tribe unpublished data from station Bell 03 shows a geometric mean of 12 from 4 samples collected in 2002. Jamestown S'Klallam Tribe unpublished data from station Bell 03 shows a geometric mean of 30 from 4 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station Bell 03 shows a geometric mean of 43 from 4 samples collected in 2000. Jamestown S'Klallam Tribe unpublished data from station Bell 03 shows a geometric mean of 3 from 2 samples collected in 1999. Jamestown S'Klallam Tribe unpublished data from station Bell 03 shows a geometric mean of 8 from 4 samples collected in 1998.
Jamestown S'Klallam Tribe unpublished data from station Bell 03 shows a geometric mean of 12 from 4 samples collected in 2002. Jamestown S'Klallam Tribe unpublished data from station Bell 03 shows a geometric mean of 30 from 4 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station Bell 03 shows a geometric mean of 43 from 4 samples collected in 2000. Jamestown S'Klallam Tribe unpublished data from station Bell 03 shows a geometric mean of 3 from 2 samples collected in 1999. Jamestown S'Klallam Tribe unpublished data from station Bell 03 shows a geometric mean of 8 from 4 samples collected in 1998.

Jamestown S'Klallam Tribe unpublished data from station Bell 04 shows a geometric mean of 4 from 4 samples collected in 2002. Jamestown S'Klallam Tribe unpublished data from station Bell 04 shows a geometric mean of 98 from 4 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station Bell 04 shows a geometric mean of 24 from 4 samples collected in 2000. Jamestown S'Klallam Tribe unpublished data from station Bell 04 shows a geometric mean of 7 from 4 samples collected in 1998.

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium
18	15601	2	N	**BELL CREEK**	ZX80OY 2.084 30N 03W 20	Fecal Coliform	Water

Jamestown S'Klallam Tribe unpublished data from station Bell 05 shows a geometric mean of 70 from 1 samples collected in 1998.

Jamestown S'Klallam Tribe unpublished data from station Bell 06 shows a geometric mean of 99 from 2 samples collected in 2002. Jamestown S'Klallam Tribe unpublished data from station Bell 06 shows a geometric mean of 15 from 4 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station Bell 06 shows a geometric mean of 102 from 4 samples collected in 2000. Jamestown S'Klallam Tribe unpublished data from station Bell 06 shows a geometric mean of 4 from 1 samples collected in 1998.

Jamestown S'Klallam Tribe unpublished data from station Bell 07 shows a geometric mean of 140 from 4 samples collected in 2002. Jamestown S'Klallam Tribe unpublished data from station Bell 07 shows a geometric mean of 325 from 4 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station Bell 07 shows a geometric mean of 118 from 4 samples collected in 2000.

Jamestown S'Klallam Tribe unpublished data from station Bell 10 shows a geometric mean of 14 from 2 samples collected in 2002. Jamestown S'Klallam Tribe unpublished data from station Bell 10 shows a geometric mean of 430 from 2 samples collected in 2000.

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium
18	15604	2	N	**BELL CREEK**	ZX80OY 3.891 30N 03W 19	Fecal Coliform	Water

Jamestown S'Klallam Tribe unpublished data from station Bell 08 shows a geometric mean of 122 from 3 samples collected in 2002. Jamestown S'Klallam Tribe unpublished data from station Bell 08 shows a geometric mean of 100 from 4 samples collected in 2002. Jamestown S'Klallam Tribe unpublished data from station Bell 08 shows a geometric mean of 1136 from 4 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station Bell 08 shows a geometric mean of 302 from 4 samples collected in 2000.

Jamestown S'Klallam Tribe unpublished data from station Bell 11 shows a geometric mean of 173 from 4 samples collected in 2001.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
18	**21441**	**2**	**N**	**BELL CREEK**	**ZX80OY**	**0.4**	**30N**	**03W**	**21**	**Temperature**	**Water**
				Streamkeepers of Clallam County unpublished data show 1 exucrison beyond the criterion in measurements collected on 15 August 2001 at station Bell 0.8 (Bell @ Spath DOT site). Streamkeepers of Clallam County unpublished data show no excursions beyond the criterion in measurements collected between 1997-2002 at station Bell 1.5 (Bell Creek @ Carrie Blake Park @ w. foot bridge).							
18	**42817**	**2**	**N**	**CASSALERY CREEK**	**JE42HJ**	**0.679**	**30N**	**03W**	**05**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2002 at site Cassalery 0.6. Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999, 2000 and 2002 at site Cassalery 1.1. Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999, 2000 and 2001 at site Cassalery 0.5.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42818**	**2**	**N**	**CASSALERY CREEK**	**JE42HJ**	**2.357**	**30N**	**03W**	**06**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999, 2000, 2001 and 2002 at site Cassalery 1.6.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42820**	**2**	**N**	**CASSALERY CREEK**	**JE42HJ**	**2.357**	**30N**	**03W**	**06**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Cassalery 1.6 shows 1 sample beyond the criterion collected on the following day: 9/22/2001.							
18	**9932**	**2**	**N**	**DUNGENESS BAY**	**390KRD**	**48123B1E7**	**48.145**	**123.175**		**Fecal Coliform**	**Water**
				Sargeant (2002) station DUN10 (DUNGENESS BAY STATION 10) shows the geometric mean of 2 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 2000.; ; Jamestown S'Klallam Tribe unpublished data from station 12 shows a geometric mean of 3 from 3 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station 12 shows a geometric mean of 46 from 2 samples collected in 2000.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
18	**9933**	**2**	**N**	**DUNGENESS BAY**	**390KRD**	**48123B1F1**	**48.155**	**123.115**	**Fecal Coliform**	**Water**
				Sargeant (2002) station DUN13 (THREE CRABS PIER - SOUTH END MAIN PIER) shows the geometric mean of 17 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 1999.; Sargeant (2002) station DUN13 (THREE CRABS PIER - SOUTH END MAIN PIER) shows the geometric mean of 2 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 2000.; Jamestown S'Klallam Tribe unpublished data from station 15 shows a geometric mean of 3 from 2 samples collected in 2001.						
18	**9937**	**2**	**N**	**DUNGENESS BAY**	**390KRD**	**48123B1F4**	**48.155**	**123.145**	**Fecal Coliform**	**Water**
				Sargeant (2002) station DUN2 (OYSTER HOUSE CHANNEL MOUTH) shows the geometric mean of 2 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 1999.; Sargeant (2002) station DUN2 (OYSTER HOUSE CHANNEL MOUTH) shows the geometric mean of 5 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 2000.; Jamestown S'Klallam Tribe unpublished data from station 04 shows a geometric mean of 3 from 4 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station 05 shows a geometric mean of 13 from 4 samples collected in 2001.						
18	**9938**	**2**	**N**	**DUNGENESS BAY**	**390KRD**	**48123B1F5**	**48.155**	**123.155**	**Fecal Coliform**	**Water**
				Sargeant (2002) station DUN8 (DUNGENESS BAY STATION 8) shows the geometric mean of 2 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 2000.; ; Jamestown S'Klallam Tribe unpublished data from station 08 shows a geometric mean of 4 from 4 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station 10 shows a geometric mean of 2 from 4 samples collected in 2001.						
18	**9939**	**2**	**N**	**DUNGENESS BAY**	**390KRD**	**48123B1G3**	**48.165**	**123.135**	**Fecal Coliform**	**Water**
				Sargeant (2002) station DUN1 (DUNGENESS BAY STATION 1) shows the geometric mean of 2 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 2000.; ; Jamestown S'Klallam Tribe unpublished data from station 03 shows a geometric mean of 7 from 4 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station 03 shows a geometric mean of 5 from 3 samples collected in 2000.						
18	**9940**	**2**	**N**	**DUNGENESS BAY**	**390KRD**	**48123B1G4**	**48.165**	**123.145**	**Fecal Coliform**	**Water**
				Sargeant (2002) station DUN3 (GRAVEYARD) shows the geometric mean of 5 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 1999.; Sargeant (2002) station DUN3 (GRAVEYARD) shows the geometric mean of 2 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 2 samples collected during 2000.; Sargeant (2002) station DUN4 (GRAVEYARD) shows the geometric mean of 17 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 1999.; Sargeant (2002) station DUN4 (GRAVEYARD) shows the geometric mean of 5 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 2000.; Jamestown S'Klallam Tribe unpublished data from station 06 shows a geometric mean of 6 from 4 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station 06 shows a geometric mean of 53 from 2 samples collected in 2000.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
18	**9941**	**2**	**N**	**DUNGENESS BAY**	**390KRD**	**48123B1G5**	**48.165**	**123.155**		**Fecal Coliform**	**Water**
				Sargeant (2002) station DUN6 (INSIDE DUNGENESS BAY) shows the geometric mean of 13 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 1999.; Sargeant (2002) station DUN6 (INSIDE DUNGENESS BAY) shows the geometric mean of 2 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 2000.; Jamestown S'Klallam Tribe unpublished data from station 09 shows a geometric mean of 2 from 4 samples collected in 2001.							
18	**9942**	**2**	**N**	**DUNGENESS BAY**	**390KRD**	**48123B1G6**	**48.165**	**123.165**		**Fecal Coliform**	**Water**
				Sargeant (2002) station DUN7 (DUNGENESS BAY STATION 7) shows the geometric mean of 2 does not exceed the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 2000.; ;							
18	**15580**	**2**	**N**	**DUNGENESS BAY**	**390KRD**	**48123B1H4**	**48.175**	**123.145**		**Fecal Coliform**	**Water**
				Jamestown S'Klallam Tribe unpublished data from station 07 shows a geometric mean of 3 from 4 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station 07 shows a geometric mean of 43 from 2 samples collected in 2000.							
18	**15581**	**2**	**N**	**DUNGENESS BAY**	**390KRD**	**48123B1F6**	**48.155**	**123.165**		**Fecal Coliform**	**Water**
				Jamestown S'Klallam Tribe unpublished data from station 11 shows a geometric mean of 2 from 4 samples collected in 2001. Jamestown S'Klallam Tribe unpublished data from station 11 shows a geometric mean of 53 from 3 samples collected in 2000.							
18	**22326**	**2**	**N**	**DUNGENESS RIVER**	**NJ31PC**	**16.667**	**29N**	**04W**	**12**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 13D (Dungeness R) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.82.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42778**	**2**	**N**	**DUNGENESS RIVER**	**NJ31PC**	**0.392**	**31N**	**04W**	**41**	**Mercury**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 18A050 shows 1 sample in year 2003 exceeded the chronic criterion.							
18	**8731**	**2**	**N**	**DUNGENESS RIVER**	**NJ31PC**	**18.599**	**29N**	**04W**	**13**	**Thallium**	**Water**
				One excursion beyond National Toxics Rule (40 CFR Part 131) criterion at US EPA station 11R001 (Sequim Water Intake) on 6/7/78.							
18	**15505**	**2**	**N**	**ELWHA RIVER**	**PB56KA**	**25.212**	**29N**	**07W**	**33**	**Mercury**	**Water**
				U.S.Geological Survey data from NWIS database station 12044900 (Elwha R. abv Lake Mills nr Port Angeles) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
18	**15515**	**2**	**N**	**ELWHA RIVER**	**PB56KA**	**5.071**	**30N**	**07W**	**10**	**Mercury**	**Water**
				U.S.Geological Survey data from NWIS database station 12046100 (Elwha R. Blw Elwha Dam nr Port Angeles) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.							
18	**7687**	**2**	**Y**	**ELWHA RIVER**	**PB56KA**	**3.034**	**30N**	**07W**	**03**	**Temperature**	**Water**
				Washington Dept. of Fish and Wildlife data (submitted by Hal Michael on 14 September 1995) show numerous excursions beyond the criterion at the inflow to the Elwha Hatchery.						Information submitted is insufficient to support a Category 5 listing. No raw data appear in the reference. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
18	**8732**	**2**	**Y**	**ELWHA RIVER**	**PB56KA**	**5.071**	**30N**	**07W**	**10**	**Total PCBs**	**Water**
				Two excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12045500 (at McDonald Bridge near Port Angeles) in 1980.						A verificaiton study indicates that the 1980 data on PCBs in whole water samples are highly questionable and should not be relied on to determine impairment. (Johnson, ECY/EAP, 2003) Based on quality questions, this listing will be placed in the waters of concern category.	
18	**42902**	**2**	**N**	**ENNIS CREEK**	**RG26EK**	**0**	**30N**	**06W**	**01**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2000, 2001, 2002 and 2003 at site Ennis 0.1.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42903**	**2**	**N**	**ENNIS CREEK**	**RG26EK**	**2.182**	**30N**	**06W**	**13**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2000, 2001, 2002 and 2003 at site Ennis 1.4.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42904**	**2**	**N**	**ENNIS CREEK**	**RG26EK**	**0**	**30N**	**06W**	**01**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Ennis 0.1 shows 1 sample beyond the criterion collected on the following day: 11/19/1999.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
18	**42905**	**2**	**N**	**ENNIS CREEK**	**RG26EK**	**0**	**30N**	**06W**	**01**	**Fecal Coliform**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Ennis 0.1 shows in 2002 and 2003 at least one sample exceeded the criterion.							
18	**42906**	**2**	**N**	**ENNIS CREEK**	**RG26EK**	**0.908**	**30N**	**06W**	**12**	**Fecal Coliform**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Ennis 1.0 shows in 2003 and 2004 at least one sample exceeded the criterion.							
18	**42867**	**2**	**N**	**LEES CREEK**	**IH50DB**	**0.031**	**30N**	**06W**	**12**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2000 and 2002 at site Lees 0.1.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42868**	**2**	**N**	**LEES CREEK**	**IH50DB**	**1.839**	**30N**	**05W**	**18**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999, 2000, 2001 and 2002 at site Lees 0.8.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42869**	**2**	**N**	**LEES CREEK**	**IH50DB**	**1.839**	**30N**	**05W**	**18**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Lees 0.8 shows 1 sample beyond the criterion collected on the following day: 8/29/1999.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
18	**21453**	**2**	**N**	**LEES CREEK**	**IH50DB**	**0.031**	**30N**	**06W**	**12**	**Fecal Coliform**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Lees 0.1 shows in 2002, at least one sample exceeded the criterion. Streamkeepers of Clallam County unpublished data show a geometric mean of 45 cfu/100mL from 3 samples collected in 2002 at station Lees 0.1 (Lees d/s of E. Hidden Way). Streamkeepers of Clallam County unpublished data show a geometric mean of 37 cfu/100mL from 6 samples collected in 2000 at station Lees 0.1 (Lees d/s of E. Hidden Way). Streamkeepers of Clallam County unpublished data show a geometric mean of 10 cfu/100mL from 2 samples collected in 1999 at station Lees 0.1 (Lees d/s of E. Hidden Way). Streamkeepers of Clallam County unpublished data show a geometric mean of 5 cfu/100mL from 5 samples collected in 2001 at station Lees 0.1 (Lees d/s of E. Hidden Way). Streamkeepers of Clallam County unpublished data show a geometric mean of 10 cfu/100mL from 2 samples collected in 2003 at station Lees 0.1 (Lees d/s of E. Hidden Way).					Changed from Category 1 to Category 2 based on consolidation with Listing ID 42870 on 12/16/04. -kk	
18	**22327**	**2**	**N**	**LITTLE RIVER, SOUTH BRANCH**	**GN01DL**	**0.488**	**30N**	**07W**	**36**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 155D (South Branch Little R) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.42 , but the site is a reference site with minimal human disturbance and more definitive information is needed to determine if the segment is actually impaired. Plotnikoff and Wiseman, 2002, at station 46D (South Branch Little R) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.62 , but the site is a reference site with minimal human disturbance and more definitive information is needed to determine if the segment is actually impaired. Plotnikoff and Wiseman, 2002, at station 284D (South Branch Little R) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.97.						
18	**9921**	**2**	**N**	**MEADOWBROOK CREEK**	**BX60MW**	**0**	**31N**	**04W**	**41**	**Fecal Coliform**	**Water**
				Sargeant (2002) station MC0.2 (MC0.2) shows the geometric mean of 60 does not exceed the criterion and that 33 % of the samples exceeds the percentile criterion from 3 samples collected during 1999.; Sargeant (2002) station MC0.2 (MC0.2) shows the geometric mean of 32 does not exceed the criterion and that 7 % of the samples does not exceed the percentile criterion from 15 samples collected during 2000.;						
18	**42948**	**2**	**N**	**MORSE CREEK**	**YB02MO**	**0.087**	**30N**	**05W**	**05**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999, 2000, 2001, 2002 and 2003 at site Morse 0.3.					This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
18	**42949**	**2**	**N**	**MORSE CREEK**	**YB02MO**	**0.333**	**30N**	**05W**	**08**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999 and 2002 at site Morse 1.1.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42950**	**2**	**N**	**MORSE CREEK**	**YB02MO**	**2.04**	**30N**	**05W**	**17**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999, 2000 and 2001 at site Morse 2.0.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42951**	**2**	**N**	**MORSE CREEK**	**YB02MO**	**6.527**	**30N**	**05W**	**29**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999 at site Morse 4.0.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42952**	**2**	**N**	**MORSE CREEK**	**YB02MO**	**0.333**	**30N**	**05W**	**08**	**Fecal Coliform**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Morse 1.1a shows in 2001, 2004 and 2003 at least one sample exceeded the criterion.							
18	**21459**	**2**	**N**	**MORSE CREEK**	**YB02MO**	**0.087**	**30N**	**05W**	**05**	**pH**	**Water**
				Streamkeepers of Clallam County unpublished data show 1 exucrisons beyond the criterion out of 19 measurements collected in 1997-2002 at station Morse 0.3 (Morse @ 4 Seasons Ranch). Streamkeepers of Clallam County unpublished data show 0 excursions beyond the criterion out of 4 measurements collected in 1997-2003 at station Morse 0.3 (Morse @ 4 Seasons Ranch).							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
18	**21461**	**2**	**N**	**MORSE CREEK** Streamkeepers of Clallam County unpublished data show 2 excursions beyond the criterion out of 8 measurements collected in 1997-2000 at station Morse 1.1 (Morse u/s of Discovery Trail bridge).	**YB02MO**	**0.333**	**30N**	**05W**	**08**	**pH**		**Water**
18	**21465**	**2**	**N**	**MORSE CREEK** Streamkeepers of Clallam County unpublished data show 1 excursions beyond the criterion out of 4 measurements collected in 1998-2000 at station Morse 4.0 (Morse @ power plant).	**YB02MO**	**6.527**	**30N**	**05W**	**29**	**pH**		**Water**
18	**21460**	**2**	**N**	**MORSE CREEK** Streamkeepers of Clallam County unpublished data show 1 excursion beyond the criterion in measurements collected on 27 July 1997 at station Morse 0.3 (Morse @ 4 Seasons Ranch).	**YB02MO**	**0.087**	**30N**	**05W**	**05**	**Temperature**		**Water**
18	**42973**	**2**	**N**	**PEABODY CREEK** Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999 at site Peabody 0.2. Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999 at site Peabody 0.5. Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999 at site Peabody 1.0.	**JY97IB**	**0**	**30N**	**06W**	**01**	**Bioassessment**	This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	**Other**
18	**21470**	**2**	**N**	**PEABODY CREEK** Streamkeepers of Clallam County unpublished data show 1 excursions beyond the criterion out of 4 measurements collected in 1997-1998 at station Peabody 1.3 (Peabody d/s of Park Av).	**JY97IB**	**1.507**	**30N**	**06W**	**10**	**pH**		**Water**
18	**10309**	**2**	**N**	**PORT ANGELES HARBOR** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station PAH008 (Port Angeles Harbor - Morse Creek) shows 2 excursions beyond the criterions out of 10 samples collected between 1993-2000	**390KRD**	**48123B3C4**	**48.125**	**123.345**		**Dissolved oxygen**		**Water**
18	**10313**	**2**	**N**	**PORT ANGELES HARBOR** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station PAH003 (Port Angeles Harbor - Ediz Hook Head) shows 2 excursions beyond the criterions out of 6 samples collected between 1993-2000	**390KRD**	**48123B4D6**	**48.135**	**123.465**		**pH**		**Water**
18	**40691**	**2**	**N**	**SIEBERT CREEK** Streamkeepers of Clallam County unpublished data show biological conditions are of concern based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2001-2002 at site Siebert 3.8.	**VQ61IY**	**6.713**	**30N**	**05W**	**26**	**Bioassessment**		**Other**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
18	**42931**	**2**	**N**	**SIEBERT CREEK**	**VQ61IY**	**0.834**	**30N**	**05W**	**11**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2000, 2001, 2002 and 2003 at site Siebert 0.6. Plotnikoff and Wiseman, 2002, at station 42D (Siebert Cr blw SR101) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 1.04.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42932**	**2**	**N**	**SIEBERT CREEK**	**VQ61IY**	**4.754**	**30N**	**05W**	**23**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2000, 2001, 2002 and 2003 at site Siebert 3.0.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**40695**	**2**	**N**	**VALLEY CREEK**	**QY70DM**	**2.665**	**30N**	**06W**	**16**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are of concern based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2001 at site Valley 2.2.							
18	**42895**	**2**	**N**	**VALLEY CREEK**	**QY70DM**	**0**	**30N**	**06W**	**01**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2003 at site Valley 1.0. Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2000, 2001 and 2002 at site Valley 0.4. Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999 at site Valley 0.7.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
18	**42896**	**2**	**N**	**VALLEY CREEK**	**QY70DM**	**1.857**	**30N**	**06W**	**09**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 1999 at site Valley 1.2.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
18	**42897**	**2**	**N**	**VALLEY CREEK**	**QY70DM**	**0**	**30N**	**06W**	**01**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Valley 0.4 shows 1 sample beyond the criterion collected on the following day: 10/14/2001.							
18	**21486**	**2**	**N**	**VALLEY CREEK**	**QY70DM**	**0**	**30N**	**06W**	**01**	**Fecal Coliform**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Valley 0.0 shows in 2001 and 2002 at least one sample exceeded the criterion. Streamkeepers of Clallam County unpublished data show a geometric mean of 5 cfu/100mL from 2 samples collected in 2002 at station Valley 0.0 (Valley @ mouth). Streamkeepers of Clallam County unpublished data show a geometric mean of 26 cfu/100mL from 4 samples collected in 2001 at station Valley 0.0 (Valley @ mouth). Streamkeepers of Clallam County unpublished data show a geometric mean of 24 cfu/100mL from 1 samples collected in 2000 at station Valley 0.0 (Valley @ mouth). Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Valley 0.4 shows in 1999, 2000, 2001, 2002, and 2003 at least one sample exceeded the criterion. Streamkeepers of Clallam County unpublished data show a geometric mean of 7 cfu/100mL from 2 samples collected in 2003 at station Valley 0.4 (Valley @ 6th St). Streamkeepers of Clallam County unpublished data show a geometric mean of 39 cfu/100mL from 4 samples collected in 2002 at station Valley 0.4 (Valley @ 6th St). Streamkeepers of Clallam County unpublished data show a geometric mean of 32 cfu/100mL from 5 samples collected in 2001 at station Valley 0.4 (Valley @ 6th St). Streamkeepers of Clallam County unpublished data show a geometric mean of 45 cfu/100mL from 4 samples collected in 2000 at station Valley 0.4 (Valley @ 6th St). Streamkeepers of Clallam County unpublished data show a geometric mean of 563 cfu/100mL from 2 samples collected in 1999 at station Valley 0.4 (Valley @ 6th St). Streamkeepers of Clallam County unpublished data show a geometric mean of 16 cfu/100mL from 3 samples collected in 2001 at station Valley 0.5 (Valley @8 St. bridge). Streamkeepers of Clallam County unpublished data show a geometric mean of 20 cfu/100mL from 1 samples collected in 2002 at station Valley 0.6 (Valley @904 power pole). Streamkeepers of Clallam County unpublished data show a geometric mean of 12 cfu/100mL from 3 samples collected in 2001 at station Valley 0.6 (Valley @904 power pole). Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Valley 1.0 shows in 2003, at least one sample exceeded the criterion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
18	**21494**	**2**	**N**	**WHITE CREEK**	**BR93FN**	**0**	**30N**	**06W**	**01**	**Fecal Coliform**	**Water**
				Streamkeepers of Clallam County unpublished data show a geometric mean of 37 cfu/100mL from 3 samples collected in 2002 at station White 0.0 (White (Ennis) near mouth). Streamkeepers of Clallam County unpublished data show a geometric mean of 14 cfu/100mL from 1 samples collected in 2002 at station White 0.3 (White (Ennis) u/s of 101). Streamkeepers of Clallam County unpublished data show a geometric mean of 2 cfu/100mL from 1 samples collected in 2002 at station White 0.8 (White (Ennis) @college trail). Streamkeepers of Clallam County unpublished data show a geometric mean of 8 cfu/100mL from 3 samples collected in 2001 at station White 0.3 (White (Ennis) u/s of 101). Streamkeepers of Clallam County unpublished data show a geometric mean of 2 cfu/100mL from 3 samples collected in 2001 at station White 0.8 (White (Ennis) @college trail). Streamkeepers of Clallam County unpublished data show a geometric mean of 174 cfu/100mL from 1 samples collected in 2000 at station White 0.0 (White (Ennis) near mouth).							
18	**42831**	**2**	**N**	**WHITE CREEK**	**BR93FN**	**1.202**	**30N**	**06W**	**14**	**Fecal Coliform**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station White 0.8 shows in 2003, at least one sample exceeded the criterion.							
19	**42907**	**2**	**N**	**BARNES CREEK**	**RM11JT**	**0.476**	**30N**	**09W**	**35**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2001, 2002 and 2003 at site Barnes 0.0.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
19	**6741**	**2**	**N**	**BARNES CREEK**	**RM11JT**	**1.874**	**30N**	**09W**	**36**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_RM-BAC (BARNES CREEK) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 12/97.							
19	**42944**	**2**	**N**	**BULLMAN CREEK**	**WH49KB**	**0.01**	**33N**	**14W**	**20**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Bullman 0.0 shows 1 sample beyond the criterion collected on the following day: 9/15/2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
19	**42876**	**2**	**N**	**CLALLAM RIVER** Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Clallam 0.0 shows 1 sample beyond the criterion collected on the following day: 9/15/2002.	**NY49PY**	**0.79**	**32N**	**12W**	**21**	**Dissolved oxygen**		**Water**
19	**42835**	**2**	**N**	**DEEP CREEK** Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Deep 0.0 shows 1 sample beyond the criterion collected on the following day: 9/15/2002.	**DB51HV**	**0.021**	**31N**	**10W**	**20**	**Dissolved oxygen**		**Water**
19	**42874**	**2**	**N**	**FIELD CREEK** Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Field 0.0 shows 1 sample beyond the criterion collected on the following day: 9/18/2002.	**ME20UM**	**0**	**31N**	**09W**	**27**	**Dissolved oxygen**		**Water**
19	**42834**	**2**	**N**	**GREEN CREEK** Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Green 0.45 shows 1 sample beyond the criterion collected on the following day: 9/15/2002.	**CS94VY**	**0**	**31N**	**12W**	**14**	**Dissolved oxygen**		**Water**
19	**11516**	**2**	**N**	**HERMAN CREEK, E.F.** Department of Ecology unpublished data from EMAP station WA788S (EF Herman Creek) shows excursions beyond the criterion from measurements made in 1994.	**XE93ZU**	**0.258**	**31N**	**13W**	**22**	**Dissolved oxygen**		**Water**
19	**42928**	**2**	**N**	**JOE CREEK** Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Joe 0.0 shows 1 sample beyond the criterion collected on the following day: 9/15/2002.	**UV51QW**	**0.008**	**31N**	**11W**	**13**	**Dissolved oxygen**		**Water**
19	**42833**	**2**	**N**	**LITTLE HOKO RIVER** Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Little Hoko 0.0 shows 1 sample beyond the criterion collected on the following day: 9/15/2002.	**CC22VG**	**0**	**32N**	**13W**	**22**	**Dissolved oxygen**		**Water**
19	**22329**	**2**	**N**	**LYRE RIVER** Plotnikoff and Wiseman, 2002, at station 30D (Lyre R at DNR Campground) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.77.	**RB31YR**	**0.35**	**31N**	**09W**	**28**	**Bioassessment**	This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	**Other**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter / Remarks	Medium
19	42899	2	N	**LYRE RIVER**	RB31YR	8.688	30N	09W	14	Dissolved oxygen	Water
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Lyre 5.0 shows 1 sample beyond the criterion collected on the following day: 9/18/2002.							
19	42900	2	N	**LYRE RIVER**	RB31YR	0	31N	09W	21	Temperature	Water
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Lyre 5.0 shows shows the criterion was exceeded on the following day; 9/13/2002.							
19	42901	2	N	**LYRE RIVER**	RB31YR	8.688	30N	09W	14	Temperature	Water
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Lyre 5.0 shows shows the criterion was exceeded on the following 2 days: 9/13/2002, 9/18/2002.							
19	42894	2	N	**MURDOCK CREEK**	QL65TO	0.022	31N	09W	29	Dissolved oxygen	Water
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Murdock 0.0 shows 1 sample beyond the criterion collected on the following day: 9/18/2002.							
19	42913	2	N	**OLSEN CREEK**	TP37GP	0	32N	14W	01	Dissolved oxygen	Water
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Olsen 0.0 shows 1 sample beyond the criterion collected on the following day: 9/15/2002.							
19	11510	2	N	**PYSHT RIVER**	FQ37OJ	13.494	31N	12W	23	Dissolved oxygen	Water
				Department of Ecology unpublished data from EMAP station WA861S (PYSHT RIVER (WA861S)) shows excursions beyond the criterion from measurements made in 1994.							
19	42852	2	N	**PYSHT RIVER**	FQ37OJ	0	31N	11W	04	Dissolved oxygen	Water
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Pysht 0.0 shows 1 sample beyond the criterion collected on the following day: 9/15/2002.							
19	11513	2	N	**PYSHT RIVER, S.F.**	WK70DG	1.097	31N	11W	19	Dissolved oxygen	Water
				Department of Ecology unpublished data from EMAP station WA860S (SF Pysht River) shows excursions beyond the criterion from measurements made in 1994.							
19	40698	2	N	**SALT CREEK**	WB46RK	4.196	31N	08W	34	Bioassessment	Other
				Streamkeepers of Clallam County unpublished data show biological conditions are of concern based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2002 at site Salt 4.2.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
19	**42938**	**2**	**N**	**SALT CREEK**	**WB46RK**	**1.578**	**31N**	**08W**	**27**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2002 and 2003 at site Salt 1.5.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
19	**42939**	**2**	**N**	**SALT CREEK**	**WB46RK**	**8.115**	**30N**	**08W**	**02**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2002 at site Salt 5.4.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
19	**42940**	**2**	**N**	**SALT CREEK**	**WB46RK**	**0**	**31N**	**08W**	**21**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Salt @Camp Hayden Park Rd. halfway shows 1 sample beyond the criterion collected on the following day: 9/4/2003.							
19	**42941**	**2**	**N**	**SALT CREEK**	**WB46RK**	**1.578**	**31N**	**08W**	**27**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Salt 1.5 shows 2 samples beyond the criterion collected on the following days: 8/18/2002, 10/3/2003.							
19	**42942**	**2**	**N**	**SALT CREEK**	**WB46RK**	**8.115**	**30N**	**08W**	**02**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Salt 5.4 shows 1 sample beyond the criterion collected on the following day: 10/3/2003.							
19	**42980**	**2**	**N**	**SEKIU RIVER**	**YZ08ZH**	**0**	**32N**	**13W**	**08**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Sekiu 0.0 shows 1 sample beyond the criterion collected on the following day: 9/15/2002.							
19	**42890**	**2**	**N**	**SNOW CREEK**	**PE90ZG**	**0.027**	**33N**	**14W**	**17**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Snow 0.0 shows 1 sample beyond the criterion collected on the following day: 9/15/2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
19	**42912**	**2**	**N**	**WEST TWIN RIVER** Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station W. Twin 0.4 shows 1 sample beyond the criterion collected on the following day: 9/15/2002.	**TB63ER**	**0**	**31N**	**10W**	**23**	**Dissolved oxygen**	**Water**	
20	**40702**	**2**	**N**	**BEAR CREEK** Streamkeepers of Clallam County unpublished data show biological conditions are of concern based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2000-2001 at site Bear 5.1.	**PC63WG**	**7.855**	**30N**	**11W**	**18**	**Bioassessment**	**Other**	
20	**42887**	**2**	**N**	**BEAR CREEK** Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2000 and 2001 at site Bear 2.5.	**PC63WG**	**3.953**	**30N**	**12W**	**25**	**Bioassessment**	**Other**	This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk
20	**42888**	**2**	**N**	**BEAR CREEK** Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Bear 2.5 shows 1 sample beyond the criterion collected on the following day: 8/16/2002.	**PC63WG**	**3.953**	**30N**	**12W**	**25**	**Dissolved oxygen**	**Water**	
20	**6742**	**2**	**N**	**BIG RIVER** National Park Service data from the STORET database station OLYM_NPS_BR (BIG RIVER UPSTREAM FROM LAKE OZETTE) shows 7 excursions beyond the criterion out of 17 samples collected during 1993 and 1994. Meyer and Brinkman, 2001. show 7 excursions beyond the criterion in 1993 and 1994.	**YP93MT**	**3.261**	**30N**	**15W**	**10**	**Dissolved oxygen**	**Water**	
20	**11539**	**2**	**N**	**BIG RIVER** Department of Ecology unpublished data from EMAP station WA002S (BIG RIVER (WA002S)) shows excursions beyond the criterion from measurements made in 1995.	**YP93MT**	**8.569**	**31N**	**15W**	**36**	**Dissolved oxygen**	**Water**	
20	**42960**	**2**	**N**	**BIG RIVER** Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Big 0.0 shows 2 samples beyond the criterion collected on the following days: 10/1/2002, 10/16/2002.	**YP93MT**	**2.695**	**30N**	**15W**	**10**	**Dissolved oxygen**	**Water**	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
20	**6762**	**2**	**N**	**BIG RIVER**	**YP93MT**	**3.261**	**30N**	**15W**	**10**	**Temperature**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_BR (BIG RIVER UPSTREAM FROM LAKE OZETTE) shows 1 excursions beyond the criterion out of 21 samples collected during 1993 and 1994. Meyer and Brinkman, 2001. show 1 excursions beyond the criterion in 1994.							
20	**7694**	**2**	**Y**	**BOGACHIEL RIVER**	**PP27XG**	**0**	**28N**	**14W**	**29**	**Dissolved oxygen**	**Water**
				Quileute Tribal data (submitted by Ron Figler-Barnes on 2/27/96) show 2 excursions beyond the criterion out of 6 samples at RM 0 between 1992 and 1995.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in two exceedances. This	
information										is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
20	**7695**	**2**	**Y**	**BOGACHIEL RIVER**	**PP27XG**	**29.61**	**27N**	**12W**	**06**	**Dissolved oxygen**	**Water**
				Quileute Tribal data (submitted by Ron Figler-Barnes on 2/27/96) show 2 excursions beyond the criterion out of 4 samples at RM 20 between 1992 and 1995.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in two exceedances. This	
information										is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
20	**7702**	**2**	**N**	**CALAWAH RIVER, N.F.**	**EC88TW**	**0**	**29N**	**13W**	**36**	**Temperature**	**Water**
				Quileute Tribe data (submitted by Ron Figler-Barnes on 2/27/96) show 12 excursions beyond the criterion at RM 2.0 during 1995.						Continuous temperature measurements were taken, but the information is insufficient to support a Category 5 listing.	
20	**42910**	**2**	**N**	**CAMP CREEK**	**SY26WH**	**0**	**30N**	**11W**	**25**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Camp 0.0 shows 1 sample beyond the criterion collected on the following day: 9/11/2002.							
20	**42911**	**2**	**N**	**CAMP CREEK**	**SY26WH**	**0**	**30N**	**11W**	**25**	**Temperature**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Camp 0.0 shows the criterion was exceeded on the following day; 9/11/2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
20	**6755**	**2**	**N**	**CANYON CREEK**	**PC26HJ**	**0**	**28N**	**09W**	**11**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_RM-CC (CANYON CREEK) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 12/97.							
20	**42893**	**2**	**N**	**CEDAR CREEK**	**QH80FO**	**0.044**	**29N**	**15W**	**19**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Cedar 0.0 shows 1 sample beyond the criterion collected on the following day: 10/8/2002.							
20	**6756**	**2**	**N**	**CEDAR CREEK**	**YR60OA**	**0**	**26N**	**13W**	**32**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_RM-CDC (CEDAR CREEK) shows 2 excursions beyond the criterion out of 3 samples collected between 01/93 - 12/97.							
20	**6743**	**2**	**N**	**COAL CREEK**	**ME00NJ**	**0.128**	**31N**	**15W**	**29**	**Dissolved oxygen**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_COC (COAL CREEK UPSTREAM FROM LAKE OZETTE) shows 5 excursions beyond the criterion out of 14 samples collected during 1993 and 1994. Meyer and Brinkman, 2001. show 5 excursions beyond the criterion in 1994.							
20	**42873**	**2**	**N**	**COAL CREEK**	**ME00NJ**	**0**	**31N**	**15W**	**30**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Coal (Ozette) 0.0 shows 2 samples beyond the criterion collected on the following days: 10/1/2002, 10/16/2002.							
20	**6744**	**2**	**N**	**CROOKED CREEK**	**RZ31SI**	**0.564**	**30N**	**15W**	**14**	**Dissolved oxygen**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_CRC (CROOKED CREEK UPSTREAM FROM LAKE OZETTE) shows 6 excursions beyond the criterion out of 16 samples collected during 1993 and 1994. Meyer and Brinkman, 2001. show 5 excursions beyond the criterion in 1993 and 1994.							
20	**6764**	**2**	**N**	**CROOKED CREEK**	**RZ31SI**	**0.564**	**30N**	**15W**	**14**	**Temperature**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_CRC (CROOKED CREEK UPSTREAM FROM LAKE OZETTE) shows 1 excursions beyond the criterion out of 20 samples collected during 1993 and 1994. Meyer and Brinkman, 2001. show 1 excursions beyond the criterion in 1994.							
20	**7706**	**2**	**N**	**DEVILS CREEK**	**BC88HZ**	**0**	**29N**	**12W**	**15**	**Temperature**	**Water**
				Quileute Tribe data (submitted by Ron Figler-Barnes on 2/27/96) show 5 excursions beyond the criterion near the mouth during 1995.						Continuous temperature measurements were taken, but the information is insufficient to support a Category 5 listing.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
20	**10964**	**2**	**N**	**DICKEY RIVER**	**VG74CO**	**10.186**	**29N**	**14W**	**31**	**Dissolved oxygen**		**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20D070 (Dickey R nr La Push) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 97/08/26,								
20	**10962**	**2**	**N**	**DICKEY RIVER**	**VG74CO**	**10.186**	**29N**	**14W**	**31**	**pH**		**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20D070 (Dickey R nr La Push) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001								
20	**10963**	**2**	**N**	**DICKEY RIVER**	**VG74CO**	**10.186**	**29N**	**14W**	**31**	**Temperature**		**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20D070 (Dickey R nr La Push) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 97/07/29,								
20	**42892**	**2**	**N**	**ELK CREEK**	**QG76GR**	**3.226**	**28N**	**13W**	**12**	**Dissolved oxygen**		**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Elk 1.9 shows 1 sample beyond the criterion collected on the following day: 10/5/2003.								
20	**5816**	**2**	**N**	**ELLEN CREEK**	**SG28CN**	**0.002**	**28N**	**15W**	**16**	**pH**		**Water**
				National Park Service data from the STORET database station OLYM_NPS_RM-EC (ELLEN CREEK) shows 1 excursions beyond the criterion out of 2 samples collected between 01/93 - 12/97.								

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
20	**16744**	**2**	**N**	**HOH RIVER**	**MY63XS 22.671 27N 12W 33**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 20B070 shows 1 of 7 samples (14.3%) exceeded the percentile criterion during 2003. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20B070 (Hoh R. at DNR Campground) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 7 samples collected during 2001. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20B070 (Hoh R. at DNR Campground) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 8 samples collected during 2000. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20B070 (Hoh R. at DNR Campground) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected during 1999. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20B070 (Hoh R. at DNR Campground) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 13 samples collected during 1998. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20B070 (Hoh R. at DNR Campground) shows a geometric mean of 10 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected during 1997. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20B070 (Hoh R. at DNR Campground) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1996. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20B070 (Hoh R. at DNR Campground) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1995. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20B070 (Hoh R. at DNR Campground) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected during 1994. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20B070 (Hoh R. at DNR Campground) shows a geometric mean of 12 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1993.		Changed from Category 1 to Category 2 due to the consolidation with Listing ID 42680. 10/05/04 -kk	
20	**6580**	**2**	**N**	**HOH RIVER**	**MY63XS 22.671 27N 12W 33**	**Temperature**	**Water**
				Dept. of Ecology unpublished data from core ambient monitoring station 20B070 (Hoh R. at DNR Campground) shows a 7-day mean of daily maximum values of 16 for mid-week 11 August 2001.; Department of Ecology unpublished data from core ambient monitoring station 20B070 shows 9 excursions beyond the criterion out of 98 days in 2001.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20B070 (HOH RIVER AT DNR CAMPGROUND) shows 0 excursions beyond the criterion out of 51 samples collected between 1993 - 2001			
20	**6901**	**2**	**N**	**KAHKWA CREEK**	**QQ72JD 0.176 28N 12W 33**	**Temperature**	**Water**
				Hoh Tribal data (submitted by Jim Hatten on 9/16/93) show 13 excursions beyond the criterion between 7/1/92 and 8/31/92.		Continuous temperature measurements were taken, but data were previously submitted only in hardcopy form. The water segment is listed as Category 2 based on the 1998 assessment.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
20	**42843**	**2**	**N**	**LAKE CREEK**	**EL07WK**	**0.696**	**29N**	**13W**	**04**	**Bioassessment**	**Other**
				Streamkeepers of Clallam County unpublished data show biological conditions are degraded based on the Benthic Index of Biological Integrity (BIBI) scores from macroinvertebrate samples collected in 2000 and 2001 at site Lake 0.7.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
20	**42846**	**2**	**N**	**LAKE CREEK**	**EL07WK**	**7.716**	**30N**	**13W**	**24**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Lake 4.5 shows 1 sample beyond the criterion collected on the following day: 10/15/2002.							
20	**42847**	**2**	**N**	**LAKE CREEK**	**EL07WK**	**0**	**29N**	**13W**	**09**	**Fecal Coliform**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Lake 0.0 shows in 2000 and 2001 at least one sample exceeded the criterion.							
20	**21512**	**2**	**N**	**LAKE CREEK**	**EL07WK**	**0.696**	**29N**	**13W**	**04**	**Temperature**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Lake 0.7 shows shows the criterion was exceeded on the following 3 days: 8/3/2000, 9/18/2000, 9/19/2001.							
20	**6899**	**2**	**N**	**MOSQUITO CREEK**	**CU57HI**	**0**	**28N**	**12W**	**35**	**Temperature**	**Water**
				Hoh Tribal data (submitted by Jim Hatten on 9/16/93) show 2 excursions beyond the criterion between 7/1/92 and 8/31/92.						Continuous temperature measurements were taken, but data were previously submitted only in hardcopy form. The water segment is listed as Category 2 based on the 1998 assessment.	
20	**6745**	**2**	**N**	**OZETTE RIVER**	**WU75SO**	**4.111**	**31N**	**15W**	**30**	**Dissolved oxygen**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_OR (OZETTE RIVER DOWNSTREAM FROM LAKE OZETTE) shows 5 excursions beyond the criterion out of 17 samples collected during 1993 and 1994. Meyer and Brinkman, 2001. show excursions beyond the criterion in 1993 and 1994.							
20	**42945**	**2**	**N**	**OZETTE RIVER**	**WU75SO**	**0**	**31N**	**16W**	**24**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Ozette 0.0 shows 2 samples beyond the criterion collected on the following days: 10/1/2002, 10/16/2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
20	**5818**	**2**	**N**	**OZETTE RIVER**	**WU75SO**	**4.111**	**31N**	**15W**	**30**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_OR (OZETTE RIVER DOWNSTREAM FROM LAKE OZETTE) shows 1 excursions beyond the criterion out of 15 samples collected between 01/93 - 12/97. Meyer and Brinkman, 2001. show no excursions beyond the criterion out of 15 measurements collected in 1993 and 1994.							
20	**6765**	**2**	**N**	**OZETTE RIVER**	**WU75SO**	**4.111**	**31N**	**15W**	**30**	**Temperature**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_OR (OZETTE RIVER DOWNSTREAM FROM LAKE OZETTE) shows 6 excursions beyond the criterion out of 20 samples collected during 1993 and 1994. Meyer and Brinkman, 2001. show excursions beyond the criterion in 1993 and 1994.							
20	**5819**	**2**	**N**	**PETROLEUM CREEK**	**EL64OX**	**0**	**32N**	**15W**	**19**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_RM-PC (PETROLEUM CREEK) shows 2 excursions beyond the criterion out of 3 samples collected between 01/93 - 12/97.							
20	**11532**	**2**	**N**	**QUINN CREEK**	**JZ33XP**	**2.511**	**30N**	**15W**	**23**	**Temperature**	**Water**
				Department of Ecology unpublished data from EMAP station WWAP99-0517 (Quinn Creek) shows excursions beyond the criterion from measurements made in 2000.							
20	**22754**	**2**	**N**	**SEAFIELD LAKE**	**467DCH**	**31N**	**15W**	**18**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 21 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Coast Range Ecoregion.							
20	**35027**	**2**	**N**	**SITKUM RIVER**	**PY49WZ**	**0**	**28N**	**12W**	**10**	**Dissolved oxygen**	**Water**
				Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show 2 excursions beyond the criterion from measurements collected at RM 0.2 in 1998.							
20	**6746**	**2**	**N**	**SIWASH CREEK**	**NT44LS**	**2.303**	**30N**	**15W**	**35**	**Dissolved oxygen**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_SWC (SIWASH CREEK UPSTREAM FROM LAKE OZETTE) shows 2 excursions beyond the criterion out of 14 samples collected during 1993 and 1994.							
20	**5821**	**2**	**N**	**SIWASH CREEK**	**NT44LS**	**2.303**	**30N**	**15W**	**35**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_SWC (SIWASH CREEK UPSTREAM FROM LAKE OZETTE) shows 1 excursions beyond the criterion out of 13 samples collected between 01/93 - 12/97.							
20	**14130**	**2**	**N**	**SIWASH CREEK**	**NT44LS**	**0.313**	**30N**	**15W**	**34**	**pH**	**Water**
				Meyer and Brinkman, 2001. show 1 excursions beyond the criterion out of 13 measurements collected in 1993 and 1994.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
20	**6748**	**2**	**N**	**SOLEDUCK RIVER**	**EC91QM 93.129 29N 09W 32**	**Dissolved oxygen**	**Water**

National Park Service data from the STORET database station OLYM_NPS_SD2 (SOL DUC RIVER AT THE RESORT TRAILER PARK) shows 2 excursions beyond the criterion out of 3 samples collected during 1993 and 1994.

National Park Service data from the STORET database station OLYM_NPS_SD1 (SOL DUC RIVER UPSTREAM FROM RESORT) shows 0 excursions beyond the criterion out of 3 samples collected during 1993 and 1994.

National Park Service data from the STORET database station OLYM_NPS_SD3 (SOL DUC RIVER AT HOT SPRINGS RESORT POOL OUTLET) shows 3 excursions beyond the criterion out of 3 samples collected during 1993 and 1994.

National Park Service data from the STORET database station OLYM_NPS_SD4 (SOL DUC RIVER AT THE RESORT CONCRETE BRIDGE) shows 1 excursions beyond the criterion out of 3 samples collected during 1993 and 1994..

National Park Service data from the STORET database station OLYM_NPS_SD5 (SOL DUC RIVER 800M DOWNSTREAM FROM RESORT BRIDGE) shows 0 excursions beyond the criterion out of 3 samples collected during 1993 and 1994.
National Park Service data from the STORET database station OLYM_NPS_SD1 (SOL DUC RIVER UPSTREAM FROM RESORT) shows 0 excursions beyond the criterion out of 3 samples collected during 1993 and 1994.

National Park Service data from the STORET database station OLYM_NPS_SD2 (SOL DUC RIVER AT THE RESORT TRAILER PARK) shows 2 excursions beyond the criterion out of 3 samples collected during 1993 and 1994.

National Park Service data from the STORET database station OLYM_NPS_SD3 (SOL DUC RIVER AT HOT SPRINGS RESORT POOL OUTLET) shows 3 excursions beyond the criterion out of 3 samples collected during 1993 and 1994.

National Park Service data from the STORET database station OLYM_NPS_SD4 (SOL DUC RIVER AT THE RESORT CONCRETE BRIDGE) shows 1 excursions beyond the criterion out of 3 samples collected during 1993 and 1994..

National Park Service data from the STORET database station OLYM_NPS_SD5 (SOL DUC RIVER 800M DOWNSTREAM FROM RESORT BRIDGE) shows 0 excursions beyond the criterion out of 3 samples collected during 1993 and 1994.

20	**7720**	**2**	**Y**	**SOLEDUCK RIVER**	**EC91QM 21.809 29N 13W 28**	**Dissolved oxygen**	**Water**

Quileute Tribal data (submitted by Ron Figler-Barnes on 2/27/96) show 2 excursions beyond the criterion out of 3 samples at RM 19 between 1992 and 1995.

This waterbody segment was listed on the 1998 303(d) list based on exceedances in two exceedances. This

information

is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
20	**7721**	**2**	**Y**	**SOLEDUCK RIVER**	**EC91QM 27.025 29N 13W 16**	**Dissolved oxygen**	**Water**
				Quileute Tribal data (submitted by Ron Figler-Barnes on 2/27/96) show 2 excursions beyond the criterion out of 3 samples at RM 22.1 between 1992 and 1995. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 20A090 (Soleduck R nr Forks) shows 0 excursions beyond the criterion out of 12 samples collected between 1993 - 2001		Recent data from Ecology monitoring shows that dissolved oxygen standards are being met. This waterbody segment was listed on the 1998 303(d) list based on exceedances in two exceedances, which is insufficient to determine impairment for purposes of the 303(d) list.	
20	**7722**	**2**	**Y**	**SOLEDUCK RIVER**	**EC91QM 63.848 30N 11W 27**	**Dissolved oxygen**	**Water**
				Quileute Tribal data (submitted by Ron Figler-Barnes on 2/27/96) show 2 excursions beyond the criterion out of 3 samples at RM 44.9 between 1992 and 1995.		This waterbody segment was listed on the 1998 303(d) list based on exceedances in two exceedances. This is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	

information

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
20	**6768**	**2**	**N**	**SOLEDUCK RIVER**	**EC91QM 93.129 29N 09W 32**	**Temperature**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_SD2 (SOL DUC RIVER AT THE RESORT TRAILER PARK) shows 2 excursions beyond the criterion out of 3 samples collected during 1993 and 1994. National Park Service data from the STORET database station OLYM_NPS_SD1 (SOL DUC RIVER UPSTREAM FROM RESORT) shows 0 excursions beyond the criterion out of 3 samples collected during 1993 and 1994. National Park Service data from the STORET database station OLYM_NPS_SD3 (SOL DUC RIVER AT HOT SPRINGS RESORT POOL OUTLET) shows 3 excursions beyond the criterion out of 3 samples collected during 1993 and 1994. National Park Service data from the STORET database station OLYM_NPS_SD4 (SOL DUC RIVER AT THE RESORT CONCRETE BRIDGE) shows 0 excursions beyond the criterion out of 3 samples collected during 1993 and 1994. National Park Service data from the STORET database station OLYM_NPS_SD5 (SOL DUC RIVER 800M DOWNSTREAM FROM RESORT BRIDGE) shows 0 excursions beyond the criterion out of 3 samples collected during 1993 and 1994. National Park Service data from the STORET database station OLYM_NPS_SD1 (SOL DUC RIVER UPSTREAM FROM RESORT) shows 0 excursions beyond the criterion out of 3 samples collected during 1993 and 1994. National Park Service data from the STORET database station OLYM_NPS_SD2 (SOL DUC RIVER AT THE RESORT TRAILER PARK) shows 2 excursions beyond the criterion out of 3 samples collected during 1993 and 1994. National Park Service data from the STORET database station OLYM_NPS_SD3 (SOL DUC RIVER AT HOT SPRINGS RESORT POOL OUTLET) shows 3 excursions beyond the criterion out of 3 samples collected during 1993 and 1994. National Park Service data from the STORET database station OLYM_NPS_SD4 (SOL DUC RIVER AT THE RESORT CONCRETE BRIDGE) shows 0 excursions beyond the criterion out of 3 samples collected during 1993 and 1994. National Park Service data from the STORET database station OLYM_NPS_SD5 (SOL DUC RIVER 800M DOWNSTREAM FROM RESORT BRIDGE) shows 0 excursions beyond the criterion out of 3 samples collected during 1993 and 1994.			
20	**7719**	**2**	**Y**	**SOLEDUCK RIVER**	**EC91QM 39.898 30N 13W 36**	**Temperature**	**Water**
				Washington Dept. of Fish and Wildlife data (submitted by Hal Michael on 14 September 1995) show numerous excursions beyond the criterion at the inflow to the Solduc Salmon Hatchery.		Information submitted is insufficient to support a Category 5 listing. No raw data appear in the reference. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
20	**35031**	**2**	**N**	**SOLEDUCK RIVER, S.F.**	**EC92WF 2.238 29N 10W 12**	**Temperature**	**Water**
				Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show a 7-day mean of maximum daily temperature of 15.8 degrees C on the week ending 8-5-2000, with a maximum daily temperature of 17.1 degrees C from continuous measurements collected in 2000 at RM 1 (station ID RM 1.0).			

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
20	**5827**	**2**	**N**	**SOUTH BRANCH ELLEN CREEK**	**DH05QJ**	**0**	**28N**	**15W**	**16**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_RM-SEC (SOUTH BRANCH ELLEN CREEK) shows 1 excursions beyond the criterion out of 2 samples collected between 01/93 - 12/97.							
20	**5828**	**2**	**N**	**SOUTH CREEK**	**VD52HL**	**0**	**29N**	**15W**	**10**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_SOC (SOUTH CREEK UPSTREAM FROM LAKE OZETTE) shows 2 excursions beyond the criterion out of 13 samples collected between 01/93 - 12/97. Meyer and Brinkman, 2001. show 2 excursions beyond the criterion out of 13 measurements collected in 1993 and 1994.							
20	**6753**	**2**	**N**	**UMBRELLA CREEK**	**OK38BN**	**0.707**	**30N**	**15W**	**03**	**Dissolved oxygen**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_UC (UMBRELLA CREEK UPSTREAM FROM LAKE OZETTE) shows 5 excursions beyond the criterion out of 17 samples collected during 1993 and 1994. Meyer and Brinkman, 2001. show 5 excursions beyond the criterion in 1993 and 1994.							
20	**42877**	**2**	**N**	**UMBRELLA CREEK**	**OK38BN**	**0**	**30N**	**15W**	**04**	**Dissolved oxygen**	**Water**
				Streamkeepers of Clallam County data (submitted by Ed Chadd on 03/15/04), station Umbrella 0.0 shows 2 samples beyond the criterion collected on the following days: 10/1/2002, 10/16/2002.							
20	**6757**	**2**	**N**	**UMBRELLA CREEK**	**OK38BN**	**0.707**	**30N**	**15W**	**03**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_UC (UMBRELLA CREEK UPSTREAM FROM LAKE OZETTE) shows 2 excursions beyond the criterion out of 16 samples collected between 01/93 - 12/97. Meyer and Brinkman, 2001. show 2 excursions beyond the criterion out of 16 measurements collected in 1993 and 1994.							
20	**11536**	**2**	**N**	**UNNAMED CREEK**	**XU26GZ**	**0**	**29N**	**14W**	**08**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station WA004S (TRIB TO W. FORK DICKEY (WA004S)) shows excursions beyond the criterion from measurements made in 1995.							
20	**6758**	**2**	**N**	**UNNAMED CREEK**	**SC75HG**	**1.522**	**28N**	**09W**	**09**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_RM-MLC (MINK LAKE CREEK) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 12/97.							
20	**11537**	**2**	**N**	**UNNAMED CREEK**	**XU26GZ**	**0**	**29N**	**14W**	**08**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station WA004S (TRIB TO W. FORK DICKEY (WA004S)) shows excursions beyond the criterion from measurements made in 1995.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
20	**6900**	**2**	**N**	**UNNAMED CREEK**	**YU75QK**	**2.132**	**27N**	**10W**	**14**	**Temperature**	**Water**
				Hoh Tribal data (submitted by Jim Hatten on 9/16/93) show 6 excursions beyond the criterion between 7/1/92 and 8/31/92.						Continuous temperature measurements were taken, but data were previously submitted only in hardcopy form. The water segment is listed as Category 2 based on the 1998 assessment.	
20	**7729**	**2**	**N**	**UPPER COOL CREEK**	**SB91HX**	**0**	**29N**	**12W**	**29**	**Temperature**	**Water**
				Quileute Tribe data (submitted by Ron Figler-Barnes on 2/27/96) show 2 excursions beyond the criterion near the mouth during 1995.						Continuous temperature measurements were taken, but the information is insufficient to support a Category 5 listing.	
20	**6759**	**2**	**N**	**WEST TWIN CREEK**	**FG38CY**	**0**	**27N**	**10W**	**21**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_UW_WTGR (WEIR ON W. TWIN CR. NEAR CONFLUENCE W/TWIN CR.) shows 13 excursions beyond the criterion out of 64 samples collected between 01/93 - 12/97. National Park Service data from the STORET database station OLYM_UW_WTQP (WEIR ON W. TWIN CR. NEAR CONFLUENCE W/TWIN CR.) shows 2 excursions beyond the criterion out of 37 samples collected between 01/93 - 12/97.						Low pH. Rationale provided by Steven Fradkin of Olympic National Park suggests pH is a natural condition. This watershed is currently being used as a reference site for small pristine watersheds. It is wholly within the wilderness area of Olympic National Park. pH levels are natural levels influenced by natural geology, soils, and vegetation characteristics of the watershed	
20	**6761**	**2**	**N**	**WILLOUGHBY CREEK**	**KQ83HJ**	**0**	**31N**	**16W**	**12**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_RM-SC (SEAFIELD CREEK) shows 2 excursions beyond the criterion out of 2 samples collected between 01/93 - 12/97.							
21	**6774**	**2**	**N**	**BOB CREEK**	**EY36QS**	**0.498**	**25N**	**09W**	**03**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_RM-BC (BOB CREEK) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 12/97.							
21	**7730**	**2**	**N**	**COAL CREEK**	**PY64TN**	**0.335**	**25N**	**10W**	**27**	**Temperature**	**Water**
				Hoh Tribe data (submitted by Jim Hatten on 9/16/93) show 3 excursions beyond the criterion between 7/1/92 and 8/31/92.;							
21	**6776**	**2**	**N**	**HIBBARD CREEK**	**EC29HF**	**0**	**24N**	**12W**	**26**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_RM-HC (HIBBARD CREEK) shows 2 excursions beyond the criterion out of 2 samples collected between 01/93 - 12/97.							
21	**35038**	**2**	**N**	**HOOK BRANCH**	**EL00QR**	**0**	**24N**	**10W**	**17**	**Dissolved oxygen**	**Water**
				Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show 1 excursions beyond the criterion from measurements collected at RM 0.2 in 1999.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
21	**7731**	**2**	**Y**	**JOE CREEK**	**HO29SJ**	**1.03**	**20N**	**12W**	**21**	**Dissolved oxygen**	**Water**
				Seiders, 1995. 2 excursions of the daily minimum beyond the criterion on 8/31/94 and 9/27/94 at Stations 2G and E.						The study by Seiders, 1995, "Joe Creek Receiving Water Study," Pub #ECY-95-330 indicates that the low DO are a natural condition caused by unique hydrologic conditions. Lower Joe Creek is a strongly stratified lagoon-like estuarine system with a freshwater lens overlying a saline water mass whose circulation is restricted by a shallow sill at the mout the the esturary. However, some influnce may be attributed to anthropogenic sources. This listing is assessed as Category 2 because the basis does not cite 3 different years with excursions.	
21	**7732**	**2**	**Y**	**JOE CREEK**	**HO29SJ**	**0**	**20N**	**12W**	**20**	**Dissolved oxygen**	**Water**
				Seiders, 1995. 2 excursions of the daily minimum beyond the criterion on 8/31/94 and 9/27/94 at Station 1C.						The study by Seiders, 1995, "Joe Creek Receiving Water Study," Pub #ECY-95-330 indicates that the low DO are a natural condition caused by unique hydrologic conditions. Lower Joe Creek is a strongly stratified lagoon-like estuarine system with a freshwater lens overlying a saline water mass whose circulation is restricted by a shallow sill at the mout the the esturary. However, some influnce may be attributed to anthropogenic sources. This listing is assessed as Category 2 because the basis does not cite 3 different years with excursions.	
21	**35042**	**2**	**N**	**MATHENY CREEK**	**PL99HP**	**8.508**	**24N**	**105W**	**14**	**Temperature**	**Water**
				Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show a 7-day mean of maximum daily temperature of 16 degrees C on the week ending 8-10-1999, with a maximum daily temperature of 16.9 degrees C from continuous measurements collected in 1999 at RM 5.6 (station ID RM 5.6).							
21	**35043**	**2**	**N**	**MATHENY CREEK, M.F.**	**SC86QP**	**0**	**24N**	**10W**	**23**	**Dissolved oxygen**	**Water**
				Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show 2 excursions beyond the criterion from measurements collected at RM 0.2 in 1999.							
21	**35045**	**2**	**N**	**MATHENY CREEK, N.F.**	**EY45HB**	**0**	**24N**	**10W**	**24**	**Dissolved oxygen**	**Water**
				Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show 1 excursions beyond the criterion from measurements collected at RM 0.1 in 1999.							
21	**6779**	**2**	**N**	**MUD CREEK**	**EB00HW**	**0**	**24N**	**11W**	**19**	**pH**	**Water**
				National Park Service data from the STORET database station OLYM_NPS_RM-MC (MUD CREEK) shows 2 excursions beyond the criterion out of 3 samples collected between 01/93 - 12/97.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
21	**7734**	**2**	**N**	**QUEETS RIVER** One excursion beyond the criterion at USGS station 12040500 (near Clearwater) on 8/18/92.	**EC50WS**	**3.181**	**24N**	**13W**	**36**	**Dissolved oxygen**		**Water**
21	**6407**	**2**	**N**	**QUEETS RIVER** U.S.Geological Survey data from NWIS database station 12040500 (Queets R. near Clearwater) shows a geometric mean of 49 does not exceed the criterion and that 33% of the samples exceeds the percentile criterion from 3 samples collected during 1993.	**EC50WS**	**6.622**	**24N**	**13W**	**36**	**Fecal Coliform**		**Water**
21	**7733**	**2**	**N**	**QUEETS RIVER** One excursion beyond the criterion at USGS station 12040500 (near Clearwater) on 8/18/92.	**EC50WS**	**3.181**	**24N**	**13W**	**36**	**Temperature**		**Water**
21	**8030**	**2**	**N**	**QUEETS RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 21A070 (Queets R @ Queets) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 94/07/26,	**EC50WS**	**1.114**	**24N**	**13W**	**35**	**Temperature**		**Water**
21	**8026**	**2**	**N**	**QUINAULT RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 21B090 (Quinault R @ Lake Quinault) shows 3 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 94/07/26, 94/08/23, 94/09/27,	**EY39TM**	**52.8**	**23N**	**10W**	**25**	**Temperature**		**Water**
21	**11557**	**2**	**N**	**SALMON RIVER** Department of Ecology unpublished data from EMAP station WA837S (Salmon River) shows excursions beyond the criterion from measurements made in 1994.	**EY20WV**	**7.127**	**23N**	**12W**	**02**	**Dissolved oxygen**		**Water**
21	**11558**	**2**	**N**	**SALMON RIVER** Department of Ecology unpublished data from EMAP station WA837S (Salmon River) shows excursions beyond the criterion from measurements made in 1994.	**EY20WV**	**7.127**	**23N**	**12W**	**02**	**pH**		**Water**
21	**35048**	**2**	**N**	**SALMON RIVER** Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show a 7-day mean of maximum daily temperature of 15.86 degrees C on the week ending 8-16-2002, with a maximum daily temperature of 16.47 degrees C from continuous measurements collected in 2002 at RM 12.402 (station ID Salmon River).	**QP44LH**	**0**	**24N**	**105W**	**35**	**Temperature**	Note: Unable to definitively locate this segment due to mapping constraints of the stream GIS layer. This should plot out to Salmon River, but the segment includes both Salmon River and Salmon River, Middle Fork. 03/11/05. -kk	**Water**
21	**35051**	**2**	**N**	**SALMON RIVER, M.F.** Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show 1 excursions beyond the criterion from measurements collected at RM 12.2 in 1999.	**QP44LH**	**0**	**24N**	**105W**	**35**	**Dissolved oxygen**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
21	**35050**	**2**	**N**	**SALMON RIVER, M.F.**	**QP44LH**	**0**	**24N**	**105W**	**35**	**Temperature**	**Water**
				Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show a 7-day mean of maximum daily temperature of 16 degrees C on the week ending 8-5-2000, with a maximum daily temperature of 16.4 degrees C from continuous measurements collected in 2000 at RM 12.1 (station ID RM 12.2). Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show a 7-day mean of maximum daily temperature of 14.9 degrees C on the week ending 8-28-1999, with a maximum daily temperature of 15.9 degrees C from continuous measurements collected in 1999 at RM 12.2 (station ID RM 12.2).							
21	**35052**	**2**	**N**	**SALMON RIVER, N.F.**	**SL18HG**	**0**	**23N**	**11W**	**01**	**Dissolved oxygen**	**Water**
				Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show 2 excursions beyond the criterion from measurements collected at RM 0.1 in 1999.							
				Department of Ecology unpublished data from EMAP station WA089S (NF Salmon River) shows no excursions beyond the criterion from measurements made in 1995.							
				Department of Ecology unpublished data from EMAP station WA089S (NF Salmon River) shows no excursions beyond the criterion from measurements made in 1995.							
				Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show 2 excursions beyond the criterion from measurements collected at RM 0.1 in 1999.							
21	**35054**	**2**	**N**	**SALMON RIVER, S.F.**	**PY21HP**	**0**	**24N**	**105W**	**35**	**Dissolved oxygen**	**Water**
				Olympic National Forest unpublished data (submitted by Dale Hom on 15 January 2003) show 1 excursions beyond the criterion from measurements collected at RM 0.1 in 1999.							
21	**11548**	**2**	**N**	**UNNAMED CREEK**	**DT79MC**	**0.528**	**22N**	**12W**	**31**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station WA840S (TRIB TO QUINALT RIVER (WA840S)) shows excursions beyond the criterion from measurements made in 1994 & 1995.							
21	**11542**	**2**	**N**	**ZIEGLER CREEK**	**PB76TM**	**2.646**	**23N**	**09W**	**15**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station WA838S (Zeigler Creek) shows excursions beyond the criterion from measurements made in 1994.							
21	**11544**	**2**	**N**	**ZIEGLER CREEK**	**PB76TM**	**2.646**	**23N**	**09W**	**15**	**Temperature**	**Water**
				Department of Ecology unpublished data from EMAP station WA838S (Zeigler Creek) shows excursions beyond the criterion from measurements made in 1994.							
22	**9466**	**2**	**N**	**BINGHAM CREEK**	**SX93NN**	**0**	**19N**	**06W**	**11**	**pH**	**Water**
				Summers (2001) station SRIW2203 (WATER QUALITY AT HATCHERY) shows 1 excursions beyond the criterion out of 9 samples collected between 10/00 - 09/01.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
22	**11579**	**2**	**N**	**CAMP CREEK**	**IM35PY**	**3.622**	**18N**	**07W**	**27**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station WA848S (Camp Creek) shows excursions beyond the criterion from measurements made in 1994.							
22	**9472**	**2**	**N**	**CHARLEY CREEK**	**WS18ND**	**0.215**	**17N**	**09W**	**20**	**Temperature**	**Water**
				Pelletier and Seiders (2000) station 15-CHAR (Charlie Cr) shows 1 excursions beyond the criterion measured on these dates: 97/08/12,							
22	**10319**	**2**	**N**	**CHEHALIS RIVER**	**DS29ZH**	**2.451**	**17N**	**09W**	**10**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GYS004 (Grays Harbor - Chehalis R.) shows 34 excursions beyond the criterions out of 74 samples collected between 1993-2000						These excursions beyond the criterion are a natural condition with no direct human caused influence likely due to runoff from adjacent wetlands based on the 4/2005 judgement of Brian Grantham(Dept. of Ecology). All of the excursions occurred during the winter, accompanied by very low salinity values, and were below the lower pH criterion. Inner Grays Harbor is surrounded by wetlands. Runoff containing organic acids created by decomposition in these wetlands may decrease the pH in the adjacent marine waters. Name administratively changed to Chehalis River 0n 01/25/05. This location is upstream of the demarcation between Grays Harbor and Chehalis River. -kk Low pH	
22	**9473**	**2**	**Y**	**CHEHALIS RIVER**	**DS29ZH**	**22.031**	**17N**	**07W**	**18**	**Temperature**	**Water**
				Pelletier and Seiders (2000) station 14-CHEH (Chehalis R at Montesano) shows 2 excursions beyond the criterion measured on these dates: 97/08/13, 97/08/18,						Assessment of last 10 years of data indicate two daily maximum excursions in one year only which is insufficient information for showing persistent temperature impairment and does not meet the WQ Program Policy 1-11 (updated 9/02). Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
22	**9474**	**2**	**N**	**CHEHALIS RIVER**	**DS29ZH**	**41.228**	**17N**	**06W**	**03**	**Temperature**	**Water**
				Pelletier and Seiders (2000) station 39-ELMA (Chehalis R at Elma) shows 2 excursions beyond the criterion measured on these dates: 97/08/13, 97/08/18,							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
22	**10320**	**2**	**N**	**CHEHALIS RIVER**	**DS29ZH**	**2.451**	**17N**	**09W** **10**	**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GYS004 (Grays Harbor - Chehalis R.) shows 11 excursions beyond the criterions out of 120 samples collected between 1993-2000					Name administratively changed to Chehalis River 0n 01/25/05. This location is upstream of the demarcation between Grays Harbor and Chehalis River. -kk	
22	**9475**	**2**	**N**	**CHENOIS CREEK**	**ZX68LO**	**0.129**	**18N**	**11W** **23**	**Temperature**	**Water**
				Pelletier and Seiders (2000) station 03-CHEN (Chenois Cr) shows 2 excursions beyond the criterion measured on these dates: 97/07/02, 97/08/12,						
22	**11581**	**2**	**N**	**DELEZENE CREEK**	**ME01RI**	**0**	**17N**	**06W** **32**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station WA780S (DELEZENE CREEK (WA780S)) shows excursions beyond the criterion from measurements made in 1995.						
22	**11582**	**2**	**N**	**DELEZENE CREEK**	**ME01RI**	**0**	**17N**	**06W** **32**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station WA780S (DELEZENE CREEK (WA780S)) shows excursions beyond the criterion from measurements made in 1994 & 1995.						
22	**9476**	**2**	**N**	**DEMPSEY CREEK**	**DQ35KL**	**1.162**	**16N**	**11W** **14**	**Temperature**	**Water**
				Pelletier and Seiders (2000) station 25-DEMP (Dempsey Cr) shows 1 excursions beyond the criterion measured on these dates: 97/08/14,						
22	**6159**	**2**	**N**	**DUCK LAKE**	**777TYP**	**17N**	**12W**	**14**	**Total Phosphorus**	**Water**
				O'Neal et al. (2001) concludes that designated uses are not being supported. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 127 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Coast Range Ecoregion. Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 1.5 ug/L in 1985 which does not exceed the water quality standards nutrient criterion for the Cascades Ecoregion.						
22	**6333**	**2**	**N**	**DUCK LAKE**	**777TYP**	**18N**	**12W**	**35**	**Total Phosphorus**	**Water**
				Completed Phase I State Clean Lakes Restoration Project in 1994: KCM, 1994.					City of Ocean Shores is implementing the restoration activities recommended from the Phase I project using funds from 319 grants and the Aquatic Weed Management Grants. Watershed BMP projects underway including wetland enhancement to treat a tributary with high phosphorus loading. Septic systems responsible for high phosphorus levels in ground water are being connected to the sewage treatment plant.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
22	**9480**	**2**	**N**	**GRASS CREEK**	**ZK63YV**	**0**	**18N**	**11W**	**36**	**Temperature**	**Water**
				Pelletier and Seiders (2000) station 04-GRASS (Grass Cr) shows 3 excursions beyond the criterion measured on these dates: 97/06/04, 97/07/02, 97/08/12,							
22	**12525**	**2**	**N**	**GRAYS HARBOR**	**390KRD**	**46123J8G3**	**46.965**	**123.835**		**Copper**	**Water**
				Golding, 1997. based on samples of the Blaine Wastewater Treatment Plant effluent collected in March 1997 show a reasonable potential to exceed the chronic criteria in the receiving water.							
22	**10329**	**2**	**N**	**GRAYS HARBOR**	**390KRD**	**46124J1C1**	**46.925**	**124.115**		**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GYS016 (Grays Harbor - Damon Point) shows 5 excursions beyond the criterions out of 86 samples collected between 1993-2000							
22	**10332**	**2**	**N**	**GRAYS HARBOR**	**390KRD**	**46124J0C7**	**46.925**	**124.075**		**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GYS015 (Grays Harbor - N. Whitcomb Flats) shows 6 excursions beyond the criterions out of 75 samples collected between 1993-2000							
22	**15747**	**2**	**N**	**GRAYS HARBOR**	**390KRD**	**46124J1C1**	**46.925**	**124.115**		**Fecal Coliform**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station GYS016 (Grays Harbor - Damon Point) shows a geometric mean of 1 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 4 samples collected during 1992.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station GYS016 (Grays Harbor - Damon Point) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 4 samples collected during 1993.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station GYS016 (Grays Harbor - Damon Point) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1994.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station GYS016 (Grays Harbor - Damon Point) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 7 samples collected during 1995.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station GYS016 (Grays Harbor - Damon Point) shows a geometric mean of 20 exceeds the criterion and that 25% of the samples does not exceed the percentile criterion from 4 samples collected during 1996, with only 1 sample that exceeds the percentile criterion..Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station GYS016 (Grays Harbor - Damon Point) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 8 samples collected during 1997.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station GYS016 (Grays Harbor - Damon Point) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1998.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station GYS016 (Grays Harbor - Damon Point) shows a geometric mean of 1 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1999.Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station GYS016 (Grays Harbor - Damon Point) shows a geometric mean of 1 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 2000.							
22	**10323**	**2**	**N**	**GRAYS HARBOR**	**390KRD**	**46123J9D1**	**46.935**	**123.915**		**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GYS008 (Grays Harbor - Mid-S. Channel) shows 4 excursions beyond the criterions out of 70 samples collected between 1993-2000							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information				Parameter	Remarks	Medium
22	**10326**	**2**	**N**	**GRAYS HARBOR** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GYS009 (Grays Harbor - Moon Island Reach) shows 10 excursions beyond the criterions out of 77 samples collected between 1993-2000	**390KRD**	**46123J9G4**	**46.965**	**123.945**	**pH**		**Water**
22	**10330**	**2**	**N**	**GRAYS HARBOR** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GYS016 (Grays Harbor - Damon Point) shows 4 excursions beyond the criterions out of 71 samples collected between 1993-2000	**390KRD**	**46124J1C1**	**46.925**	**124.115**	**pH**		**Water**
22	**10333**	**2**	**N**	**GRAYS HARBOR** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GYS015 (Grays Harbor - N. Whitcomb Flats) shows 4 excursions beyond the criterions out of 64 samples collected between 1993-2000	**390KRD**	**46124J0C7**	**46.925**	**124.075**	**pH**		**Water**
22	**10324**	**2**	**N**	**GRAYS HARBOR** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GYS008 (Grays Harbor - Mid-S. Channel) shows 5 excursions beyond the criterions out of 115 samples collected between 1993-2000	**390KRD**	**46123J9D1**	**46.935**	**123.915**	**Temperature**	This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	**Water**
22	**10327**	**2**	**N**	**GRAYS HARBOR** Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GYS009 (Grays Harbor - Moon Island Reach) shows 5 excursions beyond the criterions out of 122 samples collected between 1993-2000	**390KRD**	**46123J9G4**	**46.965**	**123.945**	**Temperature**	This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
22	**10331**	**2**	**N**	**GRAYS HARBOR**	**390KRD**	**46124J1C1**	**46.925**	**124.115**		**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GYS016 (Grays Harbor - Damon Point) shows 10 excursions beyond the criterions out of 104 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
22	**10334**	**2**	**N**	**GRAYS HARBOR**	**390KRD**	**46124J0C7**	**46.925**	**124.075**		**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station GYS015 (Grays Harbor - N. Whitcomb Flats) shows 12 excursions beyond the criterions out of 83 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
22	**8734**	**2**	**N**	**GRAYS HARBOR (INNER)**	**390KRD**	**46123J8G6**	**46.965**	**123.865**		**Water Column Bioassay**	**Water**
				Johnson, et al. 1990., Receiving water dilution not adequate to reduce effluent from the ITT discharge to no effect level for Pacific oyster larvae and echinoderm sperm cell bioassays.							
22	**40569**	**2**	**N**	**GRAYS HARBOR COUNTY DRAINAGE DITCH NO. 1 (GHCDD-1)**	**AB55IV**	**1.922**	**15N**	**11W**	**07**	**4,4'-DDE**	**Water**
				Coots (2003) show 1 excursion beyond the chronic criterion collected on 2 July 2002.							
22	**12775**	**2**	**Y**	**GRAYS HARBOR COUNTY DRAINAGE DITCH NO. 1 (GHCDD-1)**	**AB55IV**	**0.017**	**15N**	**11W**	**06**	**Carbaryl**	**Water**
				Johnson, 2001. show no samples exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station 1 (Grays Harbor County Drainage Ditch #1) in July and August 2000. Davis, 1997. shows 2 samples were greater than the NAS recommended criterion from samples collected in 1994 and 1995.						EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion of 0.02 ug/L, which has not been adopted as a state water quality standard. Recent sampling shows no presence of carbaryl.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
22	40568	2	N	**GRAYS HARBOR COUNTY DRAINAGE DITCH NO. 1 (GHCDD-1)** Coots (2003) show 1 excursion beyond the chronic criterion collected on 1 Aug 2002.	AB55IV	1.922	15N	11W	07	Chlorpyrifos		Water
22	8737	2	Y	**GRAYS HARBOR COUNTY DRAINAGE DITCH NO. 1 (GHCDD-1)** Davis, 1997. shows 5 samples greater than the state standards from samples collected in 1994 and 1995. Davis et al. 1997 show 6 excursions beyond the chronic criterion at station GHCDD-1 out of 6 samples collected in 1996.	AB55IV	0.017	15N	11W	06	Parathion	Parathion is no longer available for use, and recent sampling has not found the presence of parathion. Therefore, this waterbody segment is no longer impaired for paration (Boyd, ECY/WQP, 2003). EPA listed this waterbody in 1998 based on State chronic criterion - 0.013 ug/l.	Water
22	9485	2	N	**JOHNS RIVER** Pelletier and Seiders (2000) station 22-JOHN (Johns R nr mouth) shows 1 excursions beyond the criterion measured on these dates: 97/07/02,	VR86HG	0	16N	11W	02	Temperature		Water
22	7991	2	N	**MIDDLE BRANCH ELK RIVER** Pelletier and Seiders (2000) station 29-MFELK (MF Elk R at foot path) shows the geometric mean of 55 does not exceed the criterion and that 11 % of the samples exceeds the percentile criterion from 9 samples collected during 1997, with only 1 sample that exceeds the percentile criterion..; Pelletier and Seiders (2000) station 29-MFELK (MF Elk R at foot path) shows the geometric mean of 4 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 4 samples collected during 1998.;	JA20LZ	0	16N	10W	31	Fecal Coliform	Pelletier 2003 states that high fecal coliform concentrations in the upper Elk River watershed are a natural condition due to wildlife. The upper watershed (more than a mile from the mouth, including the West, Middle and East branches) is timberland and is not inhabited by humans or domestic animals.	Water
22	22500	2	N	**NAHWATZEL LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	842ASE	20N	05W	08		Total Phosphorus		Water
22	9488	2	N	**NEWSKAH CREEK** Pelletier and Seiders (2000) station 16-NEWS (Newskah Cr) shows 1 excursions beyond the criterion measured on these dates: 97/08/12,	QT21FF	0.029	17N	09W	19	Temperature		Water
22	22760	2	N	**STUMP LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	533IRC	19N	05W	28		Total Phosphorus		Water
22	11566	2	N	**UNNAMED CREEK** Department of Ecology unpublished data from EMAP station WA018S (TRIB TO CLOQUALLUM (WA018S)) shows excursions beyond the criterion from measurements made in 1995.	EP91QM	0	19N	05W	30	Dissolved oxygen		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
22	11567	2	N	**UNNAMED CREEK**	EP91QM	0	19N	05W	30	pH		Water
				Department of Ecology unpublished data from EMAP station WA018S (TRIB TO CLOQUALLUM (WA018S)) shows excursions beyond the criterion from measurements made in 1995.								
22	33689	2	N	**UNNAMED CREEK**	FW31JG	2.273	18N	05W	04	pH		Water
				Port Blakely Tree Farms unpublished data from station WFW035 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursions beyond the criterion from measurements collected in 2002.								
22	7995	2	N	**WEST BRANCH ELK RIVER**	OS45KM	1.552	15N	10W	06	Fecal Coliform		Water
				Pelletier and Seiders (2000) station 30-WFELK (WF Elk R at foot path) shows the geometric mean of 54 does not exceed the criterion and that 12 % of the samples exceeds the percentile criterion from 8 samples collected during 1997, with only 1 sample that exceeds the percentile criterion.; Pelletier and Seiders (2000) station 30-WFELK (WF Elk R at foot path) shows the geometric mean of 4 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 2 samples collected during 1998.;							Pelletier 2003 states that high fecal coliform concentrations in the upper Elk River watershed are a natural condition due to wildlife. The upper watershed (more than a mile from the mouth, including the West, Middle and East branches) is timberland and is not inhabited by humans or domestic animals.	
22	14866	2	N	**WISHKAH RIVER**	PA95CW	12.971	18N	09W	15	Temperature		Water
				Pelletier and Seiders (2000) station 09-WISH (Aberdeen Gardens Rd brdg nr Wishkah Ecy2) shows 2 excursions beyond the criterion measured on these dates: 97/08/13, 97/08/18,								
23	9489	2	N	**ALLEN CREEK**	XO13OJ	0	16N	02W	06	pH		Water
				Sargeant et al. (2002) station BECM2.6T (ALLEN CREEK (MOUTH)) shows 1 excursions beyond the criterion out of 1 samples collected between 11/97 - 09/00.								
23	15522	2	N	**BEAVER CREEK**	HA04TR	0	16N	03W	02	Temperature		Water
				U.S.Geological Survey data from NWIS database station 12029060 (Beaver Cr. at Littlerock) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00. Department of Ecology unpublished data from EMAP station WACH97-029 (Beaver Creek) shows no excursions beyond the criterion from measurements made in 1997. Department of Ecology unpublished data from EMAP station WACH97-029 (Beaver Creek) shows no excursions beyond the criterion from measurements made in 1997. U.S.Geological Survey data from NWIS database station 12029060 (Beaver Cr. at Littlerock) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.								
23	41117	2	N	**BEAVER CREEK**	HA04TR	2.862	16N	02W	06	Temperature		Water
				Erickson, D. and Matthews, W., (2002), station BCGAGEDN shows 1 samples exceeded the criterion in year 1997.								

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
23	**41118**	**2**	**N**	**BEAVER CREEK**	**HA04TR 5.686 16N 02W 08**	**Temperature**	**Water**
				Erickson, D. and Matthews, W., (2002), station BCGAGEUP shows 2 samples exceeded the criterion in years 1995 and 1997.			
23	**8743**	**2**	**N**	**BLACK RIVER**	**GW14BM 11.602 16N 04W 25**	**Mercury**	**Water**
				One excursion beyond the chronic criterion at Ecology ambient monitoring station 23E070 (RM 7.1) on 11/27/90. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23E070 (Black River @ Moon Road Bridge) shows 0 excursions beyond the criterion out of 4 samples collected between 1993 - 2001 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23E070 (Black River @ Moon Road Bridge) shows 0 excursions beyond the criterion out of 4 samples collected between 1993 - 2001		A single excursion beyond the criterion does not violate the water quality standards.	
23	**7747**	**2**	**N**	**BUNKER CREEK**	**GG93MD 0.977 13N 04W 01**	**Dissolved oxygen**	**Water**
				Pickett, 1994a. 5 excursions beyond the criterion out of 5 samples (100%) at bridge above the mouth during 1991 and 1992.			
23	**22763**	**2**	**N**	**CARLISLE LAKE**	**BW57UE 13N 01E 30**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 168 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.			

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
23	**6409**	**2**	**N**	**CHEHALIS RIVER**	**DS29ZH 56.535 17N 05W 28**	**Fecal Coliform**	**Water**

Hallock (2004), Dept. of Ecology ambient station 23A070 shows 1 of 11 samples (9.1%) in year 2002 exceeded the percentile criterion and 1 of 12 samples (8.3%) in year 2003 exceeded the percentile criterion.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23A070 (Chehalis R. at Porter) shows a geometric mean of 22 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 2001.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23A070 (Chehalis R. at Porter) shows a geometric mean of 19 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23A070 (Chehalis R. at Porter) shows a geometric mean of 27 does not exceed the criterion and that 8% of the samples does not exceed the percentile criterion from 12 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23A070 (Chehalis R. at Porter) shows a geometric mean of 38 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23A070 (Chehalis R. at Porter) shows a geometric mean of 38 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23A070 (Chehalis R. at Porter) shows a geometric mean of 71 does not exceed the criterion and that 25% of the samples exceeds the percentile criterion from 4 samples collected during 1996.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23A070 (Chehalis R. at Porter) shows a geometric mean of 33 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected during 1995.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23A070 (Chehalis R. at Porter) shows a geometric mean of 21 does not exceed the criterion and that 8% of the samples does not exceed the percentile criterion from 12 samples collected during 1994.

U.S.Geological Survey data from NWIS database station 12031000 (Chehalis R. at Porter) shows a geometric mean of 29 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23A070 (Chehalis R. at Porter) shows a geometric mean of 19 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected during 1993.

U.S.Geological Survey data from NWIS database station 12031000 (Chehalis R. at Porter) shows a geometric mean of 45 does not exceed the criterion and that 17% of the samples exceeds the percentile criterion from 6 samples collected during 1993, with only 1 sample that exceeds the percentile criterion.

Pickett, 1994. station Cheh-1 (Chehalis River (RM 33.8)) shows 0 single samples exceed the geometric mean criterion out of 2 samples collected during 1992.

Pickett, 1994. station Cheh-1 (Chehalis River (RM 33.8)) shows a geometric mean of 7 cfu/100mL with 0% exceeding the percentile criterion out of 6 samples collected during 1991.

23	**10400**	**2**	**N**	**CHEHALIS RIVER**	**DS29ZH 105.507 15N 03W 35**	**Fecal Coliform**	**Water**

Pickett, 1994. station Cheh-22 (Chehalis River (RM 64.2)) shows 1 single samples exceed the geometric mean criterion out of 2 samples collected during 1991.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
23	**10411**	**2**	**N**	**CHEHALIS RIVER**	**DS29ZH**	**120.406**	**14N**	**02W**	**30**	**Fecal Coliform**	**Water**
				Pickett, 1994. station Cheh-54 (Chehalis River (RM 72.5)) shows 1 single samples exceed the geometric mean criterion out of 2 samples collected during 1991.							
23	**10424**	**2**	**N**	**CHEHALIS RIVER**	**DS29ZH**	**148.379**	**13N**	**04W**	**14**	**Fecal Coliform**	**Water**
				Pickett, 1994. station Cheh-79 (Chehalis River (RM 90)) shows 1 single samples exceed the geometric mean criterion out of 2 samples collected during 1991.							
23	**10981**	**2**	**N**	**CHEHALIS RIVER**	**DS29ZH**	**56.535**	**17N**	**05W**	**28**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 23A070 shows that of 31 samples none exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23A070 (CHEHALIS RIVER AT PORTER) shows 1 excursions beyond the criterion out of 58 samples collected between 1993 - 2001. U.S.Geological Survey data from NWIS database station 12031000 (Chehalis R. at Porter) shows 0 excursions beyond the criterion out of 11 samples collected between 01/93 - 10/00.							
23	**15916**	**2**	**N**	**CHEHALIS RIVER**	**DS29ZH**	**99.35**	**15N**	**03W**	**22**	**Turbidity**	**Water**
				Hallock, 2002. shows 6 excursions beyond the criterion out of 16 samples collected between 1992 and 2001 derived by the difference between the upstream station 23A160 (Chehalis R @ Dryad) and the downstream station 23A100 (Chehalis R @ Prather Rd).						Even though the data meet the policy, listing this segment under Category 5 is not recommended since there are also a number of cases where the turbidity at the upstream station is greater than the downstream station.	
23	**10408**	**2**	**N**	**COAL CREEK**	**JB32HW**	**0**	**14N**	**02W**	**29**	**Fecal Coliform**	**Water**
				Pickett, 1994. station Cheh-43 (Coal Creek (@ Chehalis RM 69.2008009)) shows 2 single samples exceed the geometric mean criterion out of 3 samples collected during 1992.							
23	**35686**	**2**	**N**	**GADDIS CREEK**	**UE35GF**	**2.807**	**17N**	**05W**	**32**	**pH**	**Water**
				Port Blakely Tree Farms unpublished data from station GD01 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursion beyond the criterion from measurements collected in 2001.							
23	**22332**	**2**	**N**	**MONROE CREEK**	**RM06MV**	**0**	**17N**	**04W**	**25**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 131D (Monroe Creek) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.69 , but more definitive information is needed to determine if the segment is actually impaired. Plotnikoff and Wiseman, 2002, at station 104D (Monroe Creek) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 1.2.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
23	22503	2	N	**PITMAN LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 90 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	247JDZ 17N 02W 35	Total Phosphorus	Water	
23	22501	2	N	**PLUMMER LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	674AAI 14N 02W 07	Total Phosphorus	Water	
23	22334	2	N	**PORTER CREEK** Plotnikoff and Wiseman, 2002, at station 134D (Porter Creek) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.77 , but more definitive information is needed to determine if the segment is actually impaired. Plotnikoff and Wiseman, 2002, at station 108D (Porter Creek) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 1.1. Plotnikoff and Wiseman, 2002, at station 282D (Porter Creek) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 1.12.	TP29FX 5.175 17N 05W 11	Bioassessment	Other	
23	7777	2	Y	**SCATTER CREEK** Pickett, 1994a. 2 excursions beyond the criterion out of 5 samples (40%) at bridge above mouth during 1991 and 1992.	AQ85FY 0.373 15N 03W 08	pH	Water	This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
23	22504	2	N	**SCOTT LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	199WVI 17N 02W 33	Total Phosphorus	Water	
23	16760	2	N	**SKOOKUMCHUCK RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23D055 (Skookumchuck R. at Centralia) shows a geometric mean of 135 exceeds the criterion and that 33% of the samples exceeds the percentile criterion from 3 samples collected during 1996.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23D055 (Skookumchuck R. at Centralia) shows a geometric mean of 39 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1997.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 23D055 (Skookumchuck R. at Centralia) shows a geometric mean of 26 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 1993, with only 1 sample that exceeds the percentile criterion.	BV55DP 2.815 14N 02W 41	Fecal Coliform	Water	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
23	**7779**	**2**	**Y**	**SKOOKUMCHUCK RIVER** Pickett, 1994a. 2 excursions beyond the criterion out of 8 samples (25%) near the mouth during 1991 and 1992.	**BV55DP**	**0**	**14N**	**02W**	**07**	**pH**	This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
23	**11630**	**2**	**N**	**STOWE CREEK** Department of Ecology unpublished data from EMAP station WACH97-014 (Stowe Creek) shows excursions beyond the criterion from measurements made in 1997.	**IJ06AE**	**0**	**13N**	**05W**	**23**	**pH**		**Water**
23	**35391**	**2**	**N**	**UNNAMED CREEK** Sargeant (2001) show 1 excursion beyond the criterion from continuous measurements collected in 1998 and 1999.	**SZ34IJ**	**0.562**	**19N**	**10W**	**02**	**Temperature**		**Water**
23	**11620**	**2**	**N**	**WILLIAMS CREEK** Department of Ecology unpublished data from EMAP station WA843S (Williams Creek) shows excursions beyond the criterion from measurements made in 1994.	**RS57VL**	**1.445**	**16N**	**05W**	**21**	**Dissolved oxygen**		**Water**
23	**11621**	**2**	**N**	**WILLIAMS CREEK** Department of Ecology unpublished data from EMAP station WA843S (Williams Creek) shows excursions beyond the criterion from measurements made in 1994.	**RS57VL**	**1.445**	**16N**	**05W**	**21**	**pH**		**Water**
24	**11689**	**2**	**N**	**BONE RIVER** Department of Ecology unpublished data from EMAP station WAR1AS (BONE RIVER (WAR1AS)) shows excursions beyond the criterion from measurements made in 1994.	**FZ06OE**	**5.339**	**14N**	**10W**	**36**	**Dissolved oxygen**		**Water**
24	**11690**	**2**	**N**	**BONE RIVER** Department of Ecology unpublished data from EMAP station WAR1AS (BONE RIVER (WAR1AS)) shows excursions beyond the criterion from measurements made in 1994.	**FZ06OE**	**5.339**	**14N**	**10W**	**36**	**pH**		**Water**
24	**22767**	**2**	**N**	**BREAKER LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 671 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Coast Range Ecoregion.	**038VUT**	**10N**	**11W**	**04**		**Total Phosphorus**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
24	**9518**	**2**	**N**	**FERN CREEK**	**CO94AN**	**0**	**12N**	**07W**	**03**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station FERN-1 (FERN CREEK AT ELK PRAIRIE RD) shows 2 excursions beyond the criterion measured on these dates: 98/08/04, 98/09/01,							
24	**9520**	**2**	**N**	**FERN CREEK**	**CO94AN**	**0**	**12N**	**07W**	**03**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station FERN-1 (FERN CREEK AT ELK PRAIRIE RD) shows 1 excursions beyond the criterion measured on these dates: 98/08/04,							
24	**9527**	**2**	**N**	**FORK CREEK**	**MO06ZS**	**0**	**12N**	**07W**	**06**	**pH**	**Water**
				Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station FORK-1 (Fork Creek) shows 1 excursions beyond the criterion out of 4 samples collected between 04/98 - 12/98. Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WFISH-1 (Willapa Fish Hatchery) shows 0 excursions beyond the criterion out of 4 samples collected between 04/98 - 12/98.							
24	**6841**	**2**	**N**	**FORK CREEK**	**MO06ZS**	**1.406**	**12N**	**07W**	**05**	**Temperature**	**Water**
				Department of Ecology unpublished data from the Willapa TMDL Study shows a 7-day mean of daily maximum values of 17.4 for the week ending 14 August 2001 at station 9b (Fork Creek at 1st bridge). Department of Ecology unpublished data from the Willapa TMDL Study shows 5 excursions beyond the criterion during 2001 Department of Ecology unpublished data from the Willapa TMDL Study shows a 7-day mean of daily maximum values of 16.8 for the week ending 14 August 2001 at station 9c (Fork Creek RM3). Department of Ecology unpublished data from the Willapa TMDL Study shows 0 excursions beyond the criterion during 2001 Department of Ecology unpublished data from the Willapa TMDL Study shows a 7-day mean of daily maximum values of 16.8 for the week ending 14 August 2001 at station 9c (Fork Creek RM3). Department of Ecology unpublished data from the Willapa TMDL Study shows 0 excursions beyond the criterion during 2001 Department of Ecology unpublished data from the Willapa TMDL Study shows a 7-day mean of daily maximum values of 17.4 for the week ending 14 August 2001 at station 9b (Fork Creek at 1st bridge). Department of Ecology unpublished data from the Willapa TMDL Study shows 5 excursions beyond the criterion during 2001							
24	**11684**	**2**	**N**	**LITTLE NORTH RIVER**	**DS94CS**	**0**	**16N**	**08W**	**08**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station WA851S (Little North River) shows excursions beyond the criterion from measurements made in 1994.							
24	**6903**	**2**	**N**	**LOWER SALMON CREEK**	**RT12XY**	**1.115**	**15N**	**09W**	**19**	**Temperature**	**Water**
				Weyerhaeuser Company data (submitted by Michael Pollock on 10/30/97) show 4 excursions beyond the criterion out of 125 samples (3%) on Lower Salmon Creek south of C-Line off unnamed Spur road during1996.						Continuous temperature measurements were taken, but data were previously submitted only in hardcopy form. The water segment is listed as Category 2 based on the 1998 assessment.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
24	**35754**	**2**	**N**	**MARTIN CREEK**	**FW86AP**	**0.566**	**15N**	**06W**	**28**	**pH**	**Water**
				Port Blakely Tree Farms unpublished data from station M1 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursion beyond the criterion from measurements collected in 2001-2002. Port Blakely Tree Farms unpublished data from station M2 (submitted by Blake Murden on 10 Decemeber 2002) shows no excursions beyond the criterion from measurements collected in 2001-2002. Port Blakely Tree Farms unpublished data from station M4 (submitted by Blake Murden on 10 Decemeber 2002) shows 2 excursions beyond the criterion from 4 measurements collected in 2001-2002.							
24	**6859**	**2**	**N**	**MILL CREEK**	**EQ10DO**	**8.83**	**13N**	**07W**	**09**	**Temperature**	**Water**
				Department of Ecology unpublished data from the Willapa TMDL Study shows a 7-day mean of daily maximum values of 17.8 for the week ending 13 August 2001 at station 21 (Mill Creek at Mill Creek Rd). Department of Ecology unpublished data from the Willapa TMDL Study shows 4 excursions beyond the criterion during 2001							
24	**6860**	**2**	**N**	**MILL CREEK**	**EQ10DO**	**4.195**	**13N**	**07W**	**07**	**Temperature**	**Water**
				Department of Ecology unpublished data from the Willapa TMDL Study shows a 7-day mean of daily maximum values of 18 for the week ending 14 August 2001 at station 20 (Mill Creek at Bridge # 4). Department of Ecology unpublished data from the Willapa TMDL Study shows 4 excursions beyond the criterion during 2001 Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station TRBKG-2 (Mill Ck @ Mill Ck Rd Br (4th)) shows 1 excursions beyond the criterion measured on these dates: 98/08/04,							
24	**6863**	**2**	**N**	**MILL CREEK**	**EQ10DO**	**0.338**	**13N**	**08W**	**02**	**Temperature**	**Water**
				Department of Ecology unpublished data from the Willapa TMDL Study shows a 7-day mean of daily maximum values of 18 for the week ending 13 August 2001 at station 18 (Mill Creek at 1st Mill Ck). Department of Ecology unpublished data from the Willapa TMDL Study shows 4 excursions beyond the criterion during 2001 Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station MILLCK (Mill Creek) shows 1 excursions beyond the criterion measured on these dates: 98/08/04,							
24	**11692**	**2**	**N**	**NASELLE RIVER**	**JX84NY**	**25.165**	**10N**	**09W**	**11**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station WA855S (NASELLE RIVER (WA855S)) shows excursions beyond the criterion from measurements made in 1995.							
24	**6684**	**2**	**N**	**NASELLE RIVER**	**JX84NY**	**0**	**11N**	**10W**	**99**	**Fecal Coliform**	**Water**
				Seyferlich and Joy, 1993. , 1 excursion beyond the criterion at DOH station 14 on 10/16/90.						Data is only available in hardcopy format. The water segment is listed as Category 2 based on the 1998 assessment.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Remarks	Medium
24	3778	2	Y	**NASELLE RIVER** Washington Dept. of Fish and Wildlife data (submitted by Hal Michael on 14 September 1995) show numerous excursions beyond the criterion at the inflow to the Naselle Hatchery.	JX84NY 25.429 10N 09W 02	Temperature	Information submitted is insufficient to support a Category 5 listing. No raw data appear in the reference. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	Water
24	11694	2	N	**NASELLE RIVER** Department of Ecology unpublished data from EMAP station WA855S (NASELLE RIVER (WA855S)) shows excursions beyond the criterion from measurements made in 1995.	JX84NY 25.165 10N 09W 11	Temperature		Water
24	12793	2	N	**NORTH COVE** Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station4 (Western Reservation Boundary) in July and August 2000.	390KRD 46124H0C3 46.725 124.035	Carbaryl	Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).	Water
24	12794	2	N	**NORTH COVE** Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station5 (Shoalwater Bay Drive) in July and August 2000.	390KRD 46124H0B3 46.715 124.035	Carbaryl	Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).	Water
24	12795	2	N	**NORTH COVE** Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station6 (Tribal Swimming Hole) in July and August 2000.	390KRD 46124H0B2 46.715 124.025	Carbaryl	Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).	Water
24	12796	2	N	**NORTH COVE** Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station7 (Southern Reservation Boundary) in July and August 2000.	390KRD 46124H0B1 46.715 124.015	Carbaryl	Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).	Water

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
24	**12780**	**2**	**N**	**NORTH RIVER** Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station 14 (North River Lodge) in July and August 2000.	**WU17DR**	**0**	**15N**	**10W**	**99**	**Carbaryl**	Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).	**Water**
24	**12865**	**2**	**N**	**PACIFIC COUNTY DRAINAGE DITCH NO. 1 (PCDD-1)** Davis 1998, shows 1 excursion beyond the National Toxics Rule criterion out of 1 samples collected at station PCDD-1 in 1996.	**YF44AK**	**3.149**	**15N**	**11W**	**32**	**4,4'-DDE**		**Water**
24	**12866**	**2**	**N**	**PACIFIC COUNTY DRAINAGE DITCH NO. 1 (PCDD-1)** Davis 1998, shows 1 excursion beyond the National Toxics Rule criterion out of 1 samples collected at station PCDD-1 in 1996.	**YF44AK**	**3.149**	**15N**	**11W**	**32**	**4,4'-DDT**		**Water**
24	**8750**	**2**	**Y**	**PACIFIC COUNTY DRAINAGE DITCH NO. 1 (PCDD-1)** Johnson, 2000. show no samples exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station2 (Pacific County Drainage Ditch #1) in July and August 2000. Davis 1997. show 2 samples were greater than NAS recommended criterion from samples collected in 1994 and 1995.	**YF44AK**	**3.149**	**15N**	**11W**	**32**	**Carbaryl**	EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion of 0.02 ug/L, which has not been adopted as a state water quality standard. Recent sampling in 2000 shows no presence of carbaryl.	**Water**
24	**40572**	**2**	**N**	**PACIFIC COUNTY DRAINAGE DITCH NO. 1 (PCDD-1)** Coots (2003) show 1 excursion beyond the chronic criterion collected on 2 July 2002.	**YF44AK**	**4.931**	**15N**	**11W**	**29**	**DDT**		**Water**
24	**40573**	**2**	**N**	**PACIFIC COUNTY DRAINAGE DITCH NO. 1 (PCDD-1)** Coots (2003) show 1 excursion beyond the chronic criterion collected on 2 July 2002.	**YF44AK**	**3.149**	**15N**	**11W**	**32**	**DDT**		**Water**
24	**40574**	**2**	**N**	**PACIFIC COUNTY DRAINAGE DITCH NO. 1 (PCDD-1)** Coots (2003) show 1 excursion beyond the chronic criterion collected on 2 July 2002.	**YF44AK**	**6.995**	**15N**	**11W**	**19**	**DDT**		**Water**
24	**40575**	**2**	**N**	**PACIFIC COUNTY DRAINAGE DITCH NO. 1 (PCDD-1)** Coots (2003) show 1 excursion beyond the chronic criterion collected on 2 July 2002.	**YF44AK**	**8.258**	**15N**	**11W**	**18**	**DDT**		**Water**
24	**3776**	**2**	**N**	**PACIFIC COUNTY DRAINAGE DITCH NO. 1 (PCDD-1)** Berbells, 1991. 10 excursions beyond the criterion out of 10 samples (100%) at station 119 (RM 1.2) in 1991.	**YF44AK**	**3.149**	**15N**	**11W**	**32**	**Dissolved oxygen**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
24	**12783**	**2**	**N**	**PALIX RIVER**	**KY30DF**	**0.223**	**13N**	**10W**	**99**	**Carbaryl**	**Water**
				Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station 17 (Bay Center Boat Launch) in July and August 2000.						Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).	
24	**11707**	**2**	**N**	**PALIX RIVER, N.F.**	**SU82ER**	**1.008**	**14N**	**09W**	**31**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station WA065S (NF Palix River) shows excursions beyond the criterion from measurements made in 1995.							
24	**11708**	**2**	**N**	**PALIX RIVER, N.F.**	**SU82ER**	**1.008**	**14N**	**09W**	**31**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station WA065S (NF Palix River) shows excursions beyond the criterion from measurements made in 1995.							
24	**9988**	**2**	**N**	**POTTER SLOUGH**	**VK73AS**	**0.137**	**14N**	**09W**	**20**	**Fecal Coliform**	**Water**
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station SBSW-4 (POTTER SLOUGH AT HWY 101) shows the geometric mean of 106 exceeds the criterion and that 50 % of the samples exceeds the percentile criterion from 2 samples collected during 1998.							
24	**35881**	**2**	**N**	**RAIMIE CREEK, RIGHT FORK**	**KM97FX**	**4.506**	**15N**	**06W**	**02**	**Dissolved oxygen**	**Water**
				Port Blakely Tree Farms unpublished data from station UR2 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursion beyond the criterion from measurements collected in 2001.							
24	**14913**	**2**	**N**	**RIVERDALE CREEK**	**IH25UI**	**0**	**14N**	**09W**	**24**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station RAYSW-3 (RIVERDALE CREEK AT LIONS CLUB PARK) shows 1 excursions beyond the criterion measured on these dates: 98/09/02,							
24	**6904**	**2**	**N**	**SALMON CREEK, UPPER**	**HQ84PY**	**1.175**	**15N**	**08W**	**05**	**Temperature**	**Water**
				Weyerhaeuser Company data (submitted by Michael Pollock on 10/30/97) show 8excursions beyond the criterion out of 125 samples (6%) on Upper Salmon Creek 70 feet above M3000 bridge just off of M-line during1996.						Continuous temperature measurements were taken, but data were previously submitted only in hardcopy form. The water segment is listed as Category 2 based on the 1998 assessment.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
24	**14924**	**2**	**N**	**SKIDMORE SLOUGH**	**JJ68TH**	**0**	**14N**	**09W**	**26**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station RAYSW-1B (Skidmore Sl Below Tide Gate) shows 0 excursions beyond the criterion measured 1998. Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station RAYSW-1A (Skidmore Sl Above Tide Gate) shows 2 excursions beyond the criterion measured on these dates: 98/08/05, 98/09/02, Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station RAYSW-1B (Skidmore Sl Below Tide Gate) shows 1 excursions beyond the criterion measured on these dates: 98/05/05,						
24	**14928**	**2**	**N**	**SKIDMORE SLOUGH**	**JJ68TH**	**0**	**14N**	**09W**	**26**	**Temperature**	**Water**
				Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station RAYSW-1A (Skidmore Sl Above Tide Gate) shows 3 excursions beyond the criterion measured on these dates: 98/07/15, 98/08/05, 98/09/02, Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station RAYSW-1B (Skidmore Sl Below Tide Gate) shows 0 excursions beyond the criterion out of 2 samples collected between 04/98 - 12/98. Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station RAYSW-1B (Skidmore Sl Below Tide Gate) shows 0 excursions beyond the criterion out of 2 samples collected between 04/98 - 12/98. Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station RAYSW-1A (Skidmore Sl Above Tide Gate) shows 3 excursions beyond the criterion measured on these dates: 98/07/15, 98/08/05, 98/09/02,						
24	**35874**	**2**	**N**	**SULLIVAN CREEK**	**HP04GB**	**0.198**	**15N**	**06W**	**10**	**pH**	**Water**
				Port Blakely Tree Farms unpublished data from station SC1 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursion beyond the criterion from 4 measurements collected in 2001-2002. Port Blakely Tree Farms unpublished data from station SC2 (submitted by Blake Murden on 10 Decemeber 2002) shows 1 excursion beyond the criterion from 4 measurements collected in 2001-2002.						
24	**3780**	**2**	**N**	**TUTTLE CREEK**	**BM28AD**	**0**	**16N**	**08W**	**23**	**pH**	**Water**
				Davis, 1993. 1 excursion (5.75) below the criterion on 6/15/92.							
24	**11681**	**2**	**N**	**UNNAMED CREEK**	**CA61WW**	**2.243**	**15N**	**08W**	**36**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station WA863S (TRIB TO SMITH CREEK (WA863S)) shows excursions beyond the criterion from measurements made in 1994.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information				Parameter	Medium / Remarks
24	**12776**	**2**	**N**	**WILLAPA BAY** Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station10 (Milepost 15) in July and August 2000.	**390KRD**	**46123H9C5**	**46.725**	**123.955**	**Carbaryl**	**Water** Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).
24	**12777**	**2**	**N**	**WILLAPA BAY** Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station11 (Milepost 14) in July and August 2000.	**390KRD**	**46123H9C4**	**46.725**	**123.945**	**Carbaryl**	**Water** Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).
24	**12778**	**2**	**N**	**WILLAPA BAY** Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station12 (Cedar River) in July and August 2000.	**390KRD**	**46123H9D7**	**46.735**	**123.975**	**Carbaryl**	**Water** Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).
24	**12779**	**2**	**N**	**WILLAPA BAY** Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station13 (Milepost 13) in July and August 2000.	**390KRD**	**46123H9C1**	**46.725**	**123.915**	**Carbaryl**	**Water** Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).
24	**12784**	**2**	**N**	**WILLAPA BAY** Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station 18 (West Bay Center) in July and August 2000.	**390KRD**	**46123G9D6**	**46.635**	**123.965**	**Carbaryl**	**Water** Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).
24	**12785**	**2**	**N**	**WILLAPA BAY** Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station19 (West Tribal Oyster Company) in July and August 2000.	**390KRD**	**46123G9A5**	**46.605**	**123.955**	**Carbaryl**	**Water** Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
24	**12790**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46124E0J2**	**46.495**	**124.025**	**Carbaryl**	**Water**
				Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station23 (Nahcotta Boat Launch) in July and August 2000. Johnson, 2000. show no samples exceeded the NAS criterion from samples collected at station 15 (Nahcotta Intertidal) in June and August 2000.						Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).
24	**12791**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46124G0A3**	**46.605**	**124.035**	**Carbaryl**	**Water**
				Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station24 (Leadbetter Point) in July and August 2000.						Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).
24	**12797**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46123H9A8**	**46.705**	**123.985**	**Carbaryl**	**Water**
				Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station8 (South Pennisula) in July and August 2000.						Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).
24	**12798**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46123H9A6**	**46.705**	**123.965**	**Carbaryl**	**Water**
				Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station9 (Toke Point) in July and August 2000.						Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).
24	**12812**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46123G9I4**	**46.685**	**123.945**	**Carbaryl**	**Water**
				Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected at station6 (Stony Point Channel) in June and August 2000.						Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).
24	**12813**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46123G9H4**	**46.675**	**123.945**	**Carbaryl**	**Water**
				Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected at station7 (Stony Point Channel) in June and August 2000.						Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
24	**12814**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46123G9G4**	**46.665**	**123.945**	**Carbaryl**	**Water**
				Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected at station8 (Stony Point Channel) in June and August 2000.					Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.06 ug/L for marine water (even though it has not been adopted as a state water quality standard).	
24	**10335**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46123E9G3**	**46.465**	**123.935**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA008 (Willapa Bay - Naselle River) shows 2 excursions beyond the criterions out of 59 samples collected between 1993-2000						
24	**10348**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46124E0F0**	**46.455**	**124.005**	**Dissolved oxygen**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA007 (Willapa Bay - Long Isl. S. Jenson Point) shows 1 excursions beyond the criterions out of 90 samples collected between 1993-2000						
24	**10336**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46123E9G3**	**46.465**	**123.935**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA008 (Willapa Bay - Naselle River) shows 4 excursions beyond the criterions out of 42 samples collected between 1993-2000						
24	**10340**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46123F9E7**	**46.545**	**123.975**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA006 (Willapa Bay - Nahcotta Channel) shows 3 excursions beyond the criterions out of 68 samples collected between 1993-2000						
24	**10344**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46123G9I7**	**46.685**	**123.975**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA004 (Willapa Bay - Toke Point) shows 5 excursions beyond the criterions out of 71 samples collected between 1993-2000						
24	**10346**	**2**	**N**	**WILLAPA BAY**	**390KRD**				**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA003 (Willapa Bay - Willapa R. John. Slough) shows 3 excursions beyond the criterions out of 68 samples collected between 1993-2000. Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRJS-1 (Willapa R at Johnson Sl) shows 0 excursions beyond the criterion out of 4 samples collected between 04/98 - 12/98.						
24	**10349**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46124E0F0**	**46.455**	**124.005**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA007 (Willapa Bay - Long Isl. S. Jenson Point) shows 6 excursions beyond the criterions out of 73 samples collected between 1993-2000						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
24	**10337**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46123E9G3**	**46.465**	**123.935**	**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA008 (Willapa Bay - Naselle River) shows 21 excursions beyond the criterions out of 59 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
24	**10341**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46123F9E7**	**46.545**	**123.975**	**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA006 (Willapa Bay - Nahcotta Channel) shows 28 excursions beyond the criterions out of 97 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.
24	**10345**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46123G9I7**	**46.685**	**123.975**	**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA004 (Willapa Bay - Toke Point) shows 21 excursions beyond the criterions out of 111 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
24	**10350**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46124E0F0**	**46.455**	**124.005**		**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA007 (Willapa Bay - Long Isl. S. Jenson Point) shows 37 excursions beyond the criterions out of 103 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
24	**40576**	**2**	**N**	**WILLAPA BAY**	**390KRD**	**46123H8A3**	**46.705**	**123.835**		**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA003 (Willapa Bay - Willapa R. John. Slough) shows 39 excursions beyond the criterions out of 109 samples collected between 1993-2000						This listing will remain on Category 2 until research is done on the actual sedimentation rates and natural sedimentation rates. -kk This listing was reviewed by Department of Ecology Coastal and Estuarine Assessment Unit staff [see Grantham memo 4/2005, attachment (d)], who concluded that these exceedances are a natural condition and there are insufficient human influences in this area to produce significant temperature increases. This listing is from a small and/or shallow enclosed or semi-enclosed waterbody which is subject to substantial increases in natural thermal warming.	
24	**12782**	**2**	**N**	**WILLAPA RIVER**	**YN05JR**	**3.781**	**14N**	**09W**	**28**	**Carbaryl**	**Water**
				Johnson, 2000. show 1 sample exceeded the NAS criterion from samples collected by the Shoalwater Bay Tribe at station 16 (South Bend Boat Launch) in July and August 2000.						Since EPA placed waters on the 1998 list based on the National Academy of Sciences recommended criterion, this current assessment is based on that criterion of 0.02 ug/L for freshwater (even though it has not been adopted as a state water quality standard).	
24	**9507**	**2**	**N**	**WILLAPA RIVER**	**YN05JR**	**14N**	**09W**	**24**		**Dissolved oxygen**	**Water**
				Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRSB-1 (Willapa R below S Bend) shows 1 excursions beyond the criterion measured on these dates: 98/09/02, Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRNA-1 (Willapa R at the Narrows) shows 3 excursions beyond the criterion measured on these dates: 98/05/05, 98/08/05, 98/09/02,							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
24	**40849**	**2**	**N**	**WILLAPA RIVER**	**YN05JR 6.088 14N 09W 27**	**Dissolved oxygen**	**Water**
				Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRNA-1 (Willapa R at the Narrows) shows 4 excursions beyond the criterion measured on these dates: 98/05/05, 98/08/05, 98/09/02, 98/11/04			
24	**10353**	**2**	**N**	**WILLAPA RIVER**	**YN05JR 10.268 14N 09W 24**	**pH**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA001 (Willapa Bay - Willapa R. Raymond) shows 5 excursions beyond the criterions out of 73 samples collected between 1993-2000 Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRRA-1 (Willapa R at Raymond (nr Port)) shows 0 excursions beyond the criterion out of 4 samples collected between 04/98 - 12/98.		A review of the salinity data for station WPA001 by Pickett (1998) shows that 95% of the vertically-averaged salinity measurements are below 24.4 ppt, and about 26% of the measurements are below 10 ppt, so the marine standards should apply for station WPA001.	
24	**14972**	**2**	**N**	**WILLAPA RIVER**	**YN05JR 22.415 14N 08W 27**	**pH**	**Water**
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRWI-1 (Willapa R at Willapa Road) shows 1 excursions beyond the criterion out of 4 samples collected between 04/98 - 12/98.			
24	**9509**	**2**	**N**	**WILLAPA RIVER**	**YN05JR 14N 09W 24**	**Temperature**	**Water**
				Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRSB-1 (Willapa R below S Bend) shows 2 excursions beyond the criterion measured on these dates: 98/08/05, 98/09/02, Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRNA-AL1 (WILLAPA R AT THE NARROWS) shows 2 excursions beyond the criterion measured on these dates: 98/07/15, 98/09/23,			
24	**10354**	**2**	**N**	**WILLAPA RIVER**	**YN05JR 10.268 14N 09W 24**	**Temperature**	**Water**
				Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station WPA001 (Willapa Bay - Willapa R. Raymond) shows 33 excursions beyond the criterions out of 114 samples collected between 1993-2000 Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRRA-1 (Willapa R at Raymond (nr Port)) shows 2 excursions beyond the criterion measured on these dates: 98/08/05, 98/09/02, Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRRA-AR1 (WILLAPA R AT RAYMOND (NR PORT)) shows 2 excursions beyond the criterion measured on these dates: 98/07/15, 98/09/23, Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRRA-AL1 (WILLAPA R AT RAYMOND (NR PORT)) shows 2 excursions beyond the criterion measured on these dates: 98/07/15, 98/09/23,		A review of the salinity data for station WPA001 by Pickett (1998) shows that 95% of the vertically-averaged salinity measurements are below 24.4 ppt, and about 26% of the measurements are below 10 ppt, so the marine standards should apply for station WPA001. Changed from Category 5 to Category 2 on 06/15/04 -kk	
24	**14879**	**2**	**N**	**WILLAPA RIVER**	**YN05JR 9.442 14N 09W 23**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRNA-AR1 (WILLAPA R AT THE NARROWS) shows 2 excursions beyond the criterion measured on these dates: 98/07/15, 98/09/23,			

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
24	**14884**	**2**	**N**	**WILLAPA RIVER**	**YN05JR**	**3.781**	**14N**	**09W**	**28**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRSB-1 (Willapa R below S Bend) shows 2 excursions beyond the criterion measured on these dates: 98/08/05, 98/09/02,							
24	**14975**	**2**	**N**	**WILLAPA RIVER**	**YN05JR**	**22.415**	**14N**	**08W**	**27**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRWI-1 (Willapa R at Willapa Road) shows 3 excursions beyond the criterion measured on these dates: 98/07/15, 98/08/05, 98/09/02,							
24	**14976**	**2**	**N**	**WILLAPA RIVER**	**YN05JR**	**12.229**	**14N**	**08W**	**19**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRHY-AL1 (WILLAPA R AT HWY 101 BRIDGE) shows 2 excursions beyond the criterion measured on these dates: 98/07/15, 98/09/23,							
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRHY-1 (Willapa R at Hwy 101 Bridge) shows 2 excursions beyond the criterion measured on these dates: 98/08/05, 98/09/02,							
24	**40845**	**2**	**N**	**WILLAPA RIVER**	**YN05JR**	**28.147**	**13N**	**08W**	**52**	**Temperature**	**Water**
				Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRC1-1 (Willapa R at Camp One Rd) shows 5 excursions beyond the criterion measured on these dates: 98/07/15, 98/08/04, 98/08/05, 98/09/01, 98/09/02,							
24	**40850**	**2**	**N**	**WILLAPA RIVER**	**YN05JR**	**6.088**	**14N**	**09W**	**27**	**Temperature**	**Water**
				Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WRNA-1 (Willapa R at the Narrows) shows 2 excursions beyond the criterion measured on these dates: 98/08/05, 98/09/02,							
24	**14920**	**2**	**N**	**WILLAPA RIVER, S.F.**	**IK15OR**	**1.439**	**14N**	**08W**	**19**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station SFRK-1 (South Fork Willapa R @ 101 Br) shows 2 excursions beyond the criterion measured on these dates: 98/08/05, 98/09/02,							
24	**14932**	**2**	**N**	**WILSON CREEK**	**RX96AH**	**0**	**14N**	**08W**	**27**	**Dissolved oxygen**	**Water**
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WILSON-1 (Wilson Creek) shows 1 excursions beyond the criterion collected on 98/08/05.							
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WILSON-1 (Wilson Creek) shows 0 excursions beyond the criterion out of 2 samples collected between 04/98 - 12/98.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
24	**6852**	**2**	**N**	**WILSON CREEK**	**RX96AH**	**1.937**	**14N**	**08W**	**23**	**Temperature**	**Water**
				Department of Ecology unpublished data from the Willapa TMDL Study shows a 7-day mean of daily maximum values of 17.7 for the week ending 14 August 2001 at station 29 (Wilson Creek at 1st Weyco). Department of Ecology unpublished data from the Willapa TMDL Study shows 4 excursions beyond the criterion during 2001 Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WILSUP-1 (WILSON CREEK AT 1ST WEYCO BR) shows 0 excursions beyond the criterion out of 6 samples collected between 04/98 - 12/98. Unpublished data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WILSUP-1 (WILSON CREEK AT 1ST WEYCO BR) shows 0 excursions beyond the criterion out of 6 samples collected between 04/98 - 12/98. Department of Ecology unpublished data from the Willapa TMDL Study shows a 7-day mean of daily maximum values of 17.7 for the week ending 14 August 2001 at station 29 (Wilson Creek at 1st Weyco). Department of Ecology unpublished data from the Willapa TMDL Study shows 4 excursions beyond the criterion during 2001						
24	**14936**	**2**	**N**	**WILSON CREEK**	**RX96AH**	**0**	**14N**	**08W**	**27**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project WRTMDL01 (WILLAPA RIVER TMDL FOR FECALS AND DISSOLVED OXYGEN) station WILSON-1 (Wilson Creek) shows 1 excursions beyond the criterion measured on these dates: 98/08/05,							
25	**3781**	**2**	**Y**	**ABERNATHY CREEK**	**AP47TF**	**11.197**	**09N**	**04W**	**09**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 15.9 degrees C, with a maximum daily temperature of 17.7 degrees C from continuous measurements collected in 2002 at Abernathy - Near Midway Creek. Caldwell, et al. 1991. , Numerous excursions beyond the criterion at 6 different locations in the section during 1990.						Recent continuous monitoring data from 2002 shows that temperature standards are being met. Listing will be placed in waters of concern category until further monitoring verifies the status of the water.	
25	**34964**	**2**	**N**	**BEAVER CREEK**	**HZ06GH**	**0**	**09N**	**05W**	**32**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 16.7 degrees C, with a maximum daily temperature of 18.2 degrees C from continuous measurements collected in 2002 at Beaver Creek.							
25	**34956**	**2**	**N**	**CAMERON CREEK**	**JU26KA**	**0.306**	**08N**	**04W**	**03**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 18 degrees C, with a maximum daily temperature of 19 degrees C from continuous measurements collected in 2002 at Cameron Creek.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
25	**8767**	**2**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**46123B2E7**	**46.145**	**123.275**	**Arsenic**	**Tissue**
				Tetra Tech, 1993, 2 excursions beyond the national toxics rule criterion in the edible tissue of individual White Sturgeon at River Miles 49 and 67.						Changed from Category 5 to Category 2 on 03/08/05. Although arsenic was detected, there is not enough evidence to determine if an excursion of either the National Toxics Rule or the Washington state water quality standards criterion occurred. -kk The data used for the cited report (Tetra Tech, 1993) results from fish from two different locations. The lowest downstream station sampled (RM 49) is used for identifying the segment location.
25	**8775**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**46123C7H4**	**46.275**	**123.745**	**Arsenic**	**Tissue**
				Laflamme and Gilroy, 1996. , excursions beyond the National Toxic Rule criterion in Sturgeon, L. Sucker, Chinook, and Steelhead fillets in 1994 and 1995.;						The data used for the cited report (Tetra Tech, 1996) results from a composite of fish from many different locations. The lowest downstream station sampled (RM 20) is used for identifying the segment location. Results from recent sampling by EAP in other waterbodies suggest freshwater fish do not exceed the NTR inorganic arsenic criterion (see Richard Jack, EAP). Suggest verification sampling. Since very little of the total arsenic in fish or shellfish tissue is inorganic, listings based on total arsenic are likely not appropriate. (Johnson, ECY/EAP, 2003).
25	**8778**	**2**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**46123B1I7**	**46.185**	**123.175**	**Arsenic**	**Water**
				Fuhrer, et al. 1996. , 4 excursions beyond the National Toxic Rule criterion at Beaver Army Terminal.						The measured data represent total arsenic and thus cannot be used to apply to National Toxic Rule criterion which applys only to inorganic arsenic. This listing will be placed on the waters of concern category until further verification is done.
25	**8770**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**46123C7D1**	**46.235**	**123.715**	**Bis(2-ethylhexyl)phthalate**	**Tissue**
				Tetra Tech, 1993 , 1 excursion beyond the national toxics rule criterion in the edible tissue of a single White Sturgeon at RM 20. Johnson, 2001 provides rationale that data from Tetra Tech, 1993, may be suspect and not representative of the actual conditions.						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information				Parameter	Medium	Remarks
25	**8769**	**2**	**Y**	**COLUMBIA RIVER** Tetra Tech, 1993 , 2 excursions beyond the national toxics rule criterion in the edible tissue of a individual White Sturgeon at RM 21.	**NN57SG**	**46123C6E9**	**46.245**	**123.695**	**Dieldrin**	**Tissue**	WQ Policy 1-11 requires that a tissue smaple be placed on the 303(d) list when either an average of the three single-fish samples or a composite sample made up of at least 5 fish be used. A segment is placed on the Waters of Concern category when any one tissue sample exceeds the criteria.
25	**3783**	**2**	**Y**	**COLUMBIA RIVER** Tetra Tech, 1993. Excursions below the criterion at station W9 in Grays Bay in 1991.	**NN57SG**	**46123C7J0**	**46.295**	**123.705**	**Dissolved oxygen**	**Water**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
25	**3789**	**2**	**Y**	**COLUMBIA RIVER** Tetra Tech, 1993. Excursions below the criterion at station W13 near Skamokawa Creek in 1991.	**NN57SG**	**46123C4G7**	**46.265**	**123.475**	**Dissolved oxygen**	**Water**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
25	**8771**	**2**	**N**	**COLUMBIA RIVER** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 461601123285700 (RM 32.68) on 5/14/80.	**NN57SG**	**46123C4H8**	**46.275**	**123.485**	**Heptachlor**	**Water**	
25	**8774**	**2**	**N**	**COLUMBIA RIVER** Fuhrer, et al. 1996. , One excursion beyond the National Toxic Rule criterion at the Beaver Army Terminal.	**NN57SG**	**46123B1I7**	**46.185**	**123.175**	**Mercury**	**Water**	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Remarks	Medium
25	3782	2	Y	**COLUMBIA RIVER** Hallock and Ehinger, 1993. 1 excursion beyond the criterion out of 5 samples at Skamokawa Park (RM 32.9) on 9/1/92.	NN57SG 46123C4G6 46.265 123.465	Temperature	One daily maximum excursion for one year only is insufficient to determine persistent temperature impairment and does not meet the WQ Program Policy 1-11 (updated 9/02). This appears to be an error in listing as impaired on the 1998 303(d) list. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	Water
25	3784	2	Y	**COLUMBIA RIVER** Fuhrer, et al. 1996. , 2 excursions beyond the criterion out of 16 samples (12%) at Beaver Army Terminal during 1994.	NN57SG 46123B1I7 46.185 123.175	Temperature	The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	Water
25	3787	2	N	**COLUMBIA RIVER** Hallock and Ehinger, 1993. 1 excursion beyond the criterion out of 5 samples at Jones Beach (RM 46.1) on 9/1/92.	NN57SG 46123B3E0 46.145 123.305	Temperature	EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	Water
25	3788	2	N	**COLUMBIA RIVER** Hallock and Ehinger, 1993. 1 excursion beyond the criterion out of 5 samples at Marker 13 (RM 61.3) on 9/1/92.	NN57SG 46123B0E2 46.145 123.025	Temperature	EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	Water
25	8766	2	Y	**COLUMBIA RIVER** Tetra Tech, 1993 , 2 excursions beyond the national toxics rule criterion in the edible tissue of a individual White Sturgeon at RM 21.	NN57SG 46123C6E9 46.245 123.695	Total PCBs	WQ Policy 1-11 requires that a tissue smaple be placed on the 303(d) list when either an average of the three single-fish samples or a composite sample made up of at least 5 fish be used. A segment is placed on the Waters of Concern category when any one tissue sample exceeds the criteria.	Tissue
25	34952	2	N	**DELAMETER CREEK** Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 17.5 degrees C, with a maximum daily temperature of 19.4 degrees C from continuous measurements collected in 2002 at Delameter - Upper.	EF94JD 9.756 09N 03W 23	Temperature		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
25	**16765**	**2**	**N**	**ELOCHOMAN RIVER**	**RE01VV**	**8.265**	**09N**	**05W**	**31**	**Fecal Coliform**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 25C070 (ELOCHMAN RIVER NEAR CATHALAMET) shows a geometric mean of 171 exceeds the criterion and that 33% of the samples exceeds the percentile criterion from 3 samples collected during 1997.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 25C070 (ELOCHMAN RIVER NEAR CATHALAMET) shows a geometric mean of 32 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1998.							
25	**8257**	**2**	**N**	**ELOCHOMAN RIVER**	**RE01VV**	**21.993**	**09N**	**05W**	**02**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station WA826S (Elochaman River) shows excursions beyond the criterion from measurements made in 1994.							
25	**3790**	**2**	**Y**	**ELOCHOMAN RIVER**	**RE01VV**	**17.645**	**09N**	**05W**	**15**	**Temperature**	**Water**
				Washington Dept. of Fish and Wildlife data (submitted by Hal Michael on 14 September 1995) show numerous excursions beyond the criterion at the inflow to the Elokomin Hatchery.						Information submitted is insufficient to support a Category 5 listing. No raw data appear in the reference. Listing will be placed in waters of concern category until further monitoring verifies the status of the water.	
25	**34951**	**2**	**N**	**ELOCHOMAN RIVER**	**RE01VV**	**19.105**	**09N**	**05W**	**10**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 18 degrees C, with a maximum daily temperature of 19.7 degrees C from continuous measurements collected in 2002 at Elochoman R. - Below Rock Creek.							
25	**16766**	**2**	**N**	**GRAYS RIVER**	**EU11ZS**	**23.177**	**10N**	**07W**	**08**	**Fecal Coliform**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 25B070 (GRAYS RIVER NEAR GRAYS RIVER) shows a geometric mean of 56 does not exceed the criterion and that 33% of the samples exceeds the percentile criterion from 3 samples collected during 1997.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 25B070 (GRAYS RIVER NEAR GRAYS RIVER) shows a geometric mean of 13 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1998.							
25	**34961**	**2**	**N**	**GRAYS RIVER, E.F.**	**DI62FW**	**2.175**	**11N**	**06W**	**16**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 17.3 degrees C, with a maximum daily temperature of 18.7 degrees C from continuous measurements collected in 2002 at East Fork Grays River.							
25	**3792**	**2**	**Y**	**GRAYS RIVER, W.F.**	**OV80RL**	**1.83**	**11N**	**07W**	**33**	**Temperature**	**Water**
				Washington Dept. of Fish and Wildlife data (submitted by Hal Michael on 14 September 1995) show numerous excursions beyond the criterion at the inflow to the Grays River Salmon Hatchery. Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 17.9 degrees C, with a maximum daily temperature of 19.8 degrees C from continuous measurements collected in 2002 at West Fork Grays River.						Information submitted is insufficient to support a Category 5 listing. No raw data appear in the reference. Listing will be placed in waters of concern category until further monitoring verifies the status of the water.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
25	**34963**	**2**	**N**	**JIM CROW CREEK**	**ZP14XJ**	**2.01**	**09N**	**07W**	**09**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 17.1 degrees C, with a maximum daily temperature of 18.5 degrees C from continuous measurements collected in 2002 at Jim Crow Creek - Above Fink Creek.							
25	**7788**	**2**	**Y**	**LONGVIEW DITCHES**	**FQ06HT**	**0**	**08N**	**02W**	**30**	**Dissolved oxygen**	**Water**
				Cusimano, 1993, 2 excursions beyond criterion at station J on 9/14/92 and 11/16/92.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired. City of Longview analysis from Bob Gregory dated 12 December 2002 suggests the low oxygen concentration is a natural condition due to groundwater infiltration and iron concentrations. Ecology staff reviewed this listing in 2003 for natural conditions, but could not rule out the possibility that human activities contributed to the excursion(s).	
25	**6692**	**2**	**N**	**LONGVIEW DITCHES**	**HV08XC**	**4.972**	**08N**	**03W**	**25**	**Fecal Coliform**	**Water**
				Singleton and Bailey, 1983, 1 excursion beyond the upper criterion at station 18 on 1/26/83.						Data is only available in hardcopy format. The water segment is listed as Category 2 based on the 1998 assessment.	
25	**10435**	**2**	**N**	**LONGVIEW DITCHES**	**FQ06HT**	**4.932**	**07N**	**02W**	**04**	**Fecal Coliform**	**Water**
				Cusimano, 1993. station LKD-C (Longview-Kelso Ditches (C)) shows 1 single samples exceed the geometric mean criterion out of 2 samples collected during 1992. Cusimano, 1993. station LKD-D (Longview-Kelso Ditches (D)) shows 2 single samples exceed the geometric mean criterion out of 4 samples collected during 1992.							
25	**10436**	**2**	**Y**	**LONGVIEW DITCHES**	**FQ06HT**	**3.094**	**07N**	**02W**	**05**	**Fecal Coliform**	**Water**
				Weyerhaeuser Company unpublished data show the percentile criterion was exceeded from 14 samples collected in 2002. Cusimano, 1993. station LKD-E (Longview-Kelso Ditches (E)) shows 1 single samples exceed the geometric mean criterion out of 2 samples collected during 1992. Cusimano, 1993. station LKD-F (Longview-Kelso Ditches (F)) shows 2 single samples exceed the geometric mean criterion out of 2 samples collected during 1992. Cusimano, 1993. station LKD-G (Longview-Kelso Ditches (G)) shows 1 single samples exceed the geometric mean criterion out of 2 samples collected during 1992.						Changed to Category 2 based on Weyerhaeuser sampling. Previously evaluated as Class AA when it should have used the Class A standards. 06/21/04 -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
25	**10438**	**2**	**N**	**LONGVIEW DITCHES**	**FQ06HT**	**0**	**08N**	**02W**	**30**	**Fecal Coliform**	**Water**
				Cusimano, 1993. station LKD-J (Longview-Kelso Ditches (J)) shows 1 single samples exceed the geometric mean criterion out of 2 samples collected during 1992.							
25	**8757**	**2**	**Y**	**LONGVIEW DITCHES**	**FQ06HT**	**6.62**	**07N**	**02W**	**03**	**Turbidity**	**Water**
				Cusimano, 1993, 2 excursions beyond criterion at stations A and B on 9/14/92 and 11/16/92.						This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired. City of Longview analysis from Bob Gregory dated 12 December 2002 suggests the high turbidity levels are a natural condition due to groundwater infiltration and of high iron concentrations in the groundwater. Ecology staff reviewed this listing in 2003 for natural conditions, but could not rule out the possibility that human activities contributed to the excursion(s).	
25	**8759**	**2**	**Y**	**LONGVIEW DITCHES**	**FQ06HT**	**4.932**	**07N**	**02W**	**04**	**Turbidity**	**Water**
				Cusimano, 1993, 2 excursions beyond criterion at stations C and D on 9/14/92 and 11/16/92.						This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired. City of Longview analysis from Bob Gregory dated 12 December 2002 suggests the high turbidity levels are a natural condition due to groundwater infiltration and of high iron concentrations in the groundwater. Ecology staff reviewed this listing in 2003 for natural conditions, but could not rule out the possibility that human activities contributed to the excursion(s).	

oxidation

oxidation

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium / Remarks
25	**8760**	**2**	**Y**	**LONGVIEW DITCHES** Cusimano, 1993, 2 excursions beyond criterion at stations E, F, and G on 9/14/92 and 11/16/92.	**FQ06HT**	**3.094**	**07N**	**02W**	**05**	**Turbidity**	**Water** This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired. City of Longview analysis from Bob Gregory dated 12 December 2002 suggests the high turbidity levels are a natural condition due to groundwater infiltration and oxidation of high iron concentrations in the groundwater. Ecology staff reviewed this listing in 2003 for natural conditions, but could not rule out the possibility that human activities contributed to the excursion(s).
25	**8761**	**2**	**Y**	**LONGVIEW DITCHES** Cusimano, 1993, 2 excursions beyond criterion at station I and station H on 9/14/92 and 11/16/92.	**FQ06HT**	**0.803**	**08N**	**02W**	**31**	**Turbidity**	**Water** This listing location for turbidity appears twice in the 1998 303(d) List. This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired. City of Longview analysis from Bob Gregory dated 12 December 2002 suggests the high turbidity levels are a natural condition due to groundwater infiltration and oxidation of high iron concentrations in the groundwater. Ecology staff reviewed this listing in 2003 for natural conditions, but could not rule out the possibility that human activities contributed to the excursion(s).

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
25	**8762**	**2**	**Y**	**LONGVIEW DITCHES** Cusimano, 1993, 2 excursions beyond criterion at station H on 9/14/92 and 11/16/92.	**GG32VT**	**0**	**08N**	**02W**	**31**	**Turbidity**	This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired. City of Longview analysis from Bob Gregory dated 12 December 2002 suggests the high turbidity levels are a natural condition due to groundwater infiltration and of high iron concentrations in the groundwater. Ecology staff reviewed this listing in 2003 for natural conditions, but could not rule out the possibility that human activities contributed to the excursion(s).	**Water**
25	**34957**	**2**	**N**	**MILL CREEK** Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 17.7 degrees C, with a maximum daily temperature of 19 degrees C from continuous measurements collected in 2002 at Mill - Above South Fork Mill.	**DX58CH**	**1.073**	**08N**	**04W**	**40**	**Temperature**		**Water**
25	**34959**	**2**	**N**	**MILL CREEK** Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 17.5 degrees C, with a maximum daily temperature of 18.8 degrees C from continuous measurements collected in 2002 at Camp Evergreen.	**DX58CH**	**2.461**	**08N**	**04W**	**05**	**Temperature**		**Water**
25	**34960**	**2**	**N**	**MILL CREEK** Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 17.6 degrees C, with a maximum daily temperature of 18.7 degrees C from continuous measurements collected in 2002 at Mill Creek - Lower.	**DX58CH**	**0.465**	**08N**	**04W**	**39**	**Temperature**		**Water**
25	**34962**	**2**	**N**	**MILL CREEK, S.F.** Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 17.3 degrees C, with a maximum daily temperature of 18.7 degrees C from continuous measurements collected in 2002 at South Fork Mill Creek.	**LC24TG**	**0**	**08N**	**04W**	**40**	**Temperature**		**Water**
25	**8259**	**2**	**N**	**SISSION CREEK** Department of Ecology unpublished data from EMAP station WWAP99-0521 (Sission Creek) shows excursions beyond the criterion from measurements made in 2000.	**TD38QY**	**9.086**	**10N**	**09W**	**25**	**Temperature**		**Water**
25	**34955**	**2**	**N**	**SKAMOKAWA CREEK** Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 17.9 degrees C, with a maximum daily temperature of 19.3 degrees C from continuous measurements collected in 2002 at Skamokawa - Above Left Fork.	**NR88FK**	**7.374**	**10N**	**06W**	**29**	**Temperature**		**Water**

oxidation

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
25	**34954**	**2**	**N**	**WIEST CREEK**	**WO71EM**	**0**	**09N**	**04W**	**26**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 18 degrees C, with a maximum daily temperature of 19.3 degrees C from continuous measurements collected in 2002 at Wiest Creek.							
25	**35257**	**2**	**N**	**WILSON CREEK**	**TE30VO**	**5.936**	**10N**	**06W**	**36**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 17.7 degrees C, with a maximum daily temperature of 19.8 degrees C from continuous measurements collected in 2002 at Wilson Creek - Upper.							
26	**22337**	**2**	**N**	**BUTTER CREEK**	**VI84YU**	**0**	**13N**	**09E**	**10**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 2D (Butter Creek at FR5290) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.74.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
26	**7792**	**2**	**Y**	**CISPUS RIVER**	**FB00IP**	**12.04**	**11N**	**07E**	**18**	**Temperature**	**Water**
				45 excursions beyond the criterion sampled by Gifford Pinchot National Forest in 1992 (Submitted by Curry Jones-EPA on 11/22/95).							
26	**7793**	**2**	**Y**	**CISPUS RIVER**	**FB00IP**	**70.848**	**11N**	**10E**	**25**	**Temperature**	**Water**
				38 excursions beyond the criterion sampled by Gifford Pinchot National Forest above Road 2160 in 1994 (submitted by Curry Jones -EPA on 11/22/95). Gifford Pinchot National Forest data (submitted by Claire Lavendel on December 16, 2002) shows a 7-DADM temperature of 14.2 at station (Cispus River at Road 2160 Crossing) for the period July 6 through September 20, 2000. Gifford Pinchot National Forest data (submitted by Claire Lavendel on December 16, 2002) shows a 7-DADM temperature of 13.9 at station (Cispus River at Road 2160 Crossing) for the period July 17 through September 24, 2000.							
26	**22198**	**2**	**N**	**CISPUS RIVER**	**FB00IP**	**18.055**	**11N**	**07E**	**15**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 17.4 degrees C from continuous measurements collected during 2000 at the station called 'Cispus River above Greenhorn Creek'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.8 degrees C with 34 days that exceeded the criterion from continuous measurements collected during 2000 at the station called 'Cispus River below Greenhorn Creek'.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
26	22202	2	N	**CISPUS RIVER** Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.5 degrees C with 28 days that exceeded the criterion from continuous measurements collected during 2000 at the station called 'Cispus River above Yellowjacket Creek'.	FB00IP 26.425 11N 08E 17	Temperature	Water	
26	7794	2	Y	**CISPUS RIVER, N.F.** 3 excursions beyond the criterion sampled by Gifford Pinchot National Forest on 8/14/92, 8/15/92 and 8/7/93 (submitted by Curry Jones-EPA on 11/22/95). Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.6 degrees C with 30 days that exceeded the criterion from continuous measurements collected during 2000 at the station called 'North Fork Cispus River near Cispus confluence'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15 degrees C from continuous measurements collected during 2002 at the station called 'North Fork Cispus River near Cispus confluence'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.2 degrees C from continuous measurements collected during 2001 at the station called 'North Fork Cispus River near Cispus confluence'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 13.9 degrees C from continuous measurements collected during 1999 at the station called 'North Fork Cispus River near Cispus confluence'.	TO54NT 0.097 11N 08E 15	Temperature	Water	
26	8780	2	N	**COLUMBIA RIVER** Tetra Tech, 1993 , 1 excursions beyond the national toxics rule criterion in the edible tissue of a single White Sturgeon at RM 67. Johnson, 2001 provides rationale that data from Tetra Tech, 1993, may be suspect and not representative of the actual conditions.	NN57SG 46122A9J1 46.095 122.915	Bis(2-ethylhexyl)phthalate	Tissue	
26	22214	2	N	**DAVIS CREEK** Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.3 degrees C with 19 days that exceeded the criterion from continuous measurements collected during 2002 at the station called 'Davis Creek near Forest Boundary'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.5 degrees C from continuous measurements collected during 2001 at the station called 'Davis Creek near Forest Boundary'.	VW64KY 1.809 12N 08E 09	Temperature	Water	
26	22505	2	N	**DAVIS LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 18 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	647LHL 32N 44E 31	Total Phosphorus	Water	
26	7798	2	Y	**GREEN RIVER** Washington Dept. of Fish and Wildlife data show (submitted by Hal Michael on 14 September 1995) numerous excursions beyond the criterion at the inflow to the Green River Hatchery.	KB88BE 6.326 10N 02E 02	Temperature	Water	Information submitted is insufficient to support a Category 5 listing. No raw data appear in the reference. Listing will be placed in waters of concern category until further monitoring verifies the status of the water.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
26	**15637**	**2**	**N**	**GREEN RIVER**	**KB88BE**	**47.879**	**10N**	**06E**	**18**	**Temperature**	**Water**
				Raforth, et al. 2002. show 1 excursion beyond the criterion from samples collected in 2000 and 2001.							
26	**8260**	**2**	**N**	**KIONA CREEK**	**PY37SH**	**4.321**	**12N**	**06E**	**14**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station R0CE99-106 (KIONA CR) shows excursions beyond the criterion from measurements made in 2000.							
26	**22238**	**2**	**N**	**LILLIAN CREEK**	**MK24BL**	**0**	**13N**	**09E**	**30**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.2 degrees C with 20 days that exceeded the criterion from continuous measurements collected during 2002 at the station called 'Lillian Creek at Willame Creek confluence'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 13.9 degrees C from continuous measurements collected during 2001 at the station called 'Lillian Creek at Willame Creek confluence'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 14.9 degrees C from continuous measurements collected during 2000 at the station called 'Lillian Creek at Willame Creek confluence'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 14.2 degrees C from continuous measurements collected during 1999 at the station called 'Lillian Creek at Willame Creek confluence'.							
26	**22338**	**2**	**N**	**OHANAPECOSH CREEK**	**PB22UX**	**9.536**	**15N**	**10E**	**28**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 35D (Ohanapecosh R) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.73 , but the site is a reference site with minimal human disturbance and more definitive information is needed to determine if the segment is actually impaired.							
26	**22252**	**2**	**N**	**PINTO CREEK**	**KB81QX**	**0**	**10N**	**08E**	**18**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.2 degrees C with 19 days that exceeded the criterion from continuous measurements collected during 2001 at the station called 'Pinto Creek at Yellowjacket confluence'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 13.6 degrees C from continuous measurements collected during 2002 at the station called 'Pinto Creek at Yellowjacket confluence'.							
26	**22254**	**2**	**N**	**QUARTZ CREEK**	**YI75OT**	**1.579**	**11N**	**06E**	**15**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.3 degrees C with 20 days that exceeded the criterion from continuous measurements collected during 2002 at the station called 'Quartz Creek near Forest Boundary'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.9 degrees C with 35 days that exceeded the criterion from continuous measurements collected during 2001 at the station called 'Quartz Creek near Forest Boundary'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.4 degrees C with 18 days that exceeded the criterion from continuous measurements collected during 2000 at the station called 'Quartz Creek near Forest Boundary'.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
26	**22259**	**2**	**N**	**SILVER CREEK**	**CT81WJ**	**6.505**	**13N**	**07E**	**27**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 16 degrees C with 38 days that exceeded the criterion from continuous measurements collected during 2001 at the station called 'Silver Creek Below Lake Crk'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 14.6 degrees C from continuous measurements collected during 1999 at the station called 'Silver Creek Below Lake Crk'.							
26	**22339**	**2**	**N**	**SIMMONS CREEK**	**ZI58RQ**	**3.955**	**12N**	**04E**	**17**	**Bioassessment**	**Other**
				Plotnikoff and Wiseman, 2002, at station 43D (Simmons Cr) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.84. Plotnikoff and Wiseman, 2002, at station 44D (Simmons Cr) show definitive biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.84.						This listing was previously placed on Category 4C for biological data in accordance with Policy 1-11. The listing has been moved to Category 2 based on recommendations from EPA, since the data is insufficient to determine if the biological impairment is from a pollutant or pollution. Additional monitoring needs to occur before the sources of impairment can be identified. -kk	
26	**11736**	**2**	**N**	**SKATE CREEK**	**OF15BJ**	**2.796**	**13N**	**09E**	**08**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station R0CE99-046 (SKATE CR) shows excursions beyond the criterion from measurements made in 2000.							
26	**11717**	**2**	**N**	**UNNAMED CREEK**	**EX69DB**	**0**	**11N**	**08E**	**18**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station R0CE99-107 (UNNAMED CREEK) shows excursions beyond the criterion from measurements made in 2000.							
26	**7806**	**2**	**Y**	**WILLAME CREEK**	**YV88LF**	**1.237**	**13N**	**09E**	**21**	**Temperature**	**Water**
				6 excursions beyond the criterion sampled between 7/1/96 and 9/1/96 sampled by Gifford Pinchot National Forest (submitted by Jon Gier on 10/29/97)						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
26	**22272**	**2**	**N**	**WILLAME CREEK**	**FL46XG**	**0.078**	**13N**	**09E**	**31**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.9 degrees C with 40 days that exceeded the criterion from continuous measurements collected during 2001 at the station called 'Willame Creek near Forest Boundary'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.2 degrees C with 17 days that exceeded the criterion from continuous measurements collected during 2000 at the station called 'Willame Creek near Forest Boundary'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 14.6 degrees C from continuous measurements collected during 2002 at the station called 'Willame Creek near Forest Boundary'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 14.5 degrees C from continuous measurements collected during 1999 at the station called 'Willame Creek near Forest Boundary'.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
26	**7807**	**2**	**N**	**WOODS CREEK**	**DK37GG**	**1.71**	**11N**	**07E**	**07**	**Temperature**	**Water**
				1 excursion beyond the criterion sampled by Gifford Pinchot National Forest on 6/29/95 (submitted by Curry Jones -EPA on 11/22/95). Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15 degrees C from continuous measurements collected during 1999 at the station called 'Woods Creek near Forest Boundary'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15 degrees C from continuous measurements collected during 1999 at the station called 'Woods Creek near Forest Boundary'.						Continuous temperature measurements were taken, but data were previously submitted only in hardcopy form.	
26	**19866**	**2**	**N**	**YELLOWJACKET CREEK**	**EP57TV**	**6.571**	**11N**	**08E**	**33**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a 7-day mean of daily maximum value of 15.7 degrees C with 39 days that exceeded the criterion from continuous measurements collected during 2001 at the station called 'Yellowjacket Creek above McCoy Creek'.							
27	**11749**	**2**	**N**	**ALEC CREEK**	**HR75KX**	**0.468**	**08N**	**075E**	**13**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station R0CE99-017 (ALEC CREEK) shows excursions beyond the criterion from measurements made in 2000.							
27	**37837**	**2**	**N**	**CANYON CREEK**	**QX35PY**	**14.44**	**05N**	**05E**	**17**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows temperature was exceeded in 2 separate years from measurements collected during 1997-1998,2001-2002 at the station called 'Above Big Rock Creek'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a maximum 7-day mean of daily maximum values of 14.3 degrees C from continuous measurements collected during 1997-1998,2001-2002 at the station called 'Above Big Rock Creek'.							
27	**9548**	**2**	**N**	**CEDAR CREEK**	**CP21GZ**	**3.928**	**05N**	**02E**	**08**	**pH**	**Water**
				Summers (2001) station SRIW2703 (WATER QUALITY AT GRIST MILL/TRAP) shows 1 excursions beyond the criterion out of 8 samples collected between 10/00 - 09/01.							
27	**11039**	**2**	**N**	**CEDAR CREEK**	**CP21GZ**	**0.04**	**05N**	**01E**	**12**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 27E070 (CEDAR CR NR ETNA) shows 2 excursions beyond the criterion out of 10 samples collected between 1993 - 2001 measured on these dates: 95/06/28, 95/07/26,							
27	**22001**	**2**	**N**	**CHELATCHIE CREEK**	**BE86AL**	**0**	**05N**	**03E**	**16**	**Dissolved oxygen**	**Water**
				Clark County unpublished data from station CHL010 (Chelhatchie Creek at SR 503) show excursions beyond the criterion from measurements collected in 2002.							
27	**37841**	**2**	**N**	**CLEAR CREEK**	**KD11RD**	**6.108**	**08N**	**07E**	**20**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows temperature was exceeded in 1 separate years from measurements collected during 1997 at the station called 'Below Spencer Butte'.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
27	**7808**	**2**	**N**	**CLEARWATER CREEK**	**SA80NM**	**0**	**08N**	**06E**	**23**	**Temperature**	**Water**
				134 excursions beyond the criterion at USFS STORET station 03070501 between 7/1/87 and 7/1/91 60 excursions beyond the criterion at USFS STORET station 03070708 between 7/1/87 and 7/1/91. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows temperature was exceeded in 1 separate years from measurements collected during 1998 at the station called 'Above confluence w/ Muddy River'.						The USFS data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. During the 1998 listing cycle, the USFS STORET contact (Margaret Connelly) was asked to verify that these criteria were met for the data used as a basis for listing. USFS did not verify that these data meet the quality assurance criteria.	
27	**8784**	**2**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**46122A8A5**	**46.005**	**122.855**		**4,4'-DDE**	**Tissue**
				Tetra Tech, 1993, 2 excursions beyond the national toxics rule criterion in the edible tissue of a White Sturgeon at RM 75.						WQ Policy 1-11 requires that a tissue smaple be placed on the 303(d) list when either an average of the three single-fish samples or a composite sample made up of at least 5 fish be used. A segment is placed on the Waters of Concern category when any one tissue sample exceeds the criteria.	
27	**8787**	**2**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**45122J8A0**	**45.905**	**122.805**		**Arsenic**	**Water**
				Fuhrer, et al. 1996. , 4 excursions beyond the National Toxic Rule criterion near Columbia City						The measured data represent total arsenic and thus cannot be used to apply to National Toxic Rule criterion which applys only to inorganic arsenic. This listing will be placed on the waters of concern category until further verification is done.	
27	**8781**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**46122A8A5**	**46.005**	**122.855**		**Bis(2-ethylhexyl)phthalate**	**Tissue**
				Tetra Tech, 1993 , 1excursion beyond the national toxics rule criterion in the edible tissue of a single White Sturgeon at RM 75. Johnson, 2001 provides rationale that data from Tetra Tech, 1993, may be suspect and not representative of the actual conditions.							
27	**7810**	**2**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**45122J8A0**	**45.905**	**122.805**		**Temperature**	**Water**
				Fuhrer, et al. 1996. , 2 excursions beyond the criterion out of 12 samples (16%) near Columbia City during 1994.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water. EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	
27	**11756**	**2**	**N**	**COPPER CREEK**	**SP80TK**	**4.837**	**04N**	**05E**	**32**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station R0CE99-116 (COPPER CREEK) shows excursions beyond the criterion from measurements made in 2000.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
27	**11745**	**2**	**N**	**CURLEY CREEK**	**OW39DP**	**1.555**	**07N**	**07E**	**33**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station R0CE99-117 (CURLY CREEK) shows excursions beyond the criterion from measurements made in 2000.							
27	**22002**	**2**	**N**	**GEE CREEK**	**FH67KG**	**9.452**	**04N**	**01E**	**29**	**Dissolved oxygen**	**Water**
				Clark County unpublished data from station GEE050 (Gee Cr dnstrm of Royle Road) show excursions beyond the criterion from measurements collected in 2002.							
27	**11043**	**2**	**N**	**GEE CREEK**	**FH67KG**	**7.267**	**04N**	**01E**	**37**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 27F070 (Gee Cr @ Ridgefield) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 95/06/28,							
27	**21998**	**2**	**N**	**GEE CREEK**	**FH67KG**	**9.452**	**04N**	**01E**	**29**	**Temperature**	**Water**
				Clark County unpublished data from station GEE050 (Gee Cr dnstrm of Royle Road) show excursions beyond the criterion from measurements collected in 2002.							
27	**37838**	**2**	**N**	**GREEN FORK CREEK**	**YK91IO**	**1.936**	**04N**	**05E**	**13**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows temperature was exceeded in 2 separate years from measurements collected during 1996-2002 at the station called 'One Mile above East Fork'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a maximum 7-day mean of daily maximum values of 13.8 degrees C from continuous measurements collected during 1996-2002 at the station called 'One Mile above East Fork'. Department of Ecology unpublished data from EMAP station R0CE99-016 (GREEN FORK CREEK) shows no excursions beyond the criterion from measurements made in 1999. Department of Ecology unpublished data from EMAP station R0CE99-016 (GREEN FORK CREEK) shows no excursions beyond the criterion from measurements made in 1999. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows temperature was exceeded in 2 separate years from measurements collected during 1996-2002 at the station called 'One Mile above East Fork'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a maximum 7-day mean of daily maximum values of 13.8 degrees C from continuous measurements collected during 1996-2002 at the station called 'One Mile above East Fork'.							
27	**15640**	**2**	**N**	**GREEN RIVER**	**KB88BE**	**49.818**	**10N**	**06E**	**17**	**pH**	**Water**
				Raforth, et al. 2002, show 1 excursion beyond the criterion from samples collected in 2000 and 2001. Department of Ecology unpublished data from EMAP station R0CE99-042 (GREEN R) shows no excursions beyond the criterion from measurements made in 1999.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
27	**7814**	**2**	**Y**	**HATCHERY (FALLERT) CREEK**	**FX65ID**	**0**	**07N**	**01W**	**34**	**Temperature**	**Water**
				Washington Dept. of Fish and Wildlife data show (submitted by Hal Michael on 14 September 1995) numerous excursions beyond the criterion at the inflow to the Lower Kalama Hatchery.						Information submitted is insufficient to support a Category 5 listing. No raw data appear in the reference. Listing will be placed in waters of concern category until further monitoring verifies the status of the water.	
27	**16773**	**2**	**N**	**KALAMA RIVER**	**QB31IV**	**4.11**	**07N**	**01W**	**32**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 27B070 shows 1 of 4 samples (25%) in year 2001 exceeded the percentile criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 27B070 (Kalama R. near Kalama) shows a geometric mean of 9 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 2001, with only 1 sample that exceeds the percentile criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 27B070 (Kalama R. near Kalama) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 2000. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 27B070 (Kalama R. near Kalama) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 15 samples collected during 1999. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 27B070 (Kalama R. near Kalama) shows a geometric mean of 10 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1998. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 27B070 (Kalama R. near Kalama) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1997. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 27B070 (Kalama R. near Kalama) shows a geometric mean of 8 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1996. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 27B070 (Kalama R. near Kalama) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected during 1995. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 27B070 (Kalama R. near Kalama) shows a geometric mean of 22 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 1 samples collected during 1994.							
27	**37829**	**2**	**N**	**LEWIS RIVER**	**CP62CH**	**107.34**	**08N**	**07E**	**25**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows temperature was exceeded in 2 separate years from measurements collected during 1996-1997 at the station called 'Below Crab Creek'.							
27	**37843**	**2**	**N**	**LEWIS RIVER**	**CP62CH**	**104.968**	**08N**	**07E**	**35**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows temperature was exceeded in 1 separate years from measurements collected during 1998-1999,2002 at the station called 'Below Cussed Hollow Creek'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a maximum 7-day mean of daily maximum values of 12.9 degrees C from continuous measurements collected during 1998-1999,2002 at the station called 'Below Cussed Hollow Creek'.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
27	**6544**	**2**	**N**	**LEWIS RIVER**	**CP62CH**	**51.141**	**06N**	**04E**	**31**	**Total Dissolved Gas**	**Water**
				Unpublished data from Cowlitz PUD station M2 (~0.75 mi downstream of Yale powerhouse, near confluence with Canyon Creek) shows the the criterion was exceeded 1 out of 35 days measured during 2000. Unpublished data from Cowlitz PUD station M3 (Upstream of Hwy 503 bridge) shows the the criterion was exceeded 0 out of 35 days measured during 2000.							
27	**7817**	**2**	**Y**	**LEWIS RIVER, E.F.**	**EI60MF**	**3.951**	**04N**	**01E**	**03**	**Temperature**	**Water**
				Hutton (1994) show 5 excursions beyond the criterion at the Pollack Road station on 7 8/91, 8/5/91, 10/1/91, 7/6/92 and 8/3/92.						The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
27	**37835**	**2**	**N**	**LEWIS RIVER, E.F.**	**EI60MF**	**56.87**	**04N**	**05E**	**15**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows temperature was exceeded in 2 separate years from measurements collected during 2001-2002 at the station called 'Below Green Fork'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a maximum 7-day mean of daily maximum values of 15.5 degrees C from continuous measurements collected during 2001-2002 at the station called 'Below Green Fork'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows temperature was exceeded in 1 separate years from measurements collected during 1999-2001 at the station called 'Below Little Creek'.							
27	**7820**	**2**	**N**	**LOCKWOOD CREEK**	**YD45JI**	**1.579**	**04N**	**01E**	**01**	**Temperature**	**Water**
				Hutton (1994) shows 1 excursion beyond the criterion at the Lockwood Creek Road station on 8/3/92.							
27	**7821**	**2**	**Y**	**MCCORMICK CREEK**	**GF76XA**	**1.841**	**04N**	**01E**	**09**	**Temperature**	**Water**
				Hutton (1994) shows 2 excursions beyond the criterion at the NW LaCenter Road station on 8/5/91 and 8/3/92.						The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
27	**7823**	**2**	**N**	**MUDDY RIVER**	**GU87UX**	**2.334**	**07N**	**06E**	**13**	**Temperature**	**Water**
				131 excursions beyond the criterion at USFS STORET station 03070500 between 7/1/87 and 7/1/91						The USFS data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. During the 1998 listing cycle, the USFS STORET contact (Margaret Connelly) was asked to verify that these criteria were met for the data used as a basis for listing. USFS did not verify that these data meet the quality assurance criteria.	
27	**22003**	**2**	**N**	**ROCK CREEK**	**XD64JB**	**5.112**	**05N**	**02E**	**36**	**Dissolved oxygen**	**Water**
				Clark County unpublished data from station RCN050 (Rock Cr North upstrm of Gabriel Road) show excursions beyond the criterion from measurements collected in 2002.							
27	**37836**	**2**	**N**	**SLIDE CREEK**	**TC31GW**	**0**	**04N**	**05E**	**17**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows temperature was exceeded in 2 separate years from measurements collected during 2001-2002 at the station called '.25 Miles above East Fork'. Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows a maximum 7-day mean of daily maximum values of 15.1 degrees C from continuous measurements collected during 2001-2002 at the station called '.25 Miles above East Fork'.							
27	**37839**	**2**	**N**	**SMITH CREEK**	**DE19GG**	**0**	**08N**	**06E**	**15**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows temperature was exceeded in 1 separate years from measurements collected during 1998 at the station called 'Above Muddy confluence'.							
27	**6534**	**2**	**N**	**SWIFT CREEK #2 POWER CANAL**	**IN95IE**	**3.684**	**07N**	**04E**	**25**	**Total Dissolved Gas**	**Water**
				Unpublished data from Cowlitz PUD station S4 (Swift #2 Intake) shows the the criterion was exceeded 2 out of 10 days measured during 2000.							
27	**6537**	**2**	**N**	**YALE LAKE**	**559FAP**	**46122A2F6**		**46.055**	**122.265**	**Total Dissolved Gas**	**Water**
				Unpublished data from Cowlitz PUD station Y2 (~0.25 mi downstream of Swift #2 powerhouse) shows the the criterion was exceeded 1 out of 10 days measured during 2000.							
27	**6538**	**2**	**N**	**YALE LAKE**	**559FAP**	**46122A2F8**		**46.055**	**122.285**	**Total Dissolved Gas**	**Water**
				Unpublished data from Cowlitz PUD station Y3 (Beaver Bay Park Campground) shows the the criterion was exceeded 4 out of 43 days measured during 2000.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
28	7843	2	Y	**BURNT BRIDGE CREEK** Clark County data (submitted by Carl Addy on 10/6/93) 2 excursions beyond the criterion at Burton Road station on 7/22/91 and 9/15/92	GB90VP 20.222 02N 02E 66	Dissolved oxygen	Water	This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired. City of Longview analysis from Bob Gregory dated 12 December 2002 suggests the low oxygen concentration is a natural condition due to groundwater infiltration and iron concentrations. Ecology staff reviewed this listing in 2003 for natural conditions, but could not rule out the possibility that human activities contributed to the excursion(s).
28	7833	2	Y	**BURNT BRIDGE CREEK** Gaddis, 1994. 4 excursions beyond the criterion out of 36 samples (11%) at station BBC2 between 1/91 and 12/93.;	GB90VP 16.32 02N 01E 38	pH	Water	A reassessment of data indicates that four exceedances out of 36 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water.
28	7834	2	N	**BURNT BRIDGE CREEK** Clark County data (submitted by Carl Addy on 10/6/93) show 1 excursion beyond the criterion on 8/6/92 at the 18th Street station	GB90VP 18.38 02N 02E 60	pH	Water	
28	7859	2	N	**BURNT BRIDGE CREEK** Clark County data (submitted by Carl Addy on 10/6/93) show 1 excursion beyond the criterion on 11/5/92 at the Burton Road station	GB90VP 20.222 02N 02E 66	pH	Water	
28	7861	2	N	**BURNT BRIDGE CREEK** Clark County data (submitted by Carl Addy on 10/6/93) show 1 excursion beyond the criterion on 11/5/92 112th Ave stations.	GB90VP 23.563 02N 02E 69	pH	Water	
28	7849	2	Y	**BURNT BRIDGE CREEK** Gaddis, 1994. , 9 excursions beyond the criterion out of 37 samples (24%) at station BBC4 in 1991 and 1993	GB90VP 20.389 02N 02E 67	Temperature	Water	The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
28	**7851**	**2**	**Y**	**BURNT BRIDGE CREEK**	**GB90VP**	**20.222**	**02N**	**02E**	**66**	**Temperature**	**Water**
				Clark County data (submitted by Carl Addy on 10/6/93) show 1 excursion at Burton Road station on 8/6/91						The 1998 303(d) listing was based on 1973 data. More recent data from 1991 indicates one excursion in one year, which is insufficient to determine persistent temperature impairment and does not meet the WQ Program Policy 1-11 (updated 9/02). Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
28	**7853**	**2**	**Y**	**BURNT BRIDGE CREEK**	**GB90VP**	**23.563**	**02N**	**02E**	**69**	**Temperature**	**Water**
				Clark County data (submitted by Carl Addy on 10/6/93) show 4 excursions beyond the criterion at 112th Ave station between 6/18/91 and 8/6/91						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
28	**7864**	**2**	**N**	**CHINA DITCH**	**QY97TT**	**0**	**02N**	**03E**	**06**	**Fecal Coliform**	**Water**
				Lafer, 1994, 1 excursion beyond the upper criterion at station A3 (at Ward Road-172nd Ave Bridge) on 4/5/92 out of 2 samples.							
28	**7867**	**2**	**N**	**CHINA DITCH**	**QY97TT**	**0**	**02N**	**03E**	**06**	**pH**	**Water**
				Lafer, 1994, 2 excursions beyond the criterion out of 21 samples (9%) at station A3 (at Ward Road - 172nd Ave Bridge) between 1991 and 1992.							
28	**8795**	**2**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**45122G0C1**	**45.625**	**122.015**		**Arsenic**	**Water**
				Fuhrer, et al. 1996. , 4 excursions beyond the National Toxic Rule criterion at Warrendale						The measured data represent total arsenic and thus cannot be used to apply to National Toxic Rule criterion which applys only to inorganic arsenic. This listing will be placed on the waters of concern category until further verification is done.	
28	**8796**	**2**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**45122G7E4**	**45.645**	**122.745**		**Arsenic**	**Water**
				Fuhrer, et al. 1996. , 4 excursions beyond the National Toxic Rule criterion at Hayden Island						The measured data represent total arsenic and thus cannot be used to apply to National Toxic Rule criterion which applys only to inorganic arsenic. This listing will be placed on the waters of concern category until further verification is done.	
28	**8792**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45122G6C8**	**45.625**	**122.685**		**Bis(2-ethylhexyl)phthalate**	**Tissue**
				Tetra Tech, 1993 , 1 excursion beyond the national toxics rule criterion in the edible tissue of a single White Sturgeon at RM 115. Johnson, 2001 provides rationale that data from Tetra Tech, 1993, may be suspect and not representative of the actual conditions.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
28	**6706**	**2**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**45122G6C8**	**45.625**	**122.685**	**Fecal Coliform**	**Water**
				Hoyle-Dodson, 1994., the high fecal coliform concentrations in the effluent sampled may pose problems in the receiving water from the Boise Cascade Paper Mill discharge.					Listing was not based on exceedance of actual data and therefore cannot be adequately assessed for impairment; water will be placed on Waters of Concern category until further verification is done.	
28	**7870**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45122F4I8**	**45.585**	**122.485**	**pH**	**Water**
				Hallock and Ehinger, 1993. 2 excursions beyond the criterion out of 7 samples (28%) collected at RM 115.0 between 9/92 and 10/92.					A comment submitted by Ken Johnson of Weyerhaeuser on 10/29/97 states that since the location of the station is not near a point source discharge, that the excursions beyond the criterion likely represent a natural condition. Dave Hallock (Dept. of Ecology on 1/22/98) concurs with the comment since the samples showing high pH values were taken along the bank and likely show effects of productivity from shoreline vegetation. Ecology staff reviewed this listing in 2003 for natural conditions, but could not rule out the possibility that human activities contributed to the excursion(s).	
28	**7872**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45122G0B1**	**45.615**	**122.015**	**Temperature**	**Water**
				Johnson and Hopkins, 1991. 1 excursion beyond the criterion at Warrendale on 9/25/90.					EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	
28	**7873**	**2**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**45122G0C1**	**45.625**	**122.015**	**Temperature**	**Water**
				Fuhrer, et al. 1996. , 2 excursions beyond the criterion out of 11 samples (18%) at Warrendale during 1994.					The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water. EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	
28	**7874**	**2**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**45122G6C9**	**45.625**	**122.695**	**Temperature**	**Water**
				Fuhrer, et al. 1996. , 2 excursions beyond the criterion out of 14 samples (14%) at Hayden Island during 1994					The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water. EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
28	**7884**	**2**	**N**	**COLUMBIA RIVER** Hallock and Ehinger, 1993. 1 excursion beyond the criterion out of 5 samples at Sauvie Island (RM 95.9) on 9/1/92.	**NN57SG**	**45122H7A6**	**45.705**	**122.765**		**Temperature**	EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	**Water**
28	**7885**	**2**	**N**	**COLUMBIA RIVER** Hallock and Ehinger, 1993. 1 excursion beyond the criterion out of 5 samples at Kelly Point (RM 102) on 9/1/92.	**NN57SG**	**45122G7F6**	**45.655**	**122.765**		**Temperature**	EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	**Water**
28	**7886**	**2**	**N**	**COLUMBIA RIVER** Hallock and Ehinger, 1993. 1 excursion beyond the criterion out of 5 samples at 148th and Marine (RM 115) on 9/2/92.	**NN57SG**	**45122F3E1**	**45.545**	**122.315**		**Temperature**	EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	**Water**
28	**7887**	**2**	**N**	**COLUMBIA RIVER** Hallock and Ehinger, 1993. 1 excursion beyond the criterion out of 5 samples at Rooster Rock State Park (RM 128) on 9/2/92.	**NN57SG**	**45122F2F1**	**45.555**	**122.215**		**Temperature**	EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	**Water**
28	**7888**	**2**	**N**	**COLUMBIA RIVER** Hallock and Ehinger, 1993. 1 excursion beyond the criterion out of 5 samples at The Fishery Resort (RM 140.6) on 9/2/92.	**NN57SG**	**45122G0B2**	**45.615**	**122.025**		**Temperature**	EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	**Water**
28	**7889**	**2**	**Y**	**COUGAR CANYON CREEK** Crawford, 1987. 2 excursions beyond the criterion at RM 2.4 on 9/16/86 and 9/17/86.	**RU61ZG**	**3.804**	**02N**	**01E**	**37**	**Dissolved oxygen**	This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
28	**22060**	**2**	**N**	**COUGAR CREEK** Clark County unpublished data from station CGR020 (Cougar Cr upstrm of NW 119th Street) show 1 excursion beyond the chronic criterion from 51 measurements collected 1998-2002. Clark County unpublished data from station CGR020 (Cougar Cr upstrm of NW 119th Street) show no excursions beyond the criterion from measurements collected in 2002. Clark County unpublished data from station CGR050 (Cougar Cr dnstrm of NW 99th Street) show no excursions beyond the criterion from measurements collected in 2002.	**RU61ZG**	**1.184**	**03N**	**01E**	**34**	**pH**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
28	**7891**	**2**	**Y**	**COWPIE CREEK**	**KE32SQ**	**0.051**	**03N**	**02E**	**25**	**Dissolved oxygen**	**Water**
				Lafer, 1994, 2 excursions beyond the criterion out of 7 samples (25%) at station D1 (Cowpie Creek at 172nd Ave)) during 1991 and 1992.						This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
28	**7895**	**2**	**Y**	**DWYER CREEK**	**YQ90IX**	**7.672**	**02N**	**03E**	**50**	**pH**	**Water**
				Lafer, 1994, 2 excursions beyond the criterion out of 8 samples (25%) at station C5 (at 1st St. on Dwyer Creek) between 1991 and 1992.						This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
28	**7893**	**2**	**N**	**DWYER CREEK**	**YQ90IX**	**7.672**	**02N**	**03E**	**50**	**Temperature**	**Water**
				Lafer, 1994, 1 excursions beyond the criterion out of 8 samples (12%) at station C5 (at 1st St on Dwyer Creek) between 1991 and 1992.							
28	**22115**	**2**	**N**	**FIFTH PLAIN CREEK**	**QO04UK**	**8.654**	**03N**	**03E**	**21**	**Dissolved oxygen**	**Water**
				Clark County unpublished data from a diel study at station FPL080 (Fifth Plain Cr at NE 212th Avenue) measured excursions beyond the criterion on 30 August 2001.							
28	**7903**	**2**	**Y**	**FIFTH PLAIN CREEK**	**QO04UK**	**0.162**	**02N**	**03E**	**07**	**Fecal Coliform**	**Water**
				Lafer, 1994, 1 excursion beyond the upper criterion at station A2 (at Fourth Plain Road Bridge) on 4/5/92 out of 2 samples.						This segment was incorrectly listed in 1998 based on one exceedance. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.	
28	**7904**	**2**	**Y**	**FIFTH PLAIN CREEK**	**QO04UK**	**3.413**	**02N**	**03E**	**06**	**Fecal Coliform**	**Water**
				Lafer, 1994, 1 excursion beyond the upper criterion at station A4 (at Ward Road-172nd Ave) on 4/5/92 out of 2 samples.						This segment was incorrectly listed in 1998 based on one exceedance. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
28	**7905**	**2**	**Y**	**FIFTH PLAIN CREEK**	**QO04UK 4.833 03N 03E 32**	**Fecal Coliform**	**Water**
				Lafer, 1994, 1 excursion beyond the upper criterion at station C3 (at Davis Road Bridge) on 12/17/91 out of 2 samples.		This segment was incorrectly listed in 1998 based on one exceedance. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.	
28	**7896**	**2**	**Y**	**FIFTH PLAIN CREEK**	**QO04UK 0.162 02N 03E 07**	**pH**	**Water**
				Clark County data (submitted by Carl Addy on 10/6/93) show 3 excursions beyond the criterion out of 24 samples at the NE Fourth Plain Road station on 11/6/91, 12/5/91, and 12/6/91.;		A reassessment of data indicates that three exceedances out of 24 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
28	**7902**	**2**	**Y**	**FIFTH PLAIN CREEK**	**QO04UK 4.833 03N 03E 32**	**pH**	**Water**
				Lafer, 1994, 2 excursions beyond the criterion out of 19 samples (11%) at station C3 (at Davis Road Bridge) between 1991 and 1992.		This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
28	**7909**	**2**	**Y**	**FIFTH PLAIN CREEK**	**QO04UK 3.413 02N 03E 06**	**pH**	**Water**
				Lafer, 1994, 3 excursions beyond the criterion out of 19 samples (16%) at station A4 (at Ward Road - 172nd Ave Bridge) between 1991 and 1992.		A reassessment of data indicates that three exceedances out of 19 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
28	**7898**	**2**	**N**	**FIFTH PLAIN CREEK**	**QO04UK 0.162 02N 03E 07**	**Temperature**	**Water**
				Lafer, 1994, 1 excursion beyond the criterion out of 21 samples (5%) at station A2 (at Fourth Plain Road Bridge) between 1991 and 1992.		A single excursion beyond the criterion does not meet the Water Quality Program policy for listing.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
28	**22109**	**2**	**N**	**FIFTH PLAIN CREEK**	**QO04UK**	**8.654**	**03N**	**03E**	**21**	**Temperature**	**Water**
				Clark County unpublished data from a diel study at station FPL080 (Fifth Plain Cr at NE 212th Avenue) measured excursions beyond the criterion on 30 August 2001.							
28	**22784**	**2**	**N**	**FRANZ LAKE**	**882FFA**	**01N**	**06E**	**05**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 127 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.							
28	**9556**	**2**	**N**	**GIBBONS CREEK REMNANT CHANNEL**	**PD70YC**	**2.36**	**01N**	**04E**	**47**	**Arsenic**	**Water**
				Erickson (1996) station Gib-1 (Gibbons Creek Remnant Channel (RC1)) shows 1 excursions beyond the criterion out of 1 samples collected between 08/94 - 01/95.							
				Erickson (1996) station Gib-2 (Gibbons Creek Remnant Channel (RC2)) shows 1 excursions beyond the criterion out of 1 samples collected between 08/94 - 01/95.							
28	**9558**	**2**	**N**	**GIBBONS CREEK REMNANT CHANNEL**	**PD70YC**	**1.261**	**01N**	**04E**	**16**	**Arsenic**	**Water**
				Erickson (1996) station Gib-3 (Gibbons Creek Remnant Channel (RC3)) shows 1 excursions beyond the criterion out of 1 samples collected between 08/94 - 01/95.							
28	**9559**	**2**	**N**	**GIBBONS CREEK REMNANT CHANNEL**	**PD70YC**	**0.079**	**01N**	**04E**	**16**	**Arsenic**	**Water**
				Erickson (1996) station Gib-4 (Gibbons Creek Remnant Channel (RC4)) shows 1 excursions beyond the criterion out of 1 samples collected between 08/94 - 01/95.							
28	**9561**	**2**	**N**	**GIBBONS CREEK REMNANT CHANNEL**	**PD70YC**	**2.36**	**01N**	**04E**	**47**	**Chromium**	**Water**
				Erickson (1996) station Gib-1 (Gibbons Creek Remnant Channel (RC1)) shows 1 excursions beyond the criterion out of 3 samples collected between 08/94 - 01/95.							
				Erickson (1996) station Gib-2 (Gibbons Creek Remnant Channel (RC2)) shows 1 excursions beyond the criterion out of 3 samples collected between 08/94 - 01/95.							
28	**9565**	**2**	**N**	**GIBBONS CREEK REMNANT CHANNEL**	**PD70YC**	**2.137**	**01N**	**04E**	**50**	**Chromium**	**Water**
				Erickson (1996) station Gib-5 (Gibbons Creek Remnant Channel (SS1)) shows 3 excursions beyond the criterion out of 3 samples collected between 08/94 - 01/95.					Data collected did not employ clean metals techniques, and therefore is listed in Category 2.		
28	**9570**	**2**	**N**	**GIBBONS CREEK REMNANT CHANNEL**	**PD70YC**	**1.261**	**01N**	**04E**	**16**	**Dissolved oxygen**	**Water**
				Erickson (1996) station Gib-3 (Gibbons Creek Remnant Channel (RC3)) shows 2 excursions beyond the criterion measured on these dates: 94/09/07, 94/11/29,							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
28	**9571**	**2**	**N**	**GIBBONS CREEK REMNANT CHANNEL**	**PD70YC**	**0.079**	**01N**	**04E**	**16**	**Dissolved oxygen**	**Water**
				Erickson (1996) station Gib-4 (Gibbons Creek Remnant Channel (RC4)) shows 2 excursions beyond the criterion measured on these dates: 94/09/07, 94/11/29,							
28	**9572**	**2**	**N**	**GIBBONS CREEK REMNANT CHANNEL**	**PD70YC**	**2.36**	**01N**	**04E**	**47**	**Dissolved oxygen**	**Water**
				Erickson (1996) station Gib-1 (Gibbons Creek Remnant Channel (RC1)) shows 1 excursions beyond the criterion measured on these dates: 94/11/29,							
				Erickson (1996) station Gib-2 (Gibbons Creek Remnant Channel (RC2)) shows 1 excursions beyond the criterion measured on these dates: 94/11/29,							
28	**9591**	**2**	**N**	**GIBBONS CREEK REMNANT CHANNEL**	**PD70YC**	**2.137**	**01N**	**04E**	**50**	**pH**	**Water**
				Erickson (1996) station Gib-5 (Gibbons Creek Remnant Channel (SS1)) shows 1 excursions beyond the criterion out of 2 samples collected between 08/94 - 01/95.							
28	**9592**	**2**	**N**	**GIBBONS CREEK REMNANT CHANNEL**	**PD70YC**	**2.36**	**01N**	**04E**	**47**	**Temperature**	**Water**
				Erickson (1996) station Gib-1 (Gibbons Creek Remnant Channel (RC1)) shows 1 excursions beyond the criterion measured on these dates: 94/09/07,							
				Erickson (1996) station Gib-2 (Gibbons Creek Remnant Channel (RC2)) shows 0 excursions beyond the criterion out of 3 samples collected between 08/94 - 01/95.							
				Erickson (1996) station Gib-2 (Gibbons Creek Remnant Channel (RC2)) shows 0 excursions beyond the criterion out of 3 samples collected between 08/94 - 01/95.							
				Erickson (1996) station Gib-1 (Gibbons Creek Remnant Channel (RC1)) shows 1 excursions beyond the criterion measured on these dates: 94/09/07,							
28	**9593**	**2**	**N**	**GIBBONS CREEK REMNANT CHANNEL**	**PD70YC**	**1.261**	**01N**	**04E**	**16**	**Temperature**	**Water**
				Erickson (1996) station Gib-3 (Gibbons Creek Remnant Channel (RC3)) shows 1 excursions beyond the criterion measured on these dates: 94/09/07,							
28	**9594**	**2**	**N**	**GIBBONS CREEK REMNANT CHANNEL**	**PD70YC**	**0.079**	**01N**	**04E**	**16**	**Temperature**	**Water**
				Erickson (1996) station Gib-4 (Gibbons Creek Remnant Channel (RC4)) shows 1 excursions beyond the criterion measured on these dates: 94/09/07,							
28	**22508**	**2**	**N**	**GREENLEAF LAKE**	**694IQM**	**02N**	**07E**	**20**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.							
28	**22092**	**2**	**N**	**JONES CREEK**	**HG04SC**	**2.266**	**02N**	**04E**	**03**	**pH**	**Water**
				Clark County unpublished data from station JNS060 (Jones Cr upstream of Camas water intake) show 2 excursions beyond the criterion from 9 measurements collected in 2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
28	**7927**	**2**	**N**	**LACAMAS CREEK** Lafer, 1994, 1 excursion beyond the upper criterion at station A5 (at Fourth Plain Road Bridge) on 4/5/92 out of 2 samples.	**YQ90IX**	**15.679**	**02N**	**03E**	**07**	**Fecal Coliform**		**Water**
28	**7910**	**2**	**Y**	**LACAMAS CREEK** Clark County data (submitted by Carl Addy on 10/6/93) show 3 excursions beyond the criterion out of 24 samples at the NE Goodwin Road station on11/6/91, 12/5/91 and 12/6/91.	**YQ90IX**	**8.596**	**02N**	**03E**	**51**	**pH**	A reassessment of data indicates that three exceedances out of 24 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
28	**7922**	**2**	**Y**	**LACAMAS CREEK** Lafer, 1994, 3 excursions beyond the criterion out of 21 samples (14%) at station A5 (at Fourth Plain Road Bridge) between 1991 and 1992.	**YQ90IX**	**15.679**	**02N**	**03E**	**07**	**pH**	A reassessment of data indicates that three exceedances out of 21 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
28	**7925**	**2**	**Y**	**LACAMAS CREEK** Lafer, 1994, 2 excursions beyond the criterion out of 20 samples (10%) at station C1 (just upstream of Matney Creek) between 1991 and 1992.	**YQ90IX**	**20.698**	**02N**	**03E**	**10**	**pH**	This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
28	**22116**	**2**	**N**	**MATNEY CREEK** Clark County unpublished data from a diel study at station MAT020 (Matney Cr at NE 232nd Avenue) measured excursions beyond the criterion on 30 August 2001.	**JY73PR**	**0.81**	**02N**	**03E**	**10**	**Dissolved oxygen**		**Water**
28	**22117**	**2**	**N**	**MATNEY CREEK** Clark County unpublished data from a diel study at station MAT030 (Matney Cr at NE 53rd Street) measured excursions beyond the criterion on 30 August 2001.	**JY73PR**	**1.392**	**02N**	**03E**	**15**	**Dissolved oxygen**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
28	**22118**	**2**	**N**	**MATNEY CREEK** Clark County unpublished data from a diel study at station MAT050 (Matney Cr dnstrm of NE 261st Avenue) measured excursions beyond the criterion on 30 August 2001.	**JY73PR**	**4.146**	**02N**	**03E**	**14**	**Dissolved oxygen**		**Water**
28	**7928**	**2**	**Y**	**MATNEY CREEK** Clark County unpublished data from station MAT010 (Matney Cr upstrm of NE 68th Street) show 1 excursion beyond the criterion from 9 measurements collected in 2002. Lafer, 1994, 2 excursions beyond the criterion out of 19 samples (11%) at station C2 (at 68th St. Bridge) between 1991 and 1992. Clark County data (submitted by Carl Addy on 10/6/93) show 2 excursions beyond the criterion at the NE 68th Street station on11/6/91 and 12/6/91.	**JY73PR**	**0**	**02N**	**03E**	**09**	**pH**	A reassessment of data indicates that five exceedances out of at least 30 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
28	**22110**	**2**	**N**	**MATNEY CREEK** Clark County unpublished data from a diel study at station MAT020 (Matney Cr at NE 232nd Avenue) measured excursions beyond the criterion on 30 August 2001.	**JY73PR**	**0.81**	**02N**	**03E**	**10**	**Temperature**		**Water**
28	**22111**	**2**	**N**	**MATNEY CREEK** Clark County unpublished data from a diel study at station MAT030 (Matney Cr at NE 53rd Street) measured excursions beyond the criterion on 30 August 2001.	**JY73PR**	**1.392**	**02N**	**03E**	**15**	**Temperature**		**Water**
28	**22112**	**2**	**N**	**MATNEY CREEK** Clark County unpublished data from a diel study at station MAT050 (Matney Cr dnstrm of NE 261st Avenue) measured excursions beyond the criterion on 30 August 2001.	**JY73PR**	**4.146**	**02N**	**03E**	**14**	**Temperature**		**Water**
28	**22031**	**2**	**N**	**MILL CREEK** Clark County unpublished data from station MIL010 (Mill Cr upstrm of Salmon Creek Avenue) show excursions beyond the criterion from measurements collected in 2002. Clark County unpublished data from station MIL010 (Mill Cr upstrm of Salmon Creek Avenue) show excursions beyond the chronic criterion from measurements collected 1998 and 2002.	**IQ96OD**	**0**	**03N**	**01E**	**24**	**Dissolved oxygen**		**Water**
28	**22062**	**2**	**N**	**MILL CREEK** Clark County unpublished data from station MIL010 (Mill Cr upstrm of Salmon Creek Avenue) show 2 excursions beyond the chronic criterion from 51 measurements collected 1998-2002. Clark County unpublished data from station MIL010 (Mill Cr upstrm of Salmon Creek Avenue) show no excursions beyond the criterion from measurements collected in 2002.	**IQ96OD**	**0**	**03N**	**01E**	**24**	**pH**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
28	**7937**	**2**	**Y**	**ROUND LAKE**	**636ALD**	**01N**	**03E**	**46**		**Temperature**	**Water**
				Lafer, 1994, 8 excursions beyond the criterion out of 11 samples (73%) at station B2 (outlet on Mill Ditch at Garfield Road) during 1991 and 1992. Review of the report shows data was collected between 5/92 and 11/92 and was not continuous.						Redesignated from Mill Ditch to Round Lake. Correct WASWIS for Round Lake is 636ALD. 07/19/04 -kk The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
28	**22057**	**2**	**N**	**SALMON CREEK**	**FP99QE**	**21.063**	**03N**	**02E**	**15**	**Dissolved oxygen**	**Water**
				Clark County unpublished data from station SMN050 (Salmon Cr at Caples Road) show excursions beyond the chronic criterion from measurements collected 1999 and 2002.							
28	**22064**	**2**	**N**	**SALMON CREEK**	**FP99QE**	**14.335**	**03N**	**02E**	**19**	**pH**	**Water**
				Clark County unpublished data from station SMN030 (Salmon Cr at NW 50th Avenue) show 4 excursions beyond the chronic criterion from 51 measurements collected 1998-2002.							
28	**7942**	**2**	**Y**	**SALMON CREEK**	**FP99QE**	**12.349**	**03N**	**01E**	**24**	**Temperature**	**Water**
				Clark County data (submitted by Carl Addy to Bob Cusimano in 4/95) show 3 excursions at Salmon Creek Road between 8/91 and 8/93. Review of the report shows 3 excursions of 24 samples taken from 8/1991 through 8/1993.						The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
28	**22048**	**2**	**N**	**SALMON CREEK**	**FP99QE**	**14.335**	**03N**	**02E**	**19**	**Temperature**	**Water**
				Clark County unpublished data from station SMN030 (Salmon Cr at NW 50th Avenue) show excursions beyond the chronic criterion from measurements collected 1998.							
28	**22049**	**2**	**Y**	**SALMON CREEK**	**FP99QE**	**21.063**	**03N**	**02E**	**15**	**Temperature**	**Water**
				Clark County unpublished data from station SMN050 (Salmon Cr at Caples Road) show excursions beyond the chronic criterion from measurements collected 1998 amd 2002. Review of the report shows 1 excursion of 3 samples taken 10/1998, 10/1999, and 8/2002.						The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
28	**7944**	**2**	**Y**	**SHANGHAI CREEK**	**IA24XE**	**2.899**	**02N**	**03E**	**04**	**Dissolved oxygen**	**Water**
				Clark County data (submitted by Carl Addy on 10/6/93) show 7 excursions beyond the criterion at the NE 212 Ave. station between 9/18/92 and 10/7/92.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
28	**7948**	**2**	**N**	**SHANGHAI CREEK**	**IA24XE**	**1.176**	**02N**	**03E**	**05**	**Fecal Coliform**	**Water**
				Lafer, 1994, 1 excursion beyond the upper criterion at station C4 (at 212th Ave Bridge) on 12/17/91 out of 2 samples.							
28	**7943**	**2**	**Y**	**SHANGHAI CREEK**	**IA24XE**	**2.899**	**02N**	**03E**	**04**	**pH**	**Water**
				Clark County data (submitted by Carl Addy on 10/6/93) show 3 excursions beyond the criterion out of 24 samples at the NE 212 Ave. station on10/2/91, 12/6/91, and 3/3/92.;						A reassessment of data indicates that three exceedances out of at least 24 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
28	**22785**	**2**	**N**	**UNNAMED LAKE**	**555HLZ**	**34N**	**13E**	**26**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 63 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion. Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 22.1 ug/L in 1985 which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.							
28	**8789**	**2**	**N**	**WEAVER (WOODIN) CREEK**	**HO68MC**	**3.049**	**03N**	**02E**	**02**	**Chlorine**	**Water**
				Crawford, 1986, 1 excursions beyond the acute criterion at Jewel Creek RM 2.5 on 10/22/85.						Also, the Battleground wastewater discharge was diverted to the Salmon Creek Wastewater Treatment Plant in 3/93.	
28	**22051**	**2**	**N**	**WEAVER CREEK**	**HO68MC**	**0**	**03N**	**02E**	**15**	**Temperature**	**Water**
				Clark County unpublished data from station WDN010 (Weaver Creek at Caples Rd.) show excursions beyond the chronic criterion from measurements collected 1998.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
28	22025	2	N	**WHIPPLE CREEK** Clark County unpublished data from station WPL050 (Whipple Cr upstrm of NW 179th Street) show excursions beyond the criterion from measurements collected in 2002.	ER25WD 3.931 03N 01E 17	Temperature	Water	
29	22509	2	N	**ASHES LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 103 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.	303CJW 02N 07E 37	Total Phosphorus	Water	
29	21582	2	N	**BUCK CREEK** Underwood Conservation District unpublished data from station WQ-2 show a geometric mean of 55 org/100mL from 3 samples collected in 1996. Underwood Conservation District unpublished data from station WQ-2 show a geometric mean of 42 org/100mL from 7 samples collected in 1995. Underwood Conservation District unpublished data from station WQ-2 show a geometric mean of 2 org/100mL from 3 samples collected in 1993. Underwood Conservation District unpublished data from station WQ-2 show a geometric mean of 40 org/100mL from 1 sample collected in 1992.	EL95FW 0.214 04N 10E 35	Fecal Coliform	Water	
29	21649	2	N	**CASCADE CREEK** Underwood Conservation District unpublished data from station WQ-10 show 1 excursions beyond the National Toxics Rule criterion and the chronic aquatic life criterion from a sample collected on 19 July 1993.	GP66NR 0 07N 10E 07	Mercury	Water	
29	17900	2	N	**COLUMBIA RIVER** EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (River Mile 154.5) sample #97080811.	NN57SG 45121H7A9 45.705 121.795	4,4'-DDE	Tissue	
29	17938	2	N	**COLUMBIA RIVER** EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (River Mile 154.5) sample #97080811.	NN57SG 45121H7A9 45.705 121.795	Chlordane	Tissue	
29	7883	2	Y	**COLUMBIA RIVER** Tanner, et al. 1996. , 18 excursions beyond the criterion out of 170 samples (11%) at the Bonneville Dam Forebay in 1996.	NN57SG 45121G9D4 45.635 121.945	Temperature	Water	The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water. EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
29	**7953**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45121H4B8**	**45.715**	**121.485**		**Temperature**	**Water**
				Hallock and Ehinger, 1993. 1 excursion beyond the criterion out of 5 samples at The Bridge of the Gods (RM 148.5) on 9/2/92.						EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	
29	**7954**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45121H5B0**	**45.715**	**121.505**		**Temperature**	**Water**
				Hallock and Ehinger, 1993. 1 excursion beyond the criterion out of 5 samples at Hood River (RM 169.3) on 9/2/92.						EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	
29	**17979**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45121H7A9**	**45.705**	**121.795**		**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 6-C (River Mile 154.5) sample #97080811.							
29	**23051**	**2**	**N**	**CULTUS CREEK**	**QG98PW**	**0.952**	**07N**	**09E**	**20**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows excursions beyond the criterion from measurements collected during 1998 at the station called 'Cultus Cr at RM 1.4'.							
29	**22786**	**2**	**N**	**DRANO LAKE**	**680PAV**	**03N**	**09E**	**26**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 14 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.							
29	**21680**	**2**	**N**	**DRY CREEK**	**IO30LF**	**0.69**	**05N**	**07E**	**29**	**pH**	**Water**
				Underwood Conservation District unpublished data from station WR-7 show 2 excursions beyond the criterion from 5 measurements collected from 1999-2001.							
29	**23052**	**2**	**N**	**GRAND MEADOWS CREEK**	**TD68PW**	**0.352**	**08N**	**09E**	**33**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows excursions beyond the criterion from measurements collected during 1998 at the station called 'Grand Meadows Cr above Trout Lake Cr'.							
29	**23122**	**2**	**N**	**LITTLE WHITE SALMON RIVER**	**VP16ET**	**26.137**	**05N**	**10E**	**30**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows excursions beyond the criterion from measurements collected during 1998 at the station called 'Little White Salmon (hw) above 201 rd'.							
29	**23124**	**2**	**N**	**LITTLE WHITE SALMON RIVER**	**VP16ET**	**19.136**	**04N**	**09E**	**10**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows excursions beyond the criterion from measurements collected during 2000 at the station called 'Little White Salmon R at Berry Cr'.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
29	**18040**	**2**	**N**	**LITTLE WHITE SALMON RIVER** EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 5 fillet with skin collected in 1997 at station 62-0 (River Mile 1) sample #97260978. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 5 fillet with skin collected in 1997 at station 62-0 (River Mile 1) sample #97260979. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 5 fillet with skin collected in 1997 at station 62-0 (River Mile 1) sample #97260980.	**VP16ET**	**0.699**	**03N**	**09E**	**26**	**Total PCBs**	Fish tissue analysis involved anadromous fish. Listing placed on Category 2 as a water of concern based on Policy 1-11. sb	**Tissue**
29	**23127**	**2**	**N**	**LOST CREEK** Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows excursions beyond the criterion from measurements collected during 2001 and 2002 at the station called 'Lost Cr below Dry Cr'.	**ZY99QW**	**3.882**	**05N**	**09E**	**05**	**Temperature**		**Water**
29	**23056**	**2**	**N**	**MOSQUITO CREEK** Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows excursions beyond the criterion from measurements collected during 1998 at the station called 'Mosquito Cr at mouth'.	**KM72RR**	**0**	**07N**	**09E**	**17**	**Temperature**		**Water**
29	**21682**	**2**	**N**	**PARADISE CREEK** Underwood Conservation District unpublished data from station WR-9 show 1 excursions beyond the criterion from 5 measurements collected from 1999-2001.	**XX40CM**	**0**	**05N**	**07E**	**03**	**pH**		**Water**
29	**21617**	**2**	**N**	**RATTLESNAKE CREEK** Underwood Conservation District unpublished data from station WQ-3aa show 1 excursion beyond the criterion from 26 measurements collected from 1992-2002.	**EQ92UC**	**8.099**	**04N**	**11E**	**10**	**pH**		**Water**
29	**22341**	**2**	**N**	**TRAPPER CREEK** Plotnikoff and Wiseman, 2002, at station 52D (Trapper Cr at Trapper Cr Wilderness) show an indication of biological degredation of aqautic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 0.76 , but the site is a reference site with minimal human disturbance and more definitive information is needed to determine if the segment is actually impaired. Plotnikoff and Wiseman, 2002, at station 293D (Trapper Cr at Trapper Cr Wilderness) show no biological degredation of aquatic life based the River Invertebrate Prediction and Classification System (RIVPACS) score of 1.18.	**TX44DZ**	**1.47**	**05N**	**06E**	**25**	**Bioassessment**		**Other**
29	**21678**	**2**	**N**	**TRAPPER CREEK** Underwood Conservation District unpublished data from station WR-6 show 2 excursions beyond the criterion from 5 measurements collected from 1999-2001.	**TX44DZ**	**0**	**05N**	**07E**	**31**	**pH**		**Water**
29	**21679**	**2**	**N**	**TRAPPER CREEK** Underwood Conservation District unpublished data from station WR-6a show 1 excursion beyond the criterion from 5 measurements collected from 1999-2001.	**TX44DZ**	**1.47**	**05N**	**06E**	**25**	**pH**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
29	**23112**	**2**	**N**	**TRAPPER CREEK**	**TX44DZ**	**1.47**	**05N**	**06E**	**25**	**Temperature**	**Water**

Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows excursions beyond the criterion from measurements collected during 2002 at the station called 'Trapper Creek at RM 1.8'.

U.S. Geological Service unpublished data used in the Wind TMDL Study shows 0 excursions beyond the criterion from continous samples collected at station TRAP (Trapper Cr. above Cabins area) during 1999; U.S. Geological Service unpublished data used in the Wind TMDL Study shows 0 excursions beyond the criterion from continous samples collected at station TRAP (Trapper Cr. above Cabins area) during 2000

U.S. Forest Service unpublished data used in the Wind TMDL Study shows 0 excursions beyond the criterion from continous samples collected at station USFS07 (Trapper Creek above foot bridge) during 1999 - 2000

Underwood Conservation District unpublished data from station WR-6a show no excursions beyond the criterion from measurements collected from 1999-2001.
U.S. Geological Service unpublished data used in the Wind TMDL Study shows 0 excursions beyond the criterion from continous samples collected at station TRAP (Trapper Cr. above Cabins area) during 1999; U.S. Geological Service unpublished data used in the Wind TMDL Study shows 0 excursions beyond the criterion from continous samples collected at station TRAP (Trapper Cr. above Cabins area) during 2000

U.S. Forest Service unpublished data used in the Wind TMDL Study shows 0 excursions beyond the criterion from continous samples collected at station USFS07 (Trapper Creek above foot bridge) during 1999 - 2000

Underwood Conservation District unpublished data from station WR-6a show no excursions beyond the criterion from measurements collected from 1999-2001.

Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows excursions beyond the criterion from measurements collected during 2002 at the station called 'Trapper Creek at RM 1.8'.

29	**21653**	**2**	**N**	**TROUT CREEK**	**PJ18EY**	**0**	**04N**	**07E**	**26**	**Fecal Coliform**	**Water**

Underwood Conservation District unpublished data from station WR - 4 show a geometric mean of 130 org/100mL from 1 sample collected in 2001. Underwood Conservation District unpublished data from station WR - 4 show a geometric mean of 5 org/100mL from 2 samples collected in 1999.

29	**21654**	**2**	**N**	**TROUT CREEK**	**PJ18EY**	**9.387**	**04N**	**06E**	**24**	**Fecal Coliform**	**Water**

Underwood Conservation District unpublished data from station WR - 4a show a geometric mean of 170 org/100mL from 1 sample collected in 2001. Underwood Conservation District unpublished data from station WR - 4a show a geometric mean of 23 org/100mL from 1 sample collected in 2000. Underwood Conservation District unpublished data from station WR - 4a show a geometric mean of 6 org/100mL from 3 samples collected in 1999.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
29	**21590**	**2**	**N**	**TROUT LAKE CREEK**	**PZ25RR**	**0**	**06N**	**10E**	**24**	**Fecal Coliform**	**Water**
				Underwood Conservation District unpublished data from station WQ-9 show a geometric mean of 52 org/100mL from 3 samples collected in 1996. Underwood Conservation District unpublished data from station WQ-9 show a geometric mean of 305 org/100mL from 7 samples collected in 1995. Underwood Conservation District unpublished data from station WQ-9 show a geometric mean of 110 org/100mL from 1 sample collected in 1994 Underwood Conservation District unpublished data from station WQ-9 show a geometric mean of 33 org/100mL from 3 samples collected in 1993. Underwood Conservation District unpublished data from station WQ-9 show a geometric mean of 20 org/100mL from 1 sample collected in 1992.							
29	**21629**	**2**	**N**	**TROUT LAKE CREEK**	**PZ25RR**	**15.664**	**07N**	**09E**	**25**	**pH**	**Water**
				Underwood Conservation District unpublished data from station WQ-9a show 1 excursion beyond the criterion from 25 measurements collected from 1992-2002.							
29	**23058**	**2**	**N**	**TROUT LAKE CREEK**	**PZ25RR**	**28.171**	**07N**	**09E**	**04**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows excursions beyond the criterion from measurements collected during 1997 and 1998 at the station called 'Trout Lake Cr above Grand Meadows Cr'.							
29	**23059**	**2**	**N**	**TROUT LAKE CREEK**	**PZ25RR**	**24.911**	**07N**	**09E**	**17**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows excursions beyond the criterion from measurements collected during 1998 at the station called 'Trout Lake Cr above Mosquito Cr'.							
29	**23060**	**2**	**N**	**TROUT LAKE CREEK**	**PZ25RR**	**19.382**	**07N**	**09E**	**27**	**Temperature**	**Water**
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 December 2002) shows excursions beyond the criterion from measurements collected during 2002 at the station called 'Trout Lake Cr above Little Goose Cr'.							
29	**22788**	**2**	**N**	**WAUNA LAKE**	**573AGN**	**02N**	**07E**	**96**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 12 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
29	21580	2	N	**WHITE SALMON RIVER**	OY08TT	1.874	03N	10E	14	Fecal Coliform	Water
				Underwood Conservation District unpublished data from station WQ-1 show a geometric mean of 88 org/100mL from 3 samples collected in 2002. Underwood Conservation District unpublished data from station WQ-1 show a geometric mean of 76 org/100mL from 3 samples collected in 1996. Underwood Conservation District unpublished data from station WQ-1 show a geometric mean of 43 org/100mL from 7 samples collected in 1995. Underwood Conservation District unpublished data from station WQ-1 show a geometric mean of 190 org/100mL from 1 sample collected in 1994. Underwood Conservation District unpublished data from station WQ-1 show a geometric mean of 52 org/100mL from 4 samples collected in 1993. Underwood Conservation District unpublished data from station WQ-1 show a geometric mean of 18 org/100mL from 2 samples collected in 1992.						
29	21625	2	N	**WHITE SALMON RIVER**	OY08TT	29.457	05N	11E	18	pH	Water
				Underwood Conservation District unpublished data from station WQ-6 show 1 excursion beyond the criterion from 20 measurements collected from 1992-2002.							
29	21688	2	N	**WIND RIVER**	IL70SO	18.156	04N	07E	26	Dissolved oxygen	Water
				Underwood Conservation District unpublished data from station WR-5 show 1 excursion beyond the criterion on 17 April 2000 from measurements collected from 1999-2001.							
29	16778	2	N	**WIND RIVER**	IL70SO	3.405	03N	08E	21	Fecal Coliform	Water
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 29C070 (Wind R. near Carson) shows a geometric mean of 9 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1994.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 29C070 (Wind R. near Carson) shows a geometric mean of 20 does not exceed the criterion and that 12% of the samples exceeds the percentile criterion from 8 samples collected during 1995, with only 1 sample that exceeds the percentile criterion.							
29	21650	2	N	**WIND RIVER**	IL70SO	2.705	03N	08E	28	Fecal Coliform	Water
				Underwood Conservation District unpublished data from station WR - 1 show a geometric mean of 140 org/100mL from 1 sample collected in 2001. Underwood Conservation District unpublished data from station WR - 1 show a geometric mean of 13 org/100mL from 1 sample collected in 2000. Underwood Conservation District unpublished data from station WR - 1 show a geometric mean of 7 org/100mL from 2 samples collected in 1999.							
29	21672	2	N	**WIND RIVER**	IL70SO	2.705	03N	08E	28	pH	Water
				Underwood Conservation District unpublished data from station WR-1 show 2 excursions beyond the criterion from 5measurements collected from 1999-2001.							
29	21677	2	N	**WIND RIVER**	IL70SO	18.156	04N	07E	26	pH	Water
				Underwood Conservation District unpublished data from station WR-5 show 1 excursion beyond the criterion from 5 measurements collected from 1999-2001.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
29	**21681**	**2**	**N**	**WIND RIVER**	**IL70SO**	**34.813**	**05N**	**07E**	**21**	**pH**	**Water**
				Underwood Conservation District unpublished data from station WR-8 show 1 excursion beyond the criterion from 5 measurements collected from 1999-2001.							
29	**18101**	**2**	**N**	**WIND RIVER**	**IL70SO**	**28.353**	**04N**	**07E**	**05**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 5 fillet with skin collected in 1997 at station 63-0 (River Mile 18) sample #97250823. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 5 fillet with skin collected in 1997 at station 63-0 (River Mile 18) sample #97250824. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 5 fillet with skin collected in 1997 at station 63-0 (River Mile 18) sample #97250825.						Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	
30	**6200**	**2**	**Y**	**BLOODGOOD CREEK**	**XU61DO**	**0.014**	**04N**	**16E**	**17**	**Instream Flow**	**Habitat**
				Flow summary data from Ecology Study (Evans, 2001, publication No. 01-03-006) documents continuous flow at stations upstreama nd downstream of Goldendale dues to improvements made by the City. Washington Dept. of Ecology, 1990.;SASSI, 1993 , Spring Chinook and Coho Stocks are depressed.; Nehlson, et al 1991. , Winter Steelhead are at a high risk of extinction.; The stream meets all the Water Quality Program Policy criteria for inadequate instream flow and has been added to the list. The Little Klickitat spring Chinook and Coho stocks are listed as depressed (SASSI, 1994).						The City of Golendate has provided updated information on 12/14/05 that indicates that changes in instream flow have occurred that improve the flow, and related habitat of this waterbody. Flow summary information on the Little Klickitat River documents continuous flows at stations upstream and downstream of Goldendale (see Ecology publication 01-03-006). Ecology regional staff substantiated the imporvements. Based on the information provided, this lasting has moved from Category 4C to Category 2. sb 4/27/05	
30	**18134**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45121G0F2**	**45.655**	**121.025**		**4,4'-DDE**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 7-A (River Mile 197.5) sample #97080815.							
30	**18149**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45121G0F2**	**45.655**	**121.025**		**Chlordane**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 7-A (River Mile 197.5) sample #97080815. EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 7-A (River Mile 197.5) sample #97080816.							
30	**16779**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45121G1A4**	**45.605**	**121.145**		**Fecal Coliform**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 30A070 (Columbia R. at The Dalles) shows a geometric mean of 1 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 1 samples collected during 1994.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 30A070 (Columbia R. at The Dalles) shows a geometric mean of 7 does not exceed the criterion and that 20% of the samples exceeds the percentile criterion from 5 samples collected during 1995, with only 1 sample that exceeds the percentile criterion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
30	**11084**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45121G1A4**	**45.605**	**121.145**		**Temperature**		**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 30A070 (Columbia R @ The Dalles) shows 1 excursions beyond the criterion out of 10 samples collected between 1993 - 2001 measured on these dates: 95/08/14,							EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	
30	**18179**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45121G0F2**	**45.655**	**121.025**		**Total PCBs**		**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from one White Sturgeon fillet without skin collected in 1997 at station 7-A (River Mile 197.5) sample #97080815.								
30	**18352**	**2**	**N**	**KLICKITAT RIVER**	**IS74GA**	**5.709**	**03N**	**12E**	**24**	**Total PCBs**		**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Fall Chinook composite of 3 fillet with skin collected in 1997 at station 56-0 (River Mile 2.2) sample #97380981.								
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Fall Chinook composite of 3 fillet with skin collected in 1997 at station 56-0 (River Mile 2.2) sample #97380982.								
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Fall Chinook composite of 3 fillet with skin collected in 1997 at station 56-0 (River Mile 2.2) sample #97380983.								
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Steelhead composite of 3 fillet with skin collected in 1997 at station 56-0 (River Mile 2.2) sample #97390800.								
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Steelhead composite of 3 fillet with skin collected in 1997 at station 56-0 (River Mile 2.2) sample #97390801.								
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Steelhead composite of 3 fillet with skin collected in 1997 at station 56-0 (River Mile 2.2) sample #97390802.								
30	**18355**	**2**	**N**	**KLICKITAT RIVER**	**IS74GA**	**66.486**	**06N**	**13E**	**04**	**Total PCBs**		**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 4 fillet with skin collected in 1997 at station 56-A (River Mile 42.5) sample #97320855.								
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 4 fillet with skin collected in 1997 at station 56-A (River Mile 42.5) sample #97320856.								
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 4 fillet with skin collected in 1997 at station 56-A (River Mile 42.5) sample #97320857.								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium / Remarks
30	16781	2	N	**LITTLE KLICKITAT RIVER**	AY21LB	0	04N	14E	09	Fecal Coliform	Water
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 30C070 (Little Klickitat R. near Wahkiacus) shows a geometric mean of 15 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1993.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 30C070 (Little Klickitat R. near Wahkiacus) shows a geometric mean of 29 does not exceed the criterion and that 8% of the samples does not exceed the percentile criterion from 12 samples collected during 1994.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 30C070 (Little Klickitat R. near Wahkiacus) shows a geometric mean of 42 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 1995, with only 1 sample that exceeds the percentile criterion.						
30	6202	2	Y	**LITTLE KLICKITAT RIVER**	AY21LB	13.643	04N	15E	28	Instream Flow	Habitat
				Flow summary data from Ecology Study (Evans, 2001, publication No. 01-03-006) documents continuous flow at stations upstreama nd downstream of Goldendale dues to improvements made by the City. Washington Dept. of Ecology, 1990.;SASSI, 1993 , Spring Chinook and Coho Stocks are depressed.; Nehlson, et al 1991. , Winter Steelhead are at a high risk of extinction.; The stream meets all the Water Quality Program Policy criteria for inadequate instream flow and has been added to the list. The Little Klickitat spring Chinook and Coho stocks are listed as depressed (SASSI, 1994).						The City of Golendate has provided updated information on 12/14/05 that indicates that changes in instream flow have occurred that improve the flow, and related habitat of this waterbody. Flow summary information on the Little Klickitat River documents continuous flows at stations upstream and downstream of Goldendale (see Ecology publication 01-03-006). Ecology regional staff substantiated the imporvements. Based on the information provided, this lasting has moved from Category 4C to Category 2. sb 4/27/05
30	6203	2	Y	**LITTLE KLICKITAT RIVER**	AY21LB	0	04N	14E	09	Instream Flow	Habitat
				Flow summary data from Ecology Study (Evans, 2001, publication No. 01-03-006) documents continuous flow at stations upstreama nd downstream of Goldendale dues to improvements made by the City. Washington Dept. of Ecology, 1990.;SASSI, 1993 , Spring Chinook and Coho Stocks are depressed.; Nehlson, et al 1991. , Winter Steelhead are at a high risk of extinction.; The stream meets all the Water Quality Program Policy criteria for inadequate instream flow and has been added to the list. The Little Klickitat spring Chinook and Coho stocks are listed as depressed (SASSI, 1994).						The City of Golendate has provided updated information on 12/14/05 that indicates that changes in instream flow have occurred that improve the flow, and related habitat of this waterbody. Flow summary information on the Little Klickitat River documents continuous flows at stations upstream and downstream of Goldendale (see Ecology publication 01-03-006). Ecology regional staff substantiated the imporvements. Based on the information provided, this lasting has moved from Category 4C to Category 2. sb 4/27/05
30	11069	2	N	**LITTLE KLICKITAT RIVER**	AY21LB	0	04N	14E	09	pH	Water
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 30C070 (Little Klickitat nr Wahkiacus) shows 1 excursions beyond the criterion out of 24 samples collected between 1993 - 2001							
30	22790	2	N	**SPEARFISH LAKE**	423MIQ	02N	13E	25		Total Phosphorus	Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
31	**18514**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45120H2C0**	**45.725**	**120.205**	**4,4'-DDE**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet with skin collected in 1997 at station 8-F (River Mile 241) sample #97080820. EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from Steelhead composite of 3 fillet with skin collected in 1998 at station 8-F (River Mile 241) sample #98064092.						
31	**18517**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J2C1**	**45.925**	**119.215**	**4,4'-DDE**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-A (River Mile 295) sample #97500968.						
31	**18518**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J1C6**	**45.925**	**119.165**	**4,4'-DDE**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-B (River Mile 299) sample #97500966.						
31	**18520**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J0G4**	**45.965**	**119.045**	**4,4'-DDE**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-D (River Mile 304) sample #97500965.						
31	**18550**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J2C1**	**45.925**	**119.215**	**Aldrin**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-A (River Mile 295) sample #97500968.						
31	**18551**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J1C6**	**45.925**	**119.165**	**Aldrin**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-B (River Mile 299) sample #97500966.						
31	**18553**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J0G4**	**45.965**	**119.045**	**Aldrin**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-D (River Mile 304) sample #97500965.						
31	**8801**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45120H6B8**	**45.715**	**120.685**	**Arsenic**	**Water**
				Andreasson and Heffner, 1993. , 1 excursion beyond the National Toxic Rule criterion on 5/7/91 in the Wildlife Management Area just above John Day Dam.;					The measured data represent total arsenic. The National Toxic Rule criterion applies only to inorganic arsenic.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
31	**18623**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45120H2C0**	**45.725**	**120.205**	**Chlordane**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet with skin collected in 1997 at station 8-F (River Mile 241) sample #97080820. EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from Steelhead composite of 3 fillet with skin collected in 1998 at station 8-F (River Mile 241) sample #98064092.						
31	**18625**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J2C1**	**45.925**	**119.215**	**Chlordane**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-A (River Mile 295) sample #97500968.						
31	**18626**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J1C6**	**45.925**	**119.165**	**Chlordane**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-B (River Mile 299) sample #97500966.						
31	**18628**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J0G4**	**45.965**	**119.045**	**Chlordane**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-D (River Mile 304) sample #97500965.						
31	**18735**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45120H2C0**	**45.725**	**120.205**	**Hexachlorobenzene**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet with skin collected in 1997 at station 8-F (River Mile 241) sample #97080820. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 8-F (River Mile 241) sample #97080819. EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from Steelhead composite of 3 fillet with skin collected in 1998 at station 8-F (River Mile 241) sample #98064092. EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 8-F (River Mile 241) sample #97080818.						
31	**18737**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J2C1**	**45.925**	**119.215**	**Hexachlorobenzene**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-A (River Mile 295) sample #97500968.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
31	**18738**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J1C6**	**45.925**	**119.165**	**Hexachlorobenzene**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-B (River Mile 299) sample #97500966. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-B (River Mile 299) sample #97500967.						
31	**18740**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J0G4**	**45.965**	**119.045**	**Hexachlorobenzene**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-D (River Mile 304) sample #97500965.						
31	**11093**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J3D2**	**45.935**	**119.325**	**Mercury**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 31A070 (COLUMBIA RIVER AT UMATILLA) shows 1 excursions beyond the criterion out of 3 samples collected between 1993 - 2001						
31	**11095**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J3D2**	**45.935**	**119.325**	**pH**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 31A070 (COLUMBIA RIVER AT UMATILLA) shows 4 excursions beyond the criterion out of 60 samples collected between 1993 - 2001						
31	**16060**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**46119C1B1**	**46.215**	**119.115**	**pH**	**Water**
				U.S. Bureau of Reclamation station CBP100 (COLUMBIA RIVER ABV MOUTH SNAKE R) shows 2 excursions beyond the criterion out of 17 samples collected between 1993-1999						
31	**16878**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J2D3**	**45.935**	**119.235**	**Temperature**	**Water**
				U.S. Army Corps of Engineers unpublished data at station McNary 295 show excursions beyond the criterion from Hydrolab measurements collected in 1997.					EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	
31	**16881**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J0G3**	**45.965**	**119.035**	**Temperature**	**Water**
				U.S. Army Corps of Engineers unpublished data at station McNary 306 show excursions beyond the criterion from Hydrolab measurements collected in 1997.					EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	
31	**18803**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45120H2C8**	**45.725**	**120.285**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Fall Chinook composite of 3 fillet with skin collected in 1997 at station 8-D (River Mile 236) sample #97380988.						
31	**18806**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45120H2C1**	**45.725**	**120.215**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Fall Chinook composite of 3 fillet with skin collected in 1997 at station 8-G (River Mile 242) sample #97380987.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
31	**18808**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45120H2D0**	**45.735**	**120.205**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Steelhead composite of 3 fillet with skin collected in 1997 at station 8-H (River Mile 242) sample #97380994.						
31	**18812**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45120H2C0**	**45.725**	**120.205**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Steelhead composite of 3 fillet with skin collected in 1998 at station 8-F (River Mile 241) sample #98064092.						
31	**18816**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J2C1**	**45.925**	**119.215**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-A (River Mile 295) sample #97500968.						
31	**18817**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J1C6**	**45.925**	**119.165**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-B (River Mile 299) sample #97500966.						
31	**18819**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**45119J0G4**	**45.965**	**119.045**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 9-D (River Mile 304) sample #97500965.						
31	**22791**	**2**	**N**	**MOUND LAKE**	**031ZVD**	**06N**	**31E**	**05**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 78 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
31	**22792**	**2**	**N**	**YELLEPIT LAKE**	**623QBJ**	**06N**	**31E**	**07**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 68 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
32	**22794**	**2**	**N**	**CASEY LAKE**	**306XZW**	**08N**	**31E**	**20**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 156 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
32	**24243**	**2**	**N**	**COATES CREEK**	**EP71BD**	**0**	**08N**	**40E**	**07**	**Temperature**		**Water**
				Washington Department of Fish & Wildlife unpublished data (submitted by Glen Mendel on 3 December 2002) show a 7-day mean of maximum daily temperature of 14.3 degrees C, with a maximum daily temperature of 14.9 degrees C from continuous measurements collected in 2000 at 0.1 mi above Wolf Fork Rd. Washington Department of Fish & Wildlife unpublished data (submitted by Glen Mendel on 3 December 2002) show a 7-day mean of maximum daily temperature of 14.7 degrees C, with a maximum daily temperature of 15 degrees C from continuous measurements collected in 2001 at 0.1 mi above Wolf Fork Rd. Washington Department of Fish & Wildlife unpublished data (submitted by Glen Mendel on 3 December 2002) show a 7-day mean of maximum daily temperature of 15.5 degrees C, with a maximum daily temperature of 16.5 degrees C from continuous measurements collected in 2002 at 0.1 mi above Wolf Fork Rd.							
32	**41867**	**2**	**N**	**COPPEI CREEK**	**RT07DK**	**0**	**09N**	**37E**	**10**	**Ammonia-N**		**Water**
				Swanson, T., (2004), station 32COP-00.5 shows a total of 1 sample in year 2002 exceeded the chronic criterion.								
32	**41634**	**2**	**N**	**COPPEI CREEK**	**RT07DK**	**0**	**09N**	**37E**	**10**	**Fecal Coliform**		**Water**
				Swanson, T., (2004), station 32COP-00.5 shows that 1 of 2 samples (50%) collected in 2002 exceed the percentile criterion and shows that 1 of 3 samples (33.3%) collected in 2003 exceed the percentile criterion.								
32	**41160**	**2**	**N**	**COPPEI CREEK**	**RT07DK**	**0**	**09N**	**37E**	**10**	**pH**		**Water**
				Swanson, T., (2003), station 32COP-00.5 shows that 1 of 5 samples exceeds the criterion.								
32	**41071**	**2**	**N**	**COPPEI CREEK**	**RT07DK**	**0**	**09N**	**37E**	**10**	**Temperature**		**Water**
				Swanson, T., (2003), station 32COP-00.5 shows 2 samples exceeded the criterion in years 2002 and 2003.								
32	**41336**	**2**	**N**	**COTTONWOOD CREEK**	**HU10XJ**	**1.574**	**06N**	**36E**	**05**	**Dissolved oxygen**		**Water**
				Swanson, T., (2003), station 32COT-01.0 shows 1 sample exceeded the criterion in year 2002.								
32	**41635**	**2**	**N**	**COTTONWOOD CREEK**	**HU10XJ**	**1.574**	**06N**	**36E**	**05**	**Fecal Coliform**		**Water**
				Swanson, T., (2004), station 32COT-01.0 shows that 1 of 2 samples (50%) collected in 2002 exceed the percentile criterion.								
32	**41161**	**2**	**N**	**COTTONWOOD CREEK**	**HU10XJ**	**1.574**	**06N**	**36E**	**05**	**pH**		**Water**
				Swanson, T., (2003), station 32COT-01.0 shows that 1 of 5 samples exceeds the criterion.								

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
32	**22795**	**2**	**N**	**CURLEW LAKE**	**UNK000**	**00U**	**XXU**	**00**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 442 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Northern Rockies Ecoregion.							
32	**41868**	**2**	**N**	**DRY CREEK**	**OT03FJ**	**0**	**07N**	**34E**	**29**	**Ammonia-N**	**Water**
				Swanson, T., (2004), station 32DRY-00.5 shows a total of 1 sample in year 2002 exceeded the chronic criterion.							
32	**36359**	**2**	**N**	**DRY CREEK**	**OT03FJ**	**0**	**07N**	**34E**	**29**	**DDT**	**Water**
				Johnson, 1997. show 1 exucrison beyond the chronic criterion from a samples collected on 18 June 1996.							
32	**41073**	**2**	**N**	**DRY CREEK**	**OT03FJ**	**0**	**07N**	**34E**	**29**	**Temperature**	**Water**
				Swanson, T., (2003), station 32DRY-00.5 shows 1 samples exceeded the criterion in year 2003.							
32	**22793**	**2**	**N**	**J LINE LAKE**	**062IYM**	**08N**	**31E**	**20**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 90 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
32	**41670**	**2**	**N**	**LITTLE WALLA WALLA RIVER, WEST**	**YA44BO**	**0.938**	**06N**	**35E**	**37**	**Fecal Coliform**	**Water**
				Swanson, T., (2004), station 32WLW-00.8 shows that 1 of 3 samples (33.3%) collected in 2003 exceed the percentile criterion.							
32	**41105**	**2**	**N**	**LITTLE WALLA WALLA RIVER, WEST**	**YA44BO**	**0.938**	**06N**	**35E**	**37**	**Temperature**	**Water**
				Swanson, T., (2003), station 32WLW-00.8 shows 2 samples exceeded the criterion in year 2003.							
32	**41870**	**2**	**N**	**MILL CREEK**	**SS77BG**	**0**	**07N**	**35E**	**38**	**Ammonia-N**	**Water**
				Swanson, T., (2004), station 32MIL-00.5 shows a total of 1 sample in year 2002 exceeded the chronic criterion.							
32	**41344**	**2**	**N**	**MILL CREEK**	**SS77BG**	**13.732**	**07N**	**36E**	**21**	**Dissolved oxygen**	**Water**
				Swanson, T., (2003), station 32MIL-08.5 shows 1 sample exceeded the criterion in year 2002. Swanson, T., (2003), station 32MIL-08.9 shows 1 sample exceeded the criterion in year 2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter / Remarks	Medium
32	**41442**	**2**	**N**	**MILL CREEK** Swanson, T., (2003), station 32MIL-12.8 shows 5 samples exceeded the criterion in year 2002.	**SS77BG**	**20.609**	**07N**	**37E**	**37**	**Dissolved oxygen**	**Water**
32	**41443**	**2**	**N**	**MILL CREEK** Swanson, T., (2003), station 32MIL-21.1 shows 3 samples exceeded the criterion in year 2002.	**SS77BG**	**34.491**	**06N**	**37E**	**12**	**Dissolved oxygen**	**Water**
32	**16783**	**2**	**N**	**MILL CREEK** Swanson, T., (2004), station 32MIL-11.5 shows that a total of 15 samples were collected in years 2002 and 2003 and none were found to exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 32C110 (Mill Creek at Tausick Way) shows a geometric mean of 18 does not exceed the criterion and that 12% of the samples exceeds the percentile criterion from 8 samples collected during 1993, with only 1 sample that exceeds the percentile criterion.	**SS77BG**	**17.113**	**07N**	**36E**	**23**	**Fecal Coliform**	**Water**
32	**41716**	**2**	**N**	**MILL CREEK** Swanson, T., (2004), station 32MIL-12.8 shows that 1 of 2 samples (50%) collected in 2002 exceed the percentile criterion.	**SS77BG**	**20.609**	**07N**	**37E**	**37**	**Fecal Coliform**	**Water**
32	**14174**	**2**	**N**	**MILL CREEK** Hoyle-Dodson, 1997. based on samples of the Walla Walla Wastewater Treatment Plant effluent collected in September 1996 and dilution modeling show the chronic criteria may be exceeded in the receiving water.	**SS77BG**	**10.145**	**07N**	**36E**	**19**	**GAMMA-BHC (LINDANE)**	**Water**
32	**14175**	**2**	**N**	**MILL CREEK** Hoyle-Dodson, 1997. based on samples of the Walla Walla Wastewater Treatment Plant effluent collected in September 1996 and dilution modeling show the chronic criteria may be exceeded in the receiving water.	**SS77BG**	**10.145**	**07N**	**36E**	**19**	**Lead**	**Water**
32	**41169**	**2**	**N**	**MILL CREEK** Swanson, T., (2003), station 32MIL-08.5 shows that 1 of 6 samples exceeds the criterion. Swanson, T., (2003), station 32MIL-08.9 shows that 0 of 1 sample exceed the criterion.	**SS77BG**	**13.732**	**07N**	**36E**	**21**	**pH**	**Water**
32	**41227**	**2**	**N**	**MILL CREEK** Swanson, T., (2003), station 32MIL-12.8 shows that 1 of 17 samples exceeds the criterion.	**SS77BG**	**20.609**	**07N**	**37E**	**37**	**pH**	**Water**
32	**41327**	**2**	**N**	**MILL CREEK** Hallock (2004), Dept. of Ecology ambient station 32C070 shows that of 12 samples none exceed the criterion. Swanson, T., (2003), station 32MIL-00.5 shows that 2 of 20 samples exceed the criterion.	**SS77BG**	**0**	**07N**	**35E**	**38**	**pH**	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
32	**41328**	**2**	**N**	**MILL CREEK** Swanson, T., (2003), station 32MIL-02.8 shows that 1 of 16 samples exceeds the criterion.	**SS77BG**	**3.028**	**07N**	**35E**	**28**	**pH**		**Water**
32	**23687**	**2**	**N**	**MILL CREEK** Washington Department of Fish & Wildlife unpublished data (submitted by Glen Mendel on 3 December 2002) show a 7-day mean of maximum daily temperature of 20.7 degrees C, with a maximum daily temperature of 21.4 degrees C from continuous measurements collected in 2002 at 1 mile above Wallula Rd. Brg.	**SS77BG**	**4.746**	**07N**	**35E**	**27**	**Temperature**		**Water**
32	**41076**	**2**	**N**	**MILL CREEK** Swanson, T., (2003), station 32MIL-07.2 shows 1 samples exceeded the criterion in year 2003.	**SS77BG**	**11.891**	**07N**	**36E**	**20**	**Temperature**		**Water**
32	**41126**	**2**	**N**	**MILL CREEK** Swanson, T., (2003), station 32MIL-21.1 shows 2 samples exceeded the criterion in year 2002.	**SS77BG**	**34.491**	**06N**	**37E**	**12**	**Temperature**		**Water**
32	**41157**	**2**	**N**	**MILL CREEK** Swanson, T., (2003), station 32MIL-02.8 shows 2 samples exceeded the criterion in years 2002 and 2003.	**SS77BG**	**3.028**	**07N**	**35E**	**28**	**Temperature**		**Water**
32	**41158**	**2**	**N**	**MILL CREEK** Swanson, T., (2003), station 32MIL-04.8 shows 7 samples exceeded the criterion in years 2002 and 2003.	**SS77BG**	**8.402**	**07N**	**35E**	**24**	**Temperature**		**Water**
32	**22796**	**2**	**N**	**MILL CREEK LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 949 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**828JZB**	**07N**	**36E**	**23**		**Total Phosphorus**		**Water**
32	**41171**	**2**	**N**	**MUD CREEK** Swanson, T., (2003), station 32MUD-00.5 shows that 1 of 5 samples exceeds the criterion.	**AN63IZ**	**0.366**	**07N**	**34E**	**31**	**pH**		**Water**
32	**41079**	**2**	**N**	**MUD CREEK** Swanson, T., (2003), station 32MUD-00.5 shows 2 samples exceeded the criterion in years 2002 and 2003.	**AN63IZ**	**0.366**	**07N**	**34E**	**31**	**Temperature**		**Water**
32	**41872**	**2**	**N**	**PATIT CREEK** Swanson, T., (2004), station 32PAT-00.1 shows a total of 1 sample in year 2002 exceeded the chronic criterion.	**MG48HJ**	**0**	**10N**	**39E**	**30**	**Ammonia-N**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter / Remarks	Medium
32	**41347**	**2**	**N**	**PATIT CREEK** Swanson, T., (2003), station 32PAT-00.1 shows 1 sample exceeded the criterion in year 2002.	**MG48HJ**	**0**	**10N**	**39E**	**30**	**Dissolved oxygen**	**Water**
32	**41647**	**2**	**N**	**PATIT CREEK** Swanson, T., (2004), station 32PAT-00.1 shows that 1 of 3 samples (33.3%) collected in 2003 exceed the percentile criterion.	**MG48HJ**	**0**	**10N**	**39E**	**30**	**Fecal Coliform**	**Water**
32	**41172**	**2**	**N**	**PATIT CREEK** Swanson, T., (2003), station 32PAT-00.1 shows that 1 of 5 samples exceeds the criterion.	**MG48HJ**	**0**	**10N**	**39E**	**30**	**pH**	**Water**
32	**40512**	**2**	**N**	**PATIT CREEK** Krause et al. (2001) show excursions beyond the criterion in 1999 and 2000 at station TT 3.	**MG48HJ**	**4.174**	**10N**	**39E**	**16**	**Temperature**	**Water**
32	**41648**	**2**	**N**	**PINE CREEK** Swanson, T., (2004), station 32PIN-01.4 shows that 1 of 3 samples (33.3%) collected in 2003 exceed the percentile criterion.	**ZX47PC**	**1.528**	**06N**	**33E**	**01**	**Fecal Coliform**	**Water**
32	**41173**	**2**	**N**	**PINE CREEK** Swanson, T., (2003), station 32PIN-01.4 shows that 1 of 4 samples exceeds the criterion.	**ZX47PC**	**1.528**	**06N**	**33E**	**01**	**pH**	**Water**
32	**41956**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2004), station 32TOU-07.0 shows a total of 1 sample in year 2003 exceeded the chronic criterion.	**LV94PX**	**11.632**	**07N**	**33E**	**02**	**Ammonia-N**	**Water**
32	**41243**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2004), station 32TOU-25.0 shows that 1 of 3 samples (33.3%) collected in 2003 exceed the percentile criterion.	**LV94PX**	**44.592**	**09N**	**34E**	**02**	**Fecal Coliform**	**Water**
32	**41244**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2004), station 32TOU-30.6 shows that 1 of 2 samples (50%) collected in 2002 exceed the percentile criterion.	**LV94PX**	**54.082**	**09N**	**35E**	**03**	**Fecal Coliform**	**Water**
32	**41653**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2004), station 32TOU-07.0 shows that 1 of 8 samples (12.5%) collected in 2002 exceed the percentile criterion.	**LV94PX**	**11.632**	**07N**	**33E**	**02**	**Fecal Coliform**	**Water**
32	**41655**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2004), station 32TOU-17.8 shows that 1 of 8 samples (12.5%) collected in 2002 exceed the percentile criterion and that 1 of 8 samples (12.5%) collected in 2003 exceed the percentile criterion.	**LV94PX**	**32.443**	**09N**	**34E**	**32**	**Fecal Coliform**	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
32	**41659**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2004), station 32TOU-51.2 shows that 1 of 8 samples (12.5%) collected in 2002 exceed the percentile criterion.	**LV94PX**	**92.077**	**10N**	**38E**	**35**	**Fecal Coliform**		**Water**
32	**41182**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2003), station 32TOU-30.6 shows that 2 of 6 samples exceed the criterion.	**LV94PX**	**54.082**	**09N**	**35E**	**03**	**pH**		**Water**
32	**41184**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2003), station 32TOU-36.6 shows that 1 of 5 samples exceeds the criterion.	**LV94PX**	**66.316**	**09N**	**36E**	**03**	**pH**		**Water**
32	**11105**	**2**	**Y**	**TOUCHET RIVER** Swanson, T., (2003), station 32TOU-53.9 shows 1 samples exceeded the criterion in year 2002. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 32B140 (Touchet R above Dayton) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 97/08/04,	**LV94PX**	**96.838**	**10N**	**39E**	**30**	**Temperature**	One daily maximum excursion for one year only is insufficient to determine persistent temperature impairment and does not meet the WQ Program Policy 1-11 (updated 9/02). Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	**Water**
32	**40511**	**2**	**N**	**TOUCHET RIVER** Krause et al. (2001) show excursions beyond the criterion in 1999 and 2000 at station TT 2.	**LV94PX**	**94.831**	**10N**	**38E**	**25**	**Temperature**		**Water**
32	**40515**	**2**	**N**	**TOUCHET RIVER** Krause et al. (2001) show excursions beyond the criterion in 1999 and 2000 at station TT 6.	**LV94PX**	**99.009**	**10N**	**39E**	**32**	**Temperature**		**Water**
32	**41084**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2003), station 32TOU-07.0 shows 9 samples exceeded the criterion in years 2002 and 2003.	**LV94PX**	**11.632**	**07N**	**33E**	**02**	**Temperature**		**Water**
32	**41085**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2003), station 32TOU-14.2 shows 4 samples exceeded the criterion in years 2002 and 2003.	**LV94PX**	**25.773**	**08N**	**33E**	**02**	**Temperature**		**Water**
32	**41086**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2003), station 32TOU-17.8 shows 10 samples exceeded the criterion in years 2002 and 2003.	**LV94PX**	**32.443**	**09N**	**34E**	**32**	**Temperature**		**Water**
32	**41088**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2003), station 32TOU-30.6 shows 3 samples exceeded the criterion in years 2002 and 2003.	**LV94PX**	**54.082**	**09N**	**35E**	**03**	**Temperature**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
32	**41089**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2003), station 32TOU-34.2 shows 6 samples exceeded the criterion in years 2002 and 2003.	**LV94PX**	**62.817**	**09N**	**36E**	**05**	**Temperature**		**Water**
32	**41090**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2003), station 32TOU-36.6 shows 2 samples exceeded the criterion in years 2002 and 2003.	**LV94PX**	**66.316**	**09N**	**36E**	**03**	**Temperature**		**Water**
32	**41091**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2003), station 32TOU-40.5 shows 9 samples exceeded the criterion in years 2002 and 2003.	**LV94PX**	**72.252**	**09N**	**37E**	**07**	**Temperature**		**Water**
32	**41092**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2003), station 32TOU-44.2 shows 2 samples exceeded the criterion in year 2002.	**LV94PX**	**80.621**	**09N**	**37E**	**11**	**Temperature**		**Water**
32	**41093**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2003), station 32TOU-46.2 shows 6 samples exceeded the criterion in years 2002 and 2003.	**LV94PX**	**84.294**	**09N**	**38E**	**07**	**Temperature**		**Water**
32	**41095**	**2**	**N**	**TOUCHET RIVER** Swanson, T., (2003), station 32TOU-51.2 shows 4 samples exceeded the criterion in years 2002 and 2003.	**LV94PX**	**92.077**	**10N**	**38E**	**35**	**Temperature**		**Water**
32	**41229**	**2**	**N**	**TOUCHET RIVER, N.F. (E.F.)** Swanson, T., (2003), station 32NFT-00.0 shows that 1 of 18 samples exceeds the criterion.	**EQ96XO**	**0**	**10N**	**39E**	**32**	**pH**		**Water**
32	**7968**	**2**	**N**	**TOUCHET RIVER, N.F. (E.F.)** 8 excursions beyond the criterion at USFS STORET station 14090005 (at NFS Boundary) between 7/1/87 and 7/1/91;	**EQ96XO**	**18.003**	**08N**	**40E**	**09**	**Temperature**	The USFS data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. During the 1998 listing cycle, the USFS STORET contact (Margaret Connelly) was asked to verify that these criteria were met for the data used as a basis for listing. USFS did not verify that these data meet the quality assurance criteria.	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
32	**7969**	**2**	**N**	**TOUCHET RIVER, N.F. (E.F.)** 7 excursions beyond the criterion at USFS STORET station 14090015 (RM 19.9) between 7/1/87 and 7/1/91;	**EQ96XO**	**24.768**	**08N**	**40E**	**33**	**Temperature**	The USFS data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. During the 1998 listing cycle, the USFS STORET contact (Margaret Connelly) was asked to verify that these criteria were met for the data used as a basis for listing. USFS did not verify that these data meet the quality assurance criteria.	**Water**
32	**7970**	**2**	**N**	**TOUCHET RIVER, N.F. (E.F.)** 7 excursions beyond the criterion at USFS STORET station 14090016 (RM 18.2) between 7/1/87 and 7/1/91;	**EQ96XO**	**26.758**	**07N**	**40E**	**05**	**Temperature**	The USFS data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. During the 1998 listing cycle, the USFS STORET contact (Margaret Connelly) was asked to verify that these criteria were met for the data used as a basis for listing. USFS did not verify that these data meet the quality assurance criteria.	**Water**
32	**40516**	**2**	**N**	**TOUCHET RIVER, N.F. (E.F.)** Krause et al. (2001) show excursions beyond the criterion in 1999 and 2000 at station TT 7.	**EQ96XO**	**5.174**	**09N**	**39E**	**11**	**Temperature**		**Water**
32	**41127**	**2**	**N**	**TOUCHET RIVER, N.F. (E.F.)** Swanson, T., (2003), station 32NFT-00.0 shows 3 samples exceeded the criterion in years 2002 and 2003.	**EQ96XO**	**0**	**10N**	**39E**	**32**	**Temperature**		**Water**
32	**41175**	**2**	**N**	**TOUCHET RIVER, S.F.** Swanson, T., (2003), station 32SFT-00.0 shows that 2 of 14 samples exceed the criterion.	**MS30PY**	**0**	**10N**	**39E**	**32**	**pH**		**Water**
32	**40513**	**2**	**N**	**TOUCHET RIVER, S.F.** Krause et al. (2001) show excursions beyond the criterion in 1999 and 2000 at station TT 4.	**MS30PY**	**4.608**	**09N**	**39E**	**16**	**Temperature**		**Water**
32	**40514**	**2**	**N**	**TOUCHET RIVER, S.F.** Krause et al. (2001) show excursions beyond the criterion in 1999 and 2000 at station TT 5.	**MS30PY**	**14.02**	**08N**	**39E**	**08**	**Temperature**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
32	**41958**	**2**	**N**	**WALLA WALLA RIVER**	**QE90PI**	**21.034**	**07N**	**32E**	**35**	**Ammonia-N**	**Water**
				Swanson, T., (2004), station 32WAL-15.6 shows a total of 2 samples in year 2002 exceeded the chronic criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 32A070 (WALLA WALLA RIVER NEAR TOUCHET) shows 0 excursions beyond the criterion out of 65 samples collected between 1993 - 2001							
32	**41959**	**2**	**N**	**WALLA WALLA RIVER**	**QE90PI**	**31.84**	**06N**	**33E**	**03**	**Ammonia-N**	**Water**
				Swanson, T., (2004), station 32WAL-22.7 shows a total of 1 sample in year 2003 exceeded the chronic criterion.							
32	**41960**	**2**	**N**	**WALLA WALLA RIVER**	**QE90PI**	**43.417**	**07N**	**34E**	**29**	**Ammonia-N**	**Water**
				Swanson, T., (2004), station 32WAL-27.4 shows a total of 1 sample in year 2002 exceeded the chronic criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 32A100 (WALLA WALLA AT EAST DETOUR ROAD BR) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001							
32	**41961**	**2**	**N**	**WALLA WALLA RIVER**	**QE90PI**	**62.034**	**06N**	**35E**	**11**	**Ammonia-N**	**Water**
				Swanson, T., (2004), station 32WAL-38.7 shows a total of 1 sample in year 2002 exceeded the chronic criterion.							
32	**41366**	**2**	**N**	**WALLA WALLA RIVER**	**QE90PI**	**10.671**	**07N**	**32E**	**21**	**Dissolved oxygen**	**Water**
				Swanson, T. (2003), station 32WAL-09.3 shows 4 samples exceeded the criterion in year 2002. Fischnaller, S. (2003), station Walla02 shows that no samples exceeded the criterion in year 2002.							
32	**41367**	**2**	**N**	**WALLA WALLA RIVER**	**QE90PI**	**12.905**	**07N**	**32E**	**22**	**Dissolved oxygen**	**Water**
				Swanson, T., (2003), station 32WAL-12.0 shows 1 sample exceeded the criterion in year 2002.							
32	**41370**	**2**	**N**	**WALLA WALLA RIVER**	**QE90PI**	**43.417**	**07N**	**34E**	**29**	**Dissolved oxygen**	**Water**
				Swanson, T. (2003), station 32WAL-29.3 shows 1 sample exceeded the criterion in year 2003. Swanson, T. (2003), station 32WAL-27.4 shows that no samples exceeded the criterion in years, 2002 and 2003.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
32	**16788**	**2**	**N**	**WALLA WALLA RIVER** Swanson, T., (2004), station 32WAL-27.4 shows that a total of 16 samples were collected in years 2002 and 2003 and none were found to exceed the criterion. Swanson, T., (2004), station 32WAL-29.3 shows that 1 of 8 samples (12.5%) collected in 2002 exceed the percentile criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 32A100 (WALLA WALLA AT EAST DETOUR ROAD BR) shows a geometric mean of 120 exceeds the criterion and that 20% of the samples exceeds the percentile criterion from 5 samples collected during 1999, with only 1 sample that exceeds the percentile criterion.	**QE90PI**	**43.417**	**07N**	**34E**	**29**	**Fecal Coliform**		**Water**
32	**41661**	**2**	**N**	**WALLA WALLA RIVER** Swanson, T., (2004), station 32WAL-09.3 shows that 1 of 8 samples (12.5%) collected in 2002 exceed the percentile criterion.	**QE90PI**	**10.671**	**07N**	**32E**	**21**	**Fecal Coliform**		**Water**
32	**41669**	**2**	**N**	**WALLA WALLA RIVER** Swanson, T., (2004), station 32WAL-38.7 shows that 1 of 8 samples (12.5%) collected in 2002 exceed the percentile criterion.	**QE90PI**	**62.034**	**06N**	**35E**	**11**	**Fecal Coliform**		**Water**
32	**11112**	**2**	**N**	**WALLA WALLA RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 32A070 (WALLA WALLA RIVER NEAR TOUCHET) shows 1 excursions beyond the criterion out of 5 samples collected between 1993 - 2001	**QE90PI**	**21.034**	**07N**	**32E**	**35**	**Lead**		**Water**
32	**11111**	**2**	**N**	**WALLA WALLA RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 32A070 (WALLA WALLA RIVER NEAR TOUCHET) shows 1 excursions beyond the criterion out of 2 samples collected between 1993 - 2001	**QE90PI**	**21.034**	**07N**	**32E**	**35**	**Mercury**		**Water**
32	**11114**	**2**	**Y**	**WALLA WALLA RIVER** Hallock (2004), Dept. of Ecology ambient station 32A070 shows that 2 of 31 samples exceed the criterion. Swanson, T., (2003), station 32WAL-15.6 shows that 1 of 15 samples exceeds the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 32A070 (WALLA WALLA RIVER NEAR TOUCHET) shows 7 excursions beyond the criterion out of 56 samples collected between 1993 - 2001.	**QE90PI**	**21.034**	**07N**	**32E**	**35**	**pH**	A reassessment of data indicates that seven exceedances out of at least 56 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
32	**41196**	**2**	**N**	**WALLA WALLA RIVER** Swanson, T., (2003), station 32WAL-32.8 shows that 2 of 13 samples exceed the criterion.	**QE90PI**	**52.902**	**07N**	**35E**	**31**	**pH**		**Water**
32	**41097**	**2**	**N**	**WALLA WALLA RIVER** Swanson, T., (2003), station 32WAL-09.3 shows 20 samples exceeded the criterion in years 2002 and 2003.	**QE90PI**	**10.671**	**07N**	**32E**	**21**	**Temperature**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
32	41098	2	N	**WALLA WALLA RIVER** Swanson, T., (2003), station 32WAL-12.0 shows 3 samples exceeded the criterion in years 2002 and 2003.	QE90PI	12.905	07N	32E	22	Temperature	Water
32	41100	2	N	**WALLA WALLA RIVER** Swanson, T., (2003), station 32WAL-27.4 shows 9 samples exceeded the criterion in years 2002 and 2003. Swanson, T., (2003), station 32WAL-29.3 shows 11 samples exceeded the criterion in years 2002 and 2003.	QE90PI	43.417	07N	34E	29	Temperature	Water
32	41102	2	N	**WALLA WALLA RIVER** Swanson, T., (2003), station 32WAL-32.8 shows 4 samples exceeded the criterion in years 2002 and 2003.	QE90PI	52.902	07N	35E	31	Temperature	Water
32	41103	2	N	**WALLA WALLA RIVER** Swanson, T., (2003), station 32WAL-35.2 shows 2 samples exceeded the criterion in year 2002.	QE90PI	56.159	06N	35E	05	Temperature	Water
32	41104	2	N	**WALLA WALLA RIVER** Swanson, T., (2003), station 32WAL-38.7 shows 7 samples exceeded the criterion in years 2002 and 2003.	QE90PI	62.034	06N	35E	11	Temperature	Water
32	36360	2	N	**YELLOWHAWK CREEK** Johnson, 1997. show 1 exucrison beyond the chronic criterion from a samples collected on 18 June 1996.	RK92TG	1.291	06N	35E	01	Aldrin	Water
32	41349	2	N	**YELLOWHAWK CREEK** Swanson, T., (2003), station 32RUS-00.1 shows 1 sample exceeded the criterion in year 2002.	RK92TG	5.81	06N	36E	37	Dissolved oxygen	Water
33	7972	2	Y	**SNAKE RIVER** 2 excursions beyond the criterion at USGS station 13353200 (at Burbank) on 8/7/90 and 9/18/91.	YB86JO	1.364	08N	30E	02	Dissolved oxygen Remarks: This waterbody segment was listed on the 1998 303(d) list based on two exceedances in two years, which is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	Water

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
33	**8102**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**12.825**	**09N**	**31E**	**23**	**Dissolved oxygen**	**Water**
				1 excursion beyond the criterion at Ecology ambient monitoring station 33A070 on 10/5/87 U.S. Army Corps of Engineers unpublished data at station Ice Harbor 6 show excursions beyond the criterion from Hydrolab measurements collected in 1997.						Ecology ambient monitoring station 33A070 has not been sampled since 1991.	
33	**16891**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**108.612**	**13N**	**38E**	**28**	**Dissolved oxygen**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Little Goose 68 show excursions beyond the criterion from Hydrolab measurements collected in 1997.							
33	**42592**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**2.799**	**09N**	**30E**	**35**	**Dissolved oxygen**	**Water**
				Hallock (2003), Dept. of Ecology ambient station 33A050 shows a total of 1 sample in year 2001 exceeded the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 33A050 (SNAKE RIVER NEAR PASCO) shows 0 excursions beyond the criterion out of 60 samples collected between 1993 - 2001.							
33	**16886**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**24.792**	**09N**	**32E**	**02**	**pH**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Ice Harbor 18 show 6 excursions beyond the criterion out of 732 Hydrolab measurements collected in 1994-1997.							
33	**16892**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**108.612**	**13N**	**38E**	**28**	**pH**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Little Goose 68 show 4 excursions beyond the criterion out of 81 Hydrolab measurements collected in 1997.							
33	**16895**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**129.273**	**13N**	**40E**	**08**	**pH**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Little Goose 83 show 60 excursions beyond the criterion out of 737 Hydrolab measurements collected in 1994-1997.							
33	**16890**	**2**	**Y**	**SNAKE RIVER**	**YB86JO**	**12.825**	**09N**	**31E**	**23**	**Temperature**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Ice Harbor 6 show excursions beyond the criterion from Hydrolab measurements collected in 1997.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
33	**16893**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**108.612**	**13N**	**38E**	**28**	**Temperature**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Little Goose 68 show excursions beyond the criterion from Hydrolab measurements collected in 1997.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
34	**22797**	**2**	**N**	**ALKALI (MILLER) LAKE**	**967YPC**	**19N**	**40E**	**01**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 359 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
34	**22798**	**2**	**N**	**ALKALI (PINES) LAKE**	**971NGO**	**20N**	**38E**	**14**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 1652 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
34	**22799**	**2**	**N**	**ALKALI LAKE**	**966HKR**	**22N**	**40E**	**25**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 84 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 34 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
34	**22801**	**2**	**N**	**AMES LAKE**	**620ONQ**	**22N**	**39E**	**22**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 292 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus did not exceed the water quality standards nutrient criterion from samples collected between 2000-2002. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 7 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
34	**22803**	**2**	**N**	**BONNIE LAKE**	**176KTP**	**21N**	**42E**	**20**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 48 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 6.6 ug/L in 1985 which does not exceed the water quality standards nutrient criterion for the Cascades Ecoregion.						
34	**42562**	**2**	**N**	**COW CREEK**	**OW46XT**	**0**	**15N**	**37E**	**27**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 34L050 shows that 1 of 1 sample exceeds the criterion.						
34	**22805**	**2**	**N**	**COW LAKE**	**266PIE**	**19N**	**37E**	**20**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 146 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
34	**22806**	**2**	**N**	**CROOKED KNEE LAKE**	**023QGG**	**20N**	**39E**	**16**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 55 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
34	**22807**	**2**	**N**	**DOWNS LAKE**	**972SVU**	**21N**	**39E**	**25**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 45 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
34	**22808**	**2**	**N**	**FEUSTAL LAKE**	**458WUO**	**21N**	**40E**	**32**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 826 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
34	**22809**	**2**	**N**	**FINNEL LAKE**	**309VRU**	**19N**	**36E**	**36**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 96 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
34	**22810**	**2**	**N**	**FISHTRAP LAKE**	**031WLP**	**21N**	**39E**	**12**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 36 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
34	**22811**	**2**	**N**	**FOLSOM LAKE**	**859VAI**	**20N**	**39E**	**22**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 826 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
34	**22812**	**2**	**N**	**FOURTH OF JULY LAKE**	**970XRL**	**20N**	**38E**	**01**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 68 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
34	**22813**	**2**	**N**	**GRANITE LAKE**	**764UJB**	**23N**	**09E**	**23**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 2877 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
34	**22814**	**2**	**N**	**GREEN LAKE**	**UNK000**	**00U**	**XXU**	**00**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 78 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 14 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
34	**22815**	**2**	**N**	**HALLIN LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 254 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**244PIE**	**19N**	**37E**	**15**		**Total Phosphorus**	**Water**	
34	**22816**	**2**	**N**	**HOG (HOG CANYON) LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 73 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**887NGK**	**22N**	**40E**	**30**		**Total Phosphorus**	**Water**	
34	**22817**	**2**	**N**	**LAVISTA LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**104WRV**	**19N**	**40E**	**13**		**Total Phosphorus**	**Water**	
34	**22818**	**2**	**N**	**MASON LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**116MEL**	**22N**	**02W**	**34**		**Total Phosphorus**	**Water**	
34	**40789**	**2**	**N**	**MASON, LITTLE LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. 12/03/04	**UNK000**	**0**	**00U**	**000U**	**00**	**Total Phosphorus**	**Water**	WRIA changed from 99 to 34. This lake does not appear on Ecology's waterbody GIS layer. TRS=22N-40E-22. -kk
34	**22819**	**2**	**N**	**MEDICAL LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 313 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Smith et al. (2000) concludes that designated uses are being supported.	**492YVP**	**24N**	**41E**	**19**		**Total Phosphorus**	**Water**	
34	**8103**	**2**	**N**	**MISSOURI FLAT CREEK** Pelletier, 1993. Excursions beyond the criterion at the mouth on 7/24/91, 10/1/91 and 10/2/91.	**YU73RJ**	**0.002**	**14N**	**45E**	**05**	**Dissolved oxygen**	**Water**	
34	**40650**	**2**	**N**	**NEGRO CREEK** Adams Conservation District unpublished data (submitted by Chad Atkins on 13 May 2003) at the station called 'Sprague Inlet' show excursions beyond the criterion in 2000 and 2001.	**IP06XQ**	**3.402**	**21N**	**38E**	**23**	**Dissolved oxygen**	**Water**	
34	**40651**	**2**	**N**	**NEGRO CREEK** Adams Conservation District unpublished data (submitted by Chad Atkins on 13 May 2003) at the station called 'Rex Harder' show excursions beyond the criterion in 2002 & 2003.	**IP06XQ**	**1.372**	**21N**	**38E**	**22**	**Dissolved oxygen**	**Water**	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
34	**22820**	**2**	**N**	**NEGRO LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 1168 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**167CWU**	**16N**	**38E**	**30**		**Total Phosphorus**	**Water**	
34	**22821**	**2**	**N**	**OTTER LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 63 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**589MHP**	**24N**	**41E**	**30**		**Total Phosphorus**	**Water**	
34	**22822**	**2**	**N**	**PALM LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 313 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**581YWB**	**20N**	**38E**	**29**		**Total Phosphorus**	**Water**	
34	**11129**	**2**	**N**	**PALOUSE RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 34A070 (PALOUSE RIVER AT HOOPER) shows 1 excursions beyond the criterion out of 62 samples collected between 1993 - 2001	**NX00WG**	**29.009**	**15N**	**37E**	**26**	**Ammonia-N**	**Water**	
34	**8106**	**2**	**Y**	**PALOUSE RIVER** 2 excursions beyond the criterion at USGS station 13349220 (below WWTP near Colfax) on 8/2/94 and 8/3/94.;	**NX00WG**	**0**	**13N**	**37E**	**30**	**Dissolved oxygen**	**Water**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
34	**8108**	**2**	**N**	**PALOUSE RIVER** Kendra, 1988 , 1 excursion on 9/30/87 at RM 119.9	**NX00WG**	**186.88**	**16N**	**45E**	**01**	**Dissolved oxygen**	**Water**	
34	**8110**	**2**	**N**	**PALOUSE RIVER** Kendra, 1988 , 1 excursion on 9/30/87 at RM 118.9	**NX00WG**	**183.5**	**17N**	**45E**	**35**	**Dissolved oxygen**	**Water**	
34	**8118**	**2**	**Y**	**PALOUSE RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 34A070 (PALOUSE RIVER AT HOOPER) shows 0 excursions beyond the criterion out of 59 samples collected between 1993 - 2001 2 excursions beyond the criterion at USGS station 13351000 (at Hooper) on 8/2/94 and 8/3/94.	**NX00WG**	**29.009**	**15N**	**37E**	**26**	**Dissolved oxygen**	**Water**	Recent data from Ecology monitoring from 1993 - 2000 shows that dissolved oxygen standards are being met. This waterbody segment was listed on the 1998 303(d) list based on exceedances in two exceedances, which is insufficient to determine impairment for purposes of the 303(d) list.

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
34	**8121**	**2**	**N**	**PALOUSE RIVER** 1 excursion beyond the criterion at USGS station 465950117371000 (at Endicott-St. John Road near Colfax) on 8/2/94.	**NX00WG**	**101.918**	**17N**	**41E**	**02**	**Dissolved oxygen**		**Water**
34	**42522**	**2**	**N**	**PALOUSE RIVER** Hallock (2003), Dept. of Ecology ambient station 34A120 shows a total of 2 samples in year 2002 exceeded the criterion.	**NX00WG**	**141.051**	**16N**	**43E**	**11**	**Dissolved oxygen**		**Water**
34	**8112**	**2**	**Y**	**PALOUSE RIVER** Hallock (2004), Dept. of Ecology ambient station 34A170 shows that 4 of 31 samples exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 34A170 (PALOUSE RIVER AT PALOUSE) shows 8 excursions beyond the criterion out of 59 samples collected between 1993 - 2001. 1 excursion beyond the criterion at USGS station 13345310 (at SR 272 near Palouse) on 8/2/94.	**NX00WG**	**189.622**	**16N**	**46E**	**06**	**pH**	An assessment of data indicates that nine exceedances out of at least 60 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
34	**8113**	**2**	**N**	**PALOUSE RIVER** 1 excursion beyond the criterion at USGS station 13345510 (at Elberto road near Elberton) on 8/2/94.	**NX00WG**	**162.106**	**17N**	**44E**	**11**	**pH**		**Water**
34	**8119**	**2**	**N**	**PALOUSE RIVER** 1 excursion beyond the criterion at USGS station 13349310 (at Winona) on 8/5/94. 2 excursions beyond the criterion at USGS station 13349220 (below WWTP near Colfax) on 8/2/94 and 8/3/94.;	**NX00WG**	**0**	**13N**	**37E**	**30**	**pH**		**Water**
34	**8122**	**2**	**Y**	**PALOUSE RIVER** 2 excursions beyond the criterion at USGS station 465950117371000 (at Endicott-St. John Road near Colfax) on 8/26/93 and 8/2/94.	**NX00WG**	**101.918**	**17N**	**41E**	**02**	**pH**	This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
34	**8114**	**2**	**Y**	**PALOUSE RIVER** 2 excursions beyond the criterion at USGS station 13349220 (below WWTP near Colfax) on 8/2/94 and 8/3/94.;	**NX00WG**	**0**	**13N**	**37E**	**30**	**Temperature**	The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
34	**8117**	**2**	**N**	**PALOUSE RIVER** 1 excursion beyond the criterion at USGS station 13345510 (at Elberto road near Elberton) on 8/2/94.	**NX00WG**	**162.106**	**17N**	**44E**	**11**	**Temperature**		**Water**
34	**8123**	**2**	**Y**	**PALOUSE RIVER** 2 excursions beyond the criterion at USGS station 464950117371000 (at Endicott-St. John Road near Colfax) on 8/26/93 and 8/2/94.	**NX00WG**	**101.918**	**17N**	**41E**	**02**	**Temperature**	The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	**Water**
34	**16923**	**2**	**N**	**PALOUSE RIVER** U.S. Army Corps of Engineers unpublished data at station Palouse 6 show excursions beyond the criterion from Hydrolab measurements collected in 1997.	**NX00WG**	**7.882**	**14N**	**37E**	**31**	**Temperature**		**Water**
34	**11136**	**2**	**N**	**PALOUSE RIVER, S.F.** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 34B110 (SF PALOUSE RIVER AT PULLMAN) shows 5 excursions beyond the criterion out of 69 samples collected between 1993 - 2001	**ZX82FM**	**33.484**	**14N**	**45E**	**06**	**Ammonia-N**		**Water**
34	**8125**	**2**	**N**	**PALOUSE RIVER, S.F.** 2 excursions beyond the criterion at USGS station 464539117133000 (at Armstrong Road near Pullman) on 8/2/94 and 8/3/94;	**ZX82FM**	**29.515**	**15N**	**44E**	**25**	**Dissolved oxygen**		**Water**
34	**8126**	**2**	**Y**	**PALOUSE RIVER, S.F.** Pelletier, 1993., excursions beyond the criterion at RM 23.6 on 7/24/91 and 7/25/91.	**ZX82FM**	**36.577**	**14N**	**45E**	**08**	**Dissolved oxygen**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
34	**8132**	**2**	**Y**	**PALOUSE RIVER, S.F.** Joy, 1987, 2 excursions beyond the criterion at RM 21.2, 20.9, and 20.6 on 9/16/87 and 9/17/87.	**ZX82FM**	**31.499**	**15N**	**45E**	**31**	**Dissolved oxygen**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
34	**8133**	**2**	**Y**	**PALOUSE RIVER, S.F.** Joy, 1987, 1 excursion beyond the criterion at RM 18.7 on 9/17/87.	**ZX82FM**	**28.536**	**15N**	**44E**	**26**	**Dissolved oxygen**	**Water**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
34	**8137**	**2**	**Y**	**PALOUSE RIVER, S.F.** Pelletier, 1993., excursions beyond the criterion at RM 21.2 on 7/25/91 and 10/2/91.	**ZX82FM**	**30.942**	**15N**	**44E**	**36**	**Dissolved oxygen**	**Water**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
34	**8139**	**2**	**N**	**PALOUSE RIVER, S.F.** Pelletier, 1993., excursions beyond the criterion at RM 14.9 on 7/25/91 and 10/2/91.	**ZX82FM**	**22.237**	**15N**	**44E**	**15**	**Dissolved oxygen**	**Water**	
34	**8141**	**2**	**Y**	**PALOUSE RIVER, S.F.** Pelletier, 1993., excursions beyond the criterion at RM 13.1 on 7/24/91 and 10/2/91.	**ZX82FM**	**20.462**	**15N**	**44E**	**10**	**Dissolved oxygen**	**Water**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
34	**8128**	**2**	**N**	**PALOUSE RIVER, S.F.** 1 excursion beyond the criterion at USGS station 464539117133000 (at Armstrong Road near Pullman) on 8/2/94.	**ZX82FM**	**29.515**	**15N**	**44E**	**25**	**pH**	**Water**	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
34	**11135**	**2**	**Y**	**PALOUSE RIVER, S.F.**	**ZX82FM**	**33.484**	**14N**	**45E**	**06**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 34B110 shows that 2 of 33 samples exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 34B110 (SF PALOUSE RIVER AT PULLMAN) shows 0 excursions beyond the criterion out of 41 samples collected between 1993 - 2001.						Changed from Category 1 to Category 2 on 01/19/05 due to consolidation with Listing ID 42722. -kk This listing was on the 1998 303(d) list based on two excursions in 1991 & 1992. More recent data from Ecology ambient monitoring from 1993 - 2000 shows that pH standards are being met.	
34	**8129**	**2**	**N**	**PALOUSE RIVER, S.F.**	**ZX82FM**	**34.334**	**14N**	**45E**	**05**	**Temperature**	**Water**
				1 excursion beyond the criterion at USGS station 13348000 (at Pullman) on 8/4/94.;							
34	**8131**	**2**	**Y**	**PALOUSE RIVER, S.F.**	**ZX82FM**	**29.515**	**15N**	**44E**	**25**	**Temperature**	**Water**
				8 excursions beyond the criterion at USGS station 464539117133000 (at Armstrong Road near Pullman) in 1994						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
34	**8144**	**2**	**Y**	**PARADISE CREEK**	**YO22BZ**	**9.581**	**14N**	**46E**	**05**	**Dissolved oxygen**	**Water**
				Pelletier, 1993. Excursions beyond the criterion at RM 6.4 (Idaho State Boundary) during 7/24/91, 7/25/91, 10/2/91 and 10/1/91.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
34	**8145**	**2**	**Y**	**PARADISE CREEK**	**YO22BZ**	**5.619**	**14N**	**45E**	**01**	**Dissolved oxygen**	**Water**
				Pelletier, 1993, excursions beyond the criterion at RM 3.4 during 7/24/91, 10/1/91 and 10/2/91.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
34	**8146**	**2**	**Y**	**PARADISE CREEK**	**YO22BZ**	**2.065**	**14N**	**45E**	**03**	**Dissolved oxygen**	**Water**
				Pelletier, 1993, excursions beyond the criterion at RM 1.0 during 7/24/91, 7/25/91, 10/1/91 and 10/2/91.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
34	**8147**	**2**	**N**	**PARADISE CREEK**	**YO22BZ**	**0**	**14N**	**45E**	**05**	**Dissolved oxygen**	**Water**
				Pelletier, 1993, 1 excursion beyond the criterion at RM 0 on 7/25/91.							
34	**8143**	**2**	**N**	**PARADISE CREEK**	**YO22BZ**	**2.065**	**14N**	**45E**	**03**	**Temperature**	**Water**
				1 excursion beyond the criterion at USGS station 13346990 (at Pullman) on 8/4/94.							
34	**22823**	**2**	**N**	**PHILLEO LAKE**	**102RXO**	**22N**	**42E**	**11**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 385 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
34	**8148**	**2**	**Y**	**PINE CREEK**	**JH09DA**	**10.282**	**20N**	**42E**	**28**	**Dissolved oxygen**	**Water**
				2 excursions beyond the criterion at USGS station 13349410 (at Pine City Road in Pine City) in 1994.						This waterbody segment was listed on the 1998 303(d) list based on two excursions in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
34	**11127**	**2**	**N**	**PINE CREEK**	**JH09DA**	**34.506**	**20N**	**43E**	**10**	**Dissolved oxygen**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 34F090 (Pine Cr @ Rosalia) shows 3 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 measured on these dates: 95/10/02, 96/07/08, 96/08/05,							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
34	**16793**	**2**	**N**	**PINE CREEK**	**JH09DA**	**34.506**	**20N**	**43E**	**10**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 34F090 meets tested standards for fecal coliform. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 34F090 (Pine Cr. at Rosalia) shows a geometric mean of 61 does not exceed the criterion and that 33% of the samples exceeds the percentile criterion from 3 samples collected during 1996. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 34F090 (Pine Cr. at Rosalia) shows a geometric mean of 199 exceeds the criterion and that 67% of the samples exceeds the percentile criterion from 3 samples collected during 1995.							
34	**6731**	**2**	**Y**	**PINE CREEK**	**JH09DA**	**10.282**	**20N**	**42E**	**28**	**pH**	**Water**
				U.S.Geological Survey data from NWIS database station 13349410 (at Pine City Road in Pine City) shows 7 excursions beyond the criterion out of 57 samples collected in 1992 and 1994.						An assessment of data indicates that seven exceedances out of at least 57 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
34	**8149**	**2**	**Y**	**PINE CREEK**	**JH09DA**	**10.282**	**20N**	**42E**	**28**	**Temperature**	**Water**
				10 excursions beyond the criterion at USGS station 13349410 (at Pine City Road in Pine City) between 5/19/93 and 9/6/94 per the STORET violations report.						The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water. This listing was based on data pulled from STORET. In the process, only the number of excursion were requested. No comparison exists between the number samples and the number of excursions because the number of samples is unknown. -kk	
34	**11126**	**2**	**N**	**PINE CREEK**	**JH09DA**	**34.506**	**20N**	**43E**	**10**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 34F090 (Pine Cr @ Rosalia) shows 1 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 measured on these dates: 96/07/08,							
34	**8815**	**2**	**N**	**REBEL FLAT CREEK**	**MT96QP**	**6.707**	**17N**	**40E**	**25**	**Chlorine**	**Water**
				Willms and Kendra, 1990, 1 excursion beyond the criterion at RM 5.4 on 10/11/88.						Water quality-based effluent limits for chlorine were included in the NPDES permit for the Town of Endicott amended in 12/96.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
34	**8816**	**2**	**N**	**REBEL FLAT CREEK** Willms and Kendra, 1990, 1 excursion beyond the criterion at RM 5.9 on 10/11/88.	**MT96QP**	**9.686**	**17N**	**41E**	**31**	**Chlorine**	Water quality-based effluent limits for chlorine were included in the NPDES permit for the Town of Endicott amended in 12/96.	**Water**
34	**8151**	**2**	**N**	**REBEL FLAT CREEK** Hallock (2004), Dept. of Ecology ambient station 34K050 shows that of 2 samples none exceed the criterion. 1 excursion beyond the criterion at USGS station 13349320 (at Winona) on 3/9/94.	**MT96QP**	**0**	**17N**	**40E**	**29**	**pH**		**Water**
34	**8152**	**2**	**N**	**REBEL FLAT CREEK** 1 excursion beyond the criterion at USGS station 13349320 (at Winona) on 7/19/94.	**MT96QP**	**0**	**17N**	**40E**	**29**	**Temperature**		**Water**
34	**22824**	**2**	**N**	**RING LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 36 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**441ZQG**	**00U**	**XXU**	**00**		**Total Phosphorus**		**Water**
34	**8153**	**2**	**N**	**ROCK CREEK** 1 excursion beyond the criterion at USGS station 13349900 (Rock Ck near Winona) on 4/21/94.	**LW80TE**	**0**	**16N**	**39E**	**05**	**pH**	Changed from WASWIS MT96QP (REBEL FLAT CREEK) to LW80TE (ROCK CREEK) on 7/14/05. -kk	**Water**
34	**22825**	**2**	**N**	**ROCK LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 192 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 4 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Cascades Ecoregion.	**480IXX**	**25N**	**11E**	**25**		**Total Phosphorus**	The basis cited for the assessment applies to the entire lake. The center grid segment of the lake was selected to represent this information.	**Water**
34	**22826**	**2**	**N**	**SHEEP LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 1252 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 2 ug/L in 1985 which does not exceed the water quality standards nutrient criterion for the Cascades Ecoregion.	**105PAA**	**20N**	**39E**	**08**		**Total Phosphorus**		**Water**
34	**8154**	**2**	**N**	**SILVER CREEK** Determan, 1987, 2 excursions beyond the criterion at RM 45., 4.4 and 3.9 on 10/7/86 and 10/8/86.	**VW12BW**	**5.03**	**17N**	**45E**	**05**	**Dissolved oxygen**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
34	**22828**	**2**	**N**	**SPRAGUE LAKE**	**788YYQ**	**47118C0F6**	**47.255**	**118.065**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 111 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						The basis cited for the assessment applies to the entire lake. The center grid segment of the lake was selected to represent this information.	
34	**22829**	**2**	**N**	**STEVENS LAKE**	**897VGI**	**19N**	**40E**	**34**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 584 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						Changed from Category 5 to Category 2 on 7/19/05 because the Basis represents a single sampling event and therefore does not meet the criteria for persistent pollution. -kk This listing was split due an error which combined two different Lake Stevens. See Listing ID 43024. 10/16/04 -kk	
34	**22830**	**2**	**N**	**TEXAS LAKE**	**968UXB**	**18N**	**39E**	**26**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 111 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
34	**22852**	**2**	**N**	**TWELVE MILE LAKE**	**847MUF**	**17N**	**38E**	**09**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 42 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
34	**22853**	**2**	**N**	**TWELVE-MILE SLOUGH LAKE**	**811RRF**	**17N**	**38E**	**16**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 127 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
34	**8155**	**2**	**N**	**UNION FLAT CREEK**	**HA80OL**	**14.345**	**16N**	**39E**	**24**	**Dissolved oxygen**	**Water**
				1 excursion beyond the criterion at USGS station 13350700 (at LaCrosse) on 8/3/94.							
34	**8156**	**2**	**N**	**UNION FLAT CREEK**	**HA80OL**	**14.345**	**16N**	**39E**	**24**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 34J070 shows that of 1 sample none exceeded the criterion. 1 excursion beyond the criterion at USGS station 13350700 (at LaCrosse) on 8/3/94.							
34	**42555**	**2**	**N**	**UNION FLAT CREEK**	**HA80OL**	**1.262**	**16N**	**38E**	**36**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 34J050 shows that 1 of 2 samples exceed the criterion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
34	**8157**	**2**	**Y**	**UNION FLAT CREEK**	**HA80OL**	**14.345**	**16N**	**39E**	**24**	**Temperature**	**Water**
				2 excursions beyond the criterion at USGS station 13350700 (at LaCrosse) on 8/26/92 and 8/3/94.						The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
34	**22855**	**2**	**N**	**WILLOW LAKE**	**095HFX**	**24N**	**41E**	**22**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 770 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 111 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
35	**40536**	**2**	**N**	**ALPOWA CREEK**	**EU09ED**	**3.126**	**11N**	**44E**	**25**	**Temperature**	**Water**
				Washington State University (2001) show excursions beyond the criterion in 1999 and 2000 at station ALP 1 (SR 12 at Wilson Banner ranch).							
35	**40537**	**2**	**N**	**ALPOWA CREEK**	**EU09ED**	**11.279**	**11N**	**44E**	**17**	**Temperature**	**Water**
				Washington State University (2001) show excursions beyond the criterion in 1999 and 2000 at station ALP 2 (SR 12 at Flerchinger's).							
35	**40538**	**2**	**N**	**ALPOWA CREEK**	**EU09ED**	**17.329**	**11N**	**43E**	**26**	**Temperature**	**Water**
				Washington State University (2001) show excursions beyond the criterion in 1999 and 2000 at station ALP 3 (SR 12 at Landkammer's).							
35	**11151**	**2**	**N**	**ASOTIN CREEK**	**KP78KL**	**0**	**10N**	**46E**	**16**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 35D070 shows that 2 of 12 samples exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 35D070 (Asotin Cr @ Asotin) shows 1 excursions beyond the criterion out of 21 samples collected between 1993 - 2001.							
35	**10458**	**2**	**N**	**CRYSTAL SPRING**	**XY59VF**	**0**	**12N**	**42E**	**31**	**Fecal Coliform**	**Water**
				Cusimano, 1992. station RM 24.2 (Crystal Springs (RM 24.2)) shows a single sample exceeds the geometric mean criterion out of 1 samples collected during 1991.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
35	**8158**	**2**	**N**	**CUMMINGS CREEK**	**BG41HE**	**6.425**	**09N**	**41E**	**02**	**Temperature**	**Water**
				7 excursions beyond the criterion at USFS STORET station 14030017 (at NFS Boundary) between 7/1/87 and 7/1/91						The USFS data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. During the 1998 listing cycle, the USFS STORET contact (Margaret Connelly) was asked to verify that these criteria were met for the data used as a basis for listing. USFS did not verify that these data meet the quality assurance criteria.	
35	**40535**	**2**	**N**	**DEADMAN CREEK, N.F.**	**XW61JA**	**0.555**	**13N**	**42E**	**20**	**Temperature**	**Water**
				Washington State University (2001) show excursions beyond the criterion in 1999 and 2001 at station ND (Upstream of confluence with Lower Deadman Creek).							
35	**22439**	**2**	**N**	**LITTLE TUCANNON CREEK**	**AY31EQ**	**0**	**09N**	**41E**	**30**	**Temperature**	**Water**
				Umatilla National Forest unpublished data from station LTCNN@MT (Little Tucannon Cr @ mouth) show a maximum 7-day mean of maximum daily tempertures of 15 degrees C and a maximum daily value of 15.6 degress C from measurements collected in 2001. Umatilla National Forest unpublished data from station Little Tucannon Cr @ mouth (AY31EQ) show a maximum 7-day mean of maximum daily tempertures of 15.6 degrees C and a maximum daily value of 15.6 degress C from measurements collected in 2002.							
35	**22435**	**2**	**N**	**PANJAB CREEK**	**PO98IR**	**0**	**08N**	**41E**	**05**	**Temperature**	**Water**
				Umatilla National Forest unpublished data from station PANJABMT (Panjab Cr @mouth) show a maximum 7-day mean of maximum daily tempertures of 15.6 degrees C and a maximum daily value of 16.1 degress C from measurements collected in 2001. Umatilla National Forest unpublished data from station Panjab Cr @mouth (PO98IR) show a maximum 7-day mean of maximum daily tempertures of 16.1 degrees C and a maximum daily value of 15.6 degress C from measurements collected in 2002.							
35	**8160**	**2**	**Y**	**PATAHA CREEK**	**BT00LT**	**35.381**	**12N**	**41E**	**36**	**Fecal Coliform**	**Water**
				Data collected by Umatilla National Forest (submitted by Jeff Blackwood on 10/29/97) show possible excursions from samples collected at RM 23 during 10/97.						Criteria for showing persistent impairment for bacteria in Policy 1-11 indicates that when fewer than five samples are available the geometric mean can not be applied. The data submitted by the Umatilla National Forest are calculated geometric means of 4 samples. The individual sample results were not included in submittal therefore a percentile criterion cannot be used to assess the derived calculations reported.	
35	**10454**	**2**	**N**	**PATAHA CREEK**	**BT00LT**	**29.873**	**11N**	**41E**	**04**	**Fecal Coliform**	**Water**
				Cusimano, 1992. station RM 18.9 (Pataha Creek (RM 18.9)) shows 1 single samples exceed the geometric mean criterion out of 2 samples collected during 1991.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
35	**10457**	**2**	**N**	**PATAHA CREEK**	**BT00LT**	**37.051**	**12N**	**42E**	**31**	**Fecal Coliform**	**Water**
				Cusimano, 1992. station RM 23.4 (Pataha Creek (RM 23.4)) shows 2 single samples exceed the geometric mean criterion out of 2 samples collected during 1991.							
35	**10460**	**2**	**N**	**PATAHA CREEK**	**BT00LT**	**44.189**	**11N**	**42E**	**02**	**Fecal Coliform**	**Water**
				Cusimano, 1992. station RM 28.0 (Pataha Creek (RM 28.0)) shows 3 single samples exceed the geometric mean criterion out of 3 samples collected during 1991.							
35	**11140**	**2**	**N**	**PATAHA CREEK**	**BT00LT**	**9.929**	**12N**	**39E**	**02**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 35F070 (Pataha Ck @ Archer Rd) shows 3 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 97/07/06, 97/08/03, 97/09/07,							
35	**40532**	**2**	**N**	**PATAHA CREEK**	**BT00LT**	**66.125**	**10N**	**42E**	**15**	**Temperature**	**Water**
				Washington State University (2001) show excursions beyond the criterion in 2001 at station PAT 5 (SE of Columbia Center on Pataha Creek Road).							
35	**8833**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**217.368**	**11N**	**46E**	**16**	**4,4'-DDD**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 153648 (.25 mile below Clearwater) on 7/24/75.							
35	**8832**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**204.927**	**11N**	**45E**	**20**	**4,4'-DDE**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543018 (7 miles below Clarkston) on 1/11/72.;							
35	**8840**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**217.368**	**11N**	**46E**	**16**	**4,4'-DDE**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 153648 (.25 mile below Clearwater) on 7/24/75.							
35	**8842**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**211.937**	**11N**	**45E**	**24**	**4,4'-DDE**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 153652 (5 mile below Cleawater) on 7/24/75.							
35	**8843**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**195.366**	**12N**	**44E**	**25**	**4,4'-DDE**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 153654 (15 miles below Clearwater Confluence) on 7/24/75.							
35	**19020**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**204.927**	**11N**	**45E**	**20**	**4,4'-DDE**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-E (River Mile 130) sample #97140800. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-E (River Mile 130) sample #97140801.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
35	**19022**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**211.937**	**11N**	**45E** 24	**4,4'-DDE**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-F (River Mile 135) sample #97320850. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-F (River Mile 135) sample #97320851.						
35	**8837**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**204.927**	**11N**	**45E** 20	**Aldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543018 (7 miles below Clarkston) on 8/31/71.						
35	**19052**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**204.927**	**11N**	**45E** 20	**Chlordane**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-E (River Mile 130) sample #97140800. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-E (River Mile 130) sample #97140801.						
35	**19054**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**211.937**	**11N**	**45E** 24	**Chlordane**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-F (River Mile 135) sample #97320851. EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-F (River Mile 135) sample #97320850. EVS Environmental Consultants (2000) show no excursions beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-F (River Mile 135) sample #97320850. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-F (River Mile 135) sample #97320851.						
35	**8831**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**204.927**	**11N**	**45E** 20	**DDT**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543018 (7 miles below Clarkston) on 1/11/72.;						
35	**8844**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**195.366**	**12N**	**44E** 25	**DDT**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 153654 (15 miles below Clearwater Confluence) on 7/24/75.						
35	**8838**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**204.927**	**11N**	**45E** 20	**Dieldrin**	**Water**
				2 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543018 (7 miles below Clarkston) collected in 1971.;					This listing is based on very old data and is questionable. (Johnson, ECY/EAP, 2003)	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
35	**8845**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**195.366**	**12N**	**44E**	**25**	**Dieldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 153654 (15 miles below Clearwater Confluence) on 7/24/75.							
35	**14218**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**217.368**	**11N**	**46E**	**16**	**Dissolved oxygen**	**Water**
				Falter, 1990. shows excursions beyond the criterion at RM 139 in 1988.							
35	**14221**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**201.873**	**11N**	**45E**	**08**	**Dissolved oxygen**	**Water**
				Falter, 1990. shows excursions beyond the criterion at RM 129 in 1988.							
35	**14224**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**187.94**	**12N**	**44E**	**02**	**Dissolved oxygen**	**Water**
				Falter, 1990. shows excursions beyond the criterion at RM 120 in 1988. U.S. Army Corps of Engineers unpublished data at station Centennial Island show excursions beyond the criterion from Hydrolab measurements collected in 1994 & 1995. National Marine Fisheries Service unpublished data measured at Centennial Island show excursions beyond the criterion from hydrolab measurements collected during 1994.							
35	**14227**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**171.97**	**14N**	**43E**	**34**	**Dissolved oxygen**	**Water**
				Falter, 1990. shows excursions beyond the criterion at RM 109 in 1989.							
35	**15179**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**206.746**	**11N**	**45E**	**21**	**Dissolved oxygen**	**Water**
				National Marine Fisheries Service unpublished data measured at Centennial Island show excursions beyond the criterion from hydrolab measurements collected during 1994. U.S. Army Corps of Engineers unpublished data at station Silcott Island show excursions beyond the criterion from Hydrolab measurements collected in 1994.							
35	**15181**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**173.271**	**13N**	**43E**	**03**	**Dissolved oxygen**	**Water**
				National Marine Fisheries Service unpublished data measured at Centennial Island show excursions beyond the criterion from hydrolab measurements collected during 1994. U.S. Army Corps of Engineers unpublished data at station Offield show excursions beyond the criterion from Hydrolab measurements collected in 1994 & 1995.							
35	**16909**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**202.905**	**11N**	**45E**	**18**	**Dissolved oxygen**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Lower Granite 129 show excursions beyond the criterion from Hydrolab measurements collected in 1994 &1997.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter / Remarks	Medium
35	16912	2	N	**SNAKE RIVER**	YB86JO	63.254	12N	34E	03	**Dissolved oxygen**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Lower Monumental 40 show excursions beyond the criterion from Hydrolab measurements collected in 1997.							
35	16915	2	N	**SNAKE RIVER**	YB86JO	78.523	13N	35E	26	**Dissolved oxygen**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Lower Monumental 50 show excursions beyond the criterion from Hydrolab measurements collected in 1997.							
35	16930	2	N	**SNAKE RIVER**	YB86JO	231.09	10N	46E	22	**Dissolved oxygen**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Snake 148 show excursions beyond the criterion from Hydrolab measurements collected in 1997.							
35	8836	2	N	**SNAKE RIVER**	YB86JO	195.366	12N	44E	25	**Endrin**	**Water**
				1 excursion beyond the chronic criterion at USEPA station 153654 (15 miles below Clearwater Confluence) on 7/24/75.							
35	8834	2	N	**SNAKE RIVER**	YB86JO	195.366	12N	44E	25	**Heptachlor**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 153654 (15 miles below Clearwater Confluence) on 7/24/75.							
35	8835	2	N	**SNAKE RIVER**	YB86JO	195.366	12N	44E	25	**Heptachlor epoxide**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 153654 (15 miles below Clearwater Confluence) on 7/24/75.							
35	14222	2	N	**SNAKE RIVER**	YB86JO	201.873	11N	45E	08	**pH**	**Water**
				Falter, 1990. shows 2 excursions beyond the criterion out of 11 measurements collected at RM 129 in 1988 and 1989.							
35	14228	2	N	**SNAKE RIVER**	YB86JO	171.97	14N	43E	34	**pH**	**Water**
				Falter, 1990. shows no excursions beyond the criterion out of 3 measurements collected at RM 109 in 1989.							
35	16901	2	N	**SNAKE RIVER**	YB86JO	168.204	14N	43E	29	**pH**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Lower Granite 106 show 7 excursions beyond the criterion out of 72 Hydrolab measurements collected in 1997. Pickett, 2002, shows no excursions beyond the citerion from measurements collected in May and June 2002.							
35	16904	2	N	**SNAKE RIVER**	YB86JO	170.266	14N	43E	33	**pH**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Lower Granite 108 show 77 excursions beyond the criterion out of 1157 Hydrolab measurements collected in 1994-1997.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information				Parameter	Remarks	Medium
35	**16907**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**185.559**	**13N**	**44E**	**33**	**pH**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Lower Granite 118 show 45 excursions beyond the criterion out of 547 Hydrolab measurements collected in 1994-1997.							
35	**16910**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**202.905**	**11N**	**45E**	**18**	**pH**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Lower Granite 129 show 60 excursions beyond the criterion out of 986 Hydrolab measurements collected in 1994-1997.							
35	**16916**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**78.523**	**13N**	**35E**	**26**	**pH**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Lower Monumental 50 show 10 excursions beyond the criterion out of 124 Hydrolab measurements collected in 1994-1997.							
35	**14217**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**217.368**	**11N**	**46E**	**16**	**Temperature**	**Water**
				Falter, 1990. shows excursions beyond the criterion at RM 139 in 1988 and 1989.							
35	**14220**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**201.873**	**11N**	**45E**	**08**	**Temperature**	**Water**
				Falter, 1990. shows excursions beyond the criterion at RM 129 in 1988 and 1989.							
35	**14223**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**187.94**	**12N**	**44E**	**02**	**Temperature**	**Water**
				Falter, 1990. shows excursions beyond the criterion at RM 120 in 1988 and 1989. U.S. Army Corps of Engineers unpublished data at station Centennial Island show excursions beyond the criterion from Hydrolab measurements collected in 1994 & 1995. National Marine Fisheries Service unpublished data measured at Centennial Island show excursions beyond the criterion from hydrolab measurements collected during 1994.							
35	**14226**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**171.97**	**14N**	**43E**	**34**	**Temperature**	**Water**
				Falter, 1990. shows excursions beyond the criterion at RM 109 in 1989.							
35	**15176**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**206.746**	**11N**	**45E**	**21**	**Temperature**	**Water**
				National Marine Fisheries Service unpublished data measured at Centennial Island show excursions beyond the criterion from hydrolab measurements collected during 1994. U.S. Army Corps of Engineers unpublished data at station Silcott Island show excursions beyond the criterion from Hydrolab measurements collected in 1994 & 1995.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
35	**15180**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**173.271**	**13N**	**43E**	**03**	**Temperature**	**Water**
				National Marine Fisheries Service unpublished data measured at Centennial Island show excursions beyond the criterion from hydrolab measurements collected during 1994. U.S. Army Corps of Engineers unpublished data at station Offield show excursions beyond the criterion from Hydrolab measurements collected in 1994 & 1995.						
35	**16902**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**168.204**	**14N**	**43E**	**29**	**Temperature**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Lower Granite 106 show excursions beyond the criterion from Hydrolab measurements collected in 1997. Pickett, 2002, shows no excursions beyond the citerion from measurements collected in May and June 2002. Pickett, 2002, shows no excursions beyond the citerion from measurements collected in May and June 2002. U.S. Army Corps of Engineers unpublished data at station Lower Granite 106 show excursions beyond the criterion from Hydrolab measurements collected in 1997.						
35	**16908**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**185.559**	**13N**	**44E**	**33**	**Temperature**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Lower Granite 118 show excursions beyond the criterion from Hydrolab measurements collected in 1994 &1997.						
35	**16917**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**78.523**	**13N**	**35E**	**26**	**Temperature**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Lower Monumental 50 show excursions beyond the criterion from Hydrolab measurements collected in 1997.						
35	**16932**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**231.09**	**10N**	**46E**	**22**	**Temperature**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Snake 148 show excursions beyond the criterion from Hydrolab measurements collected in 1997.						
35	**8829**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**195.366**	**12N**	**44E**	**25**	**Total PCBs**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 153654 (15 miles below Clearwater Confluence) on 7/24/75.						
35	**19123**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**204.927**	**11N**	**45E**	**20**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-E (River Mile 130) sample #97140800. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-E (River Mile 130) sample #97140801.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
35	**19125**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**211.937**	**11N**	**45E** 24	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-F (River Mile 135) sample #97320850. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1997 at station 13-F (River Mile 135) sample #97320851.						
35	**8830**	**2**	**N**	**SNAKE RIVER**	**YB86JO**	**195.366**	**12N**	**44E** 25	**Toxaphene**	**Water**
				1 excursion beyond the chronic criterion at USEPA station 153654 (15 miles below Clearwater Confluence) on 7/24/75.						
35	**16935**	**2**	**N**	**TUCANNON RIVER**	**KL66VJ**	**2.518**	**12N**	**37E** 10	**Temperature**	**Water**
				U.S. Army Corps of Engineers unpublished data at station Tucannon 1 show excursions beyond the criterion from Hydrolab measurements collected in 1997.						
35	**40539**	**2**	**N**	**TUCANNON RIVER**	**KL66VJ**	**5.89**	**12N**	**37E** 13	**Temperature**	**Water**
				Krause et al. (2001) show excursions beyond the criterion in 1999 and 2000 at station TC 1.						
35	**40540**	**2**	**N**	**TUCANNON RIVER**	**KL66VJ**	**17.173**	**12N**	**38E** 24	**Temperature**	**Water**
				Krause et al. (2001) show excursions beyond the criterion in 1999 and 2000 at station TC 2.						
35	**40541**	**2**	**N**	**TUCANNON RIVER**	**KL66VJ**	**20.059**	**12N**	**39E** 30	**Temperature**	**Water**
				Krause et al. (2001) show excursions beyond the criterion in 1999 and 2000 at station TC 3.						
35	**40543**	**2**	**N**	**TUCANNON RIVER**	**KL66VJ**	**52.776**	**10N**	**41E** 09	**Temperature**	**Water**
				Krause et al. (2001) show excursions beyond the criterion in 1999 and 2000 at station TC 5.						
35	**40545**	**2**	**N**	**TUCANNON RIVER**	**KL66VJ**	**60.84**	**10N**	**41E** 35	**Temperature**	**Water**
				Krause et al. (2001) show excursions beyond the criterion in 2001 at station TC 7.						
36	**22856**	**2**	**N**	**BAILIE POND**	**689IQG**	**13N**	**30E**	24	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 335 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
36	**22857**	**2**	**N**	**CLARK LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 111 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 10 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Northern Rockies Ecoregion.	**687XHZ**	**32N**	**37E**	**34**		**Total Phosphorus**		**Water**
36	**19232**	**2**	**N**	**COLUMBIA RIVER** EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1998 at station 9-I (River Mile 376) sample #98024002.	**NN57SG**	**46119H5B2**	**46.715**	**119.525**		**4,4'-DDE**		**Tissue**
36	**19249**	**2**	**N**	**COLUMBIA RIVER** EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1998 at station 9-I (River Mile 376) sample #98024002.	**NN57SG**	**46119H5B2**	**46.715**	**119.525**		**Aldrin**		**Tissue**
36	**19294**	**2**	**N**	**COLUMBIA RIVER** EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1998 at station 9-I (River Mile 376) sample #98024002.	**NN57SG**	**46119H5B2**	**46.715**	**119.525**		**Chlordane**		**Tissue**
36	**8847**	**2**	**N**	**COLUMBIA RIVER** 1 excursion beyond the criterion at Ecology ambient monitoring station 36A070 (RM 388.1) on 5/2/88.	**NN57SG**	**619.104**	**13N**	**24E**	**11**	**Chromium**	A single excursion beyond the criterion does not violate the water quality standards.	**Water**
36	**8288**	**2**	**N**	**COLUMBIA RIVER** 1 excursion beyond the criterion at USGS station 12473520 (at Richland) on 3/23/93.	**NN57SG**	**46119C2H6**	**46.275**	**119.265**		**pH**		**Water**
36	**11170**	**2**	**Y**	**COLUMBIA RIVER** Hallock (2004), Dept. of Ecology ambient station 36A070 shows that of 30 samples none exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 36A070 (COLUMBIA RIVER NEAR VERNITA) shows 4 excursions beyond the criterion out of 49 samples collected between 1993 - 2001.	**NN57SG**	**615.624**	**13N**	**25E**	**06**	**pH**	An assessment of data indicates that four exceedances out of at least 49 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
36	**19387**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**46119G8D9**	**46.635**	**119.895**		**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Fall Chinook composite of 5 fillet with skin collected in 1997 at station 14-0 (River Mile 396) sample #97400928. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Fall Chinook composite of 5 fillet with skin collected in 1997 at station 14-0 (River Mile 396) sample #97400929. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Fall Chinook composite of 5 fillet with skin collected in 1997 at station 14-0 (River Mile 396) sample #97400930.						Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	
36	**19396**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**46119H5B2**	**46.715**	**119.525**		**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from White Sturgeon composite of 1 fillet without skin collected in 1998 at station 9-I (River Mile 376) sample #98024002.							
36	**22858**	**2**	**N**	**EAGLE LAKE**	**038FCJ**	**14N**	**29E**	**12**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 45 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 14 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.							
36	**15155**	**2**	**N**	**EAST POTHOLES CANAL**	**RV63PE**	**9.273**	**11N**	**28E**	**36**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station CBP015 (POTHOLES E CA AT MILE 65.8) shows 2 excursions beyond the criterion measured on these dates: 93/05/20, 98/04/14,							
36	**8290**	**2**	**N**	**EAST POTHOLES CANAL**	**IP50XP**	**19.572**	**13N**	**30E**	**26**	**pH**	**Water**
				1 excursion beyond the criterion at USBR station CBP014 (Mile 38.0) on 10/16/91.							
36	**16064**	**2**	**Y**	**EAST POTHOLES CANAL**	**CK78EG**	**13.455**	**13N**	**30E**	**28**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station CBP014 (POTHOLES E CA AT MILE 38.0) shows 7 excursions beyond the criterion measured on these dates: 93/05/19, 93/07/26,						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
36	**16070**	**2**	**N**	**EAST POTHOLES CANAL**	**RV63PE**	**9.273**	**11N**	**28E**	**36**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station CBP015 (POTHOLES E CA AT MILE 65.8) shows 7 excursions beyond the criterion measured on these dates: 93/05/20, 93/07/27,							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
36	15158	2	N	**EL 68D WASTEWAY**	BL00ZR	19.423	15N	29E	01	Dissolved oxygen	Water
				U.S. Bureau of Reclamation station EID013 (EL 68D WASTEWAY AT HWY 26) shows 1 excursions beyond the criterion measured on these dates: 98/04/27,							
36	40822	2	N	**EL 68D WASTEWAY**	EV70BA	0	14N	30E	04	Dissolved oxygen	Water
				U.S. Bureau of Reclamation station CBP065 (EL68D WW AT RT 17 XING) shows 1 excursions beyond the criterion measured on these dates: 93/05/19,							
36	15167	2	N	**EL 68D WASTEWAY**	BL00ZR	19.423	15N	29E	01	pH	Water
				U.S. Bureau of Reclamation station EID013 (EL 68D WASTEWAY AT HWY 26) shows 2 excursions beyond the criterion out of 4 samples collected between 1993-1999							
36	40823	2	N	**EL 68D WASTEWAY**	EV70BA	0	14N	30E	04	pH	Water
				U.S. Bureau of Reclamation station CBP065 (EL68D WW AT RT 17 XING) shows 2 excursions beyond the criterion out of 19 samples collected between 1993-1999							
36	15164	2	N	**EL 68D WASTEWAY**	BL00ZR	19.423	15N	29E	01	Temperature	Water
				U.S. Bureau of Reclamation station EID013 (EL 68D WASTEWAY AT HWY 26) shows 1 excursions beyond the criterion measured on these dates: 98/07/07,							
36	40824	2	N	**EL 68D WASTEWAY**	EV70BA	0	14N	30E	04	Temperature	Water
				U.S. Bureau of Reclamation station CBP065 (EL68D WW AT RT 17 XING) shows 3 excursions beyond the criterion measured on these dates: 93/05/19, 96/07/01,							
36	15161	2	N	**EL 68T31 WASTEWAY**	MB75UZ	9.928	15N	30E	31	Dissolved oxygen	Water
				U.S. Bureau of Reclamation station EID016 (EL 68T31 WASTEWAY AT POTHOLES CANAL) shows 1 excursions beyond the criterion measured on these dates: 98/04/29,							
36	15162	2	N	**EL 68T31 WASTEWAY**	MB75UZ	9.928	15N	30E	31	Temperature	Water
				U.S. Bureau of Reclamation station EID016 (EL 68T31 WASTEWAY AT POTHOLES CANAL) shows 1 excursions beyond the criterion measured on these dates: 98/04/29,							
36	15159	2	N	**EL 74 WASTEWAY**	MK59QF	4.458	16N	30E	30	Dissolved oxygen	Water
				U.S. Bureau of Reclamation station EID012 (EL 74 WASTEWAY AT EL 68D WASTEWAY) shows 2 excursions beyond the criterion measured on these dates: 98/04/27, 98/07/07,							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
36	**15166**	**2**	**N**	**EL 74 WASTEWAY**	**MK59QF**	**4.458**	**16N**	**30E**	**30**	**pH**	**Water**
				U.S. Bureau of Reclamation station EID012 (EL 74 WASTEWAY AT EL 68D WASTEWAY) shows 1 excursions beyond the criterion out of 4 samples collected between 1993-1999							
36	**15163**	**2**	**N**	**EL 74 WASTEWAY**	**MK59QF**	**4.458**	**16N**	**30E**	**30**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station EID012 (EL 74 WASTEWAY AT EL 68D WASTEWAY) shows 1 excursions beyond the criterion measured on these dates: 98/07/07,							
36	**15160**	**2**	**N**	**EL 83 WASTEWAY**	**XV43BZ**	**1.48**	**15N**	**30E**	**17**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station EID014 (EL 83 WASTEWAY BLW DIKE 13 NR FU 180 BLK 46) shows 1 excursions beyond the criterion measured on these dates: 98/04/29,							
36	**15168**	**2**	**N**	**EL 83 WASTEWAY**	**XV43BZ**	**1.48**	**15N**	**30E**	**17**	**pH**	**Water**
				U.S. Bureau of Reclamation station EID014 (EL 83 WASTEWAY BLW DIKE 13 NR FU 180 BLK 46) shows 2 excursions beyond the criterion out of 4 samples collected between 1993-1999							
36	**15165**	**2**	**N**	**EL 83 WASTEWAY**	**XV43BZ**	**1.48**	**15N**	**30E**	**17**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station EID014 (EL 83 WASTEWAY BLW DIKE 13 NR FU 180 BLK 46) shows 1 excursions beyond the criterion measured on these dates: 98/07/07,							
36	**16072**	**2**	**Y**	**ELTOPIA BRANCH CANAL**	**OO00BI**	**12.198**	**11N**	**30E**	**11**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station CBP051 (ELTOPIA B CA AT EB WW) shows 4 excursions beyond the criterion measured on these dates: 93/07/26, 96/07/02,						The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
36	**8846**	**2**	**N**	**ESQUATZEL COULEE**	**DP09CI**	**0.769**	**10N**	**30E**	**04**	**Dieldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12513600 (at Sagemoor Road near Pasco) on 7/16/92.							
36	**8292**	**2**	**N**	**ESQUATZEL COULEE**	**HM91VL**	**0**	**13N**	**30E**	**35**	**Dissolved oxygen**	**Water**
				1 excursion beyond the criterion at USGS station 12513400 (at Mesa) on 8/31/92.;							
36	**8293**	**2**	**N**	**ESQUATZEL COULEE**	**HM91VL**	**0**	**13N**	**30E**	**35**	**pH**	**Water**
				1 excursion beyond the criterion at USBR station CBP088 (at Sheffield road) on 5/11/92.;							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
36	**8291**	**2**	**Y**	**ESQUATZEL COULEE** 1 excursion beyond the criterion at USGS station 12513400 (at Mesa) on 8/31/92.;;	**HM91VL**	**0**	**13N**	**30E**	**35**	**Temperature**	One daily maximum excursion for one year only is insufficient to determine persistent temperature impairment and does not meet the WQ Program Policy 1-11 (updated 9/02). Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	**Water**
36	**8294**	**2**	**Y**	**ESQUATZEL COULEE** 2 excursions beyond the criterion at USGS station 12513600 (at Sagemoor Road near Pasco) on 7/16/92 and 8/31/92.;	**DP09CI**	**0.769**	**10N**	**30E**	**04**	**Temperature**	The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	**Water**
36	**16065**	**2**	**Y**	**ESQUATZEL COULEE** U.S. Bureau of Reclamation station CBP088 (ESQUATZEL CHANNEL AT SHEFFIELD R) shows 9 excursions beyond the criterion measured between 3/1/90 and 6/26/95.	**IP50XP**	**19.043**	**13N**	**30E**	**35**	**Temperature**	This listing was based on data pulled from STORET. In the process, only the number of excursion were requested. No comparison exists between the number samples and the number of excursions because the number of samples is unknown. -kk	**Water**
36	**16105**	**2**	**Y**	**ESQUATZEL DIVERSION CHANNEL** U.S. Bureau of Reclamation station CBP052 (ESQUATZEL DIV CHNL AT COLUMBIA R) shows 1 excursions beyond the criterion measured on these dates: 93/05/20,	**UR03JQ**	**0.036**	**10N**	**28E**	**13**	**Dissolved oxygen**	The 1998 303(d) list had the listing at this location as "Esquatzel Coulee". A reassessment of data used for previous listings indicate that there was only one excursion beone the criteria. This listng is moved to Category 2 as a water of concern.	**Water**
36	**16103**	**2**	**N**	**ESQUATZEL DIVERSION CHANNEL** U.S. Bureau of Reclamation station CBP052 (ESQUATZEL DIV CHNL AT COLUMBIA R) shows 8 excursions beyond the criterion measured on these dates: 93/05/20, 93/07/27,	**UR03JQ**	**0.036**	**10N**	**28E**	**13**	**Temperature**		**Water**
36	**22859**	**2**	**N**	**KAHLOTUS LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 156 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**429QUE**	**13N**	**34E**	**03**		**Total Phosphorus**		**Water**
36	**22860**	**2**	**N**	**LINDA LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 55 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**803OPA**	**15N**	**29E**	**32**		**Total Phosphorus**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
36	**40593**	**2**	**N**	**MATTAWA DRAIN** Data from USBR station CBP098 (Mattawa Drain) (submitted by Tim Hamlin of EPA on 10/31/97) show 11 excursions beyond the criterion out of 23 samples (48%) between1991 and 1997.	**VS50HP**	**9.696**	**14N**	**24E**	**34**	**Temperature**		**Water**
36	**8296**	**2**	**Y**	**MATTAWA WASTEWAY** Data from USGS station 12471724 (SCBID Mattawa Wasteway Near Mattawa) (submitted by Tim Hamlin of EPA on 10/31/97) show 3 excursions beyond the criterion between 4/29/94 and 5/26/94 per the STORET violations report.	**VS50HP**	**1.563**	**14N**	**24E**	**18**	**Temperature**	The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water. This listing was based on data pulled from STORET. In the process, only the number of excursion were requested. No comparison exists between the number samples and the number of excursions because the number of samples is unknown. -kk	**Water**
36	**22861**	**2**	**N**	**MESA LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 96 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**589OIT**	**13N**	**30E**	**34**		**Total Phosphorus**		**Water**
36	**15157**	**2**	**N**	**PE 16.4 WASTEWAY** U.S. Bureau of Reclamation station CBP090 (PE16.4WW AT ADAMS FARNKLIN CITY) shows 2 excursions beyond the criterion measured on these dates: 98/02/23, 98/04/14,	**MQ42MP**	**3.638**	**15N**	**29E**	**33**	**Dissolved oxygen**		**Water**
36	**16086**	**2**	**N**	**PE 16.4 WASTEWAY** U.S. Bureau of Reclamation station CBP029 (PE16.4WW AT COLUMBIA RIVER) shows 2 excursions beyond the criterion measured on these dates: 93/05/19, 98/04/14,	**PB53CQ**	**14.607**	**12N**	**28E**	**25**	**Dissolved oxygen**		**Water**
36	**16066**	**2**	**N**	**PE 16.4 WASTEWAY** U.S. Bureau of Reclamation station CBP017 (PE16.4 WW AT HENDRICKS RD) shows 7 excursions beyond the criterion measured on these dates: 93/05/19, 93/07/27,	**NU68OO**	**8.018**	**14N**	**29E**	**26**	**Temperature**		**Water**
36	**16067**	**2**	**N**	**PE 16.4 WASTEWAY** U.S. Bureau of Reclamation station CBP029 (PE16.4WW AT COLUMBIA RIVER) shows 7 excursions beyond the criterion measured on these dates: 93/05/19, 93/07/27,	**PB53CQ**	**14.607**	**12N**	**28E**	**25**	**Temperature**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
36	16069	2	N	**PE 16.4 WASTEWAY** U.S. Bureau of Reclamation station CBP090 (PE16.4WW AT ADAMS FARNKLIN CITY) shows 9 excursions beyond the criterion measured on these dates: 93/05/19, 93/07/27,	MQ42MP 3.638 15N 29E 33	Temperature	Water	
36	8297	2	N	**POTHOLES CANAL** 1 excursion beyond the criterion at USBR station CBP015 (Potholes Canal Mile 65.8) on 4/13/92.	MS59OD 0 10N 28E 01	pH	Water	
36	22862	2	N	**RODEO LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 385 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	544MQO 15N 29E 04	Total Phosphorus	Water	
36	15156	2	N	**SADDLE MOUNTAIN WASTEWAY** U.S. Bureau of Reclamation station CBP096 (SADDLE MTN WW AT HWY 24) shows 2 excursions beyond the criterion measured on these dates: 93/05/27, 98/04/14,	RM06ZQ 11.181 14N 25E 10	Dissolved oxygen	Water	
36	16071	2	N	**SADDLE MOUNTAIN WASTEWAY** U.S. Bureau of Reclamation station CBP096 (SADDLE MTN WW AT HWY 24) shows 8 excursions beyond the criterion measured on these dates: 93/05/27, 93/07/20,	RM06ZQ 11.181 14N 25E 10	Temperature	Water	
36	17189	2	N	**SCOOTENEY RESERVOIR** Seiders, 2004 shows fillet samples of channel catfish, walleye, and yellow perch collected in 2003 did not exceed the National Toxics Rule criterion for 4,4'-DDE. Davis et al. 1998. show the National Toxic Rule criterion was exceeded a composite of 5 fillets of Micropterus dolomieui collected on 9/14/1995 at station SCOOSEO (SCOOTENEY RESERVOIR SOUTHEAST OF OTHELLO). Davis et al. 1998. show the National Toxic Rule criterion was exceeded a composite of 5 fillets of Micropterus salmoides collected on 9/14/1995 at station SCOOSEO (SCOOTENEY RESERVOIR SOUTHEAST OF OTHELLO).	518XGQ 14N 30E 27	4,4'-DDE	Tissue	Seiders, 2004 study does not show excursions of the National Toxic Rule for 4,4'DDE although parameter was detected. Listing changed to Category 2 on 03/31/2005.--cb
36	8299	2	Y	**SCOOTENEY WASTEWAY** 2 excursions beyond the criterion at USBR station CBP012 (at Scooteney R.E.) on 10/21/91 and 5/11/92.	JA09UE 32.42 14N 30E 01	pH	Water	This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
36	**16063**	**2**	**Y**	**SCOOTENEY WASTEWAY**	**OQ61OL**	**2.415**	**14N**	**30E**	**10**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station CBP012 (SCOOTENEY WW AT SCOOTENEY R.E.) shows 7 excursions beyond the criterion measured on these dates: 93/05/19, 93/07/19,						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
36	**22863**	**2**	**N**	**SCOOTNEY LAKE**	**518XGQ**	**14N**	**30E**	**27**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 48 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
36	**22864**	**2**	**N**	**SULPHUR LAKE**	**855KED**	**13N**	**33E**	**05**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 5371 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
36	**22865**	**2**	**N**	**T LAKE**	**917AVB**	**13N**	**31E**	**04**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 48 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
36	**22866**	**2**	**N**	**WASHTUCNA LAKE**	**912JJW**	**13N**	**34E**	**01**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						The basis cited for the assessment applies to the entire lake. The center grid segment of the lake was selected to represent this information.	
36	**16073**	**2**	**N**	**WB5 LATERAL DRAIN**	**PB15BE**	**5.654**	**14N**	**29E**	**27**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station CBP046 (WB5 LATERAL AT WB CANAL) shows 4 excursions beyond the criterion measured on these dates: 93/07/27, 96/07/01,							
36	**16085**	**2**	**N**	**WB5 WASTEWAY**	**UL81HU**	**8.512**	**12N**	**28E**	**11**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station CBP087 (WB5 WW 1 AT COLUMBIA RIVER) shows 1 excursions beyond the criterion measured on these dates: 93/05/19,							
37	**8300**	**2**	**N**	**AHTANUM CREEK**	**YR47JF**	**30.639**	**12N**	**16E**	**15**	**Temperature**	**Water**
				1 excursion beyond the criterion at USGS station 12502000 (at the Narrows near Tampico) on 9/14/90.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
37	**11204**	**2**	**N**	**AHTANUM CREEK**	**YR47JF**	**11.854**	**12N**	**18E**	**08**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 37G120 (AHTANUM CR @ 62ND AVE) shows 3 excursions beyond the criterion out of 12 samples collected in 2001 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 37G120 (AHTANUM CR @ 62ND AVE) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001							
37	**22868**	**2**	**N**	**BOS LAKE**	**100DPY**	**09N**	**22E**	**22**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 545 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
37	**22869**	**2**	**N**	**BYRON LAKE**	**222KOP**	**08N**	**23E**	**12**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 180 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
37	**10020**	**2**	**N**	**CHANDLER CHANNEL**	**TG22BL**	**15.752**	**08N**	**24E**	**01**	**Fecal Coliform**	**Water**
				Carroll and Joy (2002) station BRCHANUP (CHANDLER CANAL NEAR DIVERSION) shows the geometric mean of 115.97779995298 exceeds the criterion and that 0 % of the samples does not exceed the percentile criterion from 3 samples collected during 2000.; Carroll and Joy (2002) station BRCHANUP (CHANDLER CANAL NEAR DIVERSION) shows the geometric mean of 63 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 1 samples collected during 1999.;							
37	**22870**	**2**	**N**	**FREEWAY LAKE**	**528WBY**	**13N**	**19E**	**07**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 63 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
37	**16099**	**2**	**Y**	**GRANGER DRAIN**	**KO70CH**	**1.13**	**10N**	**21E**	**22**	**pH**	**Water**
				U.S. Bureau of Reclamation station YAV137 (GRANGER D AT HWY 223 AB GRANGER) shows 1 excursions beyond the criterion out of 68 samples collected between 1993-1999						An assessment of data in the past 10 years indicates one excursion, which is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11.	
37	**11790**	**2**	**N**	**KUSSHI CREEK**	**DN49NJ**	**12.348**	**07N**	**17E**	**24**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station WA818S (KUSSHI CREEK (WA818S)) shows excursions beyond the criterion from measurements made in 1994 & 1995.							
37	**11791**	**2**	**N**	**KUSSHI CREEK**	**DN49NJ**	**12.348**	**07N**	**17E**	**24**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station WA818S (KUSSHI CREEK (WA818S)) shows excursions beyond the criterion from measurements made in 1994.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
37	**11794**	**2**	**N**	**MILL CREEK**	**UA19XK**	**22.362**	**09N**	**16E**	**16**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station WA080S (MILL CREEK (WA080S)) shows excursions beyond the criterion from measurements made in 1995.							
37	**22873**	**2**	**N**	**MORGAN LAKE**	**943QKE**	**09N**	**22E**	**25**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 168 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 111 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
37	**16096**	**2**	**Y**	**MOXEE (BIRCHFIELD) DRAIN**	**TK46RP**	**1.798**	**12N**	**19E**	**10**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station YAV104 (MOXEE DRAIN AT BIRCHFIELD ROAD) shows 2 excursions beyond the criterion measured on these dates: 94/06/28, 94/07/25,						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
37	**7379**	**2**	**N**	**MOXEE (BIRCHFIELD) DRAIN**	**YE21MH**	**0.189**	**12N**	**19E**	**08**	**Malathion**	**Water**
				Davis, 1993. 1 excursion beyond the EPA suggested criterion near the mouth on 5/31/92.						The criterion used by Davis (1993) has not been established as a numeric criterion in the water quality standards, just recommended by EPA (1986).	
37	**9612**	**2**	**N**	**MOXEE (BIRCHFIELD) DRAIN**	**OV92DE**	**4.742**	**12N**	**20E**	**08**	**pH**	**Water**
				Unpublished data from the Dept. of Ecology EIM database for the Project KESE0001 (MOXEE CREEK BMP STUDY). station M1 (MOXEE DRAIN (M1)) shows 1 excursions beyond the criterion out of 20 samples collected between 03/92 - 08/92. Unpublished data from the Dept. of Ecology EIM database for the Project KESE0001 (MOXEE CREEK BMP STUDY). station M2 (MOXEE DRAIN (M2)) shows 0 excursions beyond the criterion out of 20 samples collected between 03/92 - 08/92. Unpublished data from the Dept. of Ecology EIM database for the Project KESE0001 (MOXEE CREEK BMP STUDY). station M2 (MOXEE DRAIN (M2)) shows 0 excursions beyond the criterion out of 20 samples collected between 03/92 - 08/92. Unpublished data from the Dept. of Ecology EIM database for the Project KESE0001 (MOXEE CREEK BMP STUDY). station M1 (MOXEE DRAIN (M1)) shows 1 excursions beyond the criterion out of 20 samples collected between 03/92 - 08/92.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
37	**16101**	**2**	**Y**	**MOXEE (BIRCHFIELD) DRAIN** U.S. Bureau of Reclamation station YAV104 (MOXEE DRAIN AT BIRCHFIELD ROAD) shows 7 excursions beyond the criterion out of 70 samples collected between 1993-1999	**TK46RP**	**1.798**	**12N**	**19E**	**10**	**pH**	An assessment of data indicates that seven exceedances out of 70 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
37	**8304**	**2**	**Y**	**MOXEE (BIRCHFIELD) DRAIN** 3 excursions beyond the criterion at USGS station 12500420 (at Birchfeild Road N) in1991.	**OI57XE**	**16.044**	**13N**	**19E**	**16**	**Temperature**	The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	**Water**
37	**9614**	**2**	**N**	**MOXEE (BIRCHFIELD) DRAIN** Data from the Dept. of Ecology EIM database for the Project KESE0001 (MOXEE CREEK BMP STUDY). station M1 (MOXEE DRAIN (M1)) shows 6 excursions beyond the criterion measured on these dates: 92/05/27, 92/06/02, 92/07/22, 92/07/28, 92/08/03, 92/08/20, Data from the Dept. of Ecology EIM database for the Project KESE0001 (MOXEE CREEK BMP STUDY). station M2 (MOXEE DRAIN (M2)) shows 6 excursions beyond the criterion measured on these dates: 92/05/27, 92/06/02, 92/07/22, 92/07/28, 92/08/03, 92/08/20,	**OV92DE**	**4.742**	**12N**	**20E**	**08**	**Temperature**		**Water**
37	**16091**	**2**	**N**	**MOXEE (BIRCHFIELD) DRAIN** U.S. Bureau of Reclamation station YAV104 (MOXEE DRAIN AT BIRCHFIELD ROAD) shows 17 excursions beyond the criterion measured on these dates: 93/05/25, 93/07/27,	**TK46RP**	**1.798**	**12N**	**19E**	**10**	**Temperature**		**Water**
37	**22874**	**2**	**N**	**OLEYS (WASHINGTON) LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 1252 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**688CBC**	**09N**	**23E**	**07**		**Total Phosphorus**		**Water**
37	**13923**	**2**	**N**	**ROZA CANAL** Data from the Dept. of Ecology EIM database for the Project KESE0001 (MOXEE CREEK BMP STUDY). station R1 (ROZA CANAL (R1)) shows 2 excursions beyond the criterion out of 18 samples collected between 03/92 - 08/92.	**NB18LZ**	**10.13**	**12N**	**20E**	**10**	**pH**		**Water**
37	**13924**	**2**	**N**	**ROZA CANAL** Data from the Dept. of Ecology EIM database for the Project KESE0001 (MOXEE CREEK BMP STUDY). station R2 (ROZA CANAL (R2)) shows 2 excursions beyond the criterion out of 18 samples collected between 03/92 - 08/92.	**NB18LZ**	**6.652**	**12N**	**20E**	**08**	**pH**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
37	**13925**	**2**	**N**	**ROZA CANAL**	**NB18LZ**	**6.652**	**12N**	**20E**	**08**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project KESE0001 (MOXEE CREEK BMP STUDY). station R2 (ROZA CANAL (R2)) shows 9 excursions beyond the criterion measured on these dates: 92/06/02, 92/07/17, 92/07/22, 92/07/23, 92/07/28, 92/07/29, 92/08/03, 92/08/04, 92/08/20,							
37	**13926**	**2**	**N**	**ROZA CANAL**	**NB18LZ**	**10.13**	**12N**	**20E**	**10**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project KESE0001 (MOXEE CREEK BMP STUDY). station R1 (ROZA CANAL (R1)) shows 7 excursions beyond the criterion measured on these dates: 92/07/17, 92/07/22, 92/07/28, 92/07/29, 92/08/03, 92/08/04, 92/08/20,							
37	**7368**	**2**	**N**	**SNIPES CREEK**	**SL56UX**	**1.313**	**09N**	**25E**	**22**	**Dieldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12509820 (near Prosser) on 7/29/88.							
37	**7372**	**2**	**N**	**SNIPES CREEK**	**SL56UX**	**0**	**09N**	**25E**	**27**	**Dieldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12509829 (at mouth at Whitstran) on 7/29/88.							
37	**15025**	**2**	**Y**	**SNIPES CREEK**	**SL56UX**	**0**	**09N**	**25E**	**27**	**Dissolved oxygen**	**Water**
				Sunnyside Valley Irrigation District data (submitted 3/15/04 by Brian Jackson) shows 0 excursions beyond the criterion of 111 samples collected between 9/97 - 10/03. Carroll and Joy (2002) station YAK-19 (SNIPES CR. (CHANDCAN)) shows 0 excursions beyond the criterion out of 1 samples collected between 09/99 - 07/00. U.S. Bureau of Reclamation station YAV139 (SNIPES C. AT OLD INLAND EMPIRE R) shows 2 excursions beyond the criterion measured on these dates: 94/07/25, 97/07/29,						More recent data from 1997 to 2003 shows no excursions out of 111 samples taken. The water was placed on the 303(d) list for 2 exceedances, which does not meet Policy 1-11. This data indicates water is meeting standards, however it will be left on Category 2 for further monitoring to indicate continued compliance with the stadnards.	
37	**10023**	**2**	**N**	**SNIPES CREEK**	**SL56UX**	**0**	**09N**	**25E**	**27**	**Fecal Coliform**	**Water**
				Carroll and Joy (2002) station YAK-19 (SNIPES CR. (CHANDCAN)) shows the geometric mean of 176.295206968312 exceeds the criterion and that 50 % of the samples exceeds the percentile criterion from 2 samples collected during 2000.; Carroll and Joy (2002) station YAK-19 (SNIPES CR. (CHANDCAN)) shows the geometric mean of 74 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 1 samples collected during 1999.;							
37	**16100**	**2**	**N**	**SNIPES CREEK**	**SL56UX**	**0**	**09N**	**25E**	**27**	**pH**	**Water**
				U.S. Bureau of Reclamation station YAV139 (SNIPES C. AT OLD INLAND EMPIRE R) shows 5 excursions beyond the criterion out of 70 samples collected between 1993-1999							
37	**40716**	**2**	**N**	**SPRING CREEK**	**KM06JM**	**0.587**	**09N**	**25E**	**28**	**Chlorpyrifos**	**Water**
				Joy and Patterson (1997) show 1 excursion beyond the chronic criterion from a sample collected on 95/03/20.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
37	**7356**	**2**	**N**	**SPRING CREEK**	**KM06JM**	**0.587**	**09N**	**25E**	**28**	**Dieldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12509700 (at Hess Road) on 7/29/88.							
37	**7359**	**2**	**N**	**SPRING CREEK**	**KM06JM**	**0**	**09N**	**25E**	**27**	**Dieldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12509710 on 7/29/88.							
37	**10024**	**2**	**N**	**SPRING CREEK**	**KM06JM**	**0.587**	**09N**	**25E**	**28**	**Fecal Coliform**	**Water**
				Carroll and Joy (2002) station YAK-17 (SPRING CR. (SPRING)) shows the geometric mean of 260 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 2000.; Carroll and Joy (2002) station YAK-17 (SPRING CR. (SPRING)) shows the geometric mean of 234.520787991172 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 2 samples collected during 1999.;							
37	**11210**	**2**	**N**	**SULPHUR CREEK WASTEWAY**	**YT62AF**	**0.569**	**09N**	**22E**	**24**	**Ammonia-N**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 37F070 (Sulfer Ck Wasteway @ McGee Rd) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001							
37	**8907**	**2**	**N**	**SULPHUR CREEK WASTEWAY**	**YT62AF**	**0.267**	**09N**	**22E**	**25**	**Dieldrin**	**Water**
				2 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 04N002 (at McGee Road Bridge) in 1985.						The EPA data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. The listed STORET contact (Ray Peterson) was asked to verify that these criteria were met for the data used as a basis for listing. EPA did not verify that these data meet the quality assurance criteria. Therefore, these data from STORET should not be used as a basis for listing (from 1998 list database).	
37	**11209**	**2**	**N**	**SULPHUR CREEK WASTEWAY**	**YT62AF**	**0.569**	**09N**	**22E**	**24**	**pH**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 37F070 (Sulfer Ck Wasteway @ McGee Rd) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001							
37	**8305**	**2**	**Y**	**SULPHUR CREEK WASTEWAY**	**YT62AF**	**0.569**	**09N**	**22E**	**24**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 37F070 (Sulfer Ck Wasteway @ McGee Rd) shows 0 excursions beyond the criterion out of 12 samples collected between 1993 - 2001. 3 excursions beyond the criterion at USGS station 12508850 (near Sunnyside) in 1991.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
37	**15022**	**2**	**N**	**TAILWATER DRAIN**	**OI57XE**	**0**	**12N**	**20E**	**08**	**pH**	**Water**
				Data from the Dept. of Ecology EIM database for the Project KESE0001 (MOXEE CREEK BMP STUDY). station D1 (TAILWATER DRAIN TO D1 (D1)) shows 1 excursions beyond the criterion out of 20 samples collected between 03/92 - 08/92.							
37	**15023**	**2**	**N**	**TAILWATER DRAIN**	**OI57XE**	**0**	**12N**	**20E**	**08**	**Temperature**	**Water**
				Data from the Dept. of Ecology EIM database for the Project KESE0001 (MOXEE CREEK BMP STUDY). station D1 (TAILWATER DRAIN TO D1 (D1)) shows 9 excursions beyond the criterion measured on these dates: 92/05/27, 92/05/28, 92/06/02, 92/06/08, 92/07/22, 92/07/28, 92/08/03, 92/08/04, 92/08/20,							
37	**16097**	**2**	**Y**	**WIDE HOLLOW CREEK**	**DY38VO**	**6.451**	**13N**	**18E**	**35**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station YAV107 (WIDE HOLLOW C AT W WASHINGTON AV) shows 1 excursions beyond the criterion measured on these dates: 94/07/25						One exceedance is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
37	**16095**	**2**	**Y**	**WIDE HOLLOW CREEK**	**DY38VO**	**6.451**	**13N**	**18E**	**35**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station YAV107 (WIDE HOLLOW C AT W WASHINGTON AV) shows 9 excursions beyond the criterion measured between 8/20/91 and 8/28/95						This listing was based on data pulled from STORET. In the process, only the number of excursion were requested. No comparison exists between the number samples and the number of excursions because the number of samples is unknown. -kk	
37	**8870**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**48.64**	**09N**	**27E**	**19**	**Aldrin**	**Water**
				3 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543005 (at Kiona) in 1970 and 1971.						The EPA data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. The listed STORET contact (Ray Peterson) was asked to verify that these criteria were met for the data used as a basis for listing. EPA did not verify that these data meet the quality assurance criteria. Therefore, these data from STORET should not be used as a basis for listing.	
37	**11175**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**48.64**	**09N**	**27E**	**19**	**Ammonia-N**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 37A090 (YAKIMA RIVER AT KIONA) shows 1 excursions beyond the criterion out of 59 samples collected between 1993 - 2001. Carroll and Joy (2002) station YAK-6 (YAKIMA R. (YAK-KION)) shows 0 excursions beyond the criterion out of 1 sample collected between 09/99 - 07/00.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
37	**8850**	**2**	**Y**	**YAKIMA RIVER**	**EB21AR**	**48.64**	**09N**	**27E** 19	**Arsenic**	**Water**
				Fuhrer, et al. 1996. , 15 samples collected at station 50 (Kiona) exceeded the National Toxic Rule criterion between 1987 and 1990. Unpublished data from EIM Project AJOH0029 shows no excursions beyond the chronic criterion from 12 samples collected in 2001-2002 at station 37A090 (Yakima R. at Kiona)						USGS data from the 1987-1990 period are subject to contamination (Windom et al., 1991; Rickert, 1991). The results from Fuhrer, 1996 are inconsistent with Ecology data collected on these streams in 1996 (Johnson, 1996; Johnson et al., 1986) and in 2001-2002. The measured data from Fuhrer, 1996 represent total arsenic and thus cannot be
used										to apply to National Toxic Rule criterion which applys only to inorganic arsenic. This listing will be placed on the waters
of										concern category until further verification is done.
37	**8851**	**2**	**Y**	**YAKIMA RIVER**	**EB21AR**	**112.86**	**09N**	**22E** 18	**Arsenic**	**Water**
				Fuhrer, et al. 1996. , 15 samples collected at station 52 (at Yakima RM 72 above Status Creek near Sunnyside) exceeded the National Toxic Rule criterion between 1987 and 1990.;						USGS data from the 1987-1990 period are subject to contamination (Windom et al., 1991; Rickert, 1991). The results from Fuhrer, 1996 are inconsistent with Ecology data collected on these streams in 1996 (Johnson, 1996; Johnson et al., 1986) and in 2001-2002. The measured data from Fuhrer, 1996 represent total arsenic and thus cannot be
used										to apply to National Toxic Rule criterion which applys only to inorganic arsenic. This listing will be placed on the waters
of										concern category until further verification is done.
37	**8852**	**2**	**Y**	**YAKIMA RIVER**	**EB21AR**	**89.762**	**09N**	**23E** 34	**Arsenic**	**Water**
				Fuhrer, et al. 1996. , 6 samples collected at station 56 (RM 55) exceeded the National Toxic Rule criterion between 1987 and 1990.						USGS data from the 1987-1990 period are subject to contamination (Windom et al., 1991; Rickert, 1991). The results from Fuhrer, 1996 are inconsistent with Ecology data collected on these streams in 1996 (Johnson, 1996; Johnson et al., 1986) and in 2001-2002. The measured data from Fuhrer, 1996 represent total arsenic and thus cannot be
used										to apply to National Toxic Rule criterion which applys only to inorganic arsenic. This listing will be placed on the waters
of										concern category until further verification is done.
37	**19702**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**2.692**	**09N**	**28E** 24	**Chlordane**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Channel Catfish composite of 2 fillet with skin collected in 1998 at station 48-A (River Mile 2.1) sample #98204153. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Channel Catfish composite of 2 fillet with skin collected in 1998 at station 48-A (River Mile 2.1) sample #98204154. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Channel Catfish composite of 2 fillet with skin collected						

in 1998 at station 48-A (River Mile 2.1) sample #98204155.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
37	**19708**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**30.827**	**10N**	**27E**	**04**	**Chlordane**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Smallmouth Bass composite of 3 fillet with skin collected in 1998 at station 48-B (River Mile 18) sample #98174082.							
37	**8886**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**147.987**	**11N**	**20E**	**36**	**Chlorine**	**Water**
				Glenn, 1993. , potential for chlorine toxicity in the receiving water from the Zillah discharge (Yakima RM 89.5).						The NPDES permit WA0020168 for the Zillah STP issued on August 1, 1996 has effluent limitations for chlorine. However, chlorine is no longer used for disinfection and is no longer discharged.	
37	**8887**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**95.37**	**09N**	**23E**	**30**	**Chlorine**	**Water**
				Glenn, 1993. , potential for chlorine toxicity in the receiving water from the Mabton discharge.						The NPDES permit WA0020648 for the Mabton STP has a compliance schedule for effluent limitations for chlorine to become effective December 31, 2000. Chlorine in the effluent will be eliminated.	
37	**40715**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**89.762**	**09N**	**23E**	**34**	**Chlorpyrifos**	**Water**
				Joy and Patterson (1997) show 1 excursion beyond the acute criterion from a sample collected on 95/06/19.							
37	**7352**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**89.762**	**09N**	**23E**	**34**	**Dieldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12509050 (at Euclid Bridge at RM 55 near Grandview) on 7/28/88.							
37	**8878**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**176.385**	**12N**	**19E**	**17**	**Dieldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12500450 (above Ahtanum Creek at Union Gap) on 7/27/88.							
37	**8899**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**68.894**	**09N**	**25E**	**34**	**Dieldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 04A015 (just below Spring/Snipes Creek) on 8/5/85.;							
37	**11181**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**80.53**	**08N**	**24E**	**09**	**Dissolved oxygen**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 37A095 (Yakima 2 mi blw Prosser) shows 1 excursions beyond the criterion out of 8 samples collected between 1993 - 2001 measured on these dates: 93/09/13,							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
37	**8869**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**48.64**	**09N**	**27E**	**19**	**Endrin**	**Water**
				2 excursions beyond the chronic criterion at USEPA station 543005 (at Kiona) on 12/2/70 and 1/20/71.						The EPA data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. The listed STORET contact (Ray Peterson) was asked to verify that these criteria were met for the data used as a basis for listing. EPA did not verify that these data meet the quality assurance criteria. Therefore, these data from STORET should not be used as a basis for listing.	
37	**8310**	**2**	**Y**	**YAKIMA RIVER**	**EB21AR**	**89.762**	**09N**	**23E**	**34**	**Fecal Coliform**	**Water**
				Embrey, 1992. Station Site #46 (near Grandview) show that samples 1 of 2 samples collected on 7/28/88 exceeded the percentile criterion.						This waterbody segment was incorrectly assessed and does not meet listing criteria for bacteria in WQ Policy 1-11, which indicates a minimum of 2 samples must exceed the percentile criterion. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.	
37	**10033**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**58.195**	**09N**	**26E**	**17**	**Fecal Coliform**	**Water**
				Carroll and Joy (2002) station BRABCHAN (YAKIMA RIVER ABOVER CHANDLER RETURN) shows the geometric mean of 26.7207784317748 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 2 samples collected during; Carroll and Joy (2002) station BRABCHAN (YAKIMA RIVER ABOVER CHANDLER RETURN) shows the geometric mean of 190 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 1999.;							
37	**10034**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**72.789**	**09N**	**25E**	**31**	**Fecal Coliform**	**Water**
				Carroll and Joy (2002) station BRBLPROS (YAKIMA RIVER BELOW PROSSER R.M. 45.8) shows the geometric mean of 200 exceeds the criterion and that 0 % of the samples does not exceed the percentile criterion from 1 samples collected during 2000.; Carroll and Joy (2002) station BRBLPROS (YAKIMA RIVER BELOW PROSSER R.M. 45.8) shows the geometric mean of 120 exceeds the criterion and that 0 % of the samples does not exceed the percentile criterion from 1 samples collected during 1999.;							
37	**8866**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**48.64**	**09N**	**27E**	**19**	**Heptachlor**	**Water**
				3 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543005 (at Kiona) in 1970 and 1971.						The EPA data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. The listed STORET contact (Ray Peterson) was asked to verify that these criteria were met for the data used as a basis for listing. EPA did not verify that these data meet the quality assurance criteria. Therefore, these data from STORET should not be used as a basis for listing.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
37	**8867**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**48.64**	**09N**	**27E**	**19**	**Heptachlor epoxide**	**Water**
				3 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543005 (at Kiona) in 1970 and 1971.						The EPA data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. The listed STORET contact (Ray Peterson) was asked to verify that these criteria were met for the data used as a basis for listing. EPA did not verify that these data meet the quality assurance criteria. Therefore, these data from STORET should not be used as a basis for listing.	
37	**8868**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**48.64**	**09N**	**27E**	**19**	**Parathion**	**Water**
				1 excursion beyond the chronic criterion at USGS station 12510500 (at Kiona) on 3/30/73.							
37	**8905**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**89.762**	**09N**	**23E**	**34**	**Parathion**	**Water**
				1 excursion beyond the chronic criterion at USGS station 12509050 (at Euclid Bridge at RM 55 near Grandview) on 7/28/88.							
37	**11184**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**76.341**	**08N**	**24E**	**02**	**pH**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 37A100 (Yakima below Prosser) shows 1 excursions beyond the criterion out of 9 samples collected between 1993 - 2001							
37	**11199**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**186.069**	**13N**	**19E**	**20**	**pH**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 37A210 (Yakima R nr Terrace Height) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001							
37	**3726**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**183.995**	**13N**	**19E**	**28**	**Temperature**	**Water**
				Dept. of Ecology unpublished data from core ambient monitoring station 37A205 (Yakima R. at Knob Hill) shows a 7-day mean of daily maximum values of 22.9 for mid-week 13 August 2001. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 37A205 (YAKIMA RIVER AT KNOB HILL) shows 0 excursions beyond the criterion out of 37 samples collected between 1993 - 2001						Changed from Category 5 to Category 2. The temperature variations noted in 2001 were a unique and unusual circumstance. The data's validity has been rejected. 11/22/05 -kk	
37	**8308**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**147.987**	**11N**	**20E**	**36**	**Temperature**	**Water**
				Embrey, 1992. , 1 excursion beyond the criterion at Zillah on 7/27/88							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
37	**8312**	**2**	**Y**	**YAKIMA RIVER**	**EB21AR**	**75.285**	**08N**	**24E**	**01**	**Temperature**	**Water**
				Data collected by City of Prosser (as a condition of their NPDES permit and submitted by Phelps Freeborn at CRO) show 4 excursions beyond the criterion out of 23 samples (17%) in 1995 and 1996.						The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
37	**8313**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**135.707**	**10N**	**21E**	**21**	**Temperature**	**Water**
				Embrey, 1992. , 1 excursion beyond the criterion at Granger on 7/29/88.							
37	**11180**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**80.53**	**08N**	**24E**	**09**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 37A095 (Yakima 2 mi blw Prosser) shows 1 excursions beyond the criterion out of 7 samples collected between 1993 - 2001 measured on these dates: 93/08/09,							
37	**11183**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**76.341**	**08N**	**24E**	**02**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 37A100 (Yakima below Prosser) shows 1 excursions beyond the criterion out of 8 samples collected between 1993 - 2001 measured on these dates: 93/08/09,							
37	**11188**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**95.37**	**09N**	**23E**	**30**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 37A130 (Yakima R @ Mabton) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 94/07/12,							
37	**8872**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**156.774**	**11N**	**20E**	**20**	**Total PCBs**	**Tissue**
				Johnson, et al. 1986. , excursion beyond the criterion of edible tissue in Mountain Whitefish at Buena on 8/20/85.						These old data do not represent current conditions and the segment should not be listed based on these data per the 8/97 judgement of Bob Barwin (Dept. of Ecology).	
37	**20038**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**2.692**	**09N**	**28E**	**24**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Channel Catfish composite of 2 fillet with skin collected in 1998 at station 48-A (River Mile 2.1) sample #98204153. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Channel Catfish composite of 2 fillet with skin collected in 1998 at station 48-A (River Mile 2.1) sample #98204154. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Channel Catfish composite of 2 fillet with skin collected in 1998 at station 48-A (River Mile 2.1) sample #98204155.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
37	**20041**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**76.341**	**08N**	**24E**	**02**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Fall Chinook composite of 5 fillet with skin collected in 1997 at station 48-F (River Mile 47.1) sample #97420937. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Fall Chinook composite of 5 fillet with skin collected in 1997 at station 48-F (River Mile 47.1) sample #97420938. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Fall Chinook composite of 5 fillet with skin collected in 1997 at station 48-F (River Mile 47.1) sample #97420939. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Fall Chinook composite of 5 fillet with skin collected in 1997 at station 48-F (River Mile 47.1) sample #97420940. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Steelhead composite of 4 fillet with skin collected in 1998 at station 48-F (River Mile 47.1) sample #98124153. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Steelhead composite of 4 fillet with skin collected in 1998 at station 48-F (River Mile 47.1) sample #98124154. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Steelhead composite of 4 fillet with skin collected in 1998 at station 48-F (River Mile 47.1) sample #98124155. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Mountain Whitefish composite of 10 fillet with skin collected in 1998 at station 48-F (River Mile 47.1) sample #98124165. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Mountain Whitefish composite of 10 fillet with skin collected in 1998 at station 48-F (River Mile 47.1) sample #98124166. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Mountain Whitefish composite of 10 fillet with skin collected in 1998 at station 48-F (River Mile 47.1) sample #98124167.						Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.
37	**20052**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**47.652**	**09N**	**27E**	**17**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Smallmouth Bass composite of 3 fillet with skin collected in 1998 at station 48-C (River Mile 26) sample #98174080. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Smallmouth Bass composite of 3 fillet with skin collected in 1998 at station 48-C (River Mile 26) sample #98174081.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
37	**20054**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**75.285**	**08N**	**24E**	**01**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 5 fillet with skin collected in 1997 at station 48-G (River Mile 47.1) sample #97220903. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 5 fillet with skin collected in 1997 at station 48-G (River Mile 47.1) sample #97220904. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 5 fillet with skin collected in 1997 at station 48-G (River Mile 47.1) sample #97220905.						Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	
38	**40927**	**2**	**N**	**BEAR CREEK**	**JJ42VM**	**0**	**18N**	**13E**	**05**	**Temperature**	**Water**
				Scholz, 1999, shows a 7-day mean of maximum daily temperature of 15.7 degrees C, with a maximum daily temperature of 16.6 degrees C from continuous measurements collected in 1998 at Bear Creek below WF Bear Creek. Scholz, 1999, shows a 7-day mean of maximum daily temperature of 17.3 degrees C, with a maximum daily temperature of 18.3 degrees C from continuous measurements collected in 1998 at Bear Creek near mouth.						WRIA changed from 99 to 38. 12/03/04 -kk	
38	**40929**	**2**	**N**	**BLOWOUT CREEK**	**OL73EW**	**0**	**19N**	**12E**	**36**	**Temperature**	**Water**
				Scholz, 1999, shows a 7-day mean of maximum daily temperature of 15.5 degrees C, with a maximum daily temperature of 16.3 degrees C from continuous measurements collected in 1998 at Blowout Creek.						WRIA changed from 99 to 38. 12/03/04 -kk	
38	**11809**	**2**	**N**	**CLEAR CREEK**	**UC33KG**	**4.525**	**14N**	**12E**	**34**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station WA805S (Clear Creek) shows excursions beyond the criterion from measurements made in 1994. Department of Ecology unpublished data from EMAP station WA805S (Clear Creek) shows no excursions beyond the criterion from measurements made in 1994.							
38	**11804**	**2**	**N**	**CLEAR CREEK, N.F.**	**TH79FA**	**0.755**	**14N**	**12E**	**32**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station R0CE99-007 (NF CLEAR CREEK) shows excursions beyond the criterion from measurements made in 1999.							
38	**11214**	**2**	**N**	**COWICHE CREEK**	**AR69RI**	**8.631**	**13N**	**17E**	**11**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 38G120 shows that 1 of 12 samples exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 38G120 (COWICHE CR @ ZIMMERMAN RD) shows 3 excursions beyond the criterion out of 24 samples collected between 2000-2002 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 38G120 (COWICHE CR @ ZIMMERMAN RD) shows 1 excursions beyond the criterion out of 6 samples collected between 1993 - 2001							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
38	**16957**	**2**	**N**	**DEEP CREEK** Raforth et al. 2000. show 1 excursion beyond the chronic criterion in 2 samples collected in 1997.	**QG55YA**	**9.017**	**15N**	**12E**	**21**	**Copper**		**Water**
38	**11801**	**2**	**N**	**DEEP CREEK** Department of Ecology unpublished data from EMAP station R0CE99-013 (DEEP CREEK) shows excursions beyond the criterion from measurements made in 1999.	**QG55YA**	**4.528**	**15N**	**12E**	**10**	**pH**		**Water**
38	**16964**	**2**	**N**	**DEEP CREEK** Raforth et al. 2000. show 1 excursion beyond the chronic criterion in 2 measurements collected in 1997.	**QG55YA**	**10.773**	**15N**	**12E**	**29**	**pH**		**Water**
38	**16965**	**2**	**N**	**DEEP CREEK** Raforth et al. 2000. show 1 excursion beyond the chronic criterion in 2 measurements collected in 1997.	**QG55YA**	**9.017**	**15N**	**12E**	**21**	**pH**		**Water**
38	**8914**	**2**	**N**	**NACHES RIVER** 1 excursion beyond the chronic criterion (hexavalent form) at USGS station 12490010 (near Naches) on 9/16/66.	**NK19LR**	**21.895**	**14N**	**17E**	**04**	**Chromium**		**Water**
38	**8916**	**2**	**N**	**NACHES RIVER** Golding, 1994. , 1 excursion beyond the criterion on 7/27/93.	**NK19LR**	**21.895**	**14N**	**17E**	**04**	**Copper**		**Water**
38	**8337**	**2**	**N**	**NACHES RIVER** Golding, 1994. , 1 excursion beyond the criterion on 7/27/93.	**NK19LR**	**21.895**	**14N**	**17E**	**04**	**Dissolved oxygen**		**Water**
38	**8917**	**2**	**N**	**NACHES RIVER** Golding, 1994. , 1 excursion beyond the criterion on 7/27/93.	**NK19LR**	**21.895**	**14N**	**17E**	**04**	**Lead**		**Water**
38	**8336**	**2**	**N**	**NACHES RIVER** U.S.Geological Survey data from NWIS database station 12499000 (near North Yakima) shows excursions beyond the criterion in measurements collected in 1987, 1988 and 1989. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 38A050 (NACHES RIVER AT YAKIMA ON US HWY 97) shows 1 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 measured on these dates: 00/08/16,	**NK19LR**	**0**	**13N**	**18E**	**12**	**Temperature**		**Water**
38	**16106**	**2**	**N**	**TIETON RIVER** U.S. Bureau of Reclamation station YRO003 (TIETON R 900M BELOW DAM AT GAGE) shows 1 excursions beyond the criterion measured on these dates: 96/07/09,	**AB82ZA**	**32.594**	**14N**	**14E**	**31**	**Dissolved oxygen**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
38	**11814**	**2**	**N**	**TIETON RIVER, N.F.**	**XM55AK**	**22.654**	**12N**	**11E**	**01**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station R0CE99-092 (TEITON R.N FK) shows excursions beyond the criterion from measurements made in 2000.							
38	**8052**	**2**	**N**	**TIETON RIVER, S.F.**	**NV27KW**	**23.162**	**12N**	**12E**	**23**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station R0CE99-012 (SF TIETON RIVER) shows excursions beyond the criterion from measurements made in 2000.							
39	**8344**	**2**	**Y**	**BLUE CREEK**	**AI48PU**	**0**	**21N**	**17E**	**22**	**Temperature**	**Water**
				Yakama Indian Nation Tribal data (submitted by Carrol Palmer on 8/10/93) show multiple excursions beyond the criterion between 1990 and 1992.						Continuous temperature measurements were taken, but the information submitted is insufficient to support a Category 5 listing.	
39	**11826**	**2**	**N**	**CABIN CREEK**	**CX24KB**	**3.493**	**20N**	**13E**	**21**	**Dissolved oxygen**	**Water**
				Department of Ecology unpublished data from EMAP station R0CE99-118 (CABIN CR) shows excursions beyond the criterion from measurements made in 2000.							
39	**35129**	**2**	**N**	**CAMP LAKE**	**507JMN**	**21N**	**16E**	**18**		**Total Phosphorus**	**Water**
				Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 11.3 ug/L in 1985 which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.							
39	**35354**	**2**	**N**	**CARIBOU CREEK**	**SY64QB**	**1.447**	**17N**	**19E**	**15**	**Temperature**	**Water**
				Kittitas County Conservation District unpublished data (submitted by Greg Bohn (CRO) on 6 March 2003) show excursions beyond the criterion from measurements collected in 1999 at station CR-2 (Caribou Creek at South Ferguson Road).							
39	**35355**	**2**	**N**	**CASCADE CANAL**	**GI16HA**	**9.304**	**17N**	**20E**	**31**	**Temperature**	**Water**
				Kittitas County Conservation District unpublished data (submitted by Greg Bohn (CRO) on 6 March 2003) show excursions beyond the criterion from measurements collected in 1999, 2000, 2001 and 2002 at station CID-1 (Cascade Canal (CID) Spillway at Thrall Road).						This canal diverts water from the portion of the Yakima River that has a special temperature provision of 21C and therefore may receive water that is above the criterion (Creech, ECY/WQP, 2003).	
39	**35356**	**2**	**N**	**CASCADE CANAL**	**VQ53LJ**	**8.668**	**17N**	**19E**	**33**	**Temperature**	**Water**
				Kittitas Reclamation District unpublished data (submitted by Greg Bohn (CRO) on 6 March 2003) show excursions beyond the criterion from measurements collected in 1999, 2000 and 2001 at station CID-2 (Cascade Canal (CID) Tailend Spillway).						This canal diverts water from the portion of the Yakima River that has a special temperature provision of 21C and therefore may receive water that is above the criterion (Creech, ECY/WQP, 2003).	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
39	**9616**	**2**	**N**	**CHERRY CREEK**	**FT68CJ**	**0.558**	**17N**	**19E**	**29**	**Temperature**	**Water**
				Joy (2002) station 36-CHMO (CHERRY CR AT MOE RD) shows 1 excursions beyond the criterion measured on these dates: 99/08/24, Kittitas County Conservation District unpublished data (submitted by Greg Bohn (CRO) on 6 March 2003) show excursions beyond the criterion from measurements collected in 1999 at station CH-1 (Cherry Creek at Moe Road).							
39	**11863**	**2**	**N**	**CLE ELUM RIVER**	**XN92GU**	**53.096**	**24N**	**14E**	**20**	**pH**	**Water**
				Department of Ecology unpublished data from EMAP station WA791S (Cle Elum River) shows excursions beyond the criterion from measurements made in 1994.							
39	**9617**	**2**	**N**	**CLE ELUM RIVER**	**XN92GU**	**0**	**20N**	**15E**	**32**	**Temperature**	**Water**
				Joy (2002) station 39B070 (Cle Elum R nr Cle Elum) shows 1 excursions beyond the criterion measured on these dates: 99/08/23,							
39	**8348**	**2**	**Y**	**COOKE CREEK**	**SZ58XV**	**2.518**	**17N**	**19E**	**10**	**Dissolved oxygen**	**Water**
				Joy, 1993. 4 excursions beyond the criterion 200 feet below the Kittitas WWTP outfall during 1993.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
39	**8351**	**2**	**N**	**COOKE CREEK**	**SZ58XV**	**22.539**	**19N**	**20E**	**19**	**Temperature**	**Water**
				Yakama Indian Nation data (submitted by Carroll Palmer on 2/28/96) show 2 excursions beyond the criterion in 1993.						Continuous temperature measurements were taken, but the information submitted is insufficient to support a Category 5 listing.	
39	**8353**	**2**	**N**	**CRYSTAL CREEK**	**VQ25DC**	**2.579**	**20N**	**15E**	**21**	**Dissolved oxygen**	**Water**
				Joy, 1985. 1 excursions beyond the criterion at Crystal Creek RM 1.8 on 6/11/86							
39	**15058**	**2**	**N**	**ELLENSBURG WATER COMPANY CANAL**	**GZ06QM**	**7.61**	**18N**	**18E**	**26**	**Temperature**	**Water**
				Joy (2002) station 20-TWHN (TOWNE DITCH AT HANNAH RD) shows 1 excursions beyond the criterion measured on these dates: 99/07/28,						This canal diverts water from the portion of the Yakima River that has a special temperature provision of 21C and therefore may receive water that is above the criterion (Creech, ECY/WQP, 2003).	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
39	**15063**	**2**	**N**	**ELLENSBURG WATER COMPANY CANAL** Joy (2002) station 21-TWE3 (TOWNE DITCH AT E 3RD ST) shows 1 excursions beyond the criterion measured on these dates: 99/07/28,	**GZ06QM**	**1.651**	**17N**	**19E**	**06**	**Temperature**	**Water**	This canal diverts water from the portion of the Yakima River that has a special temperature provision of 21C and therefore may receive water that is above the criterion (Creech, ECY/WQP, 2003).
39	**35361**	**2**	**N**	**ELLENSBURG WATER COMPANY CANAL** Kittitas County Conservation District unpublished data (submitted by Greg Bohn (CRO) on 6 March 2003) show excursions beyond the criterion from measurements collected in 1999, 2000 and 2002 at station EWC-3 (Town Canal (EWC) at Thrall Road).	**RF79YZ**	**0.474**	**17N**	**19E**	**14**	**Temperature**	**Water**	This canal diverts water from the portion of the Yakima River that has a special temperature provision of 21C and therefore may receive water that is above the criterion (Creech, ECY/WQP, 2003).
39	**35362**	**2**	**N**	**ELLENSBURG WATER COMPANY CANAL** Kittitas Reclamation District unpublished data (submitted by Greg Bohn (CRO) on 6 March 2003) show excursions beyond the criterion from measurements collected in 1999, 2000 and 2001 at station EWC-4 (Town Canal (EWC) Tailend Spillway).	**RF79YZ**	**13.159**	**17N**	**19E**	**28**	**Temperature**	**Water**	This canal diverts water from the portion of the Yakima River that has a special temperature provision of 21C and therefore may receive water that is above the criterion (Creech, ECY/WQP, 2003).
39	**8354**	**2**	**N**	**FRENCH CABIN CREEK** 1 excursion beyond the criterion sampled at the mouth by Wenatchee National Forest on 7/26/94 (submitted by Bella Patheal of EPA on 12/1/95) .	**AJ66HF**	**0**	**22N**	**14E**	**32**	**Temperature**	**Water**	
39	**11817**	**2**	**N**	**GREEN CREEK** Department of Ecology unpublished data from EMAP station WA794S (Green Canyon Trib) shows excursions beyond the criterion from measurements made in 1994.	**OW29RK**	**0**	**19N**	**18E**	**08**	**Dissolved oxygen**	**Water**	Name changed from UNNAMED CREEK to GREEN CREEK per G. Bohn 5/13/05. -kk
39	**16109**	**2**	**N**	**KACHESS RIVER** U.S. Bureau of Reclamation station YKA001 (KACHESS RIVER 300 METERS BELOW DAM AT GAGE) shows 1 excursions beyond the criterion measured on these dates: 96/07/11,	**NA23YJ**	**2.071**	**21N**	**13E**	**34**	**Dissolved oxygen**	**Water**	
39	**9632**	**2**	**N**	**NANEUM CREEK** Joy (2002) station 27-NNFR (NANEUM AT FIORITO PONDS AREA) shows 1 excursions beyond the criterion measured on these dates: 99/07/28,	**MA29CN**	**0**	**17N**	**19E**	**19**	**Temperature**	**Water**	
39	**35359**	**2**	**N**	**NORTH BRANCH CANAL** Kittitas County Conservation District and Kittitas Reclamation District unpublished data (submitted by Greg Bohn (CRO) on 6 March 2003) show excursions beyond the criterion from measurements collected in 1999, 2000 and 2001 at station KRD-1 (North Branch Canal (KRD) Turbine Ditch Spillway).	**XD64YT**	**9.025**	**17N**	**19E**	**32**	**Temperature**	**Water**	This canal diverts water for irrigation just above the portion of the Yakima River that has a special temperature provision of 21C and therefore may receive water that is above the criterion (Creech, ECY/WQP, 2003).

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
39	**10043**	**2**	**N**	**PARKE CREEK** Joy (2002) station 34-PR (PARKE CR ON PARK CR RD) shows the geometric mean of 111 exceeds the criterion and that 0 % of the samples does not exceed the percentile criterion from 3 samples collected during 1999.; ;	**QB79IB**	**14.937**	**18N**	**20E**	**33**	**Fecal Coliform**		**Water**
39	**35360**	**2**	**N**	**PARKE CREEK** Kittitas County Conservation District unpublished data (submitted by Greg Bohn (CRO) on 6 March 2003) show excursions beyond the criterion from measurements collected in 2002 at station PC-2 (Parke Creek at South Ferguson Road).	**QB79IB**	**1.913**	**17N**	**19E**	**22**	**Temperature**		**Water**
39	**34863**	**2**	**Y**	**SELAH DITCH** Joy, 1990. Ammonia values did not exceed the standards in this study. However, a modeling showed that ammonia standards would not be met under critical conditions.	**UNK000**	**0**	**00U**	**000U**	**00**	**Ammonia-N**	WASWIS ID changed to UNK000 from DV19FG. TRS=13N-18E-01. 12/10/04 -kk Listing was not based on exceedance of actual data; water will be placed on Waters of Concern category until further verification is done.	**Water**
39	**8918**	**2**	**Y**	**SELAH DITCH** Joy, 1990. Chlorine values did not exceed the standards in this study. However, a modeling showed that chlorine standards would not be met under critical conditions.	**UNK000**	**0**	**00U**	**000U**	**00**	**Chlorine**	WASWIS ID changed to UNK000 from DV19FG. TRS=13N-18E-01. 12/10/04 -kk Listing was not based on exceedance of actual data, water will be placed on Waters of Concern category until further verification is done.	**Water**
39	**7316**	**2**	**Y**	**SELAH DITCH** Joy, 1990. 2 excursions beyond the criterion at several locations on Selah Ditch on 10/25/88 and 10/26/88.	**UNK000**	**0**	**00U**	**000U**	**00**	**Dissolved oxygen**	WASWIS ID changed to UNK000 from DV19FG. TRS=13N-18E-01. 12/10/04 -kk This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
39	**8366**	**2**	**N**	**THORP CREEK** 1 excursion beyond the criterion sampled at the mouth by Wenatchee National Forest on 7/24/94 (submitted by Bella Patheal of EPA on 12/1/95) .	**WA85GA**	**0**	**22N**	**14E**	**29**	**Temperature**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
39	**15053**	**2**	**N**	**UMTANUM CREEK**	**GC47RW**	**0.365**	**16N**	**19E**	**19**	**Temperature**	**Water**
				Joy (2002) station 18-UMT (UMTANUM CR NR MOUTH) shows 7 excursions beyond the criterion measured on these dates: 99/06/15, 99/06/15, 99/06/29, 99/06/29, 99/07/12, 99/07/12, 99/08/10, 99/08/10, 99/08/23, 99/08/23, 99/09/07, 99/09/07, 99/09/21, 99/09/21, Johnson (2000) station 18-UMT (UMTANUM CR NR MOUTH) shows 0 excursions beyond the criterion out of 6 samples collected between 03/99 - 01/00. Johnson (2000) station 18-UMT (UMTANUM CR NR MOUTH) shows 0 excursions beyond the criterion out of 6 samples collected between 03/99 - 01/00. Joy (2002) station 18-UMT (UMTANUM CR NR MOUTH) shows 7 excursions beyond the criterion measured on these dates: 99/06/15, 99/06/15, 99/06/29, 99/06/29, 99/07/12, 99/07/12, 99/08/10, 99/08/10, 99/08/23, 99/08/23, 99/09/07, 99/09/07, 99/09/21, 99/09/21,						
39	**15067**	**2**	**N**	**WENAS CREEK**	**RJ61TR**	**0**	**14N**	**19E**	**18**	**Temperature**	**Water**
				Joy (2002) station 19-WEN (WENAS CR ABOVE MOUTH) shows 7 excursions beyond the criterion measured on these dates: 99/06/15, 99/06/29, 99/07/12, 99/07/26, 99/08/10, 99/08/23, 99/09/21,							
39	**22883**	**2**	**N**	**WENAS LAKE**	**776KJM**	**15N**	**17E**	**02**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 73 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
39	**8919**	**2**	**N**	**WILSON CREEK**	**PY59BF**	**1.493**	**17N**	**19E**	**30**	**Dieldrin**	**Water**
				Johnson, et al. 1986, 1 excursion beyond the chronic criterion at Ecology station 39C070 (RM 0.4) on 6/24/85.						Returned to Category 2 from 4A on 02/07/05. The parameter hasnot been addressed by a TMDL. -kk	
39	**16110**	**2**	**N**	**WILSON CREEK**	**PY59BF**	**1.493**	**17N**	**19E**	**30**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station YAV146 (WILSON C AT THRALL RD) shows 1 excursions beyond the criterion measured on these dates: 97/07/29,							
39	**15060**	**2**	**N**	**WILSON CREEK**	**PY59BF**	**16.275**	**18N**	**19E**	**30**	**Temperature**	**Water**
				Joy (2002) station 22-WLSN (WILSON CR AT SANDERS RD) shows 1 excursions beyond the criterion measured on these dates: 99/07/28,							
39	**15061**	**2**	**N**	**WILSON CREEK**	**PY59BF**	**9.125**	**17N**	**18E**	**11**	**Temperature**	**Water**
				Joy (2002) station 23-WLUM (WILSON CR AT UMTANUM RD) shows 1 excursions beyond the criterion measured on these dates: 99/07/28, Joy (2002) station 24-WLCM (WILSON CR NR COMFORT INN) shows 3 excursions beyond the criterion measured on these dates: 99/07/28, 99/08/09, 99/08/24,							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
39	**15056**	**2**	**N**	**WIPPLE WASTEWAY**	**GI16HA**	**1.823**	**17N**	**19E**	**28**	**Temperature**	**Water**
				Joy (2002) station 37-WPMO (WIPPLE WASTEWAY AT MOE RD) shows 1 excursions beyond the criterion measured on these dates: 99/08/24, Kittitas County Conservation District unpublished data (submitted by Greg Bohn (CRO) on 6 March 2003) show excursions beyond the criterion from measurements collected in 1999 at station WW-4 (Wipple Wasteway at Moe Road).						
39	**35363**	**2**	**N**	**WIPPLE WASTEWAY**	**YK13EL**	**21.367**	**17N**	**20E**	**33**	**Temperature**	**Water**
				Kittitas Reclamation District unpublished data (submitted by Greg Bohn (CRO) on 6 March 2003) show excursions beyond the criterion from measurements collected in 2000 and 2001 at station WW-1 (Wipple Headworks).						
39	**11217**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**198.096**	**14N**	**19E**	**30**	**Ammonia-N**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 39A050 (YAKIMA R @ HARRISON BRIDGE) shows 1 excursions beyond the criterion out of 16 samples collected between 1993 - 2001						
39	**8933**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**229.127**	**16N**	**19E**	**20**	**Dieldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12484500 (at Utanum) on 7/27/88.						Returned to Category 2 from 4A on 02/01/05 because the Lower Yakima Pesticides TMDL targets are for chronic aquatic life criteria and not the more stringent human health criteria. -kk	
39	**16815**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**198.096**	**14N**	**19E**	**30**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 39A050 meets tested standards for fecal coliform. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 39A050 (YAKIMA R @ HARRISON BRIDGE) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 7 samples collected during 2001. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 39A050 (YAKIMA R @ HARRISON BRIDGE) shows a geometric mean of 15 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 2000, with only 1 sample that exceeds the percentile criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 39A050 (YAKIMA R @ HARRISON BRIDGE) shows a geometric mean of 11 does not exceed the criterion and that 9% of the samples does not exceed the percentile criterion from 11 samples collected during 1999. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 39A050 (YAKIMA R @ HARRISON BRIDGE) shows a geometric mean of 14 does not exceed the criterion and that 9% of the samples does not exceed the percentile criterion from 11 samples collected during 1998. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 39A050 (YAKIMA R @ HARRISON BRIDGE) shows a geometric mean of 10 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1997.						
39	**16111**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**346.668**	**21N**	**12E**	**10**	**pH**	**Water**
				U.S. Bureau of Reclamation station YKE004 (KEECHELUS RESERVOIR OUTLET AT GAGE) shows 1 excursions beyond the criterion out of 2 samples collected between 1993-1999						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
39	**15029**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**229.127**	**16N**	**19E**	**20**	**Temperature**		**Water**
				Joy (2002) station 05-YKUM (YAKIMA R AT UMPTANUM CR) shows 1 excursions beyond the criterion measured on these dates: 99/06/15,								
39	**39336**	**2**	**N**	**YAKIMA RIVER**	**EB21AR**	**334.101**	**20N**	**13E**	**05**	**Temperature**		**Water**
				Okanogan and Wenatchee National Forest unpublished data (submitted by Sonny O'Neal on 17 January 2003) show excursions beyond the criterion from measurements collected in 2001 at station 'Yakima River abv Cabin Creek' (River Mile 206).								
40	**22884**	**2**	**N**	**BLACK LAKE (SPRING HILL RESERVOIR)**	**794FCR**	**21N**	**20E**	**21**		**Total Phosphorus**		**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 24 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.								
40	**8943**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**46119H5A3**	**46.705**	**119.535**		**3,3-Dichlorobenzidine**		**Water**
				U.S. Dept. of Energy, 1995. , one excursion beyond the National Toxic Rule criterion (40 CFR 131) at approximately RM 382.								
40	**8942**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**46119H5A3**	**46.705**	**119.535**		**Benzo(a)pyrene**		**Water**
				U.S. Dept. of Energy, 1995. , 1 excursion beyond the National Toxic Rule criterion (40 CFR 131) at approximately RM 382.								
40	**8941**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**46119H5A3**	**46.705**	**119.535**		**Heptachlor**		**Water**
				U.S. Dept. of Energy, 1995. , one excursion beyond the chronic criterion at approximately RM 382.								
40	**8940**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**46119H5A3**	**46.705**	**119.535**		**Mercury**		**Water**
				U.S. Dept. of Energy, 1995. , multiple excursions beyond the chronic criterion at approximately RM 382.							These data are suspected to be contaminated since the levels are very high (two orders of magnitude compared with other Hg samples collected on the Columbia River and the level of detection on the cited reference (per the 10/31/97 memo from Art Johnson)	
40	**8371**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**46119F3I6**	**46.585**	**119.365**		**pH**		**Water**
				1 excursion beyond the criterion at USGS station 12472900 (at Vernita Bridge near Priest Rapids Dam) on 3/22/93.								
40	**8372**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**46119G8C4**	**46.625**	**119.845**		**pH**		**Water**
				Becker and Gray, 1992. 4 excursions beyond the criterion out of 68 samples (6%) collected between 1986 and 1988.								
40	**35137**	**2**	**N**	**H&H (NO. 1) RESERVOIR**	**750GZW**	**21N**	**19E**	**12**		**Total Phosphorus**		**Water**
				Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 14 ug/L in 1985 which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
40	**22887**	**2**	**N**	**WHEELER, UPPER LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 21 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.	**658BAI**	**00U**	**XXU**	**00**		**Total Phosphorus**		**Water**
41	**22888**	**2**	**N**	**ANCIENT LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 73 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**261FHQ**	**19N**	**23E**	**09**		**Total Phosphorus**		**Water**
41	**22889**	**2**	**N**	**ARTESIAN LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 6170 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**202PRJ**	**20N**	**29E**	**04**		**Total Phosphorus**		**Water**
41	**22890**	**2**	**N**	**BABCOCK RIDGE LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 90 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**456PMP**	**20N**	**23E**	**10**		**Total Phosphorus**		**Water**
41	**22892**	**2**	**N**	**BLACK LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 1168 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. (Grant Co) Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 22 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Columbia Basin Ecoregion. (Adams Co)	**871CHO**	**16N**	**28E**	**03**		**Total Phosphorus**		**Water**
41	**22893**	**2**	**N**	**BLACK ROCK LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 2337 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**682RIS**	**21N**	**30E**	**21**		**Total Phosphorus**		**Water**
41	**22894**	**2**	**N**	**BROKEN ROCK LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 111 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**830TII**	**21N**	**29E**	**07**		**Total Phosphorus**		**Water**
41	**16165**	**2**	**N**	**COLUMBIA RIVER** U.S. Bureau of Reclamation station CBP102 (COLUMBIA R AT CRESCENT BAR) shows 1 excursions beyond the criterion measured on these dates: 98/04/15,	**NN57SG**	**698.122**	**20N**	**23E**	**19**	**Dissolved oxygen**		**Water**
41	**16186**	**2**	**N**	**COLUMBIA RIVER** U.S. Bureau of Reclamation station CBP102 (COLUMBIA R AT CRESCENT BAR) shows 1 excursions beyond the criterion out of 17 samples collected between 1993-1999	**NN57SG**	**698.122**	**20N**	**23E**	**19**	**pH**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
41	**8948**	**2**	**N**	**CRAB CREEK**	**VM29FQ**	**1.624**	**17N**	**28E**	**34**	**Dieldrin**		**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12472190 (at McManamon Road near Othello) on 7/15/92.								
41	**16122**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**22.31**	**19N**	**28E**	**11**	**Dissolved oxygen**		**Water**
				U.S. Bureau of Reclamation station CBP061 (PARKERHORN AT 7NE CO RD) shows 3 excursions beyond the criterion measured on these dates: 93/05/25, 98/02/23, 98/05/26, Carroll et al. (2000) station CC0 (CRAB CREEK AT MOUTH TO MOSES LAKE) shows 0 excursions beyond the criterion out of 8 samples collected between 03/01 - 09/01. Carroll et al. (2000) station CC0 (CRAB CREEK AT MOUTH TO MOSES LAKE) shows 0 excursions beyond the criterion out of 8 samples collected between 03/01 - 09/01. U.S. Bureau of Reclamation station CBP061 (PARKERHORN AT 7NE CO RD) shows 3 excursions beyond the criterion measured on these dates: 93/05/25, 98/02/23, 98/05/26,								
41	**8373**	**2**	**N**	**CRAB CREEK**	**VM29FQ**	**1.624**	**17N**	**28E**	**34**	**pH**		**Water**
				2 excursions beyond the criterion at USBR station CBP079 (at McManamon Road) in 1992.;								
41	**9641**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**33.243**	**20N**	**28E**	**10**	**pH**		**Water**
				Carroll et al. (2000) station CC3 (CRAB CREEK AT END OF ROAD 12) shows 1 excursions beyond the criterion out of 1 samples collected between 03/01 - 09/01.								
41	**8381**	**2**	**N**	**CRAB CREEK**	**VM29FQ**	**1.624**	**17N**	**28E**	**34**	**Temperature**		**Water**
				1 excursion beyond the criterion at USGS station 12472190 (at McManamon Road near Othello) on7/15/92.;								
41	**8383**	**2**	**N**	**CRAB CREEK**	**YY70MR**	**0**	**15N**	**27E**	**04**	**Temperature**		**Water**
				1 excursion beyond the criterion at USGS station 12472400 (at B Road SE near Royal City) on 5/24/94.								
41	**9643**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**45.045**	**21N**	**28E**	**18**	**Temperature**		**Water**
				Carroll et al. (2000) station CC4 (CRAB CREEK AT ROAD 16) shows 3 excursions beyond the criterion measured on these dates: 01/05/29, 01/07/31, 01/08/28,								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
41	**9645**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**25.808**	**20N**	**28E**	**35**	**Temperature**		**Water**
				Carroll et al. (2000) station CC1 (CRAB CREEK NEAR MOSES LAKE (USGS GAGE)) shows 2 excursions beyond the criterion measured on these dates: 01/07/31, 01/08/28, Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A110 (CRAB CREEK NEAR MOSES LAKE) shows 0 excursions beyond the criterion out of 17 samples collected between 1993 - 2001 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A110 (CRAB CREEK NEAR MOSES LAKE) shows 0 excursions beyond the criterion out of 17 samples collected between 1993 - 2001 Carroll et al. (2000) station CC1 (CRAB CREEK NEAR MOSES LAKE (USGS GAGE)) shows 2 excursions beyond the criterion measured on these dates: 01/07/31, 01/08/28,							
41	**9646**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**31.816**	**20N**	**28E**	**15**	**Temperature**		**Water**
				Carroll et al. (2000) station CC2 (CRAB CREEK AT STRATFORD ROAD) shows 2 excursions beyond the criterion measured on these dates: 01/07/31, 01/08/28,								
41	**16123**	**2**	**N**	**CRAB CREEK LATERAL**	**QF71NO**	**0.754**	**16N**	**28E**	**18**	**Dissolved oxygen**		**Water**
				U.S. Bureau of Reclamation station CBP030 (CRAB CR LAT AT CRAB CR WW) shows 3 excursions beyond the criterion measured on these dates: 93/05/25, 98/04/13, 98/07/13,								
41	**8386**	**2**	**Y**	**CRAB CREEK LATERAL**	**QF71NO**	**0.754**	**16N**	**28E**	**18**	**Temperature**		**Water**
				13 excursions beyond the criterion at USGS station 12472380 (at Royal Lake near Othello) in 1993 and 1994. U.S. Bureau of Reclamation station CBP030 (CRAB CR LAT AT CRAB CR WW) shows 9 excursions beyond the criterion measured between 7/30/91 and 7/5/95							This listing was based on data pulled from STORET. In the process, only the number of excursion were requested. No comparison exists between the number samples and the number of excursions because the number of samples is unknown. -kk	
41	**22898**	**2**	**N**	**CRATER LAKE**	**740KNS**	**20N**	**23E**	**09**		**Total Phosphorus**		**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 55 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.								
41	**22899**	**2**	**N**	**CRESCENT BAY LAKE**	**246ELY**	**28N**	**30E**	**12**		**Total Phosphorus**		**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 1438 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.								
41	**16172**	**2**	**N**	**DE55 WASTEWAY**	**RX99AF**	**0.209**	**18N**	**30E**	**35**	**Dissolved oxygen**		**Water**
				U.S. Bureau of Reclamation station EID009 (DE 55 AND DE 49 BELOW CONFLUENCE) shows 1 excursions beyond the criterion measured on these dates: 98/04/27,								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
41	16180	2	N	**DE55 WASTEWAY**	RX99AF	0.209	18N	30E	35	Temperature		Water
				U.S. Bureau of Reclamation station EID009 (DE 55 AND DE 49 BELOW CONFLUENCE) shows 1 excursions beyond the criterion measured on these dates: 98/07/07,								
41	16170	2	N	**EL 31 WASTEWAY**	LL66TM	1.354	18N	29E	23	Dissolved oxygen		Water
				U.S. Bureau of Reclamation station EID006 (EL 31 WASTEWAY BELOW EL29L WASTEWAY) shows 1 excursions beyond the criterion measured on these dates: 98/04/27,								
41	16189	2	N	**EL 31 WASTEWAY**	LL66TM	1.354	18N	29E	23	pH		Water
				U.S. Bureau of Reclamation station EID006 (EL 31 WASTEWAY BELOW EL29L WASTEWAY) shows 2 excursions beyond the criterion out of 4 samples collected between 1993-1999								
41	16178	2	N	**EL 31 WASTEWAY**	LL66TM	1.354	18N	29E	23	Temperature		Water
				U.S. Bureau of Reclamation station EID006 (EL 31 WASTEWAY BELOW EL29L WASTEWAY) shows 1 excursions beyond the criterion measured on these dates: 98/07/06,								
41	16173	2	N	**EL 63.8 WASTEWAY**	ON81WC	12.775	16N	29E	15	Dissolved oxygen		Water
				U.S. Bureau of Reclamation station EID011 (EL 63.8 WASTEWAY BLW CONF EL63.8WW2) shows 1 excursions beyond the criterion measured on these dates: 98/04/27,								
41	16174	2	N	**EL 63.8 WASTEWAY**	ON81WC	12.775	16N	29E	15	Temperature		Water
				U.S. Bureau of Reclamation station EID011 (EL 63.8 WASTEWAY BLW CONF EL63.8WW2) shows 2 excursions beyond the criterion measured on these dates: 98/04/27, 98/07/07,								
41	22904	2	N	**FRENCHMAN HILLS LAKE**	695YQF	17N	26E	08		Total Phosphorus		Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 96 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.								
41	16162	2	N	**FRENCHMAN HILLS WASTEWAY**	AR96YO	13.496	17N	27E	09	Dissolved oxygen		Water
				U.S. Bureau of Reclamation station CBP062 (FRENCHMAN HILLS WW AT GAGING STA) shows 2 excursions beyond the criterion measured on these dates: 93/06/02, 98/07/13,								
41	8388	2	N	**FRENCHMAN HILLS WASTEWAY**	IP94FN	10.642	18N	25E	33	pH		Water
				1 excursion beyond the criterion at USGS station 470012119410300 (at Road I) on 7/27/93.								
41	8390	2	N	**FRENCHMAN HILLS WASTEWAY**	IP94FN	10.642	18N	25E	33	Temperature		Water
				1 excursion beyond the criterion at USGS station 470012119410300 (at Road I) on 7/27/93.								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
41	8944	2	N	**GOOSE, LOWER LAKE** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12471506 (at east end of Kulm road) on 7/17/92.	677BDD 17N 28E 24	Dieldrin	Water	
41	22908	2	N	**HILLTON LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 84 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	619WWO 18N 23E 21	Total Phosphorus	Water	
41	16160	2	Y	**LIND COULEE** U.S. Bureau of Reclamation station CBP011 (LIND COULEE AT RT 17XING) shows 1 excursions beyond the criterion measured on these dates: 93/05/25	WZ45YS 10.448 18N 29E 35	Dissolved oxygen	Water	One exceedance is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
41	16171	2	N	**LIND COULEE** U.S. Bureau of Reclamation station EID008 (LIND COULEE BLW CONF OF BWER COULEE @ R ROAD SE) shows 1 excursions beyond the criterion measured on these dates: 98/04/27,	WZ45YS 18.922 18N 29E 13	Dissolved oxygen	Water	
41	8391	2	N	**LIND COULEE** 1 excursion beyond the criterion at USGS station 470100119030000 (at U Road SE near Moses lake) on 8/27/92.	WZ45YS 26.965 18N 30E 27	pH	Water	
41	16190	2	N	**LIND COULEE** U.S. Bureau of Reclamation station EID008 (LIND COULEE BLW CONF OF BWER COULEE @ R ROAD SE) shows 2 excursions beyond the criterion out of 4 samples collected between 1993-1999	WZ45YS 18.922 18N 29E 13	pH	Water	
41	16179	2	N	**LIND COULEE** U.S. Bureau of Reclamation station EID008 (LIND COULEE BLW CONF OF BWER COULEE @ R ROAD SE) shows 1 excursions beyond the criterion measured on these dates: 98/07/06,	WZ45YS 18.922 18N 29E 13	Temperature	Water	
41	22909	2	N	**LONG LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 770 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 36 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	908YXL 23N 02E 17	Total Phosphorus	Water	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
41	**8951**	**2**	**Y**	**LOWER CRAB CREEK** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543121 (at Beverly) on 4/24/74.	**WR93CG**	**0**	**15N**	**23E**	**03**	**4,4'-DDE**	This segment does not meet criteria for listing as impaired based on POlicy 1-11, which states that a segement will be placed on the 303(d) list due to toxic pollutants in the water column when two or more samples within a three-year peirod exceed the criteria. A sample will be place on the Waters of Concern category if any one sample exceeds the criteria.	**Water**
41	**8952**	**2**	**N**	**LOWER CRAB CREEK** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543121 (at Beverly) on 12/13/71.	**WR93CG**	**0**	**15N**	**23E**	**03**	**Chlordane**		**Water**
41	**8950**	**2**	**N**	**LOWER CRAB CREEK** 2 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543121 (at Beverly) in 1971 and 1972.	**WR93CG**	**0**	**15N**	**23E**	**03**	**DDT**	The EPA data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. The listed STORET contact (Ray Peterson) was asked to verify that these criteria were met for the data used as a basis for listing. EPA did not verify that these data meet the quality assurance criteria. Therefore, these data from STORET should not be used as a basis for listing (from 1998 list database).	**Water**
41	**8949**	**2**	**N**	**LOWER CRAB CREEK** 3 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543121 (at Beverly) in 1971 and 1972.	**WR93CG**	**0**	**15N**	**23E**	**03**	**Dieldrin**	The EPA data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. The listed STORET contact (Ray Peterson) was asked to verify that these criteria were met for the data used as a basis for listing. EPA did not verify that these data meet the quality assurance criteria. Therefore, these data from STORET should not be used as a basis for listing (from 1998 list database).	**Water**
41	**11247**	**2**	**N**	**LOWER CRAB CREEK** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A070 (CRAB CREEK NEAR BEVERLY) shows 1 excursions beyond the criterion out of 50 samples collected between 1993 - 2001 measured on these dates: 95/09/12,	**WR93CG**	**8.303**	**16N**	**24E**	**33**	**Dissolved oxygen**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
41	**16819**	**2**	**N**	**LOWER CRAB CREEK**	**WR93CG**	**8.303**	**16N**	**24E**	**33**	**Fecal Coliform**	**Water**

Hallock (2004), Dept. of Ecology ambient station 41A070 meets tested standards for fecal coliform.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A070 (Crab Cr. near Beverly)shows a geometric mean of 78 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 2001, with only 1 sample that exceeds the percentile criterion.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A070 (Crab Cr. near Beverly) shows a geometric mean of 31 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A070 (Crab Cr. near Beverly) shows a geometric mean of 37 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A070 (Crab Cr. near Beverly) shows a geometric mean of 31 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A070 (Crab Cr. near Beverly) shows a geometric mean of 32 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A070 (Crab Cr. near Beverly) shows a geometric mean of 78 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1996.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A070 (Crab Cr. near Beverly) shows a geometric mean of 45 does not exceed the criterion and that 10% of the samples does not exceed the percentile criterion from 10 samples collected during 1995.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A070 (Crab Cr. near Beverly) shows a geometric mean of 35 does not exceed the criterion and that 8% of the samples does not exceed the percentile criterion from 13 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A070 (Crab Cr. near Beverly) shows a geometric mean of 43 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1993.

41	**6739**	**2**	**Y**	**LOWER CRAB CREEK**	**WR93CG**	**0**	**15N**	**23E**	**03**	**pH**	**Water**

U.S.Geological Survey data from NWIS database station 12472600 (mouth near Beverly) shows 8 excursions beyond the criterion out of 62 samples collected between 1991 and 1995.

An assessment of data indicates that eight exceedances out of 62 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.

41	**8375**	**2**	**N**	**LOWER CRAB CREEK**	**WR93CG**	**65.096**	**16N**	**29E**	**06**	**pH**	**Water**

1 excursion beyond the criterion at USGS station 465406119165500 (below Morgan Creek Road near Othello) on 9/2/93.

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
41	8377	2	N	**LOWER CRAB CREEK** 1 excursion beyond the criterion at USGS station 12472500 (near Smyrna) on 5/24/94.	WR93CG 27.54 16N 26E 29	pH	Water	
41	8380	2	N	**LOWER CRAB CREEK** 1 excursion beyond the criterion at USGS station 4654061190165500 (below Morgan Creek Road near Othello) on 9/2/93.	WR93CG 65.096 16N 29E 06	Temperature	Water	
41	8384	2	N	**LOWER CRAB CREEK** 1 excursion beyond the criterion at USGS station 12472500 (near Smyrna) on 5/24/94.	WR93CG 27.54 16N 26E 29	Temperature	Water	
41	16136	2	N	**LOWER CRAB CREEK** U.S. Bureau of Reclamation station CBP079 (LOWER CRAB CR AT MCMANNAN RD) shows 6 excursions beyond the criterion measured on these dates: 93/07/14, and 95/05/30.	WR93CG 57.426 16N 28E 09	Temperature	Water	
41	16140	2	N	**LOWER CRAB CREEK** U.S. Bureau of Reclamation station CBP072 (LOWER CRAB CR AT CRAB CR RD) shows 5 excursions beyond the criterion measured on these dates: 95/05/24, and 95/06/27.	WR93CG 0.764 15N 23E 03	Temperature	Water	
41	16176	2	N	**LOWER CRAB CREEK** U.S. Bureau of Reclamation station CBP036 (LOWER CRAB CK ABV CONF RED ROCK COULEE) shows 2 excursions beyond the criterion measured on these dates: 98/06/01, 98/07/13,	WR93CG 29.231 16N 26E 28	Temperature	Water	
41	22910	2	N	**MCELROY LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 2034 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	065QMS 18N 35E 31	Total Phosphorus	Water	
41	42780	2	N	**MOSES LAKE** Department of Ecology Lake Database, station 3 shows in 2000, 1 of 4 epilimnion samples collected by Department of Ecology (sampling dates: 6/28/00; 7/19/00; 8/30/00; 9/27/00) exceeded the Phosphorus Action Value established by Carroll, et. al., 2000. (Ecology Publication No. 00-03-036). Department of Ecology Lake Database, station 3 shows in 1998, 2 of 4 epilimnion samples collected by Department of Ecology (sampling dates: 6/17/98; 7/15/98; 8/12/98; 9/16/98) exceeded the Phosphorus Action Value of 50ug/L established by Carroll, et. al., 2000. (Ecology Publication No. 00-03-036).	995AYH 47119B3G3 47.165 119.335	Total Phosphorus	Water	Department of Ecology, Water Quality Policy 1-11, part 9 states that, for phosphorus, a sample size of 4 must have at least 3 excursions to be place on the 303(d) list; therefore this assessment is a category 2 and placed on the "Waters of Concern" list.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
41	**42781**	**2**	**N**	**MOSES LAKE**	**995AYH**	**47119B3B4**	**47.115**	**119.345**	**Total Phosphorus**	**Water**
				Department of Ecology TMDL Assessment, station ML4 (CASCADE BASIN) shows in 2001, 0 of 5 epilimnion samples collected (sampling dates: 5/30/01; 7/2/01; 8/1/01; 8/29/01; 9/26/01) exceeded the Phosphorus Action Value of 50ug/L established by Carroll, et. al., 2000. Department of Ecology Lake Database, station 4 shows in 2000, 1 of 4 epilimnion samples collected by Department of Ecology (sampling dates: 6/28/00; 7/19/00; 8/30/00; 9/27/00) exceeded the Phosphorus Action Value established by Carroll, et. al., 2000. (Ecology Publication No. 00-03-036).					Department of Ecology, Water Quality Policy 1-11, part 9 states that, for phosphorus, a sample size of 4 must have at least 3 excursions to be place on the 303(d) list; therefore this assessment is a category 2 and placed on the "Waters of Concern" list.	
41	**42783**	**2**	**N**	**MOSES LAKE**	**995AYH**	**47119A3I0**	**47.085**	**119.305**	**Total Phosphorus**	**Water**
				Department of Ecology TMDL Assessment, station ML6 (PELICAN HORN) shows in 2001, 0 of 5 epilimnion samples collected (sampling dates: 5/30/01; 7/2/01; 8/1/01; 8/29/01; 9/26/01) exceeded the Phosphorus Action Value of 50ug/L established by Carroll, et. al., 2000. Department of Ecology Lake Database, station 2 shows in 1998, 1 of 4 epilimnion samples collected by Department of Ecology (sampling dates: 6/17/98; 7/15/98; 8/12/98; 9/16/98) exceeded the Phosphorus Action Value of 50ug/L established by Carroll, et. al., 2000. (Ecology Publication No. 00-03-036).					Department of Ecology, Water Quality Policy 1-11, part 9 states that, for phosphorus, a sample size of 4 must have at least 3 excursions to be place on the 303(d) list; therefore this assessment is a category 2 and placed on the "Waters of Concern" list.	
41	**11231**	**2**	**N**	**MOSES LAKE OUTLET**	**833WBK**	**47119A3I3**	**47.085**	**119.335**	**Dissolved oxygen**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41H050 (MOSES LAKE AT SOUTH OUTLET) shows 2 excursions beyond the criterion out of 3 samples collected between 1993 - 2001 measured on these dates: 01/05/13, 01/06/10,						
41	**11250**	**2**	**N**	**MOSES LAKE OUTLET**	**833WBK**	**47119A3I3**	**47.085**	**119.335**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41H050 (MOSES LAKE AT SOUTH OUTLET) shows 1 excursions beyond the criterion out of 3 samples collected between 1993 - 2001 measured on these dates: 01/06/10,						
41	**22973**	**2**	**N**	**OWL LAKE**	**020VXK**	**16N**	**29E**	**31**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 192 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
41	**16175**	**2**	**N**	**PE 16.4 M12 WASTEWAY**	**BJ83CP**	**0**	**15N**	**28E**	**07**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station EID017 (PE 16.4M12 WASTEWAY AT FU 223 BLK 49) shows 2 excursions beyond the criterion measured on these dates: 98/04/29, 98/07/07,						
41	**16142**	**2**	**N**	**PE 16.4 M12 WASTEWAY**	**BJ83CP**	**0**	**15N**	**28E**	**07**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station EID017 (PE 16.4M12 WASTEWAY AT FU 223 BLK 49) shows 3 excursions beyond the criterion measured on these dates: 98/04/29, 98/06/01,						
41	**16131**	**2**	**N**	**POTHOLES CANAL**	**AQ21EH**	**0.369**	**17N**	**28E**	**11**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station CBP010 (POTHOLES CANAL AT HEADWORKS) shows 3 excursions beyond the criterion measured on these dates: 93/06/02, 98/04/13, 98/10/19,					Changed to Category 2. The data submitter has concerns regarding suspected errors in data. 07/15/04 -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
41	**16158**	**2**	**N**	**POTHOLES CANAL**	**AQ21EH**	**0.369**	**17N**	**28E**	**11**	**pH**		**Water**
				U.S. Bureau of Reclamation station CBP010 (POTHOLES CANAL AT HEADWORKS) shows 13 excursions beyond the criterion out of 22 samples collected between 1993-1999							Changed to Category 2. The submitter has concerns regarding suspected errors in data. 07/15/04 -kk	
41	**16130**	**2**	**Y**	**POTHOLES CANAL**	**AQ21EH**	**0.369**	**17N**	**28E**	**11**	**Temperature**		**Water**
				U.S. Bureau of Reclamation station CBP010 (POTHOLES CANAL AT HEADWORKS) shows 7 excursions beyond the criterion measured on these dates: 93/06/02, 93/07/26,							Listed as East Potholes Canal on the 1998 303(d) List. The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
41	**8947**	**2**	**N**	**POTHOLES RESERVOIR**	**995AYH**	**47119B2D7**	**47.135**	**119.275**		**Dieldrin**		**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12471005 (in Parker Horn near Moses Lake) on 7/15/92.								
41	**6168**	**2**	**N**	**POTHOLES RESERVOIR**	**833WBK**					**Total Phosphorus**		**Water**
				Smith et al. (2000) and O'Neal et al. (2001) conclude that designated uses are not being supported.								
41	**22974**	**2**	**N**	**POTHOLES RESERVOIR**	**833WBK**	**46119J3J2**	**46.995**	**119.325**		**Total Phosphorus**		**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 63 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							The basis cited for the assessment applies to the entire lake. The center grid segment of the lake was selected to represent this information.	
41	**16166**	**2**	**N**	**QD WASTEWAY**	**DA61BM**	**56.567**	**20N**	**23E**	**24**	**Dissolved oxygen**		**Water**
				U.S. Bureau of Reclamation station CBP083 (QD WW AT WEST CANAL) shows 2 excursions beyond the criterion measured on these dates: 98/04/15, 98/07/15,								
41	**16185**	**2**	**N**	**QD WASTEWAY**	**DA61BM**	**56.567**	**20N**	**23E**	**24**	**pH**		**Water**
				U.S. Bureau of Reclamation station CBP083 (QD WW AT WEST CANAL) shows 1 excursions beyond the criterion out of 22 samples collected between 1993-1999								
41	**16163**	**2**	**N**	**QD WASTEWAY**	**DA61BM**	**56.567**	**20N**	**23E**	**24**	**Temperature**		**Water**
				U.S. Bureau of Reclamation station CBP083 (QD WW AT WEST CANAL) shows 4 excursions beyond the criterion measured on these dates: 93/07/13, 96/07/08,								
41	**16126**	**2**	**N**	**RBC WASTEWAY**	**PE38ZZ**	**0**	**16N**	**23E**	**35**	**Dissolved oxygen**		**Water**
				U.S. Bureau of Reclamation station CBP109 (RBC WASTEWAY AT LOWER CRAB CK RD S35 T16N R23E) shows 3 excursions beyond the criterion measured on these dates: 93/05/28, 98/04/20, 98/07/14,								

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
41	**16125**	**2**	**N**	**RBC WASTEWAY**	**PE38ZZ**	**0**	**16N**	**23E**	**35**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station CBP109 (RBC WASTEWAY AT LOWER CRAB CK RD S35 T16N R23E) shows 9 excursions beyond the criterion measured on these dates: 93/05/28, 93/07/20,							
41	**16159**	**2**	**N**	**RCD WASTEWAY**	**LK87EA**	**2.105**	**18N**	**29E**	**31**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station CBP008 (RCD WW AT OSULLIVAN RD XING) shows 1 excursions beyond the criterion measured on these dates: 93/05/25,							
41	**16137**	**2**	**N**	**RCD WASTEWAY**	**LK87EA**	**2.105**	**18N**	**29E**	**31**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station CBP008 (RCD WW AT OSULLIVAN RD XING) shows 6 excursions beyond the criterion measured on these dates: 93/07/26, 95/05/23,							
41	**40602**	**2**	**Y**	**RED ROCK COULEE**	**UT36LI**	**1.253**	**16N**	**26E**	**20**	**Dissolved oxygen**	**Water**
				7 excursions beyond the criterion at USBR station CBP080 (at Red Rock Coulee Road) between1990 and 1993.						Changed to Category 2 because of quatiy assurance concerns. The submitter has concerns regarding suspected errors in data. 07/15/04 -kk	
41	**8393**	**2**	**Y**	**RED ROCK COULEE**	**UT36LI**	**1.253**	**16N**	**26E**	**20**	**pH**	**Water**
				2 excursions beyond the criterion at USBR station CBP080 (at Red Rock Coulee Road) on 5/20/92 and 7/16/92.						This waterbody segment was listed on the 1998 303(d) list based on two exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet Category 5 listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
41	**40601**	**2**	**Y**	**RED ROCK COULEE**	**UT36LI**	**1.253**	**16N**	**26E**	**20**	**Temperature**	**Water**
				9 excursions beyond the criterion at USBR station CBP080 (at Red Rock Coulee Road) between 7/30/90 and 7/5/95 per the STORET violations report.						Changed to Category 2. The submitter has concerns regarding suspected errors in data. 07/15/04 -kk This listing was based on data pulled from STORET. In the process, only the number of excursion were requested. No comparison exists between the number samples and the number of excursions because the number of samples is unknown. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
41	**16167**	**2**	**N**	**ROCKY COULEE WASTEWAY**	**SF91XC**	**0.948**	**19N**	**28E**	**01**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station EID003 (ROCKY COULEE WASTEWAY AT BROADWAY EXTENDED) shows 1 excursions beyond the criterion measured on these dates: 98/04/22, Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41G070 (ROCKY COULEE WASTEWAY @ K NE) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41G070 (ROCKY COULEE WASTEWAY @ K NE) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 U.S. Bureau of Reclamation station EID003 (ROCKY COULEE WASTEWAY AT BROADWAY EXTENDED) shows 1 excursions beyond the criterion measured on these dates: 98/04/22,							
41	**16168**	**2**	**N**	**ROCKY COULEE WASTEWAY**	**LK87EA**	**13.072**	**19N**	**28E**	**36**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station EID005 (ROCKY COULEE DRAIN AT HWY 17) shows 1 excursions beyond the criterion measured on these dates: 98/04/22,							
41	**16169**	**2**	**N**	**ROCKY COULEE WASTEWAY**	**SF91XC**	**0.948**	**19N**	**28E**	**01**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station EID003 (ROCKY COULEE WASTEWAY AT BROADWAY EXTENDED) shows 2 excursions beyond the criterion measured on these dates: 98/04/22, 98/07/01, Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41G070 (ROCKY COULEE WASTEWAY @ K NE) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41G070 (ROCKY COULEE WASTEWAY @ K NE) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 U.S. Bureau of Reclamation station EID003 (ROCKY COULEE WASTEWAY AT BROADWAY EXTENDED) shows 2 excursions beyond the criterion measured on these dates: 98/04/22, 98/07/01,							
41	**16177**	**2**	**N**	**ROCKY COULEE WASTEWAY**	**LK87EA**	**13.072**	**19N**	**28E**	**36**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station EID005 (ROCKY COULEE DRAIN AT HWY 17) shows 1 excursions beyond the criterion measured on these dates: 98/07/01,							
41	**16821**	**2**	**N**	**ROCKY FORD COULEE DRAIN**	**LK87EA**	**13.072**	**19N**	**28E**	**36**	**Fecal Coliform**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41F100 (ROCKY FORD COULEE DRAIN) shows a geometric mean of 23 does not exceed the criterion and that 33% of the samples exceeds the percentile criterion from 3 samples collected during 1997.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41F100 (ROCKY FORD COULEE DRAIN) shows a geometric mean of 52 does not exceed the criterion and that 7% of the samples does not exceed the percentile criterion from 14 samples collected during 1998.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
41	**15078**	**2**	**N**	**ROCKY FORD CREEK**	**RC52FG**	**21.961**	**20N**	**27E**	**08**	**Dissolved oxygen**	**Water**
				Carroll et al. (2000) station RF0 (ROCKY FORD CREEK BELOW ABATEMENT DAM) shows 3 excursions beyond the criterion measured on these dates: 01/06/26, 01/07/31, 01/08/28, Carroll et al. (2000) station RF1 (ROCKY FORD CREEK ABOVE ABATEMENT POND) shows 3 excursions beyond the criterion measured on these dates: 01/06/26, 01/07/31, 01/08/28, Cusimano (1998) station ROC7 (ROCKY FORD CR A/B DETENTION POND) shows 2 excursions beyond the criterion measured on these dates: 97/08/20, 97/11/04, Cusimano (1998) station ROC8 (ROCKY FORD CR AT BARRIER DAM) shows 2 excursions beyond the criterion measured on these dates: 97/08/20, 97/11/04,							
41	**15081**	**2**	**N**	**ROCKY FORD CREEK**	**RC52FG**	**29.059**	**21N**	**27E**	**28**	**Dissolved oxygen**	**Water**
				Carroll et al. (2000) station RF1B (ROCKY FORD CREEK -SWANSON PROPERTY) shows 1 excursions beyond the criterion measured on these dates: 01/09/24, Cusimano (1998) station ROC5 (ROCKY FORD CR AT SWANSON FARM) shows 2 excursions beyond the criterion measured on these dates: 97/08/20, 97/11/04,							
41	**15082**	**2**	**N**	**ROCKY FORD CREEK**	**RC52FG**	**32.405**	**21N**	**27E**	**21**	**Dissolved oxygen**	**Water**
				Carroll et al. (2000) station RF1C (ROCKY FORD CREEK BELOW TROUTLODGE) shows 1 excursions beyond the criterion measured on these dates: 01/09/24, Cusimano (1998) station FSH4 (ROCKY FORD CR B/L TRTLG II FISH HTCHRY) shows 1 excursions beyond the criterion measured on these dates: 97/11/04,							
41	**15083**	**2**	**N**	**ROCKY FORD CREEK**	**RC52FG**	**31.938**	**21N**	**27E**	**20**	**Dissolved oxygen**	**Water**
				Carroll et al. (2000) station RF1C2 (ROCKY FORD CREEK-LYERLY PROPERTY) shows 1 excursions beyond the criterion measured on these dates: 01/09/24,							
41	**10056**	**2**	**N**	**ROCKY FORD CREEK**	**RC52FG**	**29.059**	**21N**	**27E**	**28**	**Fecal Coliform**	**Water**
				Cusimano (1998) station ROC5 (ROCKY FORD CR AT SWANSON FARM) shows the geometric mean of 9 does not exceed the criterion and that 0 % of the samples does not exceed the percentile criterion from 3 samples collected during 1997.; Cusimano (1998) station ROC5 (ROCKY FORD CR AT SWANSON FARM) shows the geometric mean of 1300 exceeds the criterion and that 100 % of the samples exceeds the percentile criterion from 1 samples collected during 1999.;							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
41	**16822**	**2**	**N**	**ROCKY FORD CREEK**	**RC52FG 23.836 20N 27E 05**	**Fecal Coliform**	**Water**

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41D070 (ROCKY FORD CREEK AT HWY 17) shows a geometric mean of 8 does not exceed the criterion and that 0% of the samples do not exceed the percentile criterion from 8 samples collected during 2001.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41D070 (ROCKY FORD CREEK AT HWY 17) shows a geometric mean of 11 does not exceed the criterion and that 0% of the samples do not exceed the percentile criterion from 3 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41D070 (ROCKY FORD CREEK AT HWY 17) shows a geometric mean of 57 exceeds the criterion and that 17% of the samples exceed the percentile criterion from 12 samples collected during 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41D070 (ROCKY FORD CREEK AT HWY 17) shows a geometric mean of 36 does not exceed the criterion and that 0% of the samples do not exceed the percentile criterion from 4 samples collected during 1997.

Cusimano (1998) station ROC6 (ROCKY FORD CR AT OLD HWY 17 BRIDGE) shows the geometric mean of 39 does not exceed the criterion and that 0% of the samples do not exceed the percentile criterion from 3 samples collected during 1997.

Although criterion were exceeded in 1998, current testing shows standards are being met. As a result, this listing is changed from Category 5 to Category 2. -kk

41	**8394**	**2**	**Y**	**ROCKY FORD CREEK**	**RC52FG 23.836 20N 27E 05**	**pH**	**Water**

Carroll et al. (2000) station RF1A (ROCKY FORD CREEK @ HWY17) shows 0 excursions beyond the criterion out of 1 samples collected between 03/01 - 09/01.

Cusimano (1998) station ROC6 (ROCKY FORD CR AT OLD HWY 17 BRIDGE) shows 1 excursions beyond the criterion out of 2 samples collected between 08/97 - 06/99.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41D070 (ROCKY FORD CREEK AT HWY 17) shows 1 excursions beyond the criterion out of 6 samples collected between 1993 -2001.

U.S. Bureau of Reclamation station CBP060 (ROCKY FORD CR AT RT 17) shows 1 excursions beyond the criterion out of 21 samples collected between 1993-1999.

1 excursion beyond the criterion at USBR station CBP060 (at Route 17) on 5/19/92.

An assessment of collective data indicates that four exceedances out of at least 31 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.

41	**15107**	**2**	**N**	**ROCKY FORD CREEK**	**RC52FG 21.961 20N 27E 08**	**Temperature**	**Water**

Carroll et al. (2000), station RF0 (ROCKY FORD CREEK BELOW ABATEMENT DAM) shows 6 excursions beyond the criterion measured on these dates: 01/06/26, 01/07/30, 01/07/31, 01/08/27, 01/08/28, 01/09/24.

Carroll et al. (2000), station RF1 (ROCKY FORD CREEK ABOVE ABATEMENT POND) shows 3 excursions beyond the criterion measured on these dates: 01/06/26, 01/07/31, 01/08/28.

Cusimano (1998), station ROC7 (ROCKY FORD CR A/B DETENTION POND) shows 1 excursions beyond the criterion measured on this date: 97/08/20.

Cusimano (1998), station ROC8 (ROCKY FORD CR AT BARRIER DAM) shows 1 excursions beyond the criterion measured on this date: 97/08/20.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
41	**15110**	**2**	**N**	**ROCKY FORD CREEK**	**RC52FG**	**29.059**	**21N**	**27E**	**28**	**Temperature**	**Water**
				Carroll et al. (2000) station RF1B (ROCKY FORD CREEK -SWANSON PROPERTY) shows 1 excursions beyond the criterion measured on these dates: 01/09/24, Cusimano (1998) station ROC5 (ROCKY FORD CR AT SWANSON FARM) shows 1 excursions beyond the criterion measured on these dates: 97/08/20,							
41	**22977**	**2**	**N**	**SODA LAKE**	**220AZM**	**17N**	**29E**	**18**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 96 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
41	**13119**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**131.22**	**25N**	**44E**	**06**	**Total PCBs**	**Water**
				Golding 2000. show 1 excursion beyond the National Toxics Rule criterion out of 1 samples collected at station ARGONNE (1/4 MILE UPSTREAM OF BOULDER BEACH) in 2000.							
41	**22978**	**2**	**N**	**STAN COFFIN LAKE**	**094JFC**	**19N**	**23E**	**10**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 156 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
41	**16161**	**2**	**N**	**UNNAMED CREEK**	**MB83BM**	**0**	**16N**	**26E**	**17**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station CBP080 (DCC1 AT RED ROCK COULEE RD) shows 2 excursions beyond the criterion measured on these dates: 93/05/28, 98/07/13,							
41	**16184**	**2**	**N**	**UNNAMED CREEK**	**UT22HS**	**7.843**	**15N**	**28E**	**06**	**pH**	**Water**
				U.S. Bureau of Reclamation station CBP078 (DPE 215 AT RT 26) shows 1 excursions beyond the criterion out of 20 samples collected between 1993-1999							
41	**16121**	**2**	**N**	**UNNAMED CREEK**	**UT22HS**	**7.843**	**15N**	**28E**	**06**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station CBP078 (DPE 215 AT RT 26) shows 9 excursions beyond the criterion measured on these dates: 93/05/25, 93/07/19,							
41	**16124**	**2**	**N**	**UNNAMED CREEK**	**MB83BM**	**0**	**16N**	**26E**	**17**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station CBP080 (DCC1 AT RED ROCK COULEE RD) shows 9 excursions beyond the criterion measured on these dates: 93/05/28, 93/07/20,							
41	**16164**	**2**	**N**	**W35.9B WASTEWAY**	**DA61BM**	**65.126**	**19N**	**23E**	**11**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station CBP086 (W35.9B WW AT END) shows 1 excursions beyond the criterion measured on these dates: 98/04/15,							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Remarks	Medium
41	**16134**	**2**	**N**	**W35.9B WASTEWAY** U.S. Bureau of Reclamation station CBP086 (W35.9B WW AT END) shows 7 excursions beyond the criterion measured on these dates: 93/07/13, 95/05/31,	**DA61BM 65.126 19N 23E 11**	**Temperature**		**Water**
41	**16141**	**2**	**N**	**W645 DRAIN** U.S. Bureau of Reclamation station CBP016 (W645 DR AT SEC 34 T18N R25E) shows 3 excursions beyond the criterion measured on these dates: 95/06/28, 97/07/08,	**IP94FN 0 17N 26E 18**	**Temperature**		**Water**
41	**16188**	**2**	**N**	**W645 WASTEWAY** U.S. Bureau of Reclamation station CBP084 (W645W AT R-W RD) shows 2 excursions beyond the criterion out of 18 samples collected between 1993-1999	**DA61BM 59.042 20N 23E 25**	**pH**		**Water**
41	**16133**	**2**	**N**	**W645 WASTEWAY** U.S. Bureau of Reclamation station CBP084 (W645W AT R-W RD) shows 9 excursions beyond the criterion measured on these dates: 93/06/03, 93/07/13,	**DA61BM 59.042 20N 23E 25**	**Temperature**		**Water**
41	**22981**	**2**	**N**	**WARDEN, SOUTH LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 36 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	**989JVJ 17N 29E 15**	**Total Phosphorus**		**Water**
41	**16146**	**2**	**N**	**WEST CANAL** U.S. Bureau of Reclamation station CBP032 (W CA AT FRENCHMAN HILLS WW) shows 4 excursions beyond the criterion out of 16 samples collected between 1993-1999	**DA61BM 98.966 17N 25E 11**	**pH**	Changed to Category 2. The submitter has concerns regarding suspected errors in data. 07/15/04 -kk	**Water**
41	**16187**	**2**	**N**	**WEST CANAL** U.S. Bureau of Reclamation station CBP034 (WEST CANAL AT LATERAL W40 T.O.) shows 2 excursions beyond the criterion out of 4 samples collected between 1993-1999	**DA61BM 64.469 19N 23E 02**	**pH**		**Water**
41	**8400**	**2**	**N**	**WEST CANAL** 1 excursion beyond the criterion at USGS station 465552119191800 (at H Road SE near Royal Camp) on 5/25/94.	**PQ02RT 2.334 17N 28E 29**	**Temperature**		**Water**
41	**16135**	**2**	**Y**	**WEST CANAL** U.S. Bureau of Reclamation station CBP032 (W CA AT FRENCHMAN HILLS WW) shows 6 excursions beyond the criterion measured on these dates: 93/07/14, 95/05/30,	**DA61BM 98.966 17N 25E 11**	**Temperature**	The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Remarks	Medium
41	16182	2	N	**WEST CANAL** U.S. Bureau of Reclamation station CBP034 (WEST CANAL AT LATERAL W40 T.O.) shows 1 excursions beyond the criterion measured on these dates: 98/07/15,	DA61BM 64.469 19N 23E 02	Temperature		Water
41	22982	2	N	**WILLOW, SOUTH LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 111 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	765NHJ 21N 27E 13	Total Phosphorus		Water
41	16132	2	N	**WINCHESTER WASTEWAY** U.S. Bureau of Reclamation station CBP028 (WINCHESTER WW AT GAGING STATION) shows 3 excursions beyond the criterion measured on these dates: 93/06/02, 98/06/01, 98/07/13,	MP42OO 0.22 18N 27E 32	Dissolved oxygen	Changed to Category 2. The submitter has concerns regarding suspected errors in data. 07/15/04 -kk	Water
41	8401	2	Y	**WINCHESTER WASTEWAY** U.S. Bureau of Reclamation station CBP028 (WINCHESTER WW AT GAGING STATION) shows 0 excursions beyond the criterion out of 22 samples collected between 1993-1999 2 excursions beyond the criterion at USGS station 12471050 (at gage on SE C Road near Moses Lake) on 3/2/92 and 7/30/93.	MP42OO 0.22 18N 27E 32	pH	An assessment of collective data from 1993-1999 indicates that 2 exceedances out of at least 24 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	Water
41	8404	2	N	**WINCHESTER WASTEWAY** 1 excursion beyond the criterion at USGS station 471313119422400 (at road 9 NW near Quincy) on 8/28/92.	KD37YS 4.446 20N 25E 20	pH		Water
41	8402	2	Y	**WINCHESTER WASTEWAY** 2 excursions beyond the criterion at USGS station 12471050 (at gage on SE C Road near Moses Lake) on 7/15/92 and 7/30/93. U.S. Bureau of Reclamation station CBP028 (WINCHESTER WW AT GAGING STATION) shows 7 excursions beyond the criterion measured between 7/30/90 and 7/5/95.	MP42OO 0.22 18N 27E 32	Temperature	This listing was based on data pulled from STORET. In the process, only the number of excursion were requested. No comparison exists between the number samples and the number of excursions because the number of samples is unknown. -kk	Water
41	8403	2	N	**WINCHESTER WASTEWAY** 1 excursion beyond the criterion at USGS station 471313119422400 (at road 9 NW near Quincy) on 8/28/92.	KD37YS 4.446 20N 25E 20	Temperature		Water
41	22983	2	N	**WINCHESTER WASTEWAY EXT LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 45 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	987GEK 18N 26E 25	Total Phosphorus		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
41	22984	2	N	**WINCHESTER WASTEWAY LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 68 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	389LIR 19N 25E 25	Total Phosphorus	Water	
41	22985	2	N	**WINDMILL LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 45 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	917WRA 17N 29E 28	Total Phosphorus	Water	
42	9654	2	N	**ALKALI-LENORE CREEK** Pickett (1999) station SunLk-12 (Alkali-Lenore Creek (ALCREEK)) shows 1 excursions beyond the criterion measured on these dates: 96/07/16,	CJ61YR 11.116 23N 26E 01	Dissolved oxygen	Water	
42	9655	2	N	**ALKALI-LENORE CREEK** Pickett (1999) station SunLk-12 (Alkali-Lenore Creek (ALCREEK)) shows 2 excursions beyond the criterion out of 2 samples collected between 05/96 - 10/96. Pickett (1999) station SunLk-12 (Alkali-Lenore Creek (ALCREEK)) shows 1 excursions beyond the criterion out of 2 samples collected between 05/96 - 10/96.	CJ61YR 11.116 23N 26E 01	pH	Water	
42	9656	2	N	**ALKALI-LENORE CREEK** Pickett (1999) station SunLk-12 (Alkali-Lenore Creek (ALCREEK)) shows 2 excursions beyond the criterion measured on these dates: 96/06/18, 96/07/16,	CJ61YR 11.116 23N 26E 01	Temperature	Water	
42	22987	2	N	**BANKS LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 36 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	296QRB 47119H2F3 47.755 119.235	Total Phosphorus	Water	The basis cited for the assessment applies to the entire lake. The center grid segment of the lake was selected to represent this information.
42	9657	2	N	**BLUE-ALKALI CREEK** Pickett (1999) station SunLk-9 (Blue-Alkali Creek (BLCREEK)) shows 4 excursions beyond the criterion measured on these dates: 96/06/18, 96/07/16, 96/08/13, 96/10/01 Pickett (1999) station SunLk-9 (Blue-Alkali Creek (BLCREEK)) shows 3 excursions beyond the criterion measured on these dates: 96/06/18, 96/07/16, 96/08/13,	CJ61YR 8.355 24N 27E 32	Dissolved oxygen	Water	
42	9659	2	N	**BLUE-ALKALI CREEK** Pickett (1999) station SunLk-9 (Blue-Alkali Creek (BLCREEK)) shows 3 excursions beyond the criterion measured on these dates: 96/06/18, 96/07/16, 96/08/13,	CJ61YR 8.355 24N 27E 32	Temperature	Water	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
42	**22990**	**2**	**N**	**COFFEE LAKE**	**093HPV**	**27N**	**30E**	**10**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 2877 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
42	**11252**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**945.566**	**29N**	**30E**	**36**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 53A070 shows that of 28 samples none exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 53A070 (COLUMBIA RIVER AT GRAND COULEE) shows 2 excursions beyond the criterion out of 48 samples collected between 1993 - 2001.						
42	**22991**	**2**	**N**	**COULEE LAKE**	**499TVC**	**24N**	**28E**	**04**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 4070 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
42	**11256**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**55.61**	**22N**	**27E**	**23**	**pH**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 42A070 (CRAB CR BELOW ADRIAN) shows 1 excursions beyond the criterion out of 1 samples collected between 1993 - 2001 Carroll et al, (2000) station CC5 (CRAB CREEK AT ROAD 20) shows 0 excursions beyond the criterion out of 1 sample collected between 03/01 - 09/01.						
42	**22994**	**2**	**N**	**LENORE LAKE**	**504QNY**	**23N**	**26E**	**35**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 63 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
42	**9662**	**2**	**N**	**LENORE LAKE OUTLET CHANNEL**	**CJ61YR**	**19.626**	**23N**	**26E**	**35**	**Temperature**	**Water**
				Pickett (1999) station SunLk-16 (Lenore Lake outlet channel (LECREEK)) shows 2 excursions beyond the criterion measured on these dates: 96/07/16, 96/08/13,						
42	**16204**	**2**	**Y**	**MAIN CANAL**	**YT71YB**	**10.377**	**23N**	**28E**	**36**	**Dissolved oxygen**	**Water**
				U.S. Bureau of Reclamation station CBP033 (MAIN CANAL AT PINTO RIDGE) shows 1 excursions beyond the criterion measured on these dates: 98/07/01,						Assessment of last 10 years of data indicate one excursion of dissolved oxygen, which is not sufficient to be placed as impaired on the 303(d) List.
42	**16205**	**2**	**N**	**MAIN CANAL**	**YT71YB**	**10.377**	**23N**	**28E**	**36**	**pH**	**Water**
				U.S. Bureau of Reclamation station CBP033 (MAIN CANAL AT PINTO RIDGE) shows 2 excursions beyond the criterion out of 22 samples collected between 1993-1999						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
42	**16203**	**2**	**Y**	**MAIN CANAL**	**YT71YB**	**10.377**	**23N**	**28E**	**36**	**Temperature**	**Water**
				U.S. Bureau of Reclamation station CBP033 (MAIN CANAL AT PINTO RIDGE) shows 5 excursions beyond the criterion measured on these dates: 93/07/19, 95/07/05,						The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
42	**9663**	**2**	**N**	**MEADOW CREEK**	**WG06VK**	**6.31**	**24N**	**27E**	**11**	**Dissolved oxygen**	**Water**
				Pickett (1999) station SunLk-2 (Meadow Creek (MEADOW)) shows 1 excursions beyond the criterion measured on these dates: 96/06/17,							
42	**10064**	**2**	**N**	**MEADOW CREEK**	**WG06VK**	**6.31**	**24N**	**27E**	**11**	**Fecal Coliform**	**Water**
				Pickett (1999) station SunLk-2 (Meadow Creek (MEADOW)) shows the geometric mean of 24 does not exceed the criterion and that 14 % of the samples exceeds the percentile criterion from 7 samples collected during 1996, with only 1 sample that exceeds the percentile criterion.							
42	**9664**	**2**	**N**	**MEADOW CREEK**	**WG06VK**	**6.31**	**24N**	**27E**	**11**	**pH**	**Water**
				Pickett (1999) station SunLk-2 (Meadow Creek (MEADOW)) shows 1 excursions beyond the criterion out of 4 samples collected between 05/96 - 10/96.							
42	**9665**	**2**	**N**	**MEADOW CREEK**	**WG06VK**	**6.31**	**24N**	**27E**	**11**	**Temperature**	**Water**
				Pickett (1999) station SunLk-2 (Meadow Creek (MEADOW)) shows 2 excursions beyond the criterion measured on these dates: 96/07/15, 96/08/12,							
42	**15245**	**2**	**N**	**PARK LAKE CREEK**	**CJ61YR**	**3.302**	**24N**	**27E**	**16**	**Dissolved oxygen**	**Water**
				Pickett (1999) station SunLk-5 (Park Lake Creek (PKCREEK)) shows 3 excursions beyond the criterion measured on these dates: 96/07/16, 96/08/13, 96/10/01,							
42	**10060**	**2**	**N**	**PARK LAKE CREEK**	**CJ61YR**	**3.302**	**24N**	**27E**	**16**	**Fecal Coliform**	**Water**
				Pickett (1999) station SunLk-5 (Park Lake Creek (PKCREEK)) shows the geometric mean of 16 does not exceed the criterion and that 20 % of the samples exceeds the percentile criterion from 5 samples collected during 1996, with only 1 sample that exceeds the percentile criterion.							
42	**15247**	**2**	**N**	**PARK LAKE CREEK**	**CJ61YR**	**3.302**	**24N**	**27E**	**16**	**Temperature**	**Water**
				Pickett (1999) station SunLk-5 (Park Lake Creek (PKCREEK)) shows 3 excursions beyond the criterion measured on these dates: 96/06/18, 96/07/16, 96/08/13,							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
42	**22996**	**2**	**N**	**ROUND LAKE**	**895ZGS**	**22N**	**28E**	**08**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 73 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 10 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
42	**41616**	**2**	**N**	**SOAP LAKE**	**971VAN**	**22N**	**26E**	**24**	**Chloride**	**Water**
				Pitz, C.F., (2003), station SPLK-1 shows that 1 sample exceeded the criterion in year 2001.						
42	**22997**	**2**	**N**	**SOAP LAKE**	**971VAN**	**22N**	**26E**	**24**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 508 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
42	**22998**	**2**	**N**	**SOAP, LITTLE LAKE**	**713TOJ**	**22N**	**26E**	**02**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 1771 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
42	**22999**	**2**	**N**	**TABLE LAKE**	**157CQY**	**25N**	**28E**	**32**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 508 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
42	**22510**	**2**	**N**	**THOMPSON LAKE**	**155ZIN**	**27N**	**29E**	**11**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
42	**23001**	**2**	**N**	**WILSON LAKE**	**703VPZ**	**29N**	**29E**	**22**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 1771 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**23003**	**2**	**N**	**BERGEAU LAKE**	**411DHN**	**25N**	**33E**	**34**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 474 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**40451**	**2**	**N**	**BLUESTEM CREEK**	**DT57QJ**	**0**	**23N**	**38E** **08**	**Dissolved oxygen**	**Water**
				Unpublished data from the Lincoln Conservation District station BS2 (Bluestem Creek north of Bluestem Rd.) show excursions beyond the criterion from measurements collected in 1997.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
43	**23004**	**2**	**N**	**BOBS (TULE) LAKE**	**526AQC**	**22N**	**32E**	**23**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 111 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**23005**	**2**	**N**	**BROOK (STRATFORD) LAKE**	**442KSS**	**22N**	**28E**	**02**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 96 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**23006**	**2**	**N**	**BROWNS LAKE**	**624SLL**	**37N**	**42E**	**36**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 127 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**23007**	**2**	**N**	**CLEAR LAKE**	**075BVO**	**34N**	**05E**	**07**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**23008**	**2**	**N**	**COFFEE POT LAKE**	**793KPX**	**23N**	**33E**	**13**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 42 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**23009**	**2**	**N**	**CORMANA LAKE**	**897DPB**	**23N**	**35E**	**19**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 237 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**40463**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**92.765**	**22N**	**30E** **12**	**Dissolved oxygen**	**Water**
				Unpublished data from the Lincoln Conservation District station CC16 (Crab Creek at Marlin, WA) show excursions beyond the criterion from measurements collected in 2002.						
43	**16825**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**203.789**	**23N**	**38E** **08**	**Fecal Coliform**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 43A150 (Crab Creek at Bluestem Road) shows a geometric mean of 113 does not exceed the criterion and that 50% of the samples exceeds the percentile criterion from 2 samples collected during 1995.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 43A150 (Crab Creek at Bluestem Road) shows a geometric mean of 241 exceeds the criterion and that 33% of the samples exceeds the percentile criterion from 3 samples collected during 1996.						
43	**40495**	**2**	**N**	**CRAB CREEK**	**ZS46FS**	**0.585**	**24N**	**39E** **07**	**Fecal Coliform**	**Water**
				Unpublished data from the Lincoln Conservation District station CC1 (Crab Creek just west of Hwy 231) show an excursion beyond the geometric mean criterion from 2 samples collected in 1996.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
43	**40497**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**205.646**	**23N**	**38E**	**08**	**Fecal Coliform**	**Water**
				Lincoln Conservation District data (submitted by Eric Mularsky on 3/8/2004), station CC3 (Crab Creek north of Bluestem Rd.), shows no excursions beyond the geometric mean nor the percentile criterion from samples collected in 2002 and 2003. Unpublished data from the Lincoln Conservation District station CC3 (Crab Creek north of Bluestem Rd.) show excursions beyond the geometric mean criterion from samples collected in 1997.						
43	**8405**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**161.479**	**21N**	**36E**	**22**	**pH**	**Water**
				1 excursion beyond the criterion at USGS station 471745118161900 (below Tokio Road above Ritzville) on 9/1/93.						
43	**9651**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**67.323**	**22N**	**28E**	**02**	**pH**	**Water**
				Carroll et al. (2000) station CC6 (CRAB CREEK AT BROOK LAKE OUTLET) shows 2 excursions beyond the criterion out of 2 samples collected between 03/01 - 09/01.						
43	**40486**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**181.531**	**22N**	**37E**	**35**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 43A130 shows that 1 of 2 samples exceed the criterion. Unpublished data from the Lincoln Conservation District station CC7 (Crab Creek at Hwy. 23) show no excursions beyond the criterion from 12 measurements collected in 1996-1997.					Changed from Category 1 to Category 2 on 01/14/05 due to consolidation with listing ID 42588. -kk	
43	**40494**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**79.755**	**22N**	**29E**	**02**	**pH**	**Water**
				Unpublished data from the Lincoln Conservation District station CC19 (Crab Creek west of Wilson Creek, WA) show 2 excursions beyond the criterion from 20 measurements collected in 2001-2002.						
43	**42585**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**122.962**	**21N**	**33E**	**08**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 43A080 shows that 1 of 2 samples exceed the criterion.						
43	**42586**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**140.706**	**21N**	**34E**	**13**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 43A095 shows that 1 of 2 samples exceed the criterion.						
43	**42587**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**163.3**	**21N**	**36E**	**23**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 43A110 shows that 1 of 2 samples exceed the criterion.						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information				Parameter	Remarks	Medium
43	**11264**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**107.613**	**22N**	**32E**	**31**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 43A070 (Crab Cr @ Irby) shows 1 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 measured on these dates: 96/07/09, U.S. Bureau of Reclamation station CBP111 (CRAB CREEK AT IRBY CROSSING) shows 0 excursions beyond the criterion out of 5 samples collected between 1993-1999 U.S. Bureau of Reclamation station CBP111 (CRAB CREEK AT IRBY CROSSING) shows 0 excursions beyond the criterion out of 5 samples collected between 1993-1999 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 43A070 (Crab Cr @ Irby) shows 1 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 measured on these dates: 96/07/09,						
43	**40441**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**181.531**	**22N**	**37E**	**35**	**Temperature**	**Water**
				Unpublished data from the Lincoln Conservation District station CC7 (Crab Creek at Hwy. 23) show excursions beyond the criterion from measurements collected in 1997.							
43	**40448**	**2**	**N**	**CRAB CREEK**	**FU07MU**	**92.765**	**22N**	**30E**	**12**	**Temperature**	**Water**
				Unpublished data from the Lincoln Conservation District station CC16 (Crab Creek at Marlin, WA) show excursions beyond the criterion from measurements collected in 2002.							
43	**40505**	**2**	**N**	**CRAB CREEK, S.F.**	**ZZ96LC**	**0**	**21N**	**35E**	**23**	**Fecal Coliform**	**Water**
				Unpublished data from the Lincoln Conservation District station SF11 (South Fork Crab Creek West of Rocky Ford Rd.) show no excursions beyond the geometric mean criterion from samples collected in 2000, 2001 and 2002.						Received additional information from ECY/CRO for station SF11 showing excursions on 6/14/01, 6/18/01 and 7/16/01.	
43	**23010**	**2**	**N**	**DEER (DEER SPRINGS) LAKE**	**451FQY**	**23N**	**33E**	**23**	**Total Phosphorus**		**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 48 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
43	**23011**	**2**	**N**	**DRAPERS LAKE**	**126JVE**	**24N**	**32E**	**12**	**Total Phosphorus**		**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
43	**22511**	**2**	**N**	**FLAT LAKE**	**747LUV**	**19N**	**19E**	**13**	**Total Phosphorus**		**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 1342 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 24 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
43	**23012**	**2**	**N**	**FLORENCE LAKE**	**720COW**	**24N**	**34E**	**01**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 826 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 10 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.						
43	**23013**	**2**	**N**	**GOETZ LAKE**	**798KJV**	**23N**	**32E**	**28**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 221 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**42523**	**2**	**N**	**GOOSE CREEK**	**XA78BG**	**5.495**	**26N**	**32E**	**Dissolved oxygen**	**Water**
				Hallock (2003), Dept. of Ecology ambient station 43C070 shows a total of 2 samples in year 2002 exceeded the criterion.						
43	**42534**	**2**	**N**	**GOOSE CREEK**	**XA78BG**	**5.495**	**26N**	**32E**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 43C070 shows 1 of 6 samples (16.7%) in year 2003 exceeded the percentile criterion.						
43	**23002**	**2**	**N**	**H LAKE**	**134RFZ**	**25N**	**33E**	**08**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 313 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**11261**	**2**	**N**	**LAKE CREEK**	**DK89DK**	**20.972**	**23N**	**34E**	**09**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 43B090 (Lake Ck @ Coffeepot Road) shows 1 excursions beyond the criterion out of 1 samples collected between 1993 - 2001 measured on these dates: 96/07/09,						
43	**40442**	**2**	**N**	**LORDS CREEK**	**FJ37BL**	**0**	**22N**	**37E**	**34**	**Temperature**	**Water**
				Unpublished data from the Lincoln Conservation District station LO8 (Lords Creek west of Hwy. 23) show excursions beyond the criterion from measurements collected in 1997.						
43	**22912**	**2**	**N**	**MEDICAL, WEST LAKE**	**630CWH**	**24N**	**40E**	**13**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 2877 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**22913**	**2**	**N**	**NEVES LAKE**	**673ZLN**	**22N**	**33E**	**04**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 111 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information				Parameter	Medium
43	22914	2	N	**PACIFIC LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 55 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	530BYA	22N	32E	12	Total Phosphorus	Water
43	22915	2	N	**PETERSON LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 272 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 8 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	688IMI	28N	01W	06	Total Phosphorus	Water
43	22916	2	N	**PHILLIPS LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 442 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Smith et al. (2000) concludes that designated uses are being supported. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 15 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	278QEH	20N	02W	05	Total Phosphorus	Water
43	40440	2	N	**ROCK CREEK** Unpublished data from the Lincoln Conservation District station RO6 (Rock Creek at Stolp Rd.) show excursions beyond the criterion from measurements collected in 1997.	DS13LS	10.464	23N	38E 34	Temperature	Water
43	22917	2	N	**SULLIVAN LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 442 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 7 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Northern Rockies Ecoregion.	315ZKD	22N	32E	06	Total Phosphorus	Water
43	22918	2	N	**SWANSON LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 254 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	629WKH	25N	34E	33	Total Phosphorus	Water
43	22919	2	N	**SYLVAN LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 73 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	624JPH	21N	33E	12	Total Phosphorus	Water

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
43	**22920**	**2**	**N**	**TAVARES LAKE**	**999GFK**	**23N**	**33E**	**34**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 118 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**22921**	**2**	**N**	**TWIN, LOWER LAKE**	**731XPX**	**40N**	**09E**	**16**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 2 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Cascades Ecoregion.						
43	**22922**	**2**	**N**	**TWIN, UPPER LAKE**	**428BSV**	**24N**	**34E**	**35**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 63 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**40967**	**2**		**WAGNER LAKE**	**274NYN**	**25N**	**33E**	**17**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 671 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**22924**	**2**	**N**	**WALL LAKE**	**455EZW**	**24N**	**34E**	**07**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 118 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**22925**	**2**	**N**	**WEBLEY (WOOLEY) LAKE**	**043OAE**	**22N**	**32E**	**06**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 292 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**6169**	**2**	**N**	**WEST MEDICAL LAKE**	**630CWH**	**24N**	**40E**	**13**	**Total Phosphorus**	**Water**
				Smith et al. (2000) concludes that designated uses are not being supported.						
43	**22926**	**2**	**N**	**WHITTAKER LAKE**	**604FCW**	**24N**	**35E**	**03**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 111 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
43	**22927**	**2**	**N**	**WILLS LAKE**	**617MUW**	**24N**	**34E**	**16**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 221 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter / Remarks	Medium
44	22928	2	N	**GRIMES LAKE**	466WKU	26N	26E	30		Total Phosphorus	Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 2505 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
44	22929	2	N	**HAYNES LAKE**	626GZM	26N	27E	28		Total Phosphorus	Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 413 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
44	22930	2	N	**JAMESON LAKE**	181DPP	25N	25E	12		Total Phosphorus	Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 55 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
44	22931	2	N	**STALLARD LAKE**	478JJV	26N	27E	33		Total Phosphorus	Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 6170 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
45	41446	2	N	**BEAVER CREEK**	HH14OY	0	26N	17E	12	Dissolved oxygen	Water
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45BC00.1 shows 1 sample exceeded the criterion in year 2002.							
45	34845	2	N	**BRENDER CREEK**	FB41UG	0	23N	19E	05	Chlorpyrifos	Water
				Serdar and Era-Miller (2002) show 1 excursion beyond the National Toxic Rule criterion from samples collected in 2000.							
45	41385	2	N	**BRENDER CREEK**	FB41UG	2.104	23N	19E	06	Dissolved oxygen	Water
				Ecology EIM study WENRTMDL, station 45BR01.4 shows 1 sample exceeded the criterion in year 2003.							
				Ecology EIM study WENRTMDL, station 45BR01.6 shows that no samples exceeded the criterion in year 2003.							
				Ecology EIM study WENRTMDL, station 45BR01.9 shows that no samples exceeded the criterion in year 2003.							
				Ecology EIM study WENRTMDL, station 45BR02.0 shows that no samples exceeded the criterion in year 2003.							
				Ecology EIM study WENRTMDL, station 45BR02.1 shows that no samples exceeded the criterion in year 2003.							
45	36397	2	N	**BRENDER CREEK**	FB41UG	0	23N	19E	05	Guthion(azinphos-methyl)	Water
				Serdar and Era-Miller (2002) show 1 excursion beyond the EPA (1986) recommended criterion on 30 May 2000.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
45	**41917**	**2**	**N**	**CASCADES ORCHARDS IRR RET**	**KE10SF**	**0**	**24N**	**17E**	**14**	**Fecal Coliform**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45CD00.1 shows that 1 of 2 samples (50%) collected in 2002 exceed the percentile criterion.							
45	**9668**	**2**	**N**	**CHIWAWA RIVER**	**HH87YZ**	**2.015**	**27N**	**18E**	**31**	**pH**	**Water**
				Summers (2001) station SRIW4502 (WATER QUALITY AT CHIWAWA LOOP BRIDGE) shows 1 excursions beyond the criterion out of 2 samples collected between 10/00 - 09/01.							
45	**8410**	**2**	**Y**	**CHUMSTICK CREEK**	**TX45RJ**	**0.318**	**24N**	**17E**	**01**	**Dissolved oxygen**	**Water**
				Ecology EIM study WENRTMDL, station 45C060 shows that no samples exceeded the criterion in year 2003. Ecology EIM study WENRTMDL, station 45C070 shows that no samples exceeded the criterion in year 2002. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 45C070 (CHUMSTICK CREEK NEAR LEAVENWORTH) shows 0 excursions beyond the criterion out of 18 samples collected between 1993 - 2001. Hindes, 1994. 2 excursions beyond the criterion at station 11 on 10/12/92 and 8/17/93						Changed from Category 5 to Category 2 on 01/24/05 due to consolidation with Listing IDs 41230 (cat 1) and 41231 (cat 1). -kk This water body is part of an ongoing comprehensive TMDL study in WRIA 45, and was listed in 1998.	
45	**8413**	**2**	**N**	**CHUMSTICK CREEK**	**TX45RJ**	**14.005**	**26N**	**18E**	**30**	**Dissolved oxygen**	**Water**
				Ecology EIM study WENRTMDL, station 45LC00.1 shows 4 samples exceeded the criterion in year 2003. Hindes, 1994, 1 excursion beyond the criterion at station 12 on 8/17/93.						WASWIS and Lowr Route adjusted to reflect correct location of "station 12". 12/09/04 -kk	
45	**41232**	**2**	**N**	**CHUMSTICK CREEK**	**TX45RJ**	**14.005**	**26N**	**18E**	**30**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45CS09.1 shows 7 samples exceeded the criterion in year 2003.							
45	**41394**	**2**	**N**	**CHUMSTICK CREEK**	**TX45RJ**	**1.518**	**25N**	**18E**	**31**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45CS01.0 shows 2 samples exceeded the criterion in year 2003. Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45CS02.0 shows that no samples exceeded the criterion in year 2003.							
45	**41449**	**2**	**N**	**CHUMSTICK CREEK**	**TX45RJ**	**12.183**	**26N**	**18E**	**31**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45CS08.3 shows 4 samples exceeded the criterion in year 2003. Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45CS08.6 shows 4 samples exceeded the criterion in year 2003.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
45	**8414**	**2**	**N**	**CHUMSTICK CREEK** Hindes, 1994, 1 excursion beyond the criterion at station 12 in 6/93.	**TX45RJ**	**14.005**	**26N**	**18E**	**30**	**Fecal Coliform**	**Water**	WASWIS and Lower Route adjusted to reflect correct location of "station 12". 12/09/04 -kk Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 2 based on the 1998 assessment.
45	**41687**	**2**	**N**	**CHUMSTICK CREEK** Ecology EIM study WENRTMDL, station 45CS01.0 shows that a total of 2 samples were collected in year 2003 and none were found to exceed the criterion. Ecology EIM study WENRTMDL, station 45CS02.0 shows that 1 of 4 samples (25%) collected in 2003 exceed the percentile criterion.	**TX45RJ**	**1.518**	**25N**	**18E**	**31**	**Fecal Coliform**	**Water**	Changed from Category 1 to Category 2 on 01/12/05 due to consolidation with Listing ID 41688. -kk
45	**41785**	**2**	**N**	**CHUMSTICK IRR RET** Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45CR00.1 shows 2 samples exceeded the criterion in year 2003.	**UNK000**	**0**	**24N**	**17E**	**01**	**Temperature**	**Water**	
45	**8962**	**2**	**Y**	**COLUMBIA RIVER** Johnson and Era, 2001. show no evidence of toxicity to Daphnia pulex from samples collected during 2001. CH2M Hill, 1995. , Ceriodaphnia dubia reduction in reproduction at station sampled near Wenatchee in 7/95.	**NN57SG**	**739.66 6**	**22N**	**20E**	**03**	**Water Column Bioassay**	**Water**	A verificaiton study by Johnson and Era, 2001, show no evidence of toxicity to Daphnia pulex from samples collected during 2001.
45	**22673**	**2**	**N**	**CRYSTAL LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 18 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion. Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 2.8 ug/L in 1985 which does not exceed the water quality standards nutrient criterion for the Cascades Ecoregion.	**413UJF**	**23N**	**16E**	**23**		**Total Phosphorus**	**Water**	Originally listed as being in WRIA 8. 06/02/04 -kk
45	**41236**	**2**	**N**	**EAGLE CREEK** Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45EG05.8 shows 3 samples exceeded the criterion in year 2003.	**ZW35YH**	**8.967**	**25N**	**18E**	**24**	**Dissolved oxygen**	**Water**	
45	**41403**	**2**	**N**	**EAGLE CREEK** Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45EG00.9 shows 2 samples exceeded the criterion in year 2003.	**ZW35YH**	**0.893**	**25N**	**18E**	**30**	**Dissolved oxygen**	**Water**	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
45	**41699**	**2**	**N**	**EAGLE CREEK**	**ZW35YH**	**0**	**25N**	**18E**	**31**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 45Q060 shows 1 of 8 samples (12.5%) in year 2003 exceeded the percentile criterion. Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45Q060 shows that 1 of 1 samples (100%) collected in 2003 exceed the percentile criterion.							
45	**41266**	**2**	**N**	**EAGLE CREEK**	**ZW35YH**	**0**	**25N**	**18E**	**31**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 45Q060 shows that of 11 samples none exceed the criterion. Ecology EIM study WENRTMDL, station 45Q060 shows that 1 of 1 samples exceeds the criterion.							
45	**41309**	**2**	**N**	**EAGLE CREEK**	**ZW35YH**	**8.967**	**25N**	**18E**	**24**	**pH**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45EG05.8 shows that 2 of 10 samples exceed the criterion.							
45	**22936**	**2**	**N**	**FISH LAKE**	**WI35AE**	**36N**	**25E**	**22**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 34 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 111 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
45	**41963**	**2**	**N**	**FISH LAKE RUN**	**FA50VH**	**0**	**27N**	**17E**	**27**	**Ammonia-N**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45FL00.3 shows a total of 2 samples in year 2002 exceeded the chronic criterion.							
45	**41873**	**2**	**N**	**FISH LAKE RUN**	**FA50VH**	**0**	**27N**	**17E**	**27**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45FL00.3 shows 2 samples exceeded the criterion in year 2002.							
45	**41787**	**2**	**N**	**GUNN DITCH**	**UNK000**	**0**	**23N**	**19E**	**13**	**Temperature**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45GD03.5 shows 2 samples exceeded the criterion in year 2002.							
45	**41842**	**2**	**N**	**HIGHLINE CANAL RET**	**FG00VD**	**0**	**23N**	**20E**	**29**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45HR00.1 shows 1 sample exceeded the criterion in year 2002.							
45	**41806**	**2**	**N**	**HIGHLINE CANAL RET**	**FG00VD**	**0**	**23N**	**20E**	**29**	**pH**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45HR00.1 shows that 1 of 9 samples exceeds the criterion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
45	**41962**	**2**	**N**	**ICICLE CREEK**	**KN36FW**	**3.827**	**24N**	**17E**	**24**	**Ammonia-N**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45B070 shows a total of 1 sample in year 2002 exceeded the chronic criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 45B070 (Icicle Cr nr Leavenworth) shows 0 excursions beyond the criterion out of 6 samples collected between 1993 - 2001							
45	**41964**	**2**	**N**	**ICICLE CREEK**	**GO42NN**	**0**	**24N**	**17E**	**23**	**Ammonia-N**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45IC03.0 shows a total of 1 sample in year 2003 exceeded the chronic criterion.							
45	**41965**	**2**	**N**	**ICICLE CREEK**	**KN36FW**	**8.585**	**24N**	**17E**	**28**	**Ammonia-N**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45IC05.8 shows a total of 1 sample in year 2003 exceeded the chronic criterion.							
45	**8418**	**2**	**Y**	**ICICLE CREEK**	**KN36FW**	**14.472**	**24N**	**16E**	**24**	**Dissolved oxygen**	**Water**
				Ecology EIM study WENRTMDL, station 45IC09.9 shows that no samples exceeded the criterion in year 2002. Hindes, 1994, 7 excursions beyond the criterion at station 10 between 1992 and 1993.						Changed from Category 5 to Category 2 on 01/21/05 due to consolidation with Listing ID 41452 (cat 1). -kk During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments. Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues to be impaired. (Braley, ECY/WQP, 2003)	
45	**41457**	**2**	**N**	**ICICLE CREEK**	**KN36FW**	**5.26**	**24N**	**17E**	**26**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45LNFHD shows 1 sample exceeded the criterion in year 2002.							
45	**8419**	**2**	**N**	**ICICLE CREEK**	**KN36FW**	**14.472**	**24N**	**16E**	**24**	**pH**	**Water**
				Hindes, 1994. , 1 excursion beyond the criterion at station 10 on 1/12/93.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
45	**20306**	**2**	**N**	**ICICLE CREEK**	**KN36FW**	**4.318**	**24N**	**17E**	**23**	**Total PCBs**	**Tissue**
				EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 5 fillet with skin collected in 1997 at station 51-0 (River Mile 2.8) sample #97250814. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 5 fillet with skin collected in 1997 at station 51-0 (River Mile 2.8) sample #97250815. EVS Environmental Consultants (2000) show an excursion beyond the National Toxic Rule criterion from Spring Chinook composite of 5 fillet with skin collected in 1997 at station 51-0 (River Mile 2.8) sample #97250816.						Tissue samples are from anadromous or nonresident fish and do not include information on the likely source of the toxic pollutant as it relates to the waterbody segment. Since no evidence is available to connect the pollutant to the segment, it has been placed in the Waters of Concern Category.	
45	**41843**	**2**	**N**	**ICICLE IRR RET**	**UNK000**	**0**	**23N**	**19E**	**14**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45ID00.1 shows 5 samples exceeded the criterion in year 2003.							
45	**41845**	**2**	**N**	**ICICLE IRR RET**	**UNK000**	**0**	**23N**	**19E**	**14**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45ISR00.1 shows 1 sample exceeded the criterion in year 2003.							
45	**41919**	**2**	**N**	**ICICLE IRR RET**	**UNK000**	**0**	**23N**	**19E**	**14**	**Fecal Coliform**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45FR00.1 shows that 1 of 3 samples (33.3%) collected in 2002 exceed the percentile criterion.							
45	**41786**	**2**	**N**	**ICICLE IRR RET**	**UNK000**	**0**	**23N**	**19E**	**14**	**Temperature**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45FR00.1 shows 1 samples exceeded the criterion in year 2002.							
45	**41789**	**2**	**N**	**ICICLE IRR RET**	**UNK000**	**0**	**23N**	**19E**	**14**	**Temperature**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45ID00.1 shows 3 samples exceeded the criterion in year 2003.							
45	**41790**	**2**	**N**	**ICICLE IRR RET**	**UNK000**	**0**	**23N**	**19E**	**14**	**Temperature**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45ISR00.1 shows 2 samples exceeded the criterion in year 2003.							
45	**40933**	**2**	**N**	**INDIAN CREEK**	**ZW65DL**	**0.128**	**29N**	**15E**	**27**	**Temperature**	**Water**
				Scholz, 1999, shows a 7-day mean of maximum daily temperature of 15.9 degrees C, with a maximum daily temperature of 16.7 degrees C from continuous measurements collected in 1998 at Indian Creek.						WRIA changed from 99 to 45. 12/03/04 -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				INGALLS CREEK	**WB74JU**	**0.845**	**23N**	**17E**	**26**	**Temperature**	**Water**
45	**39363**	**2**	**N**								

Basis

Dept. of Ecology's Wenatchee River TMDL continuous monitoring data, station 45IN00.7, shows between 5/20/2002 and 9/20/2003 there were no occurences in which the 7-day mean of daily maximum value exceeded the temperature criterion for this waterbody.

Okanogan and Wenatchee National Forest unpublished data (submitted by Sonny O'Neal on 17 January 2003) show a 7-day mean of maximum daily temperature of 15.1 degrees C, with a maximum daily temperature of 16.2 degrees C from continuous measurements collected in 2000 at station called 'Ingalls Creek'.

Okanogan and Wenatchee National Forest unpublished data (submitted by Sonny O'Neal on 17 January 2003) show a 7-day mean of maximum daily temperature of 13.4 degrees C, with a maximum daily temperature of 13.8 degrees C from continuous measurements collected in 1999 at station called 'Ingalls Creek'.

Remarks

This listing is within the Henry M. Jackson Wilderness Area with no anthropogenic sources upstream and therefore appears to be a natural condition. This listing is being placed on Category 2 until further information indicates status of the water for temperature.

45	**41455**	**2**	**N**	**JACK CREEK**	**JV43PI**	**0**	**24N**	**16E**	**06**	**Dissolved oxygen**	**Water**

Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45JC00.1 shows 1 sample exceeded the criterion in year 2002.

45	**41791**	**2**	**N**	**JONES SHOTEWELL DITCH**	**UNK000**	**0**	**23N**	**19E**	**24**	**Temperature**	**Water**

Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45JD00.1 shows 2 samples exceeded the criterion in year 2002.

45	**41130**	**2**	**N**	**LITTLE CHUMSTICK CREEK**	**FA38NK**	**0**	**26N**	**18E**	**30**	**Temperature**	**Water**

Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45LC00.1 shows 4 samples exceeded the criterion in year 2003.

45	**41458**	**2**	**N**	**LITTLE WENATCHEE RIVER**	**DS66LF**	**1.842**	**27N**	**16E**	**15**	**Dissolved oxygen**	**Water**

Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45LR01.2 shows 1 sample exceeded the criterion in year 2002.

45	**39371**	**2**	**N**	**LITTLE WENATCHEE RIVER**	**DS66LF**	**30.197**	**28N**	**13E**	**12**	**Temperature**	**Water**

Okanogan and Wenatchee National Forest unpublished data (submitted by Sonny O'Neal on 17 January 2003) show a 7-day mean of maximum daily temperature of 16.4 degrees C, with a maximum daily temperature of 17 degrees C from continuous measurements collected in 2001 at station called 'Little Wenatchee 9'.

Okanogan and Wenatchee National Forest unpublished data (submitted by Sonny O'Neal on 17 January 2003) show a 7-day mean of maximum daily temperature of 14.9 degrees C, with a maximum daily temperature of 15.2 degrees C from continuous measurements collected in 2000 at station called 'Little Wenatchee 9'.

Okanogan and Wenatchee National Forest unpublished data (submitted by Sonny O'Neal on 17 January 2003) show a 7-day mean of maximum daily temperature of 12.1 degrees C, with a maximum daily temperature of 13.1 degrees C from continuous measurements collected in 1999 at station called 'Little Wenatchee 9'.

Remarks

This listing is within the Henry M. Jackson Wilderness Area with no anthropogenic sources upstream and therefore appears to be a natural condition. This listing is being placed on Category 2 until further information indicates status of the water for temperature.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
45	**40767**	**2**	**N**	**LITTLE WENATCHEE RIVER**	**DS66LF**	**28.332**	**28N**	**13E**	**14**	**Temperature**	**Water**
				Scholz, 1999, shows a 7-day mean of maximum daily temperature of 18.1 degrees C, with a maximum daily temperature of 20 degrees C from continuous measurements collected in 1998 at Little Wenatchee River below Cady.						This listing is within the Henry M. Jackson Wilderness Area with no anthropogenic sources upstream and therefore appears to be a natural condition. This listing is being placed on Category 2 until further information indicates status of the water for temperature. WRIA changed from 99 to 45. 12/03/04 -kk	
45	**41911**	**2**	**N**	**LOUP LOUP CREEK**	**RC42RM**	**0**	**32N**	**25E**	**09**	**4,4'-DDE**	**Water**
				Serdar, D., (2003), station LOUPLOUPCR shows 1 sample in 2001 exceeds the National Toxics Rule criterion.							
45	**41915**	**2**	**N**	**LOUP LOUP CREEK**	**RC42RM**	**0**	**32N**	**25E**	**09**	**4,4'-DDT**	**Water**
				Serdar, D., (2003), station LOUPLOUPCR shows 1 sample in 2001 exceeds the National Toxics Rule criterion.							
45	**41907**	**2**	**N**	**LOUP LOUP CREEK**	**RC42RM**	**0**	**32N**	**25E**	**09**	**DDT**	**Water**
				Serdar, D., (2003), station LOUPLOUPCR shows 1 sample in 2001 exceed the chronic criterion.							
45	**41407**	**2**	**N**	**MISSION CREEK**	**DQ04NW**	**0.16**	**23N**	**19E**	**05**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45MC00.1 shows 1 sample exceeded the criterion in year 2002. Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45E070 shows that no samples exceeded the criterion in years, 2002 and 2003. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 45E070 (MISSION CREEK NEAR CASHMERE) shows 0 excursions beyond the criterion out of 18 samples collected between 1993 - 2001.							
45	**41409**	**2**	**N**	**MISSION CREEK**	**DQ04NW**	**0.45**	**23N**	**19E**	**04**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45MC00.6 shows 1 sample exceeded the criterion in year 2003. Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45MC00.4 shows that no samples exceeded the criterion in year 2003. Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45MC00.9 shows 4 samples exceeded the criterion in year 2003.							
45	**41413**	**2**	**N**	**MISSION CREEK**	**DQ04NW**	**2.558**	**23N**	**19E**	**08**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45MC02.3 shows 2 samples exceeded the criterion in year 2003. Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45MC01.7 shows that no samples exceeded the criterion in year 2003.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
45	**41565**	**2**	**N**	**MISSION CREEK**	**DQ04NW 7.656 23N 19E 29**	**Fecal Coliform**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45MC05.1 shows that 1 of 5 samples (20%) collected in 2003 exceed the percentile criterion.			
45	**34802**	**2**	**N**	**MISSION CREEK**	**DQ04NW 11.248 22N 19E 06**	**pH**	**Water**
				Serdar and Era-Miller (2002) show 2 excursions beyond the criterion out of 5 measurements collected in 2000. Ecology unpublished data, (Ecology EIM study WENRTMDL), station 11MC shows that 0 of 6 samples exceed the criterion.			
45	**41258**	**2**	**N**	**MISSION CREEK**	**DQ04NW 2.558 23N 19E 08**	**pH**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45MC01.7 shows that 2 of 4 samples exceed the criterion. Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45MC02.3 shows that 2 of 5 samples exceed the criterion.			
45	**41260**	**2**	**N**	**MISSION CREEK**	**DQ04NW 3.683 23N 19E 17**	**pH**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45MC03.0 shows that 2 of 8 samples exceed the criterion.			
45	**41263**	**2**	**N**	**MISSION CREEK**	**DQ04NW 7.656 23N 19E 29**	**pH**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45MC05.1 shows that 1 of 6 samples exceeds the criterion.			
45	**41264**	**2**	**N**	**MISSION CREEK**	**DQ04NW 10.355 23N 19E 31**	**pH**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45MC07.2 shows that 1 of 11 samples exceeds the criterion.			
45	**34803**	**2**	**N**	**MISSION CREEK**	**DQ04NW 0.45 23N 19E 04**	**Temperature**	**Water**
				Ecology EIM study WENRTMDL, station 45MC00.6 shows 2 samples exceeded the criterion in year 2003. Ecology EIM study WENRTMDL, station 45MC00.9 shows 2 samples exceeded the criterion in year 2003. Serdar and Era-Miller (2002) show no excursions beyond the criterion out of 5 measurements collected in 2000.		Changed from Category 1 to Category 2 on 01/19/05 due to consolidation with Listing IDs 41137 (Cat 2)and 41138 (Cat 2). -kk	
45	**41140**	**2**	**N**	**MISSION CREEK**	**DQ04NW 3.683 23N 19E 17**	**Temperature**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45MC03.0 shows 3 samples exceeded the criterion in year 2003.			
45	**41848**	**2**	**N**	**NO NAME CREEK**	**UNK000 0 00U 000U 00**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45NN00.1 shows 1 sample exceeded the criterion in year 2003.		Name changed from UNNAMED CREEK (AT MOUTH) to NO NAME CREEK on 02/03/05. TRS = 23N-19E-05. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
45	**41849**	**2**	**N**	**NO NAME CREEK**	**UNK000 0 00U 000U 00**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45NN00.2 shows 1 sample exceeded the criterion in year 2003.		Name changed from UNNAMED CREEK (AT MILL RD) to NO NAME CREEK on 02/03/05. TRS = 23N-19E-05. -kk	
45	**41850**	**2**	**N**	**NO NAME CREEK**	**UNK000 0 00U 000U 00**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45NN00.3 shows 1 sample exceeded the criterion in year 2003.		Name changed from UNNAMED CREEK (BLW DUCK POND) to NO NAME CREEK on 02/03/05. TRS = 23N-19E-05. -kk	
45	**41855**	**2**	**N**	**NO NAME CREEK**	**UNK000 0 00U 000U 00**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45NN01.3 shows 1 sample exceeded the criterion in year 2003.		Name changed from UNNAMED CREEK (AT STINES HILL RD) to NO NAME CREEK on 02/03/05. TRS = 24N-19E-31. - kk	
45	**41931**	**2**	**N**	**NO NAME CREEK**	**UNK000 0 00U 000U 00**	**Fecal Coliform**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45NN00.4 shows that 1 of 3 samples (33.3%) collected in 2003 exceed the percentile criterion.		Name changed from UNNAMED CREEK (ABV DUCK POND) to NO NAME CREEK on 5/13/05 -kk	
45	**41818**	**2**	**N**	**NO NAME CREEK**	**UNK000 0 00U 000U 00**	**pH**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45NN01.1 shows that 1 of 3 samples exceeds the criterion.		Name changed from UNNAMED CREEK (AT WESCOTT DR) to NO NAME CREEK on 5/13/05 -kk	
45	**41792**	**2**	**N**	**NO NAME CREEK**	**UNK000 0 00U 000U 00**	**Temperature**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45NN00.1 shows 1 samples exceeded the criterion in year 2003.		Name changed from UNNAMED CREEK (AT MOUTH) to NO NAME CREEK on 02/03/05. -kk	
45	**41793**	**2**	**N**	**NO NAME CREEK**	**UNK000 0 00U 000U 00**	**Temperature**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45NN00.2 shows 2 samples exceeded the criterion in year 2003.		Name changed from UNNAMED CREEK (AT MILL RD) to NO NAME CREEK on 02/03/05. -kk	
45	**41794**	**2**	**N**	**NO NAME CREEK**	**UNK000 0 00U 000U 00**	**Temperature**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45NN00.5 shows 2 samples exceeded the criterion in year 2003.		Name changed from UNNAMED CREEK (AT SUNSET HWY) to NO NAME CREEK on 02/03/05. TRS = 23N-19E-05. -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
45	**41795**	**2**	**N**	**NO NAME CREEK** Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45NN01.1 shows 1 samples exceeded the criterion in year 2003.	**UNK000**	**0**	**00U**	**000U**	**00**	**Temperature**	Name changed from UNNAMED CREEK (AT WESCOTT DR) to NO NAME CREEK on 5/13/05. -kk	**Water**
45	**41796**	**2**	**N**	**NO NAME CREEK** Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45NN01.3 shows 1 samples exceeded the criterion in year 2003.	**UNK000**	**0**	**00U**	**000U**	**00**	**Temperature**	Name changed from UNNAMED CREEK (AT STINES HILL RD) to NO NAME CREEK on 02/03/05. TRS = 24N-19E-31. - kk	**Water**
45	**40774**	**2**	**N**	**PANTHER CREEK** Scholz, 1999, shows a 7-day mean of maximum daily temperature of 16.9 degrees C, with a maximum daily temperature of 18.3 degrees C from continuous measurements collected in 1998 at Panther Creek.	**UV23DZ**	**0.101**	**28N**	**15E**	**11**	**Temperature**	This listing is within the Henry M. Jackson Wilderness Area with no anthropogenic sources upstream and therefore appears to be a natural condition. This listing is being placed on Category 2 until further information indicates status of the water for temperature. WRIA changed from 99 to 45. 12/03/04 -kk	**Water**
45	**41858**	**2**	**N**	**PESHASTIN IRR RET** Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45PRM00.1 shows 1 sample exceeded the criterion in year 2003.	**UNK000**	**0**	**23N**	**19E**	**04**	**Dissolved oxygen**		**Water**
45	**41820**	**2**	**N**	**PESHASTIN IRR RET** Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45PR00.1A shows that 1 of 3 samples exceeds the criterion.	**UNK000**	**0**	**23N**	**19E**	**04**	**pH**		**Water**
45	**41797**	**2**	**N**	**PESHASTIN IRR RET** Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45PRM00.1 shows 3 samples exceeded the criterion in year 2003.	**UNK000**	**0**	**23N**	**19E**	**04**	**Temperature**		**Water**
45	**41859**	**2**	**N**	**PIONEER IRR RET** Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45PS00.1 shows 1 sample exceeded the criterion in year 2003.	**UNK000**	**0**	**23N**	**19E**	**05**	**Dissolved oxygen**		**Water**
45	**41798**	**2**	**N**	**PIONEER IRR RET** Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45PS00.1 shows 1 samples exceeded the criterion in year 2003.	**UNK000**	**0**	**23N**	**19E**	**05**	**Temperature**		**Water**
45	**40800**	**2**	**N**	**RAINY CREEK** Scholz, 1999, shows a 7-day mean of maximum daily temperature of 15.9 degrees C, with a maximum daily temperature of 16.8 degrees C from continuous measurements collected in 1998 at Rainy Creek.	**XO62OU**	**0**	**27N**	**15E**	**10**	**Temperature**	WRIA changed from 99 to 45. 12/03/04 -kk	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
45	**41462**	**2**	**N**	**SAND CREEK**	**VM52YQ**	**0**	**22N**	**19E**	**06**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45SN00.1 shows 2 samples exceeded the criterion in year 2003.							
45	**41323**	**2**	**N**	**SAND CREEK**	**VM52YQ**	**0**	**22N**	**19E**	**06**	**pH**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45SN00.1 shows that 2 of 5 samples exceed the criterion.							
45	**41461**	**2**	**N**	**SNOW CREEK**	**NO22BB**	**0**	**24N**	**17E**	**27**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45SC00.1 shows 1 sample exceeded the criterion in year 2002.							
45	**41322**	**2**	**N**	**SNOW CREEK**	**NO22BB**	**0**	**24N**	**17E**	**27**	**pH**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45SC00.1 shows that 1 of 13 samples exceeds the criterion.							
45	**41142**	**2**	**N**	**SNOW CREEK**	**NO22BB**	**0**	**24N**	**17E**	**27**	**Temperature**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45SC00.1 shows 1 samples exceeded the criterion in year 2002.							
45	**41831**	**2**	**N**	**TONASKET CREEK**	**QE80IG**	**0**	**40N**	**27E**	**27**	**pH**	**Water**
				Serdar, D., (2003), station OKANOTMDL09 shows that 2 of 2 samples exceed the criterion.							
45	**41830**	**2**	**N**	**TUNK CREEK**	**IZ62QO**	**0.017**	**35N**	**27E**	**05**	**pH**	**Water**
				Serdar, D., (2003), station OKANOTMDL06 shows that 1 of 2 samples exceeds the criterion.							
45	**41874**	**2**	**N**	**VAN CREEK**	**VF45OQ**	**0**	**25N**	**18E**	**24**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45VC00.1 shows 5 samples exceeded the criterion in year 2003.							
45	**41875**	**2**	**N**	**VAN CREEK**	**VF45OQ**	**0.051**	**25N**	**18E**	**13**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45VC00.5 shows 1 sample exceeded the criterion in year 2003.							
45	**41829**	**2**	**N**	**WANACUT CREEK**	**WF95UM**	**0**	**34N**	**27E**	**20**	**pH**	**Water**
				Serdar, D., (2003), station OKANOTMDL04 shows that 1 of 2 samples exceeds the criterion.							
45	**41966**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**22.4**	**24N**	**18E**	**35**	**Ammonia-N**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR14.1 shows a total of 1 sample in year 2002 exceeded the chronic criterion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
45	**41967**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**23.891**	**24N**	**18E**	**26**	**Ammonia-N**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR15.6 shows a total of 1 sample in year 2003 exceeded the chronic criterion.							
45	**41968**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**27.815**	**24N**	**18E**	**22**	**Ammonia-N**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR17.2 shows a total of 1 sample in year 2002 exceeded the chronic criterion.							
45	**41464**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**48.937**	**25N**	**17E**	**33**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR30.7 shows 2 samples exceeded the criterion in year 2002.							
45	**41465**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**66.726**	**26N**	**17E**	**25**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR41.8 shows 2 samples exceeded the criterion in year 2002.							
45	**41466**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**73.32**	**26N**	**17E**	**12**	**Dissolved oxygen**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR46.2 shows 1 sample exceeded the criterion in year 2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
45	**16833**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**0.6**	**23N**	**20E**	**28**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 45A070 meets tested standards for fecal coliform. Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45A070 shows that 1 of 4 samples (25%) collected in 2002 exceed the percentile criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 45A070 (Wenatchee R. at Wenatchee) shows a geometric mean of 11 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 2001. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 45A070 (Wenatchee R. at Wenatchee) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 13 samples collected during 2000. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 45A070 (Wenatchee R. at Wenatchee) shows a geometric mean of 18 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1999. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 45A070 (Wenatchee R. at Wenatchee) shows a geometric mean of 5 does not exceed the criterion and that 5% of the samples does not exceed the percentile criterion from 20 samples collected during 1998. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 45A070 (Wenatchee R. at Wenatchee) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1997. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 45A070 (Wenatchee R. at Wenatchee) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 1996. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 45A070 (Wenatchee R. at Wenatchee) shows a geometric mean of 8 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1995. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 45A070 (Wenatchee R. at Wenatchee) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected during 1994. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 45A070 (Wenatchee R. at Wenatchee) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1993.					Changed from Category 1 to Category 2 after consolidation with Listing ID 41672 on 12/16/04. -kk	
45	**10704**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**56.298**	**25N**	**17E**	**09**	**pH**	**Water**
				Ecology EIM study WENRTMDL, station 45A110 shows that 0 of 6 samples exceed the criterion. Hallock (2004), Dept. of Ecology ambient station 45A110 shows that 1 of 30 samples exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 45A110 (WENATCHEE RIVER NEAR LEAVENWORTH) shows 2 excursions beyond the criterion out of 56 samples collected between 1993 - 2001.						
45	**41268**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**4.303**	**23N**	**20E**	**19**	**pH**	**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR02.8 shows that 1 of 6 samples exceeds the criterion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
45	**41270**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**17.27**	**24N**	**19E**	**32**	**pH**		**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR10.8 shows that 2 of 6 samples exceed the criterion.								
45	**41271**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**22.4**	**24N**	**18E**	**35**	**pH**		**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR14.1 shows that 2 of 14 samples exceed the criterion.								
45	**41273**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**27.815**	**24N**	**18E**	**22**	**pH**		**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR17.2 shows that 2 of 6 samples exceed the criterion.								
45	**41274**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**33.781**	**24N**	**18E**	**08**	**pH**		**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR21.0 shows that 1 of 14 samples exceeds the criterion.								
45	**41110**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**4.303**	**23N**	**20E**	**19**	**Temperature**		**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR02.8 shows 2 samples exceeded the criterion in year 2002.								
45	**41112**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**17.27**	**24N**	**19E**	**32**	**Temperature**		**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR10.8 shows 1 samples exceeded the criterion in year 2002.								
45	**41143**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**48.937**	**25N**	**17E**	**33**	**Temperature**		**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR30.7 shows 1 samples exceeded the criterion in year 2002.								
45	**41144**	**2**	**N**	**WENATCHEE RIVER**	**HM20EV**	**66.726**	**26N**	**17E**	**25**	**Temperature**		**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WR41.8 shows 1 samples exceeded the criterion in year 2002.								
45	**41324**	**2**	**N**	**WHITE RIVER**	**IQ00NP**	**11.657**	**27N**	**16E**	**10**	**pH**		**Water**
				Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45WH01.9 shows that 1 of 5 samples exceeds the criterion.								
45	**40811**	**2**	**N**	**WHITE RIVER**	**IQ00NP**	**8.167**	**27N**	**16E**	**14**	**Temperature**		**Water**
				Scholz, 1999, shows a 7-day mean of maximum daily temperature of 15.7 degrees C, with a maximum daily temperature of 16.2 degrees C from continuous measurements collected in 1998 at White River near mouth.							WRIA changed from 99 to 45. 12/03/04 -kk	
45	**40812**	**2**	**N**	**WHITE RIVER**	**IQ00NP**	**33.106**	**28N**	**15E**	**02**	**Temperature**		**Water**
				Scholz, 1999, shows a 7-day mean of maximum daily temperature of 15.8 degrees C, with a maximum daily temperature of 16.8 degrees C from continuous measurements collected in 1998 at White River above Panther Creek.							WRIA changed from 99 to 45. 12/03/04 -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
45	**41913**	**2**	**N**	**WHITESTONE CREEK** Serdar, D., (2003), station NINEMILECR shows 1 sample in 2001 exceeds the National Toxics Rule criterion.	**UI80IP**	**0.125**	**38N**	**27E**	**22**	**4,4'-DDE**		**Water**
45	**41832**	**2**	**N**	**WHITESTONE CREEK** Serdar, D., (2003), station WHITESTONECR shows that 1 of 1 samples exceeds the criterion.	**UI80IP**	**0.125**	**38N**	**27E**	**22**	**pH**		**Water**
45	**41429**	**2**	**N**	**YAKSUM CREEK** Ecology unpublished data, (Ecology EIM study WENRTMDL), station 7MC shows 1 sample exceeded the criterion in year 2003.	**XL42OT**	**0**	**23N**	**19E**	**08**	**Dissolved oxygen**		**Water**
45	**41703**	**2**	**N**	**YAKSUM CREEK** Ecology unpublished data, (Ecology EIM study WENRTMDL), station 45YC02.5 shows that 1 of 3 samples (33.3%) collected in 2003 exceed the percentile criterion.	**XL42OT**	**0.872**	**23N**	**19E**	**16**	**Fecal Coliform**		**Water**
45	**36400**	**2**	**N**	**YAKSUM CREEK** Serdar and Era-Miller (2002) show 1 excursion beyond the EPA (1986) recommended criterion on 17 July 2000.	**XL42OT**	**0.157**	**23N**	**19E**	**09**	**Guthion(azinphos-methyl)**		**Water**
45	**34801**	**2**	**N**	**YAKSUM CREEK** Serdar and Era-Miller (2002) show 1 excursion beyond the criterion out of 5 measurements collected in 2000.	**XL42OT**	**0.157**	**23N**	**19E**	**09**	**pH**		**Water**
45	**41116**	**2**	**N**	**YAKSUM CREEK** Ecology unpublished data, (Ecology EIM study WENRTMDL), station 7MC shows 2 samples exceeded the criterion in year 2003.	**XL42OT**	**0**	**23N**	**19E**	**08**	**Temperature**		**Water**
46	**39345**	**2**	**N**	**ENTIAT RIVER** Okanogan and Wenatchee National Forest unpublished data (submitted by Sonny O'Neal on 17 January 2003) show excursions beyond the criterion from measurements collected in 2001 and 2002. at station 'Entiat River abv FS Bdy' (River Mile 26).	**RX71CE**	**34.827**	**27N**	**19E**	**10**	**Temperature**		**Water**
47	**22946**	**2**	**N**	**ANTILON LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 14 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.	**835IEG**	**29N**	**21E**	**36**		**Total Phosphorus**		**Water**
47	**10715**	**2**	**N**	**CHELAN RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 47A070 (Chelan R @ Chelan) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001	**JI23XG**	**5.98**	**27N**	**22E**	**13**	**pH**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
47	**11283**	**2**	**N**	**CHELAN RIVER**	**JI23XG**	**5.98**	**27N**	**22E**	**13**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 47A070 (Chelan R @ Chelan) shows 3 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 94/07/13, 94/08/10, 94/09/14.						
47	**15182**	**2**	**N**	**CHELAN RIVER**	**JI23XG**	**4.476**	**27N**	**23E**	**18**	**Temperature**	**Water**
				Anchor Environmental, 2000. show the 7-day mean of maximum daily values was exceeded throughout July and August 2002.							
47	**11287**	**2**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**798.896**	**27N**	**23E**	**29**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 47B070 (Columbia R @ Chelan Station) shows 1 excursions beyond the criterion out of 9 samples collected between 1993 - 2001 measured on these dates: 93/08/10,							The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.
47	**22947**	**2**	**N**	**DRY (GRASS) LAKE**	**285NQG**	**21N**	**06E**	**06**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 48 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion. King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus exceeded the water quality standards nutrient criterion in 2002.							
47	**8430**	**2**	**Y**	**FIRST CREEK**	**CH30BE**	**0.719**	**27N**	**21E**	**04**	**Dissolved oxygen**	**Water**
				Patmont, et al. 1989. , 2 excursions beyond the criterion, at the mouth, between 12/86 and 11/87.							This waterbody segment was listed on the 1998 303(d) list based on two exceedances in two years, which is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
47	**8431**	**2**	**Y**	**MITCHELL CREEK**	**QF17YZ**	**0**	**29N**	**21E**	**34**	**pH**	**Water**
				Patmont, et al. 1989. , 2 excursions beyond the criterion out of 13 samples (15%) , at the mouth, on 7/28/87 and 6/16/87.							An assessment of data indicates 2 exceedances out of 13 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
47	22949	2	N	**ROSES (ALKALI) LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 73 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.	370XQC	28N	21E	26		Total Phosphorus	Water	
47	36424	2	N	**WAPATO LAKE** Johnson, 1997. show 1 estimated excursion beyond the criterion in a composite of 8 Rainbow trout fillets collected in 1996.	195IMJ	20N	03E	29		Dieldrin	Tissue	
47	22950	2	N	**WAPATO LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 28 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.	195IMJ	20N	03E	29		Total Phosphorus	Water	Changed from Category 4A to Category 2 on 7/19/05. This Wapato Lake is NOT the Wapato lake in Pierce County that has an approved TMDL. -kk Wapato Lake Total Phosphorus TMDL approved 8-Apr-93.
48	17017	2	N	**ALDER CREEK** Raforth et al. 2000. show 1 excursion beyond the chronic criterion in 2 samples collected in 1997.	JG58JQ	8.057	33N	21E	24	Cadmium	Water	
48	17030	2	N	**ALDER CREEK** Raforth et al. 2000. show 1 excursion beyond the chronic criterion in 2 measurements collected in 1997.	JG58JQ	9.827	33N	21E	25	pH	Water	
48	17040	2	N	**ALDER CREEK** Raforth et al. 2000. show 1 excursion beyond the chronic criterion in 2 samples collected in 1997.	JG58JQ	8.057	33N	21E	24	Zinc	Water	
48	8969	2	N	**ANDREWS CREEK** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12447390 on 12/2/71.	PU33PU	4.577	38N	22E	06	4,4'-DDE	Water	
48	8432	2	N	**ANDREWS CREEK** 1 excursion beyond the criterion at USGS station 12447390 (near Mazama) on7/31/91.	PU33PU	4.577	38N	22E	06	Dissolved oxygen	Water	
48	39347	2	N	**LOST RIVER** Okanogan and Wenatchee National Forest unpublished data (submitted by Sonny O'Neal on 17 January 2003) show excursions beyond the criterion from measurements collected in 2000 at station 'Lost River near mouth within NF Bdy' .	ZV64EZ	0	36N	19E	05	Temperature	Water	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
48	**11290**	**2**	**N**	**METHOW RIVER**	**EO28MQ**	**7.226**	**30N**	**23E**	**83**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 48A070 shows that 2 of 29 samples exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 48A070 (METHOW RIVER NEAR PATEROS) shows 6 excursions beyond the criterion out of 58 samples collected between 1993 - 2001.						Section number is 28. -kk	
48	**11294**	**2**	**N**	**METHOW RIVER**	**EO28MQ**	**63.518**	**33N**	**22E**	**20**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 48A140 shows that 1 of 30 samples exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 48A140 (METHOW RIVER AT TWISP) shows 1 excursions beyond the criterion out of 48 samples collected between 1993 - 2001.							
48	**8433**	**2**	**N**	**METHOW RIVER**	**YX20MG**	**0.252**	**30N**	**23E**	**21**	**Temperature**	**Water**
				Willms and Kendra, 1990. , 1 excursion at RM 5.0 on 8/29/89.							
48	**8434**	**2**	**Y**	**METHOW RIVER**	**JS73QX**	**0**	**34N**	**21E**	**03**	**Temperature**	**Water**
				Washington Dept. of Fish and Wildlife data show (submitted by Hal Michael on 14 September 1995) numerous excursions beyond the criterion at the inflow to the Winthrop National Fish Hatchery.						Information submitted is insufficient to support a Category 5 listing. No raw data appear in the reference.	
48	**8435**	**2**	**Y**	**TWISP RIVER**	**GC59OC**	**0**	**33N**	**22E**	**08**	**Temperature**	**Water**
				Willms and Kendra, 1990. , 2 excursions beyond the criterion near the mouth on 8/29/89 and 8/30/89.						The two single excursions from 1989 are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
48	**39350**	**2**	**N**	**TWISP RIVER**	**GC59OC**	**25.245**	**33N**	**20E**	**18**	**Temperature**	**Water**
				Okanogan and Wenatchee National Forest unpublished data (submitted by Sonny O'Neal on 17 January 2003) show excursions beyond the criterion from measurements collected in 1999 at station 'Twisp River at War Creek CG' .							
49	**41909**	**2**	**N**	**ANTOINE CREEK**	**NN36KM**	**0**	**38N**	**27E**	**27**	**4,4'-DDD**	**Water**
				Serdar, D., (2003), station AntoineCr shows 1 sample in 2001 exceeds the National Toxics Rule criterion.							
49	**41827**	**2**	**N**	**ANTOINE CREEK**	**NN36KM**	**0**	**38N**	**27E**	**27**	**pH**	**Water**
				Serdar, D., (2003), station AntoineCr shows that 2 of 2 samples exceed the criterion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
49	**41280**	**2**	**N**	**BONAPARTE CREEK**	**KO36CO**	**0**	**37N**	**27E**	**16**	**pH**	**Water**
				Serdar, D., (2003), station BONAPARTECR shows that 1 of 1 samples exceeds the criterion.							
49	**22960**	**2**	**N**	**BROWN LAKE**	**140IAX**	**00U**	**XXU**	**00**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							
49	**41286**	**2**	**N**	**CHILIWIST CREEK**	**MC62LK**	**0.237**	**32N**	**25E**	**18**	**pH**	**Water**
				Serdar, D., (2003), station OKANOTMDL02 shows that 1 of 2 samples exceeds the criterion.							
49	**22961**	**2**	**N**	**CHOPAKA LAKE**	**893OBP**	**39N**	**25E**	**04**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 15 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.							
49	**22962**	**2**	**N**	**CONCONULLY (SALMON) LAKE**	**703TRP**	**35N**	**25E**	**06**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 18 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.							
49	**22963**	**2**	**N**	**CONCONULLY RESERVOIR**	**951RJL**	**35N**	**25E**	**18**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 17 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.							
49	**41625**	**2**	**N**	**ELGIN CREEK**	**KR66GR**	**0**	**33N**	**26E**	**03**	**4,4'-DDD**	**Water**
				Serdar, D., (2003), station ELGINCR shows 1 sample in 2001 exceed the National Toxics Rule criterion.						WRIA changed from 3 to 49 on 10/03/05. -kk	
49	**41281**	**2**	**N**	**ELGIN CREEK**	**KR66GR**	**0**	**33N**	**26E**	**03**	**pH**	**Water**
				Serdar, D., (2003), station ELGINCR shows that 1 of 2 samples exceeds the criterion.						WRIA changed from 3 to 49 on 10/03/05. -kk	
49	**22967**	**2**	**N**	**FANCHERS DAM LAKE**	**022FCX**	**38N**	**28E**	**02**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
49	**22971**	**2**	**N**	**HORSESHOE LAKE**	**323GIS**	**36N**	**01W**	**33**		**Total Phosphorus**		**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 45 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 30 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.								
49	**41288**	**2**	**N**	**JOHNSON CREEK**	**DZ84OF**	**0**	**35N**	**26E**	**25**	**pH**		**Water**
				Serdar, D., (2003), station OKANOTMDL05 shows that 2 of 2 samples exceed the criterion.								
49	**23072**	**2**	**N**	**LEMANASKY LAKE**	**210MJQ**	**37N**	**25E**	**13**		**Total Phosphorus**		**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 26 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.								
49	**41626**	**2**	**N**	**MOSQUITO CREEK**	**QH83DF**	**0**	**39N**	**27E**	**34**	**4,4'-DDD**		**Water**
				Serdar, D., (2003), station MOSQCR shows 1 sample in 2001 exceed the National Toxics Rule criterion.								
49	**41632**	**2**	**N**	**MOSQUITO CREEK**	**QH83DF**	**0**	**39N**	**27E**	**34**	**4,4'-DDT**		**Water**
				Serdar, D., (2003), station MOSQCR shows 1 sample in 2001 exceeds the National Toxics Rule criterion.								
49	**41282**	**2**	**N**	**MOSQUITO CREEK**	**QH83DF**	**0**	**39N**	**27E**	**34**	**pH**		**Water**
				Serdar, D., (2003), station MOSQCR shows that 1 of 1 samples exceeds the criterion.								
49	**23077**	**2**	**N**	**MUSKRAT LAKE**	**718JZU**	**39N**	**29E**	**15**		**Total Phosphorus**		**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 52 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.								
49	**41627**	**2**	**N**	**NINEMILE CREEK**	**IP09QF**	**0.365**	**40N**	**27E**	**15**	**4,4'-DDD**		**Water**
				Serdar, D., (2003), station NINEMILECR shows 1 sample in 2001 exceed the National Toxics Rule criterion.								
49	**41633**	**2**	**N**	**NINEMILE CREEK**	**IP09QF**	**0.365**	**40N**	**27E**	**15**	**4,4'-DDT**		**Water**
				Serdar, D., (2003), station NINEMILECR shows 1 sample in 2001 exceeds the National Toxics Rule criterion.								
49	**41326**	**2**	**N**	**NINEMILE CREEK**	**IP09QF**	**0.365**	**40N**	**27E**	**15**	**pH**		**Water**
				Serdar, D., (2003), station NINEMILECR shows that 2 of 2 samples exceed the criterion.								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
49	**8996**	**2**	**N**	**OKANOGAN RIVER** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543022 (below Tonasket) on 5/6/71.	**YN58LL**	**91.196**	**37N**	**27E**	**16**	**4,4'-DDD**		**Water**
49	**8995**	**2**	**N**	**OKANOGAN RIVER** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543022 (below Tonasket) on 5/6/71.	**YN58LL**	**91.196**	**37N**	**27E**	**16**	**4,4'-DDE**		**Water**
49	**8999**	**2**	**N**	**OKANOGAN RIVER** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543022 (below Tonasket) on 5/6/71.	**YN58LL**	**91.196**	**37N**	**27E**	**16**	**Aldrin**		**Water**
49	**15307**	**2**	**N**	**OKANOGAN RIVER** Johnson (1997) station OKANOGAN (OKANAGON RIVER AT MALOTT) shows 1 excursions beyond the criterion out of 1 samples collected between 08/95 - 04/96.	**YN58LL**	**26.96**	**32N**	**25E**	**09**	**Arsenic**		**Water**
49	**8994**	**2**	**N**	**OKANOGAN RIVER** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543022 (below Tonasket) on 5/6/71.	**YN58LL**	**91.196**	**37N**	**27E**	**16**	**DDT**		**Water**
49	**9000**	**2**	**N**	**OKANOGAN RIVER** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543022 (below Tonasket) on 5/6/71.	**YN58LL**	**91.196**	**37N**	**27E**	**16**	**Dieldrin**		**Water**
49	**11316**	**2**	**N**	**OKANOGAN RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49A070 (OKANOGAN RIVER AT MALOTT) shows 2 excursions beyond the criterion out of 58 samples collected between 1993 - 2001 measured on these dates: 94/08/10, 97/08/12,	**YN58LL**	**26.96**	**32N**	**25E**	**09**	**Dissolved oxygen**		**Water**
49	**41435**	**2**	**N**	**OKANOGAN RIVER** Fischnaller, S., (2003), station Okanog02 shows 1 sample exceeded the criterion in year 2002.	**YN58LL**	**64.327**	**35N**	**26E**	**25**	**Dissolved oxygen**		**Water**
49	**6724**	**2**	**Y**	**OKANOGAN RIVER** Carey, 1990. ,criteria were exceeded above the Okanogan WTP on both 10/18/88 and 10/19/88.	**YN58LL**	**40.07**	**33N**	**26E**	**17**	**Fecal Coliform**	Changed from Category 5 to Category 2 09/14/04 based results of Listing IDs 16840 and 16841. The 1988 sampling report that caused the initial Category 5 listing cited the POTW at Okanogan as the probable source of the fecal bacteria. Since then improvements have been made to the POTW to significantly reduce fecal pollution. This is evidenced by Listing ID 16840. -kk	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
49	**6725**	**2**	**Y**	**OKANOGAN RIVER**	**YN58LL**	**39.01**	**33N**	**26E**	**20**	**Fecal Coliform**	**Water**
				Carey, 1990. ,criteria were exceeded below the Okanogan WTP on both 10/18/88 and 10/19/88.						Changed from Category 5 to Category 2 09/14/04 based results of Listing IDs 16840 and 16841. The 1988 sampling report that caused the initial Category 5 listing cited the POTW at Okanogan as the probable source of the fecal bacteria. Since then improvements have been made to the POTW to significantly reduce fecal pollution. This is evidenced by Listing ID 16840. -kk	
49	**8997**	**2**	**N**	**OKANOGAN RIVER**	**YN58LL**	**91.196**	**37N**	**27E**	**16**	**Heptachlor**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543022 (below Tonasket) on 5/6/71.							
49	**8998**	**2**	**N**	**OKANOGAN RIVER**	**YN58LL**	**91.196**	**37N**	**27E**	**16**	**Heptachlor epoxide**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543022 (below Tonasket) on 5/6/71.							
49	**11318**	**2**	**N**	**OKANOGAN RIVER**	**YN58LL**	**41.363**	**33N**	**26E**	**16**	**pH**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49A090 (Okanogan R @ Okanogan) shows 1 excursions beyond the criterion out of 6 samples collected between 1993 - 2001							
49	**11321**	**2**	**N**	**OKANOGAN RIVER**	**YN58LL**	**91.196**	**37N**	**27E**	**16**	**pH**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49A180 (Okanogan R @ Tonaskat) shows 1 excursions beyond the criterion out of 6 samples collected between 1993 - 2001							
49	**41285**	**2**	**N**	**OKANOGAN RIVER**	**YN58LL**	**121.741**	**40N**	**27E**	**34**	**pH**	**Water**
				Fischnaller, S., (2003), station Okanog03 shows that 1 of 1 samples exceeds the criterion.							
49	**11319**	**2**	**Y**	**OKANOGAN RIVER**	**YN58LL**	**41.363**	**33N**	**26E**	**16**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49A090 (Okanogan R @ Okanogan) shows 2 excursions beyond the criterion out of 5 samples collected between 1993 - 2001 measured on these dates: 96/07/15, 96/08/13,						Data from Ecology ambient monitoring from 1993 - 2001 indicates that temperature exceedences are not enough to consider the water impaired. The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. This water is placed in Category 2 until further study and monitoring indicates whether the water is impaired.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
49	**11322**	**2**	**Y**	**OKANOGAN RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49A180 (Okanogan R @ Tonasket) shows 3 excursions beyond the criterion out of 5 samples collected between 1993 - 2001 measured on these dates: 96/07/15, 96/08/13, 96/09/10,	**YN58LL**	**91.196**	**37N**	**27E**	**16**	**Temperature**	Data from Ecology ambient monitoring from 1993 - 2001 indicates that temperature exceedences are not enough to consider the water impaired. The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. This water is placed in Category 2 until further study and monitoring indicates whether the water is impaired.	**Water**
49	**41121**	**2**	**N**	**OKANOGAN RIVER** Fischnaller, S., (2003), station Okanog03 shows 1 samples exceeded the criterion in year 2002.	**YN58LL**	**121.741**	**40N**	**27E**	**34**	**Temperature**		**Water**
49	**15922**	**2**	**N**	**OKANOGAN RIVER** Hallock, 2002. shows 7 excursions beyond the criterion out of 11 samples collected between 1992 and 2001 derived by the difference between the upstream station 49A190 (Okanogan R @ Oroville) and the downstream station 49A090 (Okanogan R @ Okanogan).	**YN58LL**	**41.363**	**33N**	**26E**	**16**	**Turbidity**	Peterschmidt (ECY/CRO 2003) reviewed data and information submitted by Hallock (2002) and believes the reference site to determine turbidity was inappropriate. This data needs further investigation to determine whether the segment is impaired for turbidity.	**Water**
49	**15923**	**2**	**N**	**OKANOGAN RIVER** Hallock, 2002. shows 6 excursions beyond the criterion out of 12 samples collected between 1992 and 2001 derived by the difference between the upstream station 49A190 (Okanogan R @ Oroville) and the downstream station 49A180 (Okanogan R @ Tonaskat).	**YN58LL**	**91.196**	**37N**	**27E**	**16**	**Turbidity**	Peterschmidt (ECY/CRO 2003) reviewed data and information submitted by Hallock (2002) and believes the reference site to determine turbidity was inappropriate. This data needs further investigation to determine whether the segment is impaired for turbidity.	**Water**
49	**8973**	**2**	**N**	**OSOYOOS LAKE** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543020 (at Ososyoos Lake outlet) on 5/6/71.	**060VKD**	**48119J4F2**	**48.955**	**119.425**		**4,4'-DDD**		**Water**
49	**8972**	**2**	**N**	**OSOYOOS LAKE** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543020 (at Ososyoos Lake outlet) on 5/6/71.	**060VKD**	**48119J4F2**	**48.955**	**119.425**		**4,4'-DDE**		**Water**
49	**8977**	**2**	**N**	**OSOYOOS LAKE** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543020 (at Ososyoos Lake outlet) on 5/6/71.	**060VKD**	**48119J4F2**	**48.955**	**119.425**		**Aldrin**		**Water**
49	**8974**	**2**	**N**	**OSOYOOS LAKE** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543020 (at Ososyoos Lake outlet) on 5/6/71.	**060VKD**	**48119J4F2**	**48.955**	**119.425**		**DDT**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter / Remarks	Medium
49	**8978**	**2**	**N**	**OSOYOOS LAKE**	**060VKD**	**48119J4F2**	**48.955**	**119.425**		**Dieldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543020 (at Ososyoos Lake outlet) on 5/6/71.							
49	**8975**	**2**	**N**	**OSOYOOS LAKE**	**060VKD**	**48119J4F2**	**48.955**	**119.425**		**Heptachlor**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543020 (at Ososyoos Lake outlet) on 5/6/71.							
49	**8976**	**2**	**N**	**OSOYOOS LAKE**	**060VKD**	**48119J4F2**	**48.955**	**119.425**		**Heptachlor epoxide**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543020 (at Ososyoos Lake outlet) on 5/6/71.							
49	**8985**	**2**	**N**	**SIMILKAMEEN RIVER**	**ND93YI**	**0**	**39N**	**27E**	**09**	**4,4'-DDD**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543020 (at Ososyoos Lake outlet) on 5/6/71.							
49	**8984**	**2**	**N**	**SIMILKAMEEN RIVER**	**ND93YI**	**0**	**39N**	**27E**	**09**	**4,4'-DDE**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543020 (at Ososyoos Lake outlet) on 5/6/71.							
49	**8982**	**2**	**N**	**SIMILKAMEEN RIVER**	**ND93YI**	**7.908**	**40N**	**27E**	**28**	**Aldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543023 (at Oroville) on 5/6/71.							
49	**8983**	**2**	**N**	**SIMILKAMEEN RIVER**	**ND93YI**	**0**	**39N**	**27E**	**09**	**DDT**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543020 (at Ososyoos Lake outlet) on 5/6/71.							
49	**8988**	**2**	**N**	**SIMILKAMEEN RIVER**	**ND93YI**	**0**	**39N**	**27E**	**09**	**Dieldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543020 (at Ososyoos Lake outlet) on 5/6/71.							
49	**15266**	**2**	**N**	**SIMILKAMEEN RIVER**	**ND93YI**	**27.968**	**40N**	**25E**	**13**	**Dissolved oxygen**	**Water**
				Johnson and Plotnikoff (2000) station NIGHTHWK (SIMILKAMEEN @ NIGHTHAWK (R.M.17.5)) shows 1 excursions beyond the criterion measured on these dates: 98/08/24, Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B090 (Similkameen R @ Nighthawk) shows 0 excursions beyond the criterion out of 5 samples collected between 1993 - 2001 Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B090 (Similkameen R @ Nighthawk) shows 0 excursions beyond the criterion out of 5 samples collected between 1993 - 2001 Johnson and Plotnikoff (2000) station NIGHTHWK (SIMILKAMEEN @ NIGHTHAWK (R.M.17.5)) shows 1 excursions beyond the criterion measured on these dates: 98/08/24,							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
49	**15267**	**2**	**N**	**SIMILKAMEEN RIVER**	**ND93YI**	**33.725**	**40N**	**25E**	**26**	**Dissolved oxygen**	**Water**
				Johnson and Plotnikoff (2000) station PALMERAB (ABOVE PALMER LAKE OUTLET) shows 1 excursions beyond the criterion measured on these dates: 98/08/24,							
49	**16845**	**2**	**N**	**SIMILKAMEEN RIVER**	**ND93YI**	**7.908**	**40N**	**27E**	**28**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 49B070 shows 1 of 8 samples (12.5%) in year 2002 exceeded the percentile criterion.						Changed from Category 1 to Category 2 due to consolidation with Listing ID 42659 on 01/10/05. -kk	
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B070 (SIMILKAMEEN RIVER AT OROVILLE) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 7 samples collected during 2001.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B070 (SIMILKAMEEN RIVER AT OROVILLE) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 8 samples collected during 2000.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B070 (SIMILKAMEEN RIVER AT OROVILLE) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1999.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B070 (SIMILKAMEEN RIVER AT OROVILLE) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 8 samples collected during 1998.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B070 (SIMILKAMEEN RIVER AT OROVILLE) shows a geometric mean of 11 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 8 samples collected during 1997.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B070 (SIMILKAMEEN RIVER AT OROVILLE) shows a geometric mean of 9 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 4 samples collected during 1996.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B070 (SIMILKAMEEN RIVER AT OROVILLE) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1995.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B070 (SIMILKAMEEN RIVER AT OROVILLE) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1994.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B070 (SIMILKAMEEN RIVER AT OROVILLE) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 8 samples collected during 1993.							
49	**8986**	**2**	**N**	**SIMILKAMEEN RIVER**	**ND93YI**	**0**	**39N**	**27E**	**09**	**Heptachlor**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543020 (at Ososyoos Lake outlet) on 5/6/71.							
49	**8987**	**2**	**N**	**SIMILKAMEEN RIVER**	**ND93YI**	**0**	**39N**	**27E**	**09**	**Heptachlor epoxide**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543020 (at Ososyoos Lake outlet) on 5/6/71.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
49	**9692**	**2**	**N**	**SIMILKAMEEN RIVER**	**ND93YI**	**13.604**	**40N**	**26E**	**13**	**pH**	**Water**

Johnson, 2002. Station ELLEMEHAM (ELLEMEHAM DRAW) shows 1 excursions beyond the criterion out of 1 samples collected between 05/00 - 11/01.

Johnson, 2002. Station ENLOE (SIMILKAMEEN RIVER ABOVE ENLOE DAM) shows 0 excursions beyond the criterion out of 2 samples collected between 05/00 - 11/01.

Unpublished data from Dept. of Ecology EIM database for the Project AJOH0016 (Similkameen River Arsenic) station ELLEMEHAM (ELLEMEHAM DRAW) shows 1 excursions beyond the criterion out of 1 samples collected between 05/00 - 11/01.

Unpublished data from Dept. of Ecology EIM database for the Project AJOH0016 (Similkameen River Arsenic) station ENLOE (SIMILKAMEEN RIVER ABOVE ENLOE DAM) shows 0 excursions beyond the criterion out of 2 samples collected between 05/00 - 11/01.

49	**11303**	**2**	**N**	**SIMILKAMEEN RIVER**	**ND93YI**	**7.908**	**40N**	**27E**	**28**	**pH**	**Water**

Hallock (2004), Dept. of Ecology ambient station 49B070 shows that 1 of 30 samples exceed the criterion.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B070 (SIMILKAMEEN RIVER AT OROVILLE) shows 3 excursions beyond the criterion out of 57 samples collected between 1993 - 2001.

Johnson, 2002. Station 49B070 (SIMILKAMEEN RIVER AT OROVILLE) shows 0 excursions beyond the criterion out of 2 samples collected between 05/00 - 11/01.

Johnson (1997) station OROVILLE (AT (R.M. 5.0) ABOVE OROVILLE) shows 0 excursions beyond the criterion out of 2 samples collected between 08/95 - 04/96.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
49	**11312**	**2**	**N**	**SIMILKAMEEN RIVER**	**ND93YI**	**27.968**	**40N**	**25E**	**13**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B090 (Similkameen R @ Nighthawk) shows 2 excursions beyond the criterion out of 4 samples collected between 1993 - 2001 measured on these dates: 96/07/15, 96/08/13, Johnson, 2002. Station NIGHTHWK (SIMILKAMEEN @ NIGHTHAWK (R.M.17.5)) shows 0 excursions beyond the criterion out of 3 samples collected between 05/00 - 11/01. Johnson (1997) station NIGHTHWK (SIMILKAMEEN @ NIGHTHAWK (R.M.17.5)) shows 0 excursions beyond the criterion out of 1 samples collected between 08/95 - 04/96. Unpublished data from Dept. of Ecology EIM database for the Project AJOH0016 (Similkameen River Arsenic) station NIGHTHWK (SIMILKAMEEN @ NIGHTHAWK (R.M.17.5)) shows 0 excursions beyond the criterion out of 3 samples collected between 05/00 - 11/01. Johnson and Plotnikoff (2000) station NIGHTHWK (SIMILKAMEEN @ NIGHTHAWK (R.M.17.5)) shows 0 excursions beyond the criterion out of 1 samples collected between 08/98 - 09/99. Johnson, 2002. Station NIGHTHWK (SIMILKAMEEN @ NIGHTHAWK (R.M.17.5)) shows 0 excursions beyond the criterion out of 3 samples collected between 05/00 - 11/01. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 49B090 (Similkameen R @ Nighthawk) shows 2 excursions beyond the criterion out of 4 samples collected between 1993 - 2001 measured on these dates: 96/07/15, 96/08/13, Johnson (1997) station NIGHTHWK (SIMILKAMEEN @ NIGHTHAWK (R.M.17.5)) shows 0 excursions beyond the criterion out of 1 samples collected between 08/95 - 04/96. Unpublished data from Dept. of Ecology EIM database for the Project AJOH0016 (Similkameen River Arsenic) station NIGHTHWK (SIMILKAMEEN @ NIGHTHAWK (R.M.17.5)) shows 0 excursions beyond the criterion out of 3 samples collected between 05/00 - 11/01. Johnson and Plotnikoff (2000) station NIGHTHWK (SIMILKAMEEN @ NIGHTHAWK (R.M.17.5)) shows 0 excursions beyond the criterion out of 1 samples collected between 08/98 - 09/99.							
49	**41289**	**2**	**N**	**SIWASH CREEK**	**LV56HP**	**0**	**37N**	**27E**	**16**	**pH**	**Water**
				Serdar, D., (2003), station OKANOTMDL08 shows that 1 of 1 samples exceeds the criterion.							
52	**8169**	**2**	**Y**	**GRANITE CREEK**	**ZZ22OX**	**0**	**36N**	**33E**	**07**	**Dissolved oxygen**	**Water**
				Data collected by the Ferry County Conservation District (submitted by Patti Stone of the Confederated Colville Tribes on 10/31/97) show 3 excursions beyond the upper criterion out of 24 samples (12%) at Granite Creek at Hwy 21 S between 1991 and 1993.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
52	**8167**	**2**	**N**	**GRANITE CREEK**	**ZZ22OX**	**0**	**36N**	**33E**	**07**	**Fecal Coliform**	**Water**
				Data collected by the Ferry County Conservation District (submitted by Patti Stone of the Confederated Colville Tribes on 10/31/97) show 1 excursion beyond the upper criterion at Granite Creek above the feedlot on 7/13/93.						Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 2 based on the 1998 assessment.	
52	**8170**	**2**	**N**	**GRANITE CREEK**	**ZZ22OX**	**0**	**36N**	**33E**	**07**	**pH**	**Water**
				Data collected by the Ferry County Conservation District (submitted by Patti Stone of the Confederated Colville Tribes on 10/31/97) show 1 excursion beyond the upper criterion at Granite Creek at Hwy 21 S on 9/15/93.							
52	**8168**	**2**	**N**	**GRANITE CREEK**	**ZZ22OX**	**0**	**36N**	**33E**	**07**	**Temperature**	**Water**
				Data collected by the Ferry County Conservation District (submitted by Patti Stone of the Confederated Colville Tribes on 10/31/97) show 1 excursion beyond the upper criterion at Granite Creek at Hwy 21 S on 6/24/92.							
52	**8171**	**2**	**N**	**NINEMILE CREEK**	**EW77XR**	**0.091**	**35N**	**33E**	**18**	**Temperature**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21910204 on 8/20/79. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Nine Mile' show no excursions beyond the criterion from measurements collected in 1992 and 1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Nine Mile' show no excursions beyond the criterion from measurements collected in 1992 and 1994.							
52	**8172**	**2**	**N**	**O'BRIEN CREEK, N.F.**	**QF79IR**	**0**	**36N**	**34E**	**22**	**pH**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21190207 on 1/9/90.							
52	**37877**	**2**	**N**	**O'BRIEN CREEK, S.F.**	**KC65AZ**	**0**	**36N**	**33E**	**26**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Obrien, Site 1' show 1 excursion beyond the criterion from measurements collected in 2001.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
52	**8174**	**2**	**N**	**O'BRIEN CREEK, S.F.**	**KC65AZ**	**0**	**36N**	**33E**	**26**	**Fecal Coliform**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21190204 in 6/91. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Obrien, Site 1' show a geometric mean of 1 cfu/100mL from 1 samples collected in 1999. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Obrien, Site 1' show a geometric mean of 29 cfu/100mL from 3 samples collected in 2001. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Obrien, Site 1' show a geometric mean of 3 cfu/100mL from 5 samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Obrien, Site 1' show a geometric mean of 1 cfu/100mL from 1 samples collected in 1999. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Obrien, Site 1' show a geometric mean of 29 cfu/100mL from 3 samples collected in 2001. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Obrien, Site 1' show a geometric mean of 3 cfu/100mL from 5 samples collected in 1992.							
52	**8173**	**2**	**Y**	**O'BRIEN CREEK, S.F.**	**KC65AZ**	**0**	**36N**	**33E**	**26**	**pH**	**Water**
				2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21190204 on 1/9/90 and 7/16/92. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Obrien, Site 1' show 1 excursions beyond the criterion from 21 measurements collected in 1992-2002.						An assessment of collective data indicates 3 exceedances out of at least 23 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
52	**37879**	**2**	**N**	**O'BRIEN CREEK, S.F.**	**KC65AZ**	**0**	**36N**	**33E**	**26**	**Temperature**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Obrien, Site 1' show 1 excursion beyond the criterion from measurements collected in 2001. Colville National Forest Temperature TMDL Study unpublished data show a 7-day mean of daily maximum values of 15.5 from continuous measurements collected in 2002. Colville National Forest Temperature TMDL Study unpublished data show a 7-day mean of daily maximum values of 15.5 from continuous measurements collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Obrien, Site 1' show 1 excursion beyond the criterion from measurements collected in 2001.							
52	**23087**	**2**	**N**	**SANPOIL LAKE**	**175YNT**	**37N**	**33E**	**32**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 96 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
52	**11343**	**2**	**N**	**SANPOIL RIVER**	**JM31YT**	**75.51**	**34N**	**32E**	**01**	**Dissolved oxygen**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 52A110 (Sanpoil R 13 mi S. Republic) shows 2 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 95/07/12, 95/09/07,							
52	**8175**	**2**	**N**	**SANPOIL RIVER**	**JM31YT**	**97.184**	**36N**	**33E**	**07**	**Fecal Coliform**	**Water**
				Data collected by the Ferry County Conservation District (submitted by Patti Stone of the Confederated Colville Tribes on 10/31/97) show 1 excursion beyond the upper criterion at both McKnights gate and McNichols bridge on 8/14/92.						Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 2 based on the 1998 assessment.	
52	**16848**	**2**	**N**	**SANPOIL RIVER**	**JM31YT**	**99.925**	**36N**	**33E**	**05**	**Fecal Coliform**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 52A190 (Sanpoil R. above Republic) shows a geometric mean of 28 does not exceed the criterion and that 12% of the samples exceeds the percentile criterion from 8 samples collected during 1993, with only 1 sample that exceeds the percentile criterion.							
52	**16849**	**2**	**N**	**SANPOIL RIVER**	**JM31YT**	**17.76**	**30N**	**33E**	**20**	**Fecal Coliform**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 52A070 (Sanpoil R. at Keller) shows a geometric mean of 15 does not exceed the criterion and that 14% of the samples exceeds the percentile criterion from 7 samples collected during 1993, with only 1 sample that exceeds the percentile criterion.							
52	**11347**	**2**	**N**	**SANPOIL RIVER**	**JM31YT**	**99.925**	**36N**	**33E**	**05**	**pH**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 52A190 (Sanpoil R abv Republic) shows 1 excursions beyond the criterion out of 9 samples collected between 1993 - 2001							
52	**8176**	**2**	**N**	**SANPOIL RIVER**	**JM31YT**	**97.184**	**36N**	**33E**	**07**	**Temperature**	**Water**
				Data collected by the Ferry County Conservation District (submitted by Patti Stone of the Confederated Colville Tribes on 10/31/97) show 1 excursion beyond the upper criterion at McNichols bridge on 6/24/92.							
52	**37881**	**2**	**N**	**SANPOIL RIVER, N.F.**	**JH55WC**	**3.545**	**37N**	**33E**	**25**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK San Poil' show excursions beyond the criterion from measurements collected in 1993 and 1994.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
52	8178	2	N	**SANPOIL RIVER, N.F.**	JH55WC	3.545	37N	33E	25	Fecal Coliform	Water

Remarks

1 excursion beyond the upper criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21190201 on 7/23/92 ;

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK San Poil' show a geometric mean of 53 cfu/100mL from 4 samples collected in 1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK San Poil' show a geometric mean of 10 cfu/100mL from 8 samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK San Poil' show a geometric mean of 4 cfu/100mL from 6 samples collected in 1993.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK San Poil Site 2' show a geometric mean of 7 cfu/100mL from 4 samples collected in 1992.
Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK San Poil Site 2' show a geometric mean of 7 cfu/100mL from 4 samples collected in 1992.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK San Poil' show a geometric mean of 53 cfu/100mL from 4 samples collected in 1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK San Poil' show a geometric mean of 10 cfu/100mL from 8 samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK San Poil' show a geometric mean of 4 cfu/100mL from 6 samples collected in 1993.

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
52	8438	2	N	**SCATTER CREEK**	XF28FZ	0	35N	32E	12	Dissolved oxygen	Water

Data collected by the Ferry County Conservation District (submitted by Patti Stone of the Confederated Colville Tribes on 10/31/97) show 1 excursion beyond the upper criterion at Scatter Creek at Hwy 21 S on 8/18/93.

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
52	8439	2	N	**SCATTER CREEK**	XF28FZ	0	35N	32E	12	pH	Water

Data collected by the Ferry County Conservation District (submitted by Patti Stone of the Confederated Colville Tribes on 10/31/97) show 1 excursion beyond the upper criterion at Scatter Creek at Hwy 21 S on 8/18/93.

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
52	8440	2	N	**THIRTEEN MILE CREEK**	FB36NM	0.002	35N	33E	31	Fecal Coliform	Water

1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21190205 in 10/81.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Thirteen Mile' show a geometric mean of 4 cfu/100mL from 5 samples collected in 1992.
Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Thirteen Mile' show a geometric mean of 4 cfu/100mL from 5 samples collected in 1992.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
53	**16850**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**945.566**	**29N**	**30E**	**36**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 53A070 shows 1 of 5 samples (20%) in year 2003 exceeded the percentile criterion.						Changed from Category 1 to Category 2 due to consolidation with Listing ID 42794 on 01/10/05. -kk	
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 53A070 (Columbia R. at Grand Coulee Dam) shows a geometric mean of 1 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 2001.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 53A070 (Columbia R. at Grand Coulee Dam) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 2000.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 53A070 (Columbia R. at Grand Coulee Dam) shows a geometric mean of 1 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 1 samples collected during 1999.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 53A070 (Columbia R. at Grand Coulee Dam) shows a geometric mean of 1 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 1998.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 53A070 (Columbia R. at Grand Coulee Dam) shows a geometric mean of 1 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1997.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 53A070 (Columbia R. at Grand Coulee Dam) shows a geometric mean of 1 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 1 samples collected during 1996.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 53A070 (Columbia R. at Grand Coulee Dam) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1995.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 53A070 (Columbia R. at Grand Coulee Dam) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 1 samples collected during 1994.							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 53A070 (Columbia R. at Grand Coulee Dam) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1993.							
53	**9005**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**945.566**	**29N**	**30E**	**36**	**Mercury**	**Water**
				1 excursion beyond the chronic criterion at USEPA station 05A028 (Below Grand Coulee dam at RM 596.3) on 9/26/86.							
53	**9006**	**2**	**N**	**FRANKLIN D. ROOSEVELT LAKE**	**NN57SG**	**47118J9E7**	**47.945**	**118.975**		**Total PCBs**	**Tissue**
				Johnson, 1991 , Total PCB concentration in whole Largescale sucker samples collected from above Grand Coulee Dam in1990 exceeded the national toxic rule criterion for the individual PCB isomers.						The sample was of whole fish and not edible tissue. The National Toxic Rule criteria apply only to the specific isomers of PCBs. There is not a criterion for Total PCBs.	
54	**15532**	**2**	**N**	**BLUE CREEK**	**FR73DU**	**6.139**	**28N**	**37E**	**13**	**Lead**	**Water**
				U.S.Geological Survey data from NWIS database station 12433542 (Blue Cr abv Midnite Mine Drainage nr Wellpinit, WA) shows 1 excursions beyond the criterion out of 1 samples collected between 01/93 - 10/00.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Remarks	Medium
54	23088	2	N	**HORSESHOE LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 45 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	323GIS 36N 01W 33	Total Phosphorus		Water
54	23089	2	N	**KNIGHT LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 12 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.	337COV 27N 41E 07	Total Phosphorus		Water
54	9008	2	N	**LONG LAKE (RESERVOIR)** 9 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543002 (below Nine Mile Dam) between 1969 and 1971.	QZ45UE 54.625 27N 39E 13	4,4'-DDD	Listed based on very old data (1969-71) that are highly questionable. Water column exceedances in this waterbody highly unlikely for these old pesticides. (Johnson, ECY/EAP, 2003)	Water
54	9007	2	N	**LONG LAKE (RESERVOIR)** 2 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543106, below Long Lake dam, in 1972. 11 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543002 (below Nine Mile Dam) between 1969 and 1971.	QZ45UE 54.625 27N 39E 13	4,4'-DDE	Name changed on 3/2/05 from SPOKANE RIVER to LONG LAKE (RESERVOIR). -kk The EPA data downloaded from STORET were challenged	Water
as							not meeting the quality assurance criteria of the Water Quality Program policy on listing. The listed STORET contact (Ray Peterson) was asked to verify that these criteria were met for the data used as a basis for listing. EPA did not verify that these data meet the quality assurance criteria. Therefore, these data from STORET should not be used as a basis for listing (from 1998 list database).	
54	9012	2	N	**LONG LAKE (RESERVOIR)** 7 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543002 (below Nine Mile Dam)between 1970 and 1971.	QZ45UE 54.625 27N 39E 13	Aldrin	Listed based on very old data (1969-71) that are highly questionable. Water column exceedances in this waterbody highly unlikely for these old pesticides. (Johnson, ECY/EAP, 2003)	Water
54	9014	2	N	**LONG LAKE (RESERVOIR)** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12433000 (at Long Lake) on 5/12/80.	QZ45UE 54.625 27N 39E 13	Chlordane		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
54	**9017**	**2**	**N**	**LONG LAKE (RESERVOIR)**	**QZ45UE**	**54.625**	**27N**	**39E**	**13**	**DDT**	**Water**
				13 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543002 (below Nine Mile Dam) between 1969 and 1971.						The EPA data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. The listed STORET contact (Ray Peterson) was asked to verify that these criteria were met for the data used as a basis for listing. EPA did not verify that these data meet the quality assurance criteria. Therefore, these data from STORET should not be used as a basis for listing (from 1998 list database).	
54	**9013**	**2**	**N**	**LONG LAKE (RESERVOIR)**	**QZ45UE**	**92.366**	**26N**	**42E**	**06**	**Dieldrin**	**Water**
				13 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543002 (below Nine Mile Dam) between 1969 and 1971.						Lower Route Address changed from 54.625 (at Long Lake Dam) to 92.625 (at Nine Mile Dam) on 7/21/05. -kk Listed based on very old data (1969-71) that are highly questionable. Water column exceedances in this waterbody highly unlikely for these old pesticides. (Johnson, ECY/EAP, 2003)	
54	**9030**	**2**	**N**	**LONG LAKE (RESERVOIR)**	**QZ45UE**	**54.625**	**27N**	**39E**	**13**	**Dieldrin**	**Water**
				2 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543106 (below Long Lake Dam) in 1972.						Name changed on 3/2/05 from SPOKANE RIVER to LONG LAKE (RESERVOIR). -kk The EPA data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. The listed STORET contact (Ray Peterson) was asked to verify that these criteria were met for the data used as a basis for listing. EPA did not verify that these data meet the quality assurance criteria. Therefore, these data from STORET should not be used as a basis for listing (from 1998 list database).	
54	**9011**	**2**	**N**	**LONG LAKE (RESERVOIR)**	**QZ45UE**	**54.625**	**27N**	**39E**	**13**	**Endrin**	**Water**
				1 excursion beyond the chronic criterion at USEPA station 543002 (below Nine Mile Dam) on 1/20/71.							
54	**6136**	**2**	**N**	**LONG LAKE (RESERVOIR)**	**QZ45UE**	**0**	**28N**	**35E**	**25**	**Fecal Coliform**	**Water**
				Smith et al. (2000) shows 2 sample above the criterion out of 4 samples.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Remarks	Medium
54	**9009**	**2**	**N**	**LONG LAKE (RESERVOIR)** 7 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543002 (below Nine Mile Dam) between 1970 and 1971.	**QZ45UE 54.625 27N 39E 13**	**Heptachlor**	Listed based on very old data (1969-71) that are highly questionable. Water column exceedances in this waterbody highly unlikely for these old pesticides. (Johnson, ECY/EAP, 2003)	**Water**
54	**9010**	**2**	**N**	**LONG LAKE (RESERVOIR)** 6 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543002 (below Nine Mile Dam) between 1970 and 1971.	**QZ45UE 54.625 27N 39E 13**	**Heptachlor epoxide**	Listed based on very old data (1969-71) that are highly questionable. Water column exceedances in this waterbody highly unlikely for these old pesticides. (Johnson, ECY/EAP, 2003)	**Water**
54	**15330**	**2**	**N**	**LONG LAKE (RESERVOIR)** Cusimano (2001) station SPK58.1 (Spokane River (SPK58.1)) shows 4 excursions beyond the criterion out of 12 samples collected between 06/00 - 09/00 . Hallock (2001) Dept. of Ecology Ambient Monitoring Station 54A090 (Spokane R @ Ninemile Br) shows 0 excursions beyond the criterion out of 4 samples collected between 1993 - 2001	**QZ45UE 92.366 26N 42E 06**	**Temperature**	Name changed on 3/2/05 from SPOKANE RIVER to LONG LAKE (RESERVOIR). -kk	**Water**
54	**9019**	**2**	**N**	**LONG LAKE (RESERVOIR)** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USGS station 12433000 (at Long Lake) on 2/7/78.	**QZ45UE 54.625 27N 39E 13**	**Total PCBs**		**Water**
54	**9028**	**2**	**N**	**SPOKANE RIVER** 1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543106, below Long Lake dam, on 12/12/72.	**QZ45UE 2.757 28N 36E 20**	**DDT**		**Water**
54	**9026**	**2**	**N**	**SPOKANE RIVER** 1 excursion beyond the criterion at Ecology ambient monitoring station 54A050 (RM 1.7) on 7/10/91.	**QZ45UE 2.757 28N 36E 20**	**Mercury**	A single excursion beyond the criterion does not meet the Water Quality Program Policy for listing.	**Water**
54	**11350**	**2**	**Y**	**SPOKANE RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 54A050 (Spokane R @ Mouth) shows 3 excursions beyond the criterion out of 21 samples collected between 1993 - 2001	**QZ45UE 2.356 28N 36E 19**	**pH**	An assessment of data from 1993-2001 indicates 3 exceedances out of at least 21 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium	Remarks
54	15326	2	N	**SPOKANE RIVER** Cusimano (2001) station SPK62.0 (Spokane River (SPK62.0)) shows 1 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00. Dept. of Ecology unpublished data from the Spokane River TMDL at RM 62.0 shows no excursions beyond the criterion from continuous Hydrolab measurements collected during August 1999.	QZ45UE 99.346 26N 42E 20	pH	Water	
54	11351	2	Y	**SPOKANE RIVER** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 54A050 (Spokane R @ Mouth) shows 5 excursions beyond the criterion out of 21 samples collected between 1993 - 2001 measured on these dates: 93/08/04, 93/09/08, 94/07/07, 94/08/03, 94/09/07,	QZ45UE 2.356 28N 36E 19	Temperature	Water	Data from Ecology ambient monitoring from 1993 - 2001 indicates that temperature exceedences are not enough to consider the water impaired. The daily maximum excursions are for two year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. This water is placed in Category 2 until further study and montioring indicates whether the water is impaired. TRS differs
54	15332	2	N	**SPOKANE RIVER** Cusimano (2001) station SPK66.0 (Spokane River (SPK66.0)) shows 1 excursions beyond the criterion out of 8 samples collected between 06/00 - 09/00 . Hallock (2001) Dept. of Ecology Ambient Monitoring Station 54A120 (SPOKANE RIVER AT RIVERSIDE STATE PARK) shows 0 excursions beyond the criterion out of 60 samples collected between 1993 - 2001	QZ45UE 106.23 25N 42E 04	Temperature	Water	Data from Ecology ambient monitoring from 1993 - 2001 indicates that temperature exceedences are not enough to consider the water impaired. One excursion does not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment.
54	23090	2	N	**WOODS LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 1168 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 10 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	250ZGL 26N 40E 10	Total Phosphorus	Water	
55	23091	2	N	**BEAR (KUESTER) LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 15 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.	565USY 28N 43E 15	Total Phosphorus	Water	
55	23092	2	N	**CHAIN LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 12 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.	763TUV 30N 44E 35	Total Phosphorus	Water	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
55	**9054**	**2**	**N**	**DEADMAN CREEK**	**MY92TJ**	**1.805**	**26N**	**43E**	**03**	**Aluminum**	**Water**
				Hoyle-Dodson, 1994. , 1 excursion beyond the chronic criterion at 4 locations collected on 5/20/93.							
55	**41972**	**2**	**N**	**DEADMAN CREEK**	**MY92TJ**	**21.105**	**27N**	**44E**	**13**	**Ammonia-N**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station DM-1 shows that 1 sample in 2001 exceeded the criterion.							
55	**41974**	**2**	**N**	**DEADMAN CREEK**	**MY92TJ**	**4.576**	**26N**	**43E**	**02**	**Ammonia-N**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station DM-5 shows that 1 sample in 2002 exceeded the criterion.							
55	**41980**	**2**	**N**	**DEADMAN CREEK**	**MY92TJ**	**21.105**	**27N**	**44E**	**13**	**Dissolved oxygen**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station DM-1 shows that 1 sample collected in the year 2002 exceeded the criterion.							
55	**41982**	**2**	**N**	**DEADMAN CREEK**	**MY92TJ**	**4.576**	**26N**	**43E**	**02**	**Dissolved oxygen**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station DM-5 shows that 1 sample collected in the year 2002 exceeded the criterion.							
55	**41983**	**2**	**N**	**DEADMAN CREEK**	**MY92TJ**	**1.805**	**26N**	**43E**	**03**	**Dissolved oxygen**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station DM-6 shows that 1 sample collected in the year 2001 exceeded the criterion.							
55	**42357**	**2**	**N**	**DEADMAN CREEK**	**MY92TJ**	**16.14**	**27N**	**44E**	**27**	**Dissolved oxygen**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station DM-2 shows that 1 sample collected in the year 2001 exceeded the criterion.							
55	**16854**	**2**	**N**	**DEADMAN CREEK**	**MY92TJ**	**0**	**27N**	**43E**	**33**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 55C070 meets tested standards for fecal coliform. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55C065 (Deadman Cr nr Mouth) shows a geometric mean of 48 does not exceed the criterion and that 22% of the samples exceeds the percentile criterion from 9 samples collected during 1994. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55C065 (Deadman Cr nr Mouth) shows a geometric mean of 21 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1993.						Changed from Category 5 to Category 2 on 01/24/05 due to consolidation with Listing ID 42662 (cat 1). -kk	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
55	**11388**	**2**	**Y**	**DEADMAN CREEK**	**MY92TJ**	**0**	**27N**	**43E**	**33**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 55C070 shows that of 6 samples none exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55C065 (Deadman Cr nr Mouth) shows 2 excursions beyond the criterion out of 12 samples collected between 1993 - 2001.						An assessment of data from 1993-2001 indicates 2 exceedances out of at 12 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
55	**11387**	**2**	**Y**	**DEADMAN CREEK**	**MY92TJ**	**0**	**27N**	**43E**	**33**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55C065 (Deadman Cr nr Mouth) shows 1 excursions beyond the criterion out of 12 samples collected between 1993 - 2001 measured on these dates: 94/08/02,						Data from Ecology ambient monitoring from 1993 - 2001 indicates only one exceedance and does not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. This water is placed in Category 2 until further study and monitoring indicates whether the water is impaired.	
55	**42358**	**2**	**N**	**DEADMAN CREEK (TRIB)**	**GV44TO**	**0**	**26N**	**43E**	**02**	**Dissolved oxygen**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station DM-4 shows that 1 sample collected in the year 2002 exceeded the criterion.							
55	**8443**	**2**	**Y**	**DRAGOON CREEK**	**GL94EJ**	**21.37**	**28N**	**42E**	**03**	**Dissolved oxygen**	**Water**
				Joy, 1981, 2 excursions beyond the criterion at RM 15.19, RM 14.98 and RM 14.51 on 11/18/80 and 11/19/80.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
55	**8444**	**2**	**Y**	**DRAGOON CREEK**	**ST18TI**	**1.604**	**30N**	**42E**	**18**	**Dissolved oxygen**	**Water**
				Juul, 1991, 3 excursions beyond the criterion out of 10 samples at the headwaters on 7/28/90, 8/8/90, and 8/28/90.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
55	**8445**	**2**	**Y**	**DRAGOON CREEK** Juul, 1991, 3 excursions beyond the criterion at the headwaters on 7/28/90, 8/8/90, and 8/28/90.	**GL94EJ**	**31.342**	**29N**	**42E**	**08**	**Dissolved oxygen**	The minimum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent dissolved oxygen impairment.	**Water**
55	**8446**	**2**	**N**	**DRAGOON CREEK** Juul, 1991, high fecal coliform values were measured at the headwaters on 2/6/91.	**ST18TI**	**1.604**	**30N**	**42E**	**18**	**Fecal Coliform**	Information submitted is insuffcient to support a Category 5 listing.	**Water**
55	**16856**	**2**	**N**	**DRAGOON CREEK** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55E070 (Dragoon Cr nr Chattaroy) shows a geometric mean of 76 does not exceed the criterion and that 0% of the samples exceeds the percentile criterion from 2 samples collected during 1993.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55E070 (Dragoon Cr nr Chattaroy) shows a geometric mean of 69 does not exceed the criterion and that 13% of the samples exceeds the percentile criterion from 8 samples collected during 1994, with only 1 sample that exceeds the percentile criterion.	**GL94EJ**	**0**	**28N**	**43E**	**33**	**Fecal Coliform**	Changed from Category 5 to Category 2 on 3/10/04. Original basis described 100%, not 0%, of samples exceeding criterion.	**Water**
55	**11370**	**2**	**N**	**DRAGOON CREEK** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55E070 (Dragoon Cr nr Chattaroy) shows 1 excursions beyond the criterion out of 11 samples collected between 1993 - 2001	**GL94EJ**	**0**	**28N**	**43E**	**33**	**pH**		**Water**
55	**11371**	**2**	**N**	**DRAGOON CREEK** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55E070 (Dragoon Cr nr Chattaroy) shows 1 excursions beyond the criterion out of 9 samples collected between 1993 - 2001 measured on these dates: 94/08/02,	**GL94EJ**	**0**	**28N**	**43E**	**33**	**Temperature**		**Water**
55	**6334**	**2**	**N**	**ELOIKA LAKE** Completed Phase I State Clean Lakes Restoration Project in 1989 - Problems Encountered: Blue-green algae, high turbidity (seasonal),aquatic macrophytes, low transparency, low dissolved oxygen, sediment phosphorus recycling. Soltero, et al. 1987. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 28 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Northern Rockies Ecoregion.	**347KYQ**	**29N**	**43E**	**15**		**Total Phosphorus**	Active Phase II State Clean Lakes Restoration Project: control measures implemented based on the Phase I Study - watershed nutrient management (planning), lake level regulation, aquatic macrophyte harvesting, public education.	**Water**
55	**23094**	**2**	**N**	**FAN LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 28 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.	**265CHN**	**30N**	**43E**	**32**		**Total Phosphorus**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
55	**16857**	**2**	**Y**	**LITTLE SPOKANE RIVER**	**JZ70CP**	**33.65**	**28N**	**43E**	**27**	**Fecal Coliform**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55B200 (Little Spokane @ Chattaroy) shows a geometric mean of 14 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1999.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55B200 (Little Spokane @ Chattaroy) shows a geometric mean of 15 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1998.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55B200 (Little Spokane @ Chattaroy) shows a geometric mean of 19 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 1994, with only 1 sample that exceeds the percentile criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55B200 (Little Spokane @ Chattaroy) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1993.;						Ambient monitoring data from 1993 - 1999 indicates that fecal coliform standards are being met. Listing will be placed in waters of concern category until further study and monitoring further verifies the status of the water as clean.	
55	**11373**	**2**	**N**	**LITTLE SPOKANE RIVER**	**JZ70CP**	**1.086**	**26N**	**42E**	**05**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 55B070 shows that of 31 samples none exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55B070 (LITTLE SPOKANE RIVER NEAR MOUTH) shows 1 excursions beyond the criterion out of 54 samples collected between 1993 - 2001. Cusimano (2001) station LSK56.4 (Little Spokane River (LSK56.4)) shows 0 excursions beyond the criterion out of 12 samples collected between 06/00 - 09/00.							
55	**3735**	**2**	**N**	**LITTLE SPOKANE RIVER**	**JZ70CP**	**1.086**	**26N**	**42E**	**05**	**Temperature**	**Water**
				Dept. of Ecology unpublished data from core ambient monitoring station 55B070 (Little Spokane R. near Mouth) shows a 7-day mean of daily maximum values of 17.2 for mid-week 13 July 2001.; Department of Ecology unpublished data from core ambient monitoring station 55B070 shows 9 excursions beyond the criterion out of 98 days in 2001.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55B070 (LITTLE SPOKANE RIVER NEAR MOUTH) shows 0 excursions beyond the criterion out of 54 samples collected between 1993 - 2001 Cusimano (2001) station LSK56.4 (Little Spokane River (LSK56.4)) shows 0 excursions beyond the criterion out of 12 samples collected between 06/00 - 09/00 . Dept. of Ecology unpublished data from the Spokane River TMDL near the mouth shows no excursions beyond the criterion from continuous measurements collected during June-August 2000. Cusimano (2001) station LSK56.4 (Little Spokane River (LSK56.4)) shows 0 excursions beyond the criterion out of 12 samples collected between 06/00 - 09/00 . Dept. of Ecology unpublished data from core ambient monitoring station 55B070 (Little Spokane R. near Mouth) shows a 7-day mean of daily maximum values of 17.2 for mid-week 13 July 2001.; Department of Ecology unpublished data from core ambient monitoring station 55B070 shows 9 excursions beyond the criterion out of 98 days in 2001.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55B070 (LITTLE SPOKANE RIVER NEAR MOUTH) shows 0 excursions beyond the criterion out of 54 samples collected between 1993 - 2001 Dept. of Ecology unpublished data from the Spokane River TMDL near the mouth shows no excursions beyond the criterion from continuous measurements collected during June-August 2000.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
55	**11380**	**2**	**Y**	**LITTLE SPOKANE RIVER**	**JZ70CP**	**19.379**	**27N**	**43E**	**33**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55B100 (Little Spokane R abv Deadman Creek) shows 1 excursions beyond the criterion out of 11 samples collected between 1993 - 2001 measured on these dates: 94/08/02,						Data from Ecology ambient monitoring from 1993 - 2001 indicates that temperature exceedences are not enough to consider the water impaired. Only one exceedance was noted in one year, and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. This water is placed in Category 2 until further study and monitoring indicates whether the water is impaired.	
55	**11384**	**2**	**Y**	**LITTLE SPOKANE RIVER**	**JZ70CP**	**33.65**	**28N**	**43E**	**27**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 55B200 (Little Spokane @ Chattaroy) shows 2 excursions beyond the criterion out of 11 samples collected between 1993 - 2001 measured on these dates: 94/07/06, 94/08/02,						Data from Ecology ambient monitoring from 1993 - 2001 indicates that temperature exceedences are not enough to consider the water impaired. The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. This water is placed in Category 2 until further study and monitoring indicates whether the water is impaired.	
55	**23095**	**2**	**N**	**REFLECTION LAKE**	**956PYX**	**29N**	**44E**	**19**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 32 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.							
55	**23096**	**2**	**N**	**TROUT LAKE**	**744JKJ**	**25N**	**12E**	**31**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 16 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 12 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.							
55	**42355**	**2**	**N**	**UNNAMED CREEK (AT KAISER OUTFALL)**	**UNK000**	**0**	**26N**	**43E**	**03**	**Ammonia-N**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station DM-6B shows that 1 sample in 2001 exceeded the criterion.							
56	**41991**	**2**	**N**	**CALIFORNIA CREEK**	**CK02IW**	**0**	**23N**	**43E**	**03**	**Fecal Coliform**	**Water**
				Spokane Conservation District data (submitted 4/29/2004), station CC-mouth shows 1 of 2 samples (50.0%) exceeded the percentile criterion in 2001.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
56	**9055**	**2**	**N**	**HANGMAN CREEK**	**TD36NP**	**0**	**25N**	**42E**	**14**	**4,4'-DDE**	**Water**
				2 excursions beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543150 (mouth) in 1972.						The EPA data downloaded from STORET were challenged as not meeting the quality assurance criteria of the Water Quality Program policy on listing. The listed STORET contact (Ray Peterson) was asked to verify that these criteria were met for the data used as a basis for listing. EPA did not verify that these data meet the quality assurance criteria. Therefore, these data from STORET should not be used as a basis for listing (from 1998 list database).	
56	**8198**	**2**	**N**	**HANGMAN CREEK**	**TD36NP**	**0**	**25N**	**42E**	**14**	**Dieldrin**	**Water**
				1 excursion beyond National Toxics Rule (40 CFR Part 131) criterion at USEPA station 543150 (mouth) on 10/31/72.							
56	**8448**	**2**	**Y**	**HANGMAN CREEK**	**TD36NP**	**82.249**	**20N**	**45E**	**14**	**Dissolved oxygen**	**Water**
				Carey, 1989, 2 excursions beyond the criterion at RM 53.23 on 8/30/88 and 8/31/88.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
56	**8450**	**2**	**Y**	**HANGMAN CREEK**	**TD36NP**	**84.46**	**20N**	**45E**	**13**	**Dissolved oxygen**	**Water**
				Carey, 1989, 2 excursions beyond the criterion at RM 53.82 on 8/30/88 and 8/31/88.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
56	**11390**	**2**	**N**	**HANGMAN CREEK**	**TD36NP**	**0.573**	**25N**	**42E**	**23**	**Dissolved oxygen**	**Water**
				Hallock (2003), Dept. of Ecology ambient station 56A070 shows a total of 3 samples in year 2003 exceeded the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 56A070 (HANGMAN CREEK AT MOUTH) shows 1 excursions beyond the criterion out of 47 samples collected between 1993 - 2001 measured on this date: 97/08/05. Cusimano (2001) station HNG72.4 (Hangman Creek (HNG72.4)) shows 0 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
56	15536	2	N	**HANGMAN CREEK** U.S.Geological Survey data from NWIS database station 12424000 (Hangman Cr at Spokane) shows 2 excursions beyond the criterion out of 11 samples collected between 01/93 - 10/00.	TD36NP	1.208	25N	42E	24	pH		Water
56	8449	2	Y	**HANGMAN CREEK** Carey, 1989, 2 excursions beyond the criterion at RM 53.23 on 8/30/88 and 8/31/88.	TD36NP	0	25N	42E	14	Temperature	The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. This water is placed in Category 2 until further study and monitoring indicates whether the water is impaired.	Water
56	15537	2	N	**HANGMAN CREEK** U.S.Geological Survey data from NWIS database station 12424000 (Hangman Cr at Spokane) shows 3 excursions beyond the criterion out of 16 samples collected between 01/93 - 10/00.	TD36NP	1.208	25N	42E	24	Temperature		Water
56	15535	2	N	**HANGMAN CREEK** U.S.Geological Survey data from NWIS database station 12424000 (Hangman Cr at Spokane) shows 1 excursions beyond the criterion out of 5 samples collected between 01/93 - 10/00.	TD36NP	1.208	25N	42E	24	Zinc		Water
56	8451	2	N	**LITTLE HANGMAN CREEK** Carey, 1989, 1 excursion beyond the criterion at Little Hangman Creek RM 0.2 on 8/30/88.	DB09ZX	0	20N	45E	24	Dissolved oxygen		Water
56	41988	2	N	**LITTLE HANGMAN CREEK** Spokane Conservation District data (submitted 4/29/2004), station LHC-Tekoa shows that 9 samples collected in the year 1995 exceeded the criterion.	DB09ZX	0.258	20N	45E	13	Dissolved oxygen		Water
56	41989	2	N	**MARSHALL CREEK** Spokane Conservation District data (submitted 4/29/2004), station MC-mouth shows that 1 sample collected in the year 2001 exceeded the criterion.	XY11QM	0	25N	43E	31	Dissolved oxygen		Water
56	41995	2	N	**MARSHALL CREEK** Spokane Conservation District data (submitted 4/29/2004), station MC-Mouth shows 1 of 1 sample exceeded the percentile criterion in 2001.	XY11QM	0	25N	43E	31	Fecal Coliform		Water
56	23099	2	N	**QUEEN LUCAS LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 770 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	749EWE	24N	42E	28		Total Phosphorus		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
57	**23102**	**2**	**N**	**SHELLEY LAKE**	**576CWA**	**25N**	**44E**	**24**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 68 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion.						
57	**8452**	**2**	**Y**	**SPOKANE RIVER**	**QZ45UE**	**131.22**	**25N**	**44E**	**06**	**Dissolved oxygen**	**Water**
				Pelletier, 1994. , 2 excursions beyond the criterion were observed 1 miles downstream of the Inland Empire Paper Co. discharge (RM 81.9) during 8/92.						This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
57	**15344**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**127.146**	**25N**	**43E**	**11**	**Dissolved oxygen**	**Water**
				Cusimano (2001) station SPK79.8 (Spokane River (SPK79.8)) shows 1 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00.						
57	**15348**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**148.769**	**25N**	**45E**	**10**	**Dissolved oxygen**	**Water**
				Cusimano (2001) station SPK93.0 (Spokane River (SPK93.0)) shows 1 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00 .						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
57	**16864**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**154.285**	**25N**	**46E**	**06**	**Fecal Coliform**	**Water**

Hallock (2004), Dept. of Ecology ambient station 57A150 meets tested standards for fecal coliform.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 57A150 (Spokane R. at Stateline Bridge) shows a geometric mean of 8 does not exceed the criterion and that 14% of the samples exceeds the percentile criterion from 7 samples collected during 2001, with only 1 sample that exceeds the percentile criterion.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 57A150 (Spokane R. at Stateline Bridge) shows a geometric mean of 7 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 14 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 57A150 (Spokane R. at Stateline Bridge) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 19 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 57A150 (Spokane R. at Stateline Bridge) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 14 samples collected during 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 57A150 (Spokane R. at Stateline Bridge) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 57A150 (Spokane R. at Stateline Bridge) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1996.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 57A150 (Spokane R. at Stateline Bridge) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected during 1995.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 57A150 (Spokane R. at Stateline Bridge) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 57A150 (Spokane R. at Stateline Bridge) shows a geometric mean of 8 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1993.

57	**11397**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**154.285**	**25N**	**46E**	**06**	**Mercury**	**Water**

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 57A150 (SPOKANE RIVER AT STATELINE BRIDGE) shows 1 excursions beyond the criterion out of 8 samples collected between 1993 - 2001

57	**15356**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**140.848**	**25N**	**44E**	**12**	**pH**	**Water**

Cusimano (2001) station SPK87.8 (Spokane River (SPK87.8)) shows 2 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00.

U.S.Geological Survey data from NWIS database station 12420800 (Spokane R at Sullivan Rd Br. Nr Trentwood WA) shows 0 excursions beyond the criterion out of 10 samples collected between 01/93 - 10/00.

57	**15357**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**145.17**	**25N**	**45E**	**08**	**pH**	**Water**

Cusimano (2001) station SPK90.4 (Spokane River (SPK90.4)) shows 2 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00 .

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
57	**14390**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**142.986**	**25N**	**45E**	**07**	**Temperature**	**Water**
				Golding, 2001. show 1 excursion beyond the criterion from a measurement collected on 13 August 2000. U.S.Geological Survey data from NWIS database station 12420500 (Spokane R at Greenacres) shows 1 excursions beyond the criterion out of 10 samples collected between 01/93 - 10/00.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. The Spokane River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Coeur d'Alene upstream. However, there is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into tribal jurisdiction. Until further study is done, it is not possible to rule out that human factors aren't contributing to the problem. (Pickett, ECY/EAP, 2003) (Parodi, ECY/ERO, 2003)	
57	**15363**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**127.146**	**25N**	**43E**	**11**	**Temperature**	**Water**
				Cusimano (2001) station SPK79.8 (Spokane River (SPK79.8)) shows 1 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00.						The daily maximum excursions are for one single excursion in one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. The Spokane River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. rationale with supporting documentation submitted by Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Coeur d'Alene upstream However, there is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into tribal jurisdiction. Until further study is done, it is not possible to rule out that human factors aren't contributing to the problem. (Pickett, ECY/EAP, 2003) (Parodi, ECY/ERO, 2003)	

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WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
57	**15364**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**134.537**	**25N**	**44E**	**04**	**Temperature**	**Water**
				Cusimano (2001) station SPK84.7 (Spokane River (SPK84.7)) shows 2 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00 . Golding, 2001. show no excursion beyond the criterion from a measurement collected on 13 August 2000.					The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. The Spokane River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Coeur d'Alene upstream. However, there is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into tribal jurisdiction. Until further study is done, it is not possible to rule out that human factors aren't contributing to the problem. (Pickett, ECY/EAP, 2003) (Parodi, ECY/ERO, 2003)	
57	**15365**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**140.848**	**25N**	**44E**	**12**	**Temperature**	**Water**
				Cusimano (2001) station SPK87.8 (Spokane River (SPK87.8)) shows 2 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00 . U.S.Geological Survey data from NWIS database station 12420800 (Spokane R at Sullivan Rd Br. Nr Trentwood WA) shows 1 excursions beyond the criterion out of 10 samples collected between 01/93 - 10/00.					The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. The Spokane River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Coeur d'Alene upstream However, there is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into tribal jurisdiction. Until further study is done, it is not possible to rule out that human factors aren't contributing to the problem. (Pickett, ECY/EAP, 2003) (Parodi, ECY/ERO, 2003)	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
57	**15366**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**145.17**	**25N**	**45E**	**08**	**Temperature**	**Water**
				Cusimano (2001) station SPK90.4 (Spokane River (SPK90.4)) shows 2 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. The Spokane River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Coeur d'Alene upstream. However, there is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into tribal jurisdiction. Until further study is done, it is not possible to rule out that human factors aren't contributing to the problem. (Pickett, ECY/EAP, 2003) (Parodi, ECY/ERO, 2003)	
57	**15367**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**148.769**	**25N**	**45E**	**10**	**Temperature**	**Water**
				Cusimano (2001) station SPK93.0 (Spokane River (SPK93.0)) shows 2 excursions beyond the criterion out of 4 samples collected between 06/00 - 09/00 .						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. The Spokane River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Coeur d'Alene upstream. However, there is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into tribal jurisdiction. Until further study is done, it is not possible to rule out that human factors aren't contributing to the problem. (Pickett, ECY/EAP, 2003) (Parodi, ECY/ERO, 2003)	
57	**14396**	**2**	**N**	**SPOKANE RIVER**	**QZ45UE**	**142.986**	**25N**	**45E**	**07**	**Total PCBs**	**Water**
				Golding, 2001. show 1 excursion beyond the National toxic Rule criterion from a measurement collected on 13 August 2000.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
57	23103	2	N	**TRASK LAKE**	705WCC	30N	46E	30		Total Phosphorus	Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 42 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.							
58	37898	2	N	**BARNABY CREEK**	JI88RM	10.483	35N	36E	33	pH	Water
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Barnaby' show 1 excursions beyond the criterion from 5 measurements collected in 1992.							
58	9061	2	N	**FRANKLIN D. ROOSEVELT LAKE**	NN57SG	48118D1B6	48.315	118.165		Mercury	Tissue
				1 excursion beyond the chronic criterion at USEPA station 05A022 (RM 676.4) on 9/23/86.							
58	9712	2	N	**HUNTER CREEK, N.F.**	YX65XN	0	30N	38E	05	Arsenic	Water
				Johnson (2000) station CLEVEL13 (ABOVE NORTH FORK CONFLUENCE) shows 1 excursions beyond the criterion out of 1 samples collected between 08/99 - 10/99.							
58	9713	2	N	**HUNTER CREEK, N.F.**	BG79CW	1.867	30N	38E	05	Arsenic	Water
				Johnson (2000) station CLEVEL14 (NORTH FORK ABOVE CLEVELAND) shows 1 excursions beyond the criterion out of 1 samples collected between 08/99 - 10/99.							
58	9714	2	N	**HUNTER CREEK, N.F.**	BG79CW	0	30N	38E	06	Arsenic	Water
				Johnson (2000) station CLEVEL16 (NORTH FORK ABOVE SOUTH FORK CONFLUENCE) shows 1 excursions beyond the criterion out of 1 samples collected between 08/99 - 10/99.							
58	15378	2	N	**HUNTER CREEK, N.F.**	YX65XN	1.365	30N	38E	09	Arsenic	Water
				Johnson (2000) station CLEVELD6 (BELOW PORTALS & MILL SITES) shows 1 excursions beyond the criterion out of 1 samples collected between 08/99 - 10/99.							
				Johnson (2000) station CLEVELD9 (BETWEEN TAILINGS PILES) shows 1 excursions beyond the criterion out of 1 samples collected between 08/99 - 10/99.							
58	40856	2	N	**HUNTER CREEK, N.F.**	YX65XN	1.365	30N	38E	09	Dissolved oxygen	Water
				Johnson (2000) station CLEVELD9 (BETWEEN TAILINGS PILES) shows 1 excursions beyond the criterion out of 1 samples collected between 08/99 - 10/99.							
58	12550	2	N	**HUNTER CREEK, N.F.**	YX65XN	1.22	30N	38E	04	Lead	Water
				Johnson (2000) station CLEVEL11 (BELOW LOWER TAILINGS PILE) shows 1 excursions beyond the criterion out of 2 samples collected between 08/99 - 10/99.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
58	**12554**	**2**	**N**	**HUNTER CREEK, N.F.**	**YX65XN**	**1.22**	**30N**	**38E**	**04**	**Mercury**		**Water**
				Johnson (2000) station CLEVEL11 (BELOW LOWER TAILINGS PILE) shows 1 excursions beyond the criterion out of 2 samples collected between 08/99 - 10/99.								
58	**15380**	**2**	**N**	**HUNTER CREEK, N.F.**	**YX65XN**	**1.365**	**30N**	**38E**	**09**	**Mercury**		**Water**
				Johnson (2000) station CLEVELD9 (BETWEEN TAILINGS PILES) shows 0 excursions beyond the criterion out of 1 samples collected between 08/99 - 10/99. Johnson (2000) station CLEVELD6 (BELOW PORTALS & MILL SITES) shows 1 excursions beyond the criterion out of 1 samples collected between 08/99 - 10/99.								
58	**15390**	**2**	**N**	**HUNTER CREEK, N.F.**	**YX65XN**	**1.22**	**30N**	**38E**	**04**	**Zinc**		**Water**
				Johnson (2000) station CLEVEL11 (BELOW LOWER TAILINGS PILE) shows 1 excursions beyond the criterion out of 2 samples collected between 08/99 - 10/99.								
58	**23106**	**2**	**N**	**NEWBELL LAKE**	**395SHC**		**30N**	**37E**	**32**	**Total Phosphorus**		**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 96 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.								
58	**8454**	**2**	**N**	**SHERMAN CREEK**	**ZX69DW**	**8.685**	**36N**	**36E**	**36**	**Dissolved oxygen**		**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21150202 on 10/16/78. . Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Sherman Site 2' show no excursions beyond the criterion from measurements collected in 1993-1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Sherman Site 2' show no excursions beyond the criterion from measurements collected in 1993-1994.								
58	**37913**	**2**	**N**	**SHERMAN CREEK**	**ZX69DW**	**2.607**	**36N**	**37E**	**28**	**Dissolved oxygen**		**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Sherman Site 1' show 1 excursions beyond the criterion from measurements collected in 1994.								
58	**37915**	**2**	**N**	**SHERMAN CREEK**	**ZX69DW**	**22.006**	**36N**	**35E**	**23**	**Dissolved oxygen**		**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Sherman Site 3' show 2 excursions beyond the criterion from measurements collected in 2002.								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
58	**8455**	**2**	**N**	**SHERMAN CREEK**	**ZX69DW**	**8.685**	**36N**	**36E**	**36**	**Fecal Coliform**	**Water**	
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21150202 in 7/92. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Sherman Site 2' show a geometric mean of 11 cfu/100mL from 5 samples collected in 1993. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Sherman Site 2' show a geometric mean of 3 cfu/100mL from 2 samples collected in 1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Sherman Site 2' show a geometric mean of 7 cfu/100mL from 9 samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Sherman Site 2' show a geometric mean of 11 cfu/100mL from 5 samples collected in 1993. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Sherman Site 2' show a geometric mean of 3 cfu/100mL from 2 samples collected in 1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Sherman Site 2' show a geometric mean of 7 cfu/100mL from 9 samples collected in 1992.							
58	**37926**	**2**	**N**	**SHERMAN CREEK, S.F.**	**ZZ61AF**	**0.97**	**36N**	**36E**	**32**	**pH**	**Water**	
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Sherman (G.S.)' show 3 excursions beyond the criterion from 66 measurements collected in 1992-2001.								
58	**15672**	**2**	**N**	**TURK CREEK**	**XJ58EV**	**13.654**	**29N**	**37E**	**01**	**pH**	**Water**	
				Raforth, et al. 2002. show 1 excursion beyond the criterion from the downstream station samples collected in 2000 and 2001.								WASWIS changed from PY04AC 0.000 to XJ58EV 13.654 This is the "Alder Creek" that goes to Turk Mine. Some GIS layers list this as Alder Creek. -kk
59	**8459**	**2**	**N**	**ADDY CREEK**	**JH00AA**	**0**	**33N**	**39E**	**13**	**Fecal Coliform**	**Water**	
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21120205 in 8/92. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Addy Creek' show a geometric mean of 300 cfu/100mL from 1 samples collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Addy Creek' show a geometric mean of 8 cfu/100mL from 5 samples collected in 1992.								
59	**8458**	**2**	**N**	**ADDY CREEK**	**JH00AA**	**0**	**33N**	**39E**	**13**	**pH**	**Water**	
				2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21120205 on 5/17/90 and 4/1/91. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Addy Creek' show no excursions beyond the criterion from 5 measurements collected in 1992.								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
59	**8460**	**2**	**N**	**BAYLEY CREEK** 2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21120209 on 5/7/92 and 5/27/92.	**QW88TZ**	**0**	**33N**	**41E**	**06**	**pH**		**Water**
59	**8461**	**2**	**N**	**BAYLEY CREEK** 1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21120209 on 5/7/92.	**QW88TZ**	**0**	**33N**	**41E**	**06**	**Temperature**		**Water**
59	**37937**	**2**	**N**	**BAYLEY CREEK** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Bayley' show 1 excursion beyond the criterion from measurements collected in 1992.	**AA81BQ**	**0**	**33N**	**40E**	**13**	**Temperature**		**Water**
59	**8462**	**2**	**Y**	**BLUE CREEK** Juul, 1991, 3 excursions beyond the criterion out of 10 samples at the mouth on 7/28/90, 8/8/90, and 8/28/90.	**UR95XB**	**0**	**33N**	**40E**	**31**	**Dissolved oxygen**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
59	**8466**	**2**	**N**	**CHEWELAH CREEK, N.F.** 1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21120204 on 7/13/94. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Chewelah' show 1 excursion beyond the criterion from measurements collected in 1994.	**CN30MG**	**11.249**	**33N**	**41E**	**18**	**Temperature**		**Water**
59	**8469**	**2**	**Y**	**CHEWELAH CREEK, S.F.** 2 excursions beyond the criterion sampled by Colville National Forest at station 21120203 (STUDY #1) on 8/16/93 and 8/30/93.; 2 excursions beyond the criterion sampled by Colville National Forest at station 21120203 (STUDY #2) on 8/3/93 and 8/23/93.; Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S Fk Chewelah Site 1' show excursions beyond the criterion from measurements collected in 1993 and 2001.	**FU01VK**	**13.092**	**33N**	**41E**	**23**	**Dissolved oxygen**	This waterbody segment was listed on the 1998 303(d) list based on exceedancess in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
59	**37952**	**2**	**N**	**CHEWELAH CREEK, S.F.**	**FU01VK**	**14.918**	**33N**	**41E**	**24**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Chewelah Site 2' show 3 excursions beyond the criterion from measurements collected in 1993.							
59	**8470**	**2**	**Y**	**CHEWELAH CREEK, S.F.**	**FU01VK**	**13.092**	**33N**	**41E**	**23**	**pH**	**Water**
				2 excursions beyond the criterion out of 38 samples sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21120203 on 9/15/92. and 6/30/93. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Chewelah Site 1' show 2 excursions beyond the criterion from 95 measurements collected in 1992-2002.						An assessment of collective data indicates four exceedances out of 133 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
59	**8471**	**2**	**Y**	**CHEWELAH CREEK, S.F.**	**FU01VK**	**13.092**	**33N**	**41E**	**23**	**Temperature**	**Water**
				Colville National Forest Temperature TMDL Study unpublished data show a 7-day mean of daily maximum values of 13.1 from continuous measurements collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Chewelah Site 1' show 1 excursions beyond the criterion from measurements collected in 1994. 7 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21120203 (STUDY #3) between 6/30/93 and 7/6/93.						Recent continuous monitoring data from 2002 shows that temperature standards are being met. Previous data was not sufficient to determine impairment. Listing will be placed in waters of concern category until further monitoring verifies the status of the water.	
59	**8472**	**2**	**N**	**CLUGSTON CREEK**	**XS61EL**	**9.04**	**37N**	**39E**	**22**	**pH**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21130211 on 4/29/75.							
59	**15676**	**2**	**N**	**CLUGSTON CREEK, N.F.**	**XR34FI**	**0.763**	**37N**	**39E**	**15**	**Zinc**	**Water**
				Raforth, et al. 2002. show 1 excursions beyond the chronic criterion from a samples collected in May 2001.							
59	**9066**	**2**	**Y**	**COLVILLE RIVER**	**DH01PX**	**23.438**	**35N**	**39E**	**17**	**Chlorine**	**Water**
				Hoyle-Dodson, 1995. , modeled concentration at edge of Colville City WTP exceeded acute standards.						Listing was not based on exceedance of actual data. Chewelah WWTP has changed from chlorine based treatment to UV.	
59	**8474**	**2**	**N**	**COLVILLE RIVER**	**DH01PX**	**12.712**	**36N**	**38E**	**27**	**pH**	**Water**
				Stevens County Conservation District, 1993. 1 excursion beyond the criterion out of 10 samples at RM 9 on 1/15/92.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium / Remarks
59	**8485**	**2**	**Y**	**COLVILLE RIVER** Juul, 1991, 1 excursion beyond the criterion out of 10 samples at RM 5.0 on 8/28/90.	**DH01PX**	**6.85**	**36N**	**38E**	**30**	**pH**	**Water** This 1998 303(d) listings was in error; decision matrix for the above basis and location indicate that this was not appropriate on the 303(d) list based on only one exceedance.
59	**8488**	**2**	**Y**	**COLVILLE RIVER** Pelletier, 1997. , 2 excursions beyond the criterion out of 8 samples (25%) at RM 13.8 during 8/94 to 11/94.;	**DH01PX**	**22.274**	**35N**	**39E**	**08**	**pH**	**Water** An assessment of data indicates 2 exceedances out of 8 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
59	**8489**	**2**	**Y**	**COLVILLE RIVER** Pelletier, 1997. , 2 excursions beyond the criterion out of 8 samples (25%) at RM 35.8 during 8/94 to 11/94.;	**DH01PX**	**61.495**	**32N**	**40E**	**09**	**pH**	**Water** An assessment of data indicates 2 exceedances out of 8 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
59	**8490**	**2**	**Y**	**COLVILLE RIVER** Pelletier, 1997. , 2 excursions beyond the criterion out of 8 samples (25%) at RM 37.8 during 8/94 to 11/94.;	**DH01PX**	**65.104**	**32N**	**40E**	**15**	**pH**	**Water** An assessment of data indicates 2 exceedances out of 8 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.
59	**8491**	**2**	**Y**	**COLVILLE RIVER** Pelletier, 1997. , 2 excursions beyond the criterion out of 8 samples (25%) at RM 38.8 during 8/94 to 11/94.;	**DH01PX**	**67.256**	**32N**	**40E**	**22**	**pH**	**Water** An assessment of data indicates 2 exceedances out of 8 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
59	**8492**	**2**	**N**	**COLVILLE RIVER**	**DH01PX**	**81.689**	**31N**	**40E**	**23**	**pH**	**Water**
				Pelletier, 1997. , 1 excursion beyond the criterion out of 2 samples (50%) at RM 48.3 during 8/94 to 11/94.;							
59	**8493**	**2**	**N**	**COLVILLE RIVER**	**DH01PX**	**42.917**	**34N**	**39E**	**35**	**pH**	**Water**
				Pelletier, 1997. , 1 excursion beyond the criterion out of 2 samples (50%) at RM 25.3 during 8/94 to 11/94.							
59	**11408**	**2**	**N**	**COLVILLE RIVER**	**DH01PX**	**14.872**	**36N**	**38E**	**26**	**pH**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 59A080 (Colville R abv Kettle Falls) shows 1 excursions beyond the criterion out of 17 samples collected between 1993 - 2001							
59	**8494**	**2**	**N**	**COLVILLE RIVER**	**DH01PX**	**56.721**	**32N**	**40E**	**06**	**Temperature**	**Water**
				Stevens County Conservation District, 1993. 1 excursion beyond the criterion out of 10 samples at Colville RM 32 on 6/1/92.							
59	**8495**	**2**	**Y**	**COLVILLE RIVER**	**DH01PX**	**6.85**	**36N**	**38E**	**30**	**Temperature**	**Water**
				Juul, 1991, 3 excursions beyond the criterion out of 10 samples at RM 5.0 on 7/28/90, 8/8/90 and 8/28/90.						The single maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
59	**11405**	**2**	**Y**	**COLVILLE RIVER**	**DH01PX**	**8.892**	**36N**	**38E**	**29**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 59A070 (Colville R @ Kettle Falls) shows 2 excursions beyond the criterion out of 10 samples collected between 1993 - 2001 measured on these dates: 94/07/07, 94/08/03,						The two single maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
59	**11414**	**2**	**N**	**COLVILLE RIVER**	**DH01PX**	**54.306**	**33N**	**40E**	**31**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 59A110 (Colville R @ Blue Creek) shows 1 excursions beyond the criterion out of 6 samples collected between 1993 - 2001 measured on these dates: 00/08/07,							
59	**8504**	**2**	**N**	**COTTONWOOD CREEK**	**GT96PS**	**14.118**	**32N**	**41E**	**36**	**Dissolved oxygen**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21120201 on 8/9/77. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Cottonwood D1 Site 1' show excursions beyond the criterion from measurements collected in 1997 and 2001.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
59	**37964**	**2**	**N**	**COTTONWOOD CREEK**	**OD33BO**	**0.654**	**32N**	**42E**	**31**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Cottonwood Site 2' show 1 excursions beyond the criterion from measurements collected in 1997.							
59	**8505**	**2**	**N**	**COTTONWOOD CREEK**	**GT96PS**	**14.118**	**32N**	**41E**	**36**	**pH**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21120201 on 4/2/92. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Cottonwood D1 Site 1' show 1 excursions beyond the criterion from 12 measurements collected in 1992 and 2001.							
59	**8501**	**2**	**Y**	**COTTONWOOD CREEK**	**GT96PS**	**0**	**32N**	**40E**	**36**	**Temperature**	**Water**
				Stevens County Conservation District, 1993. 2 excursions beyond the criterion out of 10 samples (20%) at the mouth during 1992.						The two single maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	
59	**23109**	**2**	**N**	**FRATER LAKE**	**008HJR**	**36N**	**42E**	**03**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 17 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.							
59	**23110**	**2**	**N**	**GILLETTE LAKE**	**325IJJ**	**36N**	**42E**	**20**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 17 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion. O'Neal et al. (2001) concludes that designated uses are being supported.							
59	**8507**	**2**	**N**	**HALLER CREEK**	**GQ24CK**	**0**	**34N**	**39E**	**04**	**pH**	**Water**
				Pelletier, 1997. , 1 excursion beyond the criteria out of 2 samples (50%) in 1994.							
59	**8508**	**2**	**N**	**HANDE CREEK**	**EG40LV**	**0**	**36N**	**42E**	**19**	**Dissolved oxygen**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21130208 on 9/16/79.							
59	**23111**	**2**	**N**	**HATCH LAKE**	**422NVL**	**35N**	**40E**	**30**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 34 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
59	**8509**	**2**	**N**	**HEALEY CREEK**	**GB73PU**	**2.594**	**33N**	**42E** 19	**Dissolved oxygen**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21120301 on 8/22/94.						
59	**37982**	**2**	**N**	**HEALEY CREEK**	**GB73PU**	**0**	**33N**	**41E** 23	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Healey Creek' show 2 excursions beyond the criterion from measurements collected in 1993.						
59	**23015**	**2**	**N**	**HERITAGE LAKE**	**980AQU**	**36N**	**42E**	08	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 24 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Northern Rockies Ecoregion.						
59	**23016**	**2**	**N**	**JUMPOFF JOE LAKE**	**125HHP**	**31N**	**40E**	36	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 14 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.						
59	**8511**	**2**	**N**	**KINMAN CREEK**	**NA16OA**	**0**	**36N**	**40E** 09	**pH**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21130206 on 4/26/90.						
59	**11416**	**2**	**N**	**LITTLE PEND OREILLE RIVER**	**YA89GE**	**0**	**34N**	**39E** 10	**pH**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 59B070 (LITTLE PEND OREILLE AT HWY 395) shows 1 excursions beyond the criterion out of 6 samples collected between 1993 - 2001						
59	**8515**	**2**	**Y**	**MILL CREEK**	**NO98KK**	**0**	**36N**	**39E** 31	**pH**	**Water**
				Pelletier, 1997. , 2 excursions beyond the criteria out of 4 samples (50%) in 1994.					An assessment of data indicates 2 exceedances does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
59	**8516**	**2**	**N**	**MILL CREEK, N.F.** 1 excursions beyond the criterion out of 5 samples collected by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21130207 on 7/13/92.; Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Mill Site 1' show 1 excursions beyond the criterion from 5 measurements collected in 1992.	**NH98NQ**	**7.203**	**37N**	**40E**	**27**	**pH**		**Water**
59	**37996**	**2**	**N**	**MILL CREEK, S.F.** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S Fk Mill (d1) Site 1' show 1 excursions beyond the criterion from 11 measurements collected in 1992-1994.	**TK01JT**	**1.105**	**36N**	**40E**	**15**	**pH**		**Water**
59	**38000**	**2**	**N**	**MILL CREEK, S.F.** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S Fk Mill (d1) Site 2' show 3 excursions beyond the criterion from measurements collected in 1998.	**TK01JT**	**4.828**	**36N**	**40E**	**24**	**Temperature**		**Water**
59	**8522**	**2**	**N**	**ROBINS CREEK** 1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21130205 in 7/91.	**LW32XG**	**0.269**	**36N**	**40E**	**23**	**Fecal Coliform**		**Water**
59	**8521**	**2**	**N**	**ROBINS CREEK** 1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21130205 on 9/11/90.	**LW32XG**	**0.269**	**36N**	**40E**	**23**	**pH**		**Water**
59	**8523**	**2**	**Y**	**SHEEP CREEK** Juul, 1991, 2 excursions beyond the criterion out of 10 samples at the mouth on 8/8/90, and 8/28/90.	**UD18TQ**	**0**	**30N**	**40E**	**09**	**Dissolved oxygen**	This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
59	**23018**	**2**	**N**	**SHERRY LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 28 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion. Eilers et al. (1987) show a summer epilimnetic total phosphorus concentration of 5.2 ug/L in 1985 which does not exceed the water quality standards nutrient criterion for the Northern Rockies Ecoregion.	**014MVZ**	**36N**	**42E**	**19**		**Total Phosphorus**	WASWIS=014MVZ	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
59	38006	2	N	**SHERWOOD CREEK**	GO86YR	0	32N	41E	15	Temperature		Water
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Sherwood' show 3 excursions beyond the criterion from measurements collected in 1992.								
59	8528	2	N	**SIXMILE CREEK**	GV80FK	0	33N	41E	27	pH		Water
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21120202 on 3/31/72. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Sixmile' show no excursions beyond the criterion from measurements collected in 1992-1993.								
59	8529	2	Y	**STENSGAR CREEK**	QE64YM	0	33N	39E	24	Dissolved oxygen		Water
				Juul, 1991, 3 excursions beyond the criterion out of 10 samples at the mouth on 7/28/90, 8/8/90, and 8/28/90.							This waterbody segment was listed on the 1998 303(d) list based on exceedances in one year. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
59	8534	2	N	**TWELVEMILE CREEK**	FY73RM	4.076	34N	40E	32	Fecal Coliform		Water
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21130203 in 7/95. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Twelvemile' show a geometric mean of 39 cfu/100mL from 8 samples collected in 1995. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Twelvemile' show a geometric mean of 39 cfu/100mL from 8 samples collected in 1995.								
59	23019	2	N	**TWIN (SPRUCE) LAKE**	534WAH	35N	41E	04		Total Phosphorus		Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 21 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.								
59	23020	2	N	**WHITE MUD LAKE**	302COO	35N	40E	19		Total Phosphorus		Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 14 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
59	**38023**	**2**	**N**	**WILSON CREEK** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Wilson Creek' show excursions beyond the criterion from measurements collected in 1993 and 1994.	**DO31OD**	**0**	**33N**	**41E**	**23**	**Dissolved oxygen**		**Water**
59	**38024**	**2**	**N**	**WILSON CREEK** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Wilson Creek' show 1 excursions beyond the criterion from measurements collected in 1993-1994.	**DO31OD**	**0**	**33N**	**41E**	**23**	**pH**		**Water**
59	**38025**	**2**	**N**	**WILSON CREEK** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Wilson Creek' show excursions beyond the criterion from measurements collected in 1993 and 1994.	**DO31OD**	**0**	**33N**	**41E**	**23**	**Temperature**		**Water**
60	**38027**	**2**	**N**	**BOULDER CREEK, N.F.** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Boulder' show 1 excursions beyond the criterion from 7 measurements collected in 1992 and 1994.	**MS52FD**	**0**	**38N**	**36E**	**03**	**pH**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
60	**38031**	**2**	**N**	**BOULDER CREEK, S.F.**	**AM83GR 0 38N 36E 03**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder G.S.' show excursions beyond the criterion from measurements collected in 1994, 1996, and 1997. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder' show excursions beyond the criterion from measurements collected in 1994.		Comments received by Jerry Coleman (Colville National Forest) on 5/29/97 state that these data (submitted by EPA) do not meet the quality assurance criteria of the Water Quality Program Policy for listing. The data were collected using a HACH field test kit. Comments received by Jerry Coleman (Colville National Forest) on 5/29/97 state that these data (submitted by EPA) do not meet the quality assurance criteria of the Water Quality Program Policy for listing. The data were collected using a HACH field test kit. A rationale was further submitted by Albertus Wasson on 16 December 2002 suggesting the low dissolved oxygen values are a natural condition caused by a high atmospheric pressure at higher elevations and warm temperatures that reduce the saturation potential. (Murray, Dept. of Ecology, 2003) believes the low dissolved oxygen is due to natural conditions; no known pollutant is added to the creek; creek is saturated at the water temperature and barometric pressure at levels below 9.5 mg/l. This waterbody is part of a TMDL study that will determine whether or not excursions are due to natural conditions.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium
60	8538	2	N	**BOULDER CREEK, S.F.**	AM83GR 0 38N 36E 03	Fecal Coliform	Water

Remarks

Data sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170203 in were 76 cfu/100 ml on 7/6/93 and 66 cfu/100ml on 6/13/94.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder' show a geometric mean of 2 cfu/100mL from 8 samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder' show a geometric mean of 2 cfu/100mL from 8 samples collected in 1993. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder' show a geometric mean of 3 cfu/100mL from 12 samples collected in 1994.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder G.S.' show a geometric mean of 2 cfu/100mL from 8 samples collected in 1993. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder G.S.' show a geometric mean of 3 cfu/100mL from 12 samples collected in 1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder G.S.' show a geometric mean of 3 cfu/100mL from 17 samples collected in 1996. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder G.S.' show a geometric mean of 4 cfu/100mL from 17 samples collected in 1997. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder G.S.' show a geometric mean of 7 cfu/100mL from 3 samples collected in 1998.
Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder' show a geometric mean of 2 cfu/100mL from 8 samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder' show a geometric mean of 2 cfu/100mL from 8 samples collected in 1993. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder' show a geometric mean of 3 cfu/100mL from 12 samples collected in 1994.
Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder G.S.' show a geometric mean of 2 cfu/100mL from 8 samples collected in 1993. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder G.S.' show a geometric mean of 3 cfu/100mL from 12 samples collected in 1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder G.S.' show a geometric mean of 3 cfu/100mL from 17 samples collected in 1996. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder G.S.' show a geometric mean of 4 cfu/100mL from 17 samples collected in 1997. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder G.S.' show a geometric mean of 7 cfu/100mL from 3 samples collected in 1998.

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Medium
60	8536	2	N	**BOULDER CREEK, S.F.**	AM83GR 0 38N 36E 03	pH	Water

1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170204 on 9/12/94.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder G.S.' show 1 excursions beyond the criterion from 74 measurements collected in 1993-1998.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder' show 2 excursions beyond the criterion from 39 measurements collected in 1992-1994.

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
60	8537	2	N	**BOULDER CREEK, S.F.**	AM83GR	0	38N	36E	03	Temperature	Water
				2 excursions beyond the criterion out of 53 samples (4%) collected by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170203 on 7/25/94 and 8/8/94. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder G.S.' show excursions beyond the criterion from measurements collected in 1994 and 1998. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Boulder' show excursions beyond the criterion from measurements collected in 1994.						
60	8539	2	N	**CATHERINE CREEK, S.F.**	YX94UV	0.453	40N	32E	13	Fecal Coliform	Water
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Catherine' show a geometric mean of 33 cfu/100mL from 4 samples collected in 1995. 1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21180201 in 7/95.						
60	8540	2	N	**CATHERINE CREEK, S.F.**	YX94UV	0.453	40N	32E	13	pH	Water
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21180201 on 4/26/74.							
60	38040	2	N	**CATHERINE CREEK, S.F.**	YX94UV	0.453	40N	32E	13	Temperature	Water
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Catherine' show 1 excursion beyond the criterion from measurements collected in 1995.							
60	8542	2	N	**CUMMINGS CREEK**	NN81BE	1.361	39N	33E	06	Temperature	Water
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21180223 on 7/19/95. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Cummings' show 1 excursion beyond the criterion from measurements collected in 1995.						
60	6176	2	N	**CURLEW LAKE**	186HFR	38N	33E	28		Total Phosphorus	Water
				O'Neal et al. (2001) concludes that designated uses are not being supported. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L from samples collected in 1981 which does not exceed the water quality standards nutrient criterion for the Northern Rockies Ecoregion.						
60	38045	2	N	**DEADMAN CREEK**	QP45RY	10.747	37N	36E	28	Dissolved oxygen	Water
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Deadman' show excursions beyond the criterion from measurements collected in 1994 and 1995.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
60	**8543**	**2**	**N**	**DEADMAN CREEK**	**QP45RY**	**10.551**	**37N**	**36E**	**27**	**Fecal Coliform**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170210 in 6/92.							
60	**8544**	**2**	**N**	**DEADMAN CREEK, N.F.**	**MN70QL**	**0**	**37N**	**36E**	**28**	**pH**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170211 on 11/8/74.							
60	**8546**	**2**	**N**	**DEEP CREEK**	**FC43HB**	**12.524**	**40N**	**37E**	**02**	**Dissolved oxygen**	**Water**
				3 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170209 (UPPER) on 7/17/95, 7/26/95, and8/8/95. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Deep-Upper' show 4 excursions beyond the criterion from measurements collected in 1995.						Comments received by Jerry Coleman (Colville National Forest) on 5/29/97 state that these data (submitted by EPA) do not meet the quality assurance criteria of the Policy for listing. The data were collected using a HACH field test kit.	
60	**8545**	**2**	**N**	**DEEP CREEK**	**FC43HB**	**1.393**	**40N**	**36E**	**12**	**pH**	**Water**
				2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170209 (SITE 1) on 9/12/90 and 6/9/92. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Deep' show 1 excursions beyond the criterion from 6 measurements collected in 1992 and 1995.							
60	**8547**	**2**	**N**	**DEEP CREEK**	**FC43HB**	**12.524**	**40N**	**37E**	**02**	**pH**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170209 (UPPER) on 7/5/77.							
60	**38059**	**2**	**N**	**EAST DEER CREEK**	**EH01FV**	**0.13**	**39N**	**36E**	**26**	**Fecal Coliform**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Deer at Intake' show a geometric mean of 70 cfu/100mL from 1 samples collected in 2001. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Deer at Intake' show a geometric mean of 1 cfu/100mL from 6 samples collected in 1993. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Deer at Intake' show a geometric mean of 2 cfu/100mL from 4 samples collected in 2000. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Deer at Intake' show a geometric mean of 2 cfu/100mL from 6 samples collected in 1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Deer at Intake' show a geometric mean of 2 cfu/100mL from 7 samples collected in 1999. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Deer at Intake' show a geometric mean of 3 cfu/100mL from 2 samples collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Deer at Intake' show a geometric mean of 3 cfu/100mL from 4 samples collected in 1995. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Deer at Intake' show a geometric mean of 3 cfu/100mL from 6 samples collected in 1996. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Deer at Intake' show a geometric mean of 4 cfu/100mL from 4 samples collected in 1998. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Deer at Intake' show a geometric mean of 4 cfu/100mL from 5 samples collected in 1997. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Deer at Intake' show a geometric mean of 6 cfu/100mL from 8 samples collected in 1992.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
60	**8548**	**2**	**N**	**EAST DEER CREEK**	**EH01FV**	**0.13**	**39N**	**36E**	**26**	**pH**		**Water**
				8 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170304 between 1983 and 1985. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Deer at Intake' show no excursions beyond the criterion from measurements collected in 1992-2002.							Comments received by Jerry Coleman (Colville National Forest) on 5/29/97 state that these data (submitted by EPA) do not meet the quality assurance criteria of the Water Quality Program Policy for listing. The excursions are the result of suspected equipment problems since the instrument was not calibrated.	
60	**38060**	**2**	**N**	**FISHER CREEK**	**TG60ZC**	**0**	**40N**	**37E**	**33**	**Dissolved oxygen**		**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Fisher Creek' show excursions beyond the criterion from measurements collected in 1995, 1996, and 1997.							Comments received by Jerry Coleman (Colville National Forest) on 5/29/97 state that these data (submitted by EPA) do not meet the quality assurance criteria of the Water Quality Program Policy for listing. The data were collected using a HACH field test kit. A rationale submitted by submitted by Albertus Wasson on 16 December 2002 suggests the low dissolved oxygen values are a natural condition caused by a high atmospheric pressure at higher elevations and warm temperatures that reduce the saturation potential. This waterbody is part of a TMDL study that will determine whether or not excursions are due to natural conditions.	
60	**8550**	**2**	**N**	**FISHER CREEK**	**TG60ZC**	**0**	**40N**	**37E**	**33**	**Fecal Coliform**		**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21120203 in 7/95. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Fisher Creek' show a geometric mean of 19 cfu/100mL from 6 samples collected in 1995. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Fisher Creek' show a geometric mean of 5 cfu/100mL from 5 samples collected in 1997. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Fisher Creek' show a geometric mean of 9 cfu/100mL from 5 samples collected in 1996. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Fisher Creek' show a geometric mean of 19 cfu/100mL from 6 samples collected in 1995. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Fisher Creek' show a geometric mean of 5 cfu/100mL from 5 samples collected in 1997. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Fisher Creek' show a geometric mean of 9 cfu/100mL from 5 samples collected in 1996.								
60	**8551**	**2**	**N**	**GOODRICH CREEK**	**HW76YM**	**0.338**	**39N**	**32E**	**22**	**pH**		**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21180205 on 4/26/74.								

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
60	**8552**	**2**	**N**	**INDEPENDENT CREEK**	**IC16JY**	**6.121**	**40N**	**35E**	**15**	**Dissolved oxygen**	**Water**
				2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21150206 on 5/31/95 and 8/1/95. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Independent Cr' show 3 excursions beyond the criterion from measurements collected in 1995.						Comments received by Jerry Coleman (Colville National Forest) on 5/29/97 state that these data (submitted by EPA) do not meet the quality assurance criteria of the Policy for listing. The data were collected using a HACH field test kit.	
60	**16869**	**2**	**N**	**KETTLE RIVER**	**QA16AE**	**18.145**	**38N**	**37E**	**16**	**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 60A070 meets tested standards for fecal coliform. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 60A070 (Kettle R. near Barstow) shows a geometric mean of 12 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 4 samples collected during 2001. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 60A070 (Kettle R. near Barstow) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 8 samples collected during 2000. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 60A070 (Kettle R. near Barstow) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1999. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 60A070 (Kettle R. near Barstow) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1998. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 60A070 (Kettle R. near Barstow) shows a geometric mean of 11 does not exceed the criterion and that 11% of the samples exceeds the percentile criterion from 9 samples collected during 1997, with only 1 sample that exceeds the percentile criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 60A070 (Kettle R. near Barstow) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 1996. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 60A070 (Kettle R. near Barstow) shows a geometric mean of 10 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1995. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 60A070 (Kettle R. near Barstow) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1994. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 60A070 (Kettle R. near Barstow) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1993.							
60	**11420**	**2**	**N**	**KETTLE RIVER**	**QA16AE**	**18.145**	**38N**	**37E**	**16**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 60A070 shows that 4 of 29 samples exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 60A070 (KETTLE RIVER NEAR BARSTOW) shows 4 excursions beyond the criterion out of 50 samples collected between 1993 - 2001.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
60	**8553**	**2**	**N**	**LAFLEUR CREEK**	**KT60NA**	**5.192**	**40N**	**33E**	**27**	**pH**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lafleur' show no excursions beyond the criterion from measurements collected in 1992. 1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21180206 on 4/26/74.						Name changed on 01/14/05 from LAFLUER CREEK to LAFLEUR CREEK. -kk	
60	**38077**	**2**	**N**	**LAMBERT CREEK**	**FJ42JJ**	**6.775**	**37N**	**33E**	**01**	**Temperature**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lambert Site 1' show 1 excursion beyond the criterion from measurements collected in 2001. Colville National Forest Temperature TMDL Study unpublished data show a 7-day mean of daily maximum values of 15.6 from continuous measurements collected in 2002. Colville National Forest Temperature TMDL Study unpublished data show a 7-day mean of daily maximum values of 15.6 from continuous measurements collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lambert Site 1' show 1 excursion beyond the criterion from measurements collected in 2001.							
60	**8555**	**2**	**N**	**LIMESTONE CREEK**	**GC43XC**	**0.012**	**40N**	**37E**	**28**	**Fecal Coliform**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170212 in 8/95. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Limestone' show a geometric mean of 10 cfu/100mL from samples collected in 1995. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Limestone' show a geometric mean of 10 cfu/100mL from samples collected in 1995.							
60	**38082**	**2**	**N**	**LIMESTONE CREEK**	**GC43XC**	**0.012**	**40N**	**37E**	**28**	**pH**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Limestone' show 1 excursions beyond the criterion from 5 measurements collected in 1995 and 2002.							
60	**8556**	**2**	**N**	**LITTLE BOULDER CREEK**	**AM83GR**	**16.427**	**38N**	**35E**	**27**	**Dissolved oxygen**	**Water**
				2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170201 on 8/16/77 and 8/1/95.							
60	**38086**	**2**	**N**	**LONE RANCH CREEK**	**ZY38QL**	**0**	**40N**	**34E**	**09**	**Fecal Coliform**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lower Lone Ranch Creek' show a geometric mean of 106 cfu/100mL from 1 samples collected in 1998.							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
60	**38085**	**2**	**N**	**LONE RANCH CREEK** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lower Lone Ranch Creek' show 1 excursion beyond the criterion from measurements collected in 1998.	**ZY38QL**	**0**	**40N**	**34E**	**09**	**Temperature**	**Water**	
60	**38093**	**2**	**N**	**LONE RANCH CREEK, N.F.** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Lone Ranch Site 2' show a geometric mean of 55 cfu/100mL from 4 samples collected in 1995. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Lone Ranch Site 2' show a geometric mean of 11 cfu/100mL from 6 samples collected in 1997. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Lone Ranch Site 2' show a geometric mean of 19 cfu/100mL from 5 samples collected in 1999. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Lone Ranch Site 2' show a geometric mean of 8 cfu/100mL from 7 samples collected in 1998.	**IK82JJ**	**0.58**	**40N**	**34E**	**13**	**Fecal Coliform**	**Water**	
60	**8558**	**2**	**Y**	**LONE RANCH CREEK, S.F.** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Lone Ranch' show a geometric mean of 2 cfu/100mL from 5 samples collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Lone Ranch' show a geometric mean of 18 cfu/100mL from 6 samples collected in 2001. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Lone Ranch' show a geometric mean of 7 cfu/100mL from 6 samples collected in 2000. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Lone Ranch' show a geometric mean of 3 cfu/100mL from 9 samples collected in 1999. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Lone Ranch' show a geometric mean of 7 cfu/100mL from 10 samples collected in 1998. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Lone Ranch' show a geometric mean of 6 cfu/100mL from 9 samples collected in 1997. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Lone Ranch' show a geometric mean of 62 cfu/100mL from 4 samples collected in 1995. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Lone Ranch' show a geometric mean of 35 cfu/100mL from 9 samples collected in 1992. 5 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21180216 (S.F.) in 1991 and 1992.	**ZY38QL**	**4.559**	**40N**	**34E**	**23**	**Fecal Coliform**	**Water**	Part of the Colville National Forest Fecoliform Bacteria and Temperature TMDL, approved by EPA on 08/05/2005. -kk Additional testing reveals this to be a Category 2 stream based on consolidation with Listing ID 38097 which was inactivated on 03/02/05. -kk Information submitted is insufficient to determine a geometric mean and is not clear how many samples the values were based on. Therefore, this waterbody segment does not meet listing criteria for bacteria in WQ Policy 1-11, which requires that when the exceedances are based on a percentile critieron, you must have a minimum of 10% and at least 2 samples exceeding the criteria. Data for this waterbody segment does not meet criteria for listing as impaired and is considered a water of concern until further monitoring verifies the status of the water.

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium	Remarks
60	**8559**	**2**	**Y**	**MARTIN CREEK**	**VO98QQ**	**0.281**	**39N**	**36E**	**15**	**Fecal Coliform**	**Water**	
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Martin at Hwy395' show a geometric mean of 5 cfu/100mL from 4 samples collected in 2001. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Martin at Hwy395' show a geometric mean of 2 cfu/100mL from 11 samples collected in 2000. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Martin at Hwy395' show a geometric mean of 13 cfu/100mL from 13 samples collected in 1999. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Martin at Hwy395' show a geometric mean of 11 cfu/100mL from 7 samples collected in 1998. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Martin at Hwy395' show a geometric mean of 26 cfu/100mL from 5 samples collected in 1995. 2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21120203 (along Hwy 395) in 1995.							Recent data in the past 5 years measuring the geometric mean indicates that this water is meeting standards for fecal coliform. Listing was initially placed on the 303(d) list due to insufficient data in 1995. Listing will be placed on the waters of concern list until further monitoring verifies the water continues to meet criteria.
60	**38102**	**2**	**N**	**MATSEN CREEK**	**EG75FI**	**3.57**	**38N**	**36E**	**36**	**Dissolved oxygen**	**Water**	
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Matsen' show 1 excursion beyond the criterion from measurements collected in 1995.								
60	**8561**	**2**	**N**	**PIERRE CREEK**	**EH27CN**	**0.69**	**40N**	**37E**	**32**	**Dissolved oxygen**	**Water**	
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170208 on 4/19/73.								
60	**38107**	**2**	**N**	**PIERRE CREEK**	**EH27CN**	**3.174**	**40N**	**37E**	**33**	**Dissolved oxygen**	**Water**	
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Pierre Creek Site 2' show 2 excursions beyond the criterion from measurements collected in 1996. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Pierre Creek Site 1' show no excursions beyond the criterion from measurements collected in 1999 and 2001.								
60	**8562**	**2**	**N**	**PIERRE CREEK**	**EH27CN**	**0.69**	**40N**	**37E**	**32**	**Fecal Coliform**	**Water**	
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170208 in 7/92.								

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
60	**8560**	**2**	**Y**	**PIERRE CREEK** 2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170208 on 6/9/92 and 7/1/92.	**EH27CN**	**0.69**	**40N**	**37E**	**32**	**pH**	An assessment of data indicates 2 exceedances does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	**Water**
60	**38108**	**2**	**N**	**PIERRE CREEK** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Pierre Creek Site 1' show 3 excursions beyond the criterion from 26 measurements collected in 1992-2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Pierre Creek Site 2' show no excursions beyond the criterion from measurements collected in 1994-1997.	**EH27CN**	**3.174**	**40N**	**37E**	**33**	**pH**		**Water**
60	**38114**	**2**	**N**	**ST. PETER CREEK, N.F.** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK St Peter Site 2' show 1 excursions beyond the criterion from measurements collected in 2001.	**DA63HX**	**4.113**	**38N**	**34E**	**16**	**Dissolved oxygen**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
60	8564	2	Y	**ST. PETER CREEK, S.F.**	**SH98QR 2.693 38N 34E 30**	**Fecal Coliform**	**Water**

Basis

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK St Peters Ck' show a geometric mean of 4 cfu/100mL from 6 samples collected in 2002.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK St Peters Ck' show a geometric mean of 16 cfu/100mL from 6 samples collected in 2001.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK St Peters Ck' show a geometric mean of 7 cfu/100mL from 6 samples collected in 2000.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK St Peters Ck' show a geometric mean of 8 cfu/100mL from 6 samples collected in 1999.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK St Peters Ck' show a geometric mean of 83 cfu/100mL from 8 samples collected in 1998.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK St Peters Ck' show a geometric mean of 20 cfu/100mL from 4 samples collected in 1995.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK St Peters Ck' show a geometric mean of 10 cfu/100mL from 1 samples collected in 1994.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK St Peters Ck' show a geometric mean of 13 cfu/100mL from 5 samples collected in 1992.

2 excursions beyond the percentile criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21180210 (S.F.) in 1992.

Remarks

More recent data shows that water quality criteria are being met.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
60	38123	2	N	**ST. PETER CREEK, S.F.**	**SH98QR 2.693 38N 34E 30**	**Temperature**	**Water**

Basis

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK St Peters Ck' show 1 excursion beyond the criterion from measurements collected in 2001.

Colville National Forest Temperature TMDL Study unpublished data show a 7-day mean of daily maximum values of 10.2 from continuous measurements collected in 2002.
Colville National Forest Temperature TMDL Study unpublished data show a 7-day mean of daily maximum values of 10.2 from continuous measurements collected in 2002.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK St Peters Ck' show 1 excursion beyond the criterion from measurements collected in 2001.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
60	**8565**	**2**	**N**	**TIE CAMP CREEK**	**FO68QT**	**0**	**37N**	**37E**	**18**	**Dissolved oxygen**	**Water**

1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170213 on 8/2/95. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tie Camp' show 2 excursions beyond the criterion from measurements collected in 1995.

60	**8568**	**2**	**N**	**TONATA CREEK**	**NK42RZ**	**1.11**	**39N**	**32E**	**11**	**Dissolved oxygen**	**Water**

1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21180202 on 9/27/94.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show excursions beyond the criterion from measurements collected in 1994 and 1996.

60	**8567**	**2**	**N**	**TONATA CREEK**	**NK42RZ**	**1.11**	**39N**	**32E**	**11**	**Fecal Coliform**	**Water**

2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21180202 in 6/92 and 7/92.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 11 cfu/100mL from 5 samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 11 cfu/100mL from 6 samples collected in 1999. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 2 cfu/100mL from 10 samples collected in 1998. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 2 cfu/100mL from 6 samples collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 3 cfu/100mL from 6 samples collected in 1996. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 5 cfu/100mL from 4 samples collected in 1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 5 cfu/100mL from 9 samples collected in 2000. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 7 cfu/100mL from 7 samples collected in 2001. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 11 cfu/100mL from 5 samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 11 cfu/100mL from 6 samples collected in 1999. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 2 cfu/100mL from 10 samples collected in 1998. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 2 cfu/100mL from 6 samples collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 3 cfu/100mL from 6 samples collected in 1996. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 5 cfu/100mL from 4 samples collected in 1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 5 cfu/100mL from 9 samples collected in 2000. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tonata at F.B.' show a geometric mean of 7 cfu/100mL from 7 samples collected in 2001.

60	**38135**	**2**	**N**	**TROUT CREEK, N.F.**	**BE85IS**	**0.385**	**38N**	**32E**	**15**	**Dissolved oxygen**	**Water**

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Trout Site 2' show 2 excursions beyond the criterion from measurements collected in 2002.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
60	**8569**	**2**	**Y**	**TROUT CREEK, N.F.**	**BE85IS**	**0.385**	**38N**	**32E**	**15**	**Fecal Coliform**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Trout Site 2' show a geometric mean of 3 cfu/100mL from 5 samples collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Trout Site 2' show a geometric mean of 15 cfu/100mL from 6 samples collected in 2001. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Trout Site 2' show a geometric mean of 2 cfu/100mL from 10 samples collected in 2000. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Trout Site 2' show a geometric mean of 6 cfu/100mL from 7 samples collected in 1999. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Trout Site 2' show a geometric mean of 1 cfu/100mL from 8 samples collected in 1998. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Trout Site 2' show a geometric mean of 29 cfu/100mL from 5 samples collected in 1992. 3 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21180209 in 1992.						Recent data in the past 5 years measuring the geometric mean indicates that this water is meeting standards for fecal coliform. Listing was initially placed on the 303(d) list due to insufficient data in 1992. Listing will be placed on the waters of concern list until further monitoring verifies the water continues to meet criteria.	
60	**8570**	**2**	**N**	**TROUT CREEK, N.F.**	**BE85IS**	**0.385**	**38N**	**32E**	**15**	**pH**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21180209 on 10/9/75. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Trout Site 2' show no excursions beyond the criterion from measurements collected in 1992, 1998, 2001-2002.							
60	**8571**	**2**	**N**	**U.S. CREEK**	**QN69US**	**0.092**	**38N**	**35E**	**27**	**pH**	**Water**
				2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21170201 on 5/13/92 and 6/9/92. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'U.S.' show 2 excursions beyond the criterion from 4 measurements collected in 1992.							
60	**38151**	**2**	**N**	**UNNAMED CREEK (TRIBUTARY TO TROUT CREEK, N.F.)**	**FJ91AZ**	**0**	**38N**	**32E**	**15**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N Fk Trout trib site 3' show 1 excursions beyond the criterion from measurements collected in 2002.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
60	**23024**	**2**	**N**	**WALKER LAKE**	**957PMN**	**40N**	**30E**	**06**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 48 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Columbia Basin Ecoregion. King County Volunteer Citizen Monitoring Program unpublished data show show summer mean epilimnetic total phosphorus did not exceed the water quality standards nutrient criterion from samples collected in 2000. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.							
61	**11439**	**2**	**N**	**BIG SHEEP CREEK**	**JY00QG**	**0**	**40N**	**40E**	**30**	**pH**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61D070 (Sheep Cr nr Northport) shows 1 excursions beyond the criterion out of 8 samples collected between 1993 - 2001							
61	**38155**	**2**	**N**	**BIG SHEEP CREEK, AMERICAN FORK**	**AA82ZS**	**0.567**	**40N**	**38E**	**14**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'American Fork' show 1 excursion beyond the criterion from measurements collected in 1995.							
61	**8572**	**2**	**N**	**CEDAR CREEK, E.F.**	**GN46SA**	**3.818**	**40N**	**42E**	**17**	**pH**	**Water**
				2 excursions beyond the criterion out of 21 samples measured by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21140203 on 4/3/91 and 5/2/91. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E FK Cedar' show no excursions beyond the criterion from measurements collected in 1992.							
61	**23025**	**2**	**N**	**CEDAR LAKE**	**600BQA**	**40N**	**41E**	**26**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 34 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 2 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Cascades Ecoregion.							
61	**11428**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**48117J7C7**	**48.925**	**117.775**		**Dissolved oxygen**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61A070 (COLUMBIA RIVER AT NORTHPORT) shows 1 excursions beyond the criterion out of 61 samples collected between 1993 - 2001 measured on these dates: 94/09/07,							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
61	**16871**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**48117J7C7**	**48.925**	**117.775**	**Fecal Coliform**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61A070 (Columbia R. at Northport) shows a geometric mean of 17 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1996.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61A070 (Columbia R. at Northport) shows a geometric mean of 12 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 2001.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61A070 (Columbia R. at Northport) shows a geometric mean of 13 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 8 samples collected during 1998.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61A070 (Columbia R. at Northport) shows a geometric mean of 5 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 2000.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61A070 (Columbia R. at Northport) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1999.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61A070 (Columbia R. at Northport) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 10 samples collected during 1997.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61A070 (Columbia R. at Northport) shows a geometric mean of 8 does not exceed the criterion and that 9% of the samples does not exceed the percentile criterion from 11 samples collected during 1993.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61A070 (Columbia R. at Northport) shows a geometric mean of 26 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 1994.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61A070 (Columbia R. at Northport) shows a geometric mean of 14 does not exceed the criterion and that 12% of the samples exceeds the percentile criterion from 8 samples collected during 1995. U.S.Geological Survey data from NWIS database station 12400520 (Columbia R. at Northport) shows a geometric mean of 12 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 5 samples collected during 1993.; U.S.Geological Survey data from NWIS database station 12400520 (Columbia R. at Northport) shows a geometric mean of 15 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1994.; U.S.Geological Survey data from NWIS database station 12400520 (Columbia R. at Northport) shows a geometric mean of 10 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 4 samples collected during 1995.					Herold, 2003 noted that water quality samples have met standards for bacteria for six years since the exceedance in 1995.	
61	**42811**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**1162.4 40N 40E 31 46**			**Fecal Coliform**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 61A070 shows 1 of 3 samples (33.3%) in year 2001 exceeded the percentile criterion.						
61	**11427**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**48117J7C7**	**48.925**	**117.775**	**pH**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61A070 (COLUMBIA RIVER AT NORTHPORT) shows 1 excursions beyond the criterion out of 61 samples collected between 1993 - 2001 Serdar (1997) station SPMNORTH (COLUMBIA R. SPM STATION AT NORTHPORT) shows 0 excursions beyond the criterion out of 3 samples collected between 10/90 - 10/94.						
61	**11431**	**2**	**N**	**COLUMBIA RIVER**	**NN57SG**	**48117J7C7**	**48.925**	**117.775**	**Temperature**	**Water**
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61A070 (COLUMBIA RIVER AT NORTHPORT) shows 9 excursions beyond the criterion out of 61 samples collected between 1993 - 2001 measured on these dates: 00/08/07, 93/08/04, 93/09/08, 94/08/03, 94/09/07, 95/07/11, 95/08/08, 95/09/06, 97/08/06, Serdar (1997) station SPMNORTH (COLUMBIA R. SPM STATION AT NORTHPORT) shows 2 excursions beyond the criterion measured on these dates: 92/09/30, 93/10/06,					EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.	

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
61	**38162**	**2**	**N**	**CROWN CREEK, E.F.** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E FK Crown' show excursions beyond the criterion from measurements collected in 1995 and 2001.	**NZ68WD**	**0.369**	**39N**	**38E**	**02**	**Dissolved oxygen**		**Water**
61	**8573**	**2**	**N**	**CROWN CREEK, E.F.** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E FK Crown' show no excursions beyond the criterion from measurements collected in 1992-2001. Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) shows 2 excursions beyond the criterion sampled at station 21140213 on 7/11/90 and 9/5/91.	**NZ68WD**	**0.369**	**39N**	**38E**	**02**	**pH**	Name changed from CROWN CREEK to CROWN CREEK, E.F. on 7/14/05. Consolidated with Listing ID 38163. -kk	**Water**
61	**38164**	**2**	**N**	**CROWN CREEK, E.F.** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E FK Crown' show 1 excursion beyond the criterion from measurements collected in 1998.	**NZ68WD**	**0.369**	**39N**	**38E**	**02**	**Temperature**		**Water**
61	**11434**	**2**	**N**	**DEEP CREEK** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61B070 (Deep Ck nr Mouth) shows 2 excursions beyond the criterion out of 14 samples collected between 1993 - 2001 measured on these dates: 00/08/07, 93/08/04,	**FI39NU**	**0.176**	**40N**	**40E**	**34**	**Dissolved oxygen**		**Water**
61	**11433**	**2**	**N**	**DEEP CREEK** Hallock (2001) Dept. of Ecology Ambient Monitoring Station 61B070 (Deep Ck nr Mouth) shows 1 excursions beyond the criterion out of 13 samples collected between 1993 - 2001 measured on these dates: 00/08/07,	**FI39NU**	**0.176**	**40N**	**40E**	**34**	**Temperature**		**Water**
61	**23027**	**2**	**N**	**DILLY LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 12 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.	**268RVL**	**38N**	**37E**	**13**		**Total Phosphorus**		**Water**
61	**8577**	**2**	**N**	**FLAT CREEK** 1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21140211 on 5/5/81. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Flat' show 1 excursion beyond the criterion from measurements collected in 1995. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Flat' show 1 excursion beyond the criterion from measurements collected in 1995.	**VO11DV**	**8.967**	**39N**	**38E**	**09**	**Dissolved oxygen**		**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
61	**8576**	**2**	**Y**	**FLAT CREEK**	**VO11DV**	**8.967**	**39N**	**38E**	**09**	**Fecal Coliform**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Flat' show a geometric mean of 9 cfu/100mL from 7 samples collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Flat' show a geometric mean of 3 cfu/100mL from 5 samples collected in 2001. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Flat' show a geometric mean of 6 cfu/100mL from 10 samples collected in 2000. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Flat' show a geometric mean of 3 cfu/100mL from 12 samples collected in 1999. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Flat' show a geometric mean of 26 cfu/100mL from 6 samples collected in 1998. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Flat' show a geometric mean of 15 cfu/100mL from 5 samples collected in 1995. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Flat' show a geometric mean of 5 cfu/100mL from 24 samples collected in 1992. 4 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21140211 in 1991 and 1992.						Recent data in the past 7 years measuring the geometric mean indicates that this water is meeting standards for fecal coliform. Listing was initially placed on the 303(d) list due to insufficient data in 1992. Listing will be placed on the waters of concern list until further monitoring verifies the water continues to meet criteria.	
61	**8579**	**2**	**N**	**FRANKLIN D. ROOSEVELT LAKE**	**NN57SG**	**48117J7B8**	**48.915**	**117.785**		**pH**	**Water**
				1 excursion beyond the criterion at USGS station 12400520 (at Northport) on 3/19/91							
61	**9069**	**2**	**N**	**FRANKLIN D. ROOSEVELT LAKE**	**NN57SG**	**48118G0H5**	**48.675**	**118.055**		**Total PCBs**	**Tissue**
				Johnson, 1991 , Total PCB concentration in whole Largescale sucker samples collected from near Marcus Island in1990 exceeded the national toxic rule criterion for the individual PCB isomers.						The sample was of whole fish and not edible tissue. The National Toxic Rule criteria apply only to the specific isomers of PCBs. There is not a criterion for Total PCBs.	
61	**8581**	**2**	**N**	**HARTBAUER CREEK**	**IC24AF**	**13.919**	**40N**	**41E**	**36**	**pH**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21140206 on 7/17/75.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
61	**8583**	**2**	**Y**	**MEADOW CREEK**	**XH79GB**	**1.312**	**38N**	**41E**	**33**	**Fecal Coliform**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Meadow' show a geometric mean of 4 cfu/100mL from 6 samples collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Meadow' show a geometric mean of 10 cfu/100mL from 8 samples collected in 2001. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Meadow' show a geometric mean of 11 cfu/100mL from 12 samples collected in 2000. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Meadow' show a geometric mean of 5 cfu/100mL from 13 samples collected in 1999. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Meadow' show a geometric mean of 8 cfu/100mL from 7 samples collected in 1998. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Meadow' show a geometric mean of 6 cfu/100mL from 5 samples collected in 1992. 2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21140201 in 6/91 and 7/91.						Recent data in the past 5 years measuring the geometric mean indicates that this water is meeting standards for fecal coliform. Listing was initially placed on the 303(d) list due to insufficient data in 1991. Listing will be placed on the waters of concern list until further monitoring verifies the water continues to meet criteria.	
61	**23028**	**2**	**N**	**PERKINS LAKE**	**725FUI**	**38N**	**37E**	**13**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 14 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.							
61	**8584**	**2**	**N**	**REPUBLICAN CREEK**	**VS50OL**	**0**	**39N**	**41E**	**14**	**pH**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21140205 on 8/8/77.							
61	**8585**	**2**	**N**	**ROCKY CREEK**	**TQ58ST**	**5.104**	**37N**	**41E**	**22**	**Dissolved oxygen**	**Water**
				2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21140212 on 7/20/93 and 9/14/93. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Rocky Creek' show 2 excursions beyond the criterion from measurements collected in 1993.						Comments received by Jerry Coleman (Colville National Forest) on 5/29/97 state that these data (submitted by EPA) do not meet the quality assurance criteria of the Policy for listing. The data were collected using a HACH field test kit.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
61	**8587**	**2**	**N**	**ROCKY CREEK**	**TQ58ST**	**5.104**	**37N**	**41E**	**22**	**Fecal Coliform**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21140212 in 6/93. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Rocky Creek' show a geometric mean of 3 cfu/100mL from 5 samples collected in 1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Rocky Creek' show a geometric mean of 4 cfu/100mL from 5 samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Rocky Creek' show a geometric mean of 5 cfu/100mL from 25 samples collected in 1993. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Rocky Creek' show a geometric mean of 3 cfu/100mL from 5 samples collected in 1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Rocky Creek' show a geometric mean of 4 cfu/100mL from 5 samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Rocky Creek' show a geometric mean of 5 cfu/100mL from 25 samples collected in 1993.							
61	**8586**	**2**	**N**	**ROCKY CREEK**	**TQ58ST**	**5.104**	**37N**	**41E**	**22**	**pH**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21140212 on 9/11/90. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Rocky Creek' show no excursions beyond the criterion from measurements collected in 1992-1994.							
61	**23029**	**2**	**N**	**RYAN LAKE**	**951NIH**	**38N**	**37E**	**24**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 18 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.							
61	**8588**	**2**	**N**	**SILVER CREEK**	**WP65NI**	**2.91**	**39N**	**42E**	**07**	**pH**	**Water**
				3 excursions beyond the criterion out of 21 samples collected by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21140204 on 9/11/90, 4/3/91 and 5/2/91.							
61	**8589**	**2**	**N**	**SMACKOUT CREEK**	**CZ33CZ**	**6.545**	**38N**	**41E**	**13**	**Dissolved oxygen**	**Water**
				15 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21140301 in 1977.						Comments received by Jerry Coleman (Colville National Forest) on 5/29/97 state that these data (submitted by EPA) do not meet the quality assurance criteria of the Policy for listing. The data were collected using a HACH field test kit.	
61	**8592**	**2**	**N**	**SMACKOUT CREEK**	**CZ33CZ**	**4.438**	**38N**	**41E**	**11**	**Dissolved oxygen**	**Water**
				14 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21140302 in 1977.						Comments received by Jerry Coleman (Colville National Forest) on 5/29/97 state that these data (submitted by EPA) do not meet the quality assurance criteria of the Policy for listing. The data were collected using a HACH field test kit.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
61	**38181**	**2**	**N**	**SMACKOUT CREEK**	**CZ33CZ**	**1.544**	**38N**	**41E**	**03**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Smackout' show 2 excursions beyond the criterion from measurements collected in 1993.							
61	**38183**	**2**	**N**	**SMACKOUT CREEK**	**CZ33CZ**	**4.438**	**38N**	**41E**	**11**	**pH**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Smackout Graze Low' show 2 excursions beyond the criterion from 3 measurements collected in 2000.							
61	**23030**	**2**	**N**	**WILLIAMS LAKE**	**601FJW**	**38N**	**38E**	**36**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 21 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.							
62	**23031**	**2**	**N**	**BOUNDARY LAKE**	**753PQH**	**00U**	**XXU**	**00**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.							
62	**21847**	**2**	**N**	**BROWNS CREEK**	**GW43FI**	**0**	**34N**	**44E**	**33**	**Dissolved oxygen**	**Water**
				Kalispel Tribe of Indians unpublished data show 2 excursions beyond the criterion from instantaneous measurements collected in 2002 at station BRN1 (Stream crossing Rd. 032).							
62	**21849**	**2**	**N**	**BROWNS CREEK**	**VG99PU**	**0.327**	**34N**	**44E**	**24**	**Dissolved oxygen**	**Water**
				Kalispel Tribe of Indians unpublished data show 1 excursion beyond the criterion from instantaneous measurements collected in 2002 at station BRN3 (Browns Lake inlet off Rd. 390).							
62	**21864**	**2**	**N**	**CALISPELL CREEK, M.F.**	**JX91XT**	**0.927**	**32N**	**43E**	**30**	**Dissolved oxygen**	**Water**
				Kalispel Tribe of Indians unpublished data shows 4 excursions beyond the criterion from 7 instantaneous measurements collected in 2002 at station MFC1 (Approx. one mi. upstream of intersection at Rd. 2022/35).						Changed from Category 1 to Category 2 on 5/17/05. Review of the data shows 4 excursion out of 7 measurements. This is Category 2 because the data is not continuous and does not show excursions in 3 separate years.	
62	**21865**	**2**	**N**	**CALISPELL CREEK, M.F.**	**JX91XT**	**6.778**	**31N**	**42E**	**03**	**Dissolved oxygen**	**Water**
				Kalispel Tribe of Indians unpublished data show 3 excursions beyond the criterion from instantaneous measurements collected in 2002 at station MFC3 (Intersection of Rd. 35 and 3540).							

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Remarks	Medium
62	**21869**	**2**	**N**	**CALISPELL CREEK, N.F.** Kalispel Tribe of Indians unpublished data show 4 excursions beyond the criterion from instantaneous measurements collected in 2002 at station NFC1 (First bridge crossing going south on Rd. 3520). Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Calispell' show excursions beyond the criterion from measurements collected in 1993 and 1994.	**UO31GS**	**3.707**	**32N**	**43E**	**21**	**Dissolved oxygen**		**Water**
62	**21870**	**2**	**N**	**CALISPELL CREEK, N.F.** Kalispel Tribe of Indians unpublished data show 4 excursions beyond the criterion from instantaneous measurements collected in 2002 at station NFC2 (Intersection of Rd. 35 and Rd. 2002).	**UO31GS**	**6.209**	**32N**	**43E**	**19**	**Dissolved oxygen**		**Water**
62	**21871**	**2**	**N**	**CALISPELL CREEK, N.F.** Kalispel Tribe of Indians unpublished data show 3 excursions beyond the criterion from instantaneous measurements collected on 14 Nov 2002 at station NFC3 (Rd. crossing 4347).	**UO31GS**	**15.214**	**32N**	**42E**	**16**	**Dissolved oxygen**		**Water**
62	**21799**	**2**	**N**	**CALISPELL CREEK, N.F.** Kalispel Tribe of Indians unpublished data show 1 excursion beyond the criterion from instantaneous measurements collected on 14 Nov 2002 at station NFC3 (Rd. crossing 4347).	**UO31GS**	**15.214**	**32N**	**42E**	**16**	**pH**		**Water**
62	**21876**	**2**	**N**	**CALISPELL CREEK, S.F.** Kalispel Tribe of Indians unpublished data show 3 excursions beyond the criterion from instantaneous measurements collected in 2002 at station SFC1 (Steam crossing of Rd. 9205).	**PX05BC**	**17.139**	**32N**	**43E**	**26**	**Dissolved oxygen**		**Water**
62	**42161**	**2**	**N**	**CALISPELL CREEK, S.F.** Kalispel Tribe data (submitted by John Gross on 3/15/04), station DCLU shows 6 samples in 2003 exceeded the criterion on the following dates, 5/6/2003, 6/4/2003, 7/9/2003, 8/6/2003, 9/10/2003, and 10/7/2003.	**PX05BC**	**10.025**	**32N**	**43E**	**12**	**Dissolved oxygen**		**Water**
62	**23033**	**2**	**N**	**CALISPELL LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 335 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.	**701KPM**	**32N**	**43E**	**12**		**Total Phosphorus**		**Water**
62	**8594**	**2**	**Y**	**CEDAR (IONE) CREEK** 2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21110204 on 8/13/92 and 7/21/94.	**AS86PH**	**1.821**	**38N**	**42E**	**36**	**Temperature**	The daily maximum excursions are for two years only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.	**Water**

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information	Parameter	Remarks	Medium
62	21851	2	N	**CEE CEE AH CREEK** Kalispel Tribe of Indians unpublished data show 4 excursions beyond the criterion from instantaneous measurements collected in 2002 at station CCA2 (Located at stream crossing of Rd. 027).	LT37BK 7.704 34N 44E 22	Dissolved oxygen		Water
62	7977	2	N	**CHAIN LAKE** One excursion beyond the chronic criterion at USEPA station 11F091 (adjacent to Main mine tailings pile) on 8/18/87.	763TUV 30N 44E 35	Mercury	Previously listed as being the Chain Lake that is in WRIA 7. -kk	Water
62	38216	2	N	**COPPER CREEK** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Copper Creek' show 2 excursions beyond the criterion from measurements collected in 1996.	IM33ZJ 0 39N 45E 19	Dissolved oxygen		Water
62	38221	2	N	**CUSICK CREEK** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Cusick Site 1' show excursions beyond the criterion from measurements collected in 1997.	ND50LM 6.932 34N 43E 10	Dissolved oxygen		Water
62	38222	2	N	**CUSICK CREEK** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Cusick Site 4' show excursions beyond the criterion from measurements collected in 1997.	ND50LM 10.247 35N 43E 34	Dissolved oxygen		Water
62	23034	2	N	**DAVIS LAKE** Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 17 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 18 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Columbia Basin Ecoregion.	647LHL 32N 44E 31	Total Phosphorus		Water
62	8595	2	N	**FLUME CREEK** 1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21110206 in 10/81.	HT26QY 5.101 39N 43E 04	Fecal Coliform		Water
62	8596	2	N	**FLUME CREEK** 1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21110206 on 7/24/90.	HT26QY 5.101 39N 43E 04	pH		Water
62	38230	2	N	**GYPSY CREEK** Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Gypsy' show 2 excursion beyond the criterion from measurements collected in 1996.	CZ14BX 0 39N 45E 19	Dissolved oxygen		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name / Basis	Location Information					Parameter	Medium
62	38234	2	N	**HARVEY CREEK**	NM19BF	8.881	38N	44E	30	Dissolved oxygen	Water
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Harvey at Bridge' show excursions beyond the criterion from measurements collected in 1995 and 1996.							
62	8597	2	N	**HARVEY CREEK**	NM19BF	17.578	37N	44E	02	Fecal Coliform	Water
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21110234 in 7/91. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Upper Harvey' show a geometric mean of 1 cfu/100mL from 4 samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Upper Harvey' show a geometric mean of 1 cfu/100mL from 4 samples collected in 1992.							
62	8598	2	N	**HARVEY CREEK**	NM19BF	8.881	38N	44E	30	pH	Water
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21110222 (AT BRIDGE) on 9/18/91. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Harvey at Bridge' show no excursions beyond the criterion from measurements collected in 1992-1996.							
62	23036	2	N	**KENT (MOUNTAIN) MEADOWS LAKE**	196JXI	31N	44E	10		Total Phosphorus	Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 24 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.							
62	38241	2	N	**KINYON CREEK**	JY93VU	0.037	39N	45E	19	Dissolved oxygen	Water
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Kinyon' show 3 excursions beyond the criterion from measurements collected in 1996.							
62	21854	2	N	**LECLERC CREEK, EAST BRANCH**	CG54YF	6.166	36N	44E	33	Dissolved oxygen	Water
				Kalispel Tribe of Indians unpublished data show 1 excursion beyond the criterion from instantaneous measurements collected in 2002 at station EBL3 (First bridge crossing S. of Rd. 1935/3521 intersection).							
62	21855	2	N	**LECLERC CREEK, EAST BRANCH**	CG54YF	13.175	36N	44E	24	Dissolved oxygen	Water
				Kalispel Tribe of Indians unpublished data show 1 excursion beyond the criterion from instantaneous measurements collected in 2002 at station EBL4 (4.5 mi. upstream from Rd. 1935/3521 intersection at bridge crossing).							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
62	**38249**	**2**	**N**	**LECLERC CREEK, EAST BRANCH**	**CG54YF**	**0**	**35N**	**44E**	**17**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Br Leclerc' show 1 excursion beyond the criterion from measurements collected in 1996. Kalispel Tribe of Indians unpublished data show no excursions beyond the criterion from instantaneous measurements collected in 2002 at station EBL1 (First Bridge crossing and Rd. 3503).							
62	**8599**	**2**	**N**	**LECLERC CREEK, EAST BRANCH**	**CG54YF**	**0**	**35N**	**44E**	**17**	**pH**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21100243 (MOUTH) on 3/23/90. Kalispel Tribe of Indians unpublished data show no excursions beyond the criterion from instantaneous measurements collected in 2002 at station EBL1 (First Bridge crossing and Rd. 3503). Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Br Leclerc' show no excursions beyond the criterion from measurements collected in 1992 and 1996.							
62	**21863**	**2**	**N**	**LECLERC CREEK, MIDDLE BRANCH**	**DK73YU**	**3.105**	**36N**	**44E**	**21**	**Dissolved oxygen**	**Water**
				Kalispel Tribe of Indians unpublished data show 3 excursions beyond the criterion from instantaneous measurements collected in 2002 at station MBL1 (Stream crossing of Rd. 1935).							
62	**38246**	**2**	**N**	**LECLERC CREEK, MIDDLE BRANCH**	**DK73YU**	**0**	**36N**	**44E**	**29**	**pH**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'M. Br. LeClerc Cr' show 1 excursions beyond the criterion from 6 measurements collected in 1996.							
62	**8600**	**2**	**N**	**LECLERC CREEK, WEST BRANCH**	**HB70AY**	**10.884**	**36N**	**44E**	**18**	**Dissolved oxygen**	**Water**
				2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21100242 on 9/8/93 and 9/21/94.						Comments received by Jerry Coleman (Colville National Forest) on 5/29/97 state that these data (submitted by EPA) do not meet the quality assurance criteria of the Policy for listing. The data were collected using a HACH field test kit.	
62	**21885**	**2**	**N**	**LECLERC CREEK, WEST BRANCH**	**HB70AY**	**4.885**	**35N**	**44E**	**06**	**Dissolved oxygen**	**Water**
				Kalispel Tribe of Indians unpublished data show 3 excursions beyond the criterion from instantaneous measurements collected in 2002 at station WBL2 (Third bridge crossing onf Rd. 3503).							
62	**21886**	**2**	**N**	**LECLERC CREEK, WEST BRANCH**	**HB70AY**	**9.103**	**36N**	**44E**	**19**	**Dissolved oxygen**	**Water**
				Kalispel Tribe of Indians unpublished data show 3 excursions beyond the criterion from instantaneous measurements collected in 2002 at station WBL4 (Stream crossing of Rd. 115).							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
62	**38253**	**2**	**N**	**LECLERC CREEK, WEST BRANCH**	**HB70AY**	**1.07**	**35N**	**44E**	**07**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'W Br Leclerc' show excursions beyond the criterion from measurements collected in 1993 and 1994. Kalispel Tribe of Indians unpublished data show no excursions beyond the criterion from instantaneous measurements collected in 2002 at station WBL1 (Second bridge crossing of Rd. 3503).							
62	**21842**	**2**	**N**	**LECLERC CREEK, WEST BRANCH**	**HB70AY**	**4.885**	**35N**	**44E**	**06**	**Temperature**	**Water**
				Kalispel Tribe of Indians unpublished data show 2 excursions beyond the criterion from instantaneous measurements collected on 12 Aug 2002 and 12 Aug 2002 2002 at station WBL2 (Third bridge crossing onf Rd. 3503).							
62	**38257**	**2**	**N**	**LIME CREEK**	**QE15FX**	**3.106**	**40N**	**44E**	**18**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lime Creek Site 1' show 1 excursion beyond the criterion from measurements collected in 1997.							
62	**38258**	**2**	**N**	**LIME CREEK**	**QE15FX**	**1.255**	**40N**	**43E**	**13**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lime Creek Site 2' show 1 excursion beyond the criterion from measurements collected in 1997.							
62	**21860**	**2**	**N**	**LITTLE MUDDY CREEK**	**ZE63VQ**	**10.023**	**38N**	**42E**	**20**	**Dissolved oxygen**	**Water**
				Kalispel Tribe of Indians unpublished data show 3 excursions beyond the criterion from instantaneous measurements collected in 2002 at station LIM3 (Stream crossing of Rd 2714).							
62	**38263**	**2**	**N**	**LITTLE MUDDY CREEK**	**ZE63VQ**	**3.383**	**38N**	**42E**	**35**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Little Muddy' show excursions beyond the criterion from measurements collected in 1996 and 1997.							
62	**8601**	**2**	**N**	**LITTLE MUDDY CREEK**	**ZE63VQ**	**0.959**	**37N**	**42E**	**01**	**Fecal Coliform**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21110205 in 7/92.							
62	**21862**	**2**	**N**	**LOST CREEK**	**EK49EK**	**10.958**	**37N**	**42E**	**35**	**Dissolved oxygen**	**Water**
				Kalispel Tribe of Indians unpublished data show 4 excursions beyond the criterion from instantaneous measurements collected in 2002 at station LOS2 (Stream crossing Hwy 20).							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
62	**8603**	**2**	**N**	**LOST CREEK**	**EK49EK**	**0**	**36N**	**43E**	**22**	**Fecal Coliform**	**Water**

1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21100330 (the one at Hwy 20) in 8/92.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lost Cr Site 1' show a geometric mean of 14 cfu/100mL from 8 samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lost Cr Site 1' show a geometric mean of 2 cfu/100mL from 1 samples collected in 2001. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lost Cr Site 1' show a geometric mean of 62 cfu/100mL from 2 samples collected in 1994.
Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lost Cr Site 1' show a geometric mean of 14 cfu/100mL from 8 samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lost Cr Site 1' show a geometric mean of 2 cfu/100mL from 1 samples collected in 2001. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lost Cr Site 1' show a geometric mean of 62 cfu/100mL from 2 samples collected in 1994.

62	**8606**	**2**	**N**	**LOST CREEK**	**EK49EK**	**2.93**	**36N**	**43E**	**17**	**Fecal Coliform**	**Water**

2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21100330 (the one on Sullivan Lake Road) in 8/77 and 7/78.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lost Cr Site 2' show a geometric mean of 9 cfu/100mL from 2 samples collected in 1999.
Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lost Cr Site 2' show a geometric mean of 9 cfu/100mL from 2 samples collected in 1999.

62	**8605**	**2**	**N**	**LOST CREEK**	**EK49EK**	**2.93**	**36N**	**43E**	**17**	**pH**	**Water**

2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21100330 (the one on Sullivan Lake Road) on 7/5/79 and 7/10/79.

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lost Cr Site 2' show no excursions beyond the criterion from measurements collected in 1999.

62	**21878**	**2**	**N**	**LOST CREEK, S.F.**	**TO92QK**	**4.625**	**36N**	**43E**	**30**	**Dissolved oxygen**	**Water**

Kalispel Tribe of Indians unpublished data show 2 excursions beyond the criterion from instantaneous measurements collected in 2002 at station SFL2 (3 mi. north of Rd. 300/2489 intersection).

62	**38278**	**2**	**N**	**LOST CREEK, S.F.**	**TO92QK**	**0**	**36N**	**43E**	**22**	**Dissolved oxygen**	**Water**

Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Lost' show 2 excursions beyond the criterion from measurements collected in 1994.

Kalispel Tribe of Indians unpublished data show no excursions beyond the criterion from instantaneous measurements collected in 2002 at station SFL1 (Stream crossing Hwy 20).

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
62	**38281**	**2**	**N**	**LOST CREEK, S.F.**	**TO92QK**	**0**	**36N**	**43E**	**22**	**Fecal Coliform**	**Water**
				Kalispel Tribe data (submitted by John Gross on 3/15/04), station SFL1 shows that 1 of 2 samples (50.0%) collected in 2001 exceed the percentile criterion. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Lost' show a geometric mean of 7 cfu/100mL from 2 samples collected in 1994. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Lost' show a geometric mean of 31 cfu/100mL from 20 samples collected in 1992.					Changed from Category 1 to Category 2 on 01/12/05 due to consolidation with listing ID 42163. -kk	
62	**38280**	**2**	**N**	**LOST CREEK, S.F.**	**TO92QK**	**0**	**36N**	**43E**	**22**	**Temperature**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Lost' show excursions beyond the criterion from measurements collected in 1992 and 1994. Colville National Forest Temperature TMDL Study unpublished data show a 7-day mean of daily maximum values of 15.2 from continuous measurements collected in 2002. Kalispel Tribe unpublished data at station SFL1 (Stream crossing Hwy 20) show the maximum 7-day mean of daily maximum values was 16.9 from continuous measurements collected in 2002. Kalispel Tribe of Indians unpublished data show no excursions beyond the criterion from instantaneous measurements collected in 2002 at station SFL1 (Stream crossing Hwy 20). Colville National Forest Temperature TMDL Study unpublished data show a 7-day mean of daily maximum values of 15.2 from continuous measurements collected in 2002. Kalispel Tribe of Indians unpublished data show no excursions beyond the criterion from instantaneous measurements collected in 2002 at station SFL1 (Stream crossing Hwy 20). Kalispel Tribe unpublished data at station SFL1 (Stream crossing Hwy 20) show the maximum 7-day mean of daily maximum values was 16.9 from continuous measurements collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Lost' show excursions beyond the criterion from measurements collected in 1992 and 1994.						
62	**23039**	**2**	**N**	**LOST LAKE**	**793LII**	**18N**	**11E**	**18**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 45 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 18 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Cascades Ecoregion.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
62	**21867**	**2**	**N**	**MILL CREEK**	**SM32JD**	**5.642**	**35N**	**44E**	**25**	**Dissolved oxygen**	**Water**
				Kalispel Tribe of Indians unpublished data shows excursions beyond the criterion from instantaneous measurements collected in 7/24/02, 8/12/02, and 9/16/02 at station MLC2 (Stream Crossing at intersection of Rd. 1200 and 165).						This segment was reassesed after being determined to be Class RAA instead of Class RA. As a result, this listing is changed from Category 1 to Category 2. -kk	
62	**21868**	**2**	**N**	**MILL CREEK**	**SM32JD**	**7.397**	**35N**	**45E**	**31**	**Dissolved oxygen**	**Water**
				Kalispel Tribe of Indians unpublished data show no excursions beyond the criterion from instantaneous measurements collected in 7/24/04, 8/12/02, and 9/16/02 at station MLC3 (Stream crossing at intersection of Rd. 1200 and 400).						This segment was reassesed after being determined to be Class RAA instead of Class RA. As a result, this listing is changed from Category 1 to Category 2. -kk	
62	**23042**	**2**	**N**	**NILE LAKE**	**354UJR**	**37N**	**42E**	**35**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 21 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.							
62	**8608**	**2**	**N**	**NOISY CREEK**	**WN27DL**	**0**	**38N**	**44E**	**18**	**Fecal Coliform**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21110305 (SWIM AREA) in 6/79. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Noisy' show a geometric mean of 3 cfu/100mL from samples collected in 1992. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Noisy' show a geometric mean of 3 cfu/100mL from samples collected in 1992.							
62	**8607**	**2**	**N**	**NOISY CREEK**	**WN27DL**	**0**	**38N**	**44E**	**18**	**pH**	**Water**
				2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21110215 on 8/19/91 and 9/18/91. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Noisy' show no excursions beyond the criterion from measurements collected in 1992.							
62	**38285**	**2**	**N**	**OUTLET CREEK**	**NM19BF**	**0**	**39N**	**44E**	**30**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Outlet Creek' show 1 excursion beyond the criterion from measurements collected in 1994.							
62	**38287**	**2**	**N**	**OUTLET CREEK**	**NM19BF**	**0**	**39N**	**44E**	**30**	**Temperature**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Outlet Creek' show 2 excursions beyond the criterion from measurements collected in 1994.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
62	**23043**	**2**	**N**	**PARKER LAKE**	**196JKB**	**34N**	**43E**	**03**		**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 24 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.							
62	**43542**	**2**	**N**	**PEND OREILLE RIVER**	**DS54SI**	**110.961**	**33N**	**44E**	**30**	**Fecal Coliform**	**Water**
				Kalispel Tribe of Indians unpublished data (submitted by John Gross 3/11/04) shows 1 excursion (109 FC/100ml) beyond the criterion from 4 measurements collected in 2001 at station WPOR.							
62	**8615**	**2**	**Y**	**PEND OREILLE RIVER**	**DS54SI**	**112.799**	**33N**	**44E**	**32**	**pH**	**Water**
				Pelletier and Coots, 1990. 2 excursions beyond the criterion out of 7 samples at RM 72 in 1988.						Multiple excursions beyond the criterion sampled within a 24-hour period are considered a single excursion per Water Quality Program Policy. This waterbody segment was listed on the 1998 303(d) list based on one exceedances. This information is insufficient to determine impairment for purposes of the 303(d) list and does not meet listing requirements in WQ Policy 1-11. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
62	**11451**	**2**	**Y**	**PEND OREILLE RIVER**	**DS54SI**	**41.694**	**39N**	**43E**	**21**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 62A090 shows that 4 of 31 samples exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 62A090 (PEND OREILLE AT METALINE FLLS) shows 3 excursions beyond the criterion out of 34 samples collected between 1993 - 2001.						An assessment of data from 1993-2001 indicates 3 exceedances out of at 34 samples does not meet Water Quality Policy 1-11 minimum requirements for placing the waterbody segement on Category 5 as an impaired water. This waterbody segment will be placed in Category 2 as a priority for monitoring so that adequate information can be obtained to determine if the waterbody is impaired.	
62	**11455**	**2**	**N**	**PEND OREILLE RIVER**	**DS54SI**	**138.456**	**31N**	**46E**	**07**	**pH**	**Water**
				Hallock (2004), Dept. of Ecology ambient station 62A150 shows that of 31 samples none exceed the criterion. Hallock (2001) Dept. of Ecology Ambient Monitoring Station 62A150 (PEND OREILLE RIVER AT NEWPORT) shows 3 excursions beyond the criterion out of 61 samples collected between 1993 - 2001.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
62	**8610**	**2**	**Y**	**PEND OREILLE RIVER**	**DS54SI**	**59.673**	**37N**	**43E**	**05**	**Temperature**	**Water**
				Pelletier and Coots, 1990. Multiple excursions beyond the criterion at RM 39 in 1988. Review of the report shows 4 excursions in 7 sampling days between 7/1988 and 11/1988.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water. The Pend Oreille River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Pend Oreille upstream. However, there currently is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into Canada's and the Kalispell Tribe jurisdictions. A TMDL is underway that will help determine natural temperature conditions. (Braley, 4/05))
62	**8612**	**2**	**Y**	**PEND OREILLE RIVER**	**DS54SI**	**71.559**	**36N**	**43E**	**10**	**Temperature**	**Water**
				Pelletier and Coots, 1990. Multiple excursions beyond the criterion at RM 48 in 1988. Review of the report shows 4 excursions in 7 sampling days between 7/1988 and 11/1988.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water. The Pend Oreille River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Pend Oreille upstream. However, there currently is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into Canada's and the Kalispell Tribe jurisdictions. A TMDL is underway that will help determine natural temperature conditions. (Braley, 4/05))

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
62	**8614**	**2**	**Y**	**PEND OREILLE RIVER**	**DS54SI**	**96.427**	**34N**	**43E**	**12**	**Temperature**	**Water**
				Pelletier and Coots, 1990. Multiple excursions beyond the criterion at RM 62 in 1988. Review of the report shows 4 excursions in 7 sampling days between 7/1988 and 11/1988.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water. The Pend Oreille River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Pend Oreille upstream. However, there currently is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into Canada's and the Kalispell Tribe jurisdictions. A TMDL is underway that will help determine natural conditions (Braley, 4/05))
62	**8616**	**2**	**Y**	**PEND OREILLE RIVER**	**DS54SI**	**112.799**	**33N**	**44E**	**32**	**Temperature**	**Water**
				Pelletier and Coots, 1990. Multiple excursions beyond the criterion at RM 72 in 1988. Review of the report shows 4 excursions in 7 sampling days between 7/1988 and 11/1988.						The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water. The Pend Oreille River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Pend Oreille upstream. However, there currently is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into Canada's and the Kalispell Tribe jurisdictions. A TMDL is underway that will help determine natural conditions (Braley, 4/05))

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
62	**23044**	**2**	**N**	**POWER LAKE**	**211KJH**	**32N**	**43E**	**27**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 17 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.						
62	**38292**	**2**	**N**	**RAINY CREEK**	**KZ22KD**	**0**	**39N**	**44E**	**25**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Rainy Creek' show 1 excursion beyond the criterion from measurements collected in 1996.						
62	**21874**	**2**	**N**	**RUBY CREEK**	**MY62NH**	**9.97**	**35N**	**43E**	**08**	**Dissolved oxygen**	**Water**
				Kalispel Tribe of Indians unpublished data show 2 excursions beyond the criterion from instantaneous measurements collected in 2002 at station RUB2 (Intersection of Rd. 423 and 2489).						
62	**8618**	**2**	**N**	**SALMO RIVER, S.F.**	**YS43PS**	**28.598**	**40N**	**45E**	**13**	**pH**	**Water**
				1 excursion beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 211102 on 8/8/78. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK S FK Salmo River' show no excursions beyond the criterion from measurements collected in 1992 and 1995. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'S FK Salmo Cabin' show no excursions beyond the criterion from measurements collected in 1992.						
62	**23046**	**2**	**N**	**SHEARER LAKE**	**720HVE**	**32N**	**46E**	**31**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.						
62	**23047**	**2**	**N**	**SKOOKUM (SOUTH) LAKE**	**670UBN**	**33N**	**44E**	**01**	**Total Phosphorus**	**Water**
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 17 ug/L derived from the reported Carlson's Trophic State Index value which exceeds the water quality standards nutrient criterion for the Northern Rockies Ecoregion.						
62	**43541**	**2**	**N**	**SKOOKUM CREEK**	**PT25LK**	**5.418**	**33N**	**44E**	**33**	**Fecal Coliform**	**Water**
				Kalispel Tribe of Indians unpublished data (submitted by John Gross 3/11/04) shows 1 excursion (1120 FC/100ml) beyond the criterion from 4 measurements collected in 2001 at station FCSKO2.						
62	**8619**	**2**	**N**	**SLATE CREEK**	**HD76QQ**	**2.596**	**40N**	**44E**	**30**	**pH**	**Water**
				2 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21110221 on 11/20/89 and 7/24/90. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Slate' show no excursions beyond the criterion from measurements collected in 1992 and 1997.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
62	**38316**	**2**	**N**	**SLUMBER CREEK**	**MM25SP**	**0**	**40N**	**44E**	**30**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Slumber' show 1 excursion beyond the criterion from measurements collected in 1997.							
62	**38320**	**2**	**N**	**SMALL CREEK**	**UN55BJ**	**8.529**	**33N**	**43E**	**29**	**pH**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Small' show 1 excursion beyond the criterion from 5 measurements collected in 1992. Kalispel Tribe of Indians unpublished data show no excursions beyond the criterion from instantaneous measurements collected in 2002 at station SMA2 (Stream crossing Rd. 2239).							
62	**38324**	**2**	**N**	**SMALL CREEK, E.F.**	**NT20LE**	**1.684**	**33N**	**43E**	**22**	**Temperature**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E FK Small' show 1 excursion beyond the criterion from measurements collected in 1992.							
62	**8620**	**2**	**N**	**SULLIVAN CREEK**	**SN79HL**	**27.024**	**39N**	**45E**	**10**	**Dissolved oxygen**	**Water**
				3 excursions beyond the criterion sampled by Colville National Forest (data submitted by Curry Jones of EPA on 11/22/95) at station 21110212 on 8/17/71, 8/19/71 and 7/19/93.							
62	**21883**	**2**	**N**	**TACOMA CREEK**	**OE10VI**	**19.944**	**34N**	**43E**	**06**	**Dissolved oxygen**	**Water**
				Kalispel Tribe of Indians unpublished data show 1 excursion beyond the criterion from instantaneous measurements collected in 2002 at station TAC3 (Stream crossing Rd. 9521).							
62	**18865**	**2**	**N**	**TACOMA CREEK**	**OE10VI**	**12.22**	**34N**	**43E**	**22**	**pH**	**Water**
				Kalispel Tribe of Indians unpublished data show 1 excursion beyond the criterion from instantaneous measurements collected on 13 Nov 2002 at station TAC1 (First stream crossing Rd. 2389). Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tacoma Site 1' show no excursions beyond the criterion from measurements collected in 1992-1998.							
62	**38347**	**2**	**N**	**TACOMA CREEK, N.F.**	**KU19HM**	**2.054**	**34N**	**43E**	**34**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N&S FK Tacoma Site 2' show 1 excursion beyond the criterion from measurements collected in 1996.							
62	**38351**	**2**	**N**	**THREEMILE CREEK**	**YP07HV**	**2.554**	**39N**	**43E**	**12**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Threemile' show 1 excursions beyond the criterion from measurements collected in 1995.							

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis		Remarks	
62	**38370**	**2**	**N**	**WINCHESTER CREEK**	**HN21PO 8.818 32N 43E 06**	**Dissolved oxygen**	**Water**
				Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Winchester' show excursions beyond the criterion from measurements collected in 1993 and 1994.			