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DEPARTMENT OF
ECOLOGY

River and Stream Ambient Monitoring Report for Wateryear 1993

Final Report

September 1994
Publication No. 94-158
Printed on Recycled Paper

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River and Stream Ambient Monitoring Report for Wateryear 1993

by
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and
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and Laboratory Services Program
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ACKNOWLEDGMENTS

Many people contributed to the success of the Wateryear 1993 program. Special thanks to Bill Ehinger and Rob Plotnikoff, who helped collect samples. Thanks for the long hours behind the wheel and a dedication to get the job done.

Kitty Bickle, Pam Covey, Michelle Elling, Nancy Jensen, Aileen Smith, Craig Smith, Dave Thomson, Cyma Tupas, and Will White at Ecology's Manchester Environmental Laboratory provided laboratory support. Thanks for coping with the endless supply of samples.

Thanks to Ken Dzinbal, Chris Maynard, and Dale Davis, who reviewed the manuscript and Kim Douglas, who prepared the final document.

ABSTRACT

The Washington State Department of Ecology collected monthly water quality information at 79 river and stream monitoring stations during Wateryear (WY) 1993 (October 1, 1992, through September 30, 1993). The primary goals of this ongoing monitoring program are to characterize the rivers and streams of Washington State and to track changes in water quality. Water quality for WY 1993 was generally good. Fecal coliform bacteria was the most frequently violated standard based on individual samples. Excluding floating stations, 77 individual samples exceeded the "10 percent not to exceed" criteria out of about 750 samples collected; 16 of 66 stations exceeded standards. Fifteen of the 16 stations were west of the Cascades and 13 were stations on streams that drain to Puget Sound. Temperature standards were violated 42 times at 21 stations; all but one station was east of the Cascades. Dissolved oxygen and pH standards were violated 15 and 22 times at 5 and 12 stations, respectively. Stream flows in WY 1993 at the time of sampling were much lower than usual during most months. Low flows may have been at least partially responsible for the relatively low number of fecal coliform bacteria standards violations in WY 1993.

INTRODUCTION

The Washington State Department of Ecology (Ecology) has operated a long-term Ambient Water Quality Monitoring Program since 1970. The program consists of monthly water quality monitoring for conventional parameters at 79 stations on rivers and streams within Washington State. The primary goals of this program are to characterize stream water quality and to evaluate spatial and temporal changes in water quality (trends). Within Ecology, the data generated by the River and Stream Ambient Monitoring Program are used to determine if designated uses are supported (e.g., Ecology, 1992), to support wasteload allocation models, to develop water quality based permits, to prepare 305(b) and other management reports, and to provide water quality information necessary for Centennial Clean Water Fund and other grant awards.

This purpose of this report is to

- describe the Wateryear 1993 (WY 1993) monitoring program,
- provide a brief overview of water quality in Washington State in WY 1993,
- discuss data quality, and
- present results.

More detailed analyses and interpretations of ambient monitoring data are reported elsewhere: The Ambient Monitoring Section (AMS) analyzes results at specific stations in response to requests by clients. These analyses are typically reported as technical memoranda (e.g., Hallock, 1991). Some analyses are conducted by other programs, for example, Ecology's Water Quality Program applies its own data reduction procedures prior to developing the biannual 305(b) report. Finally, the AMS analyzes data from four hydrologic basins annually in accordance with the basin approach to water quality management which Ecology has recently adopted (Wrye, 1993).

The basin approach consists of a five-year cycle of scoping, data collection, data analysis, planning, and implementation of plans in 20 hydrologic basins statewide. In any given year, each of the above activities will be underway in four basins, one in each Ecology region. Basins scheduled for data analysis in 1994, the first full year of this approach, are mid Columbia, upper Yakima, Kitsap, and lower Columbia. Basins with focused data collection (monitoring) efforts in 1994 are Spokane, lower Yakima, Cedar/Green, and eastern Olympics.

METHODS

Sampling Network

The ambient monitoring network in WY 1993 consisted of monthly water collection at three types of stations: 1) core/benchmark, 2) rotating, and 3) floating. Core and benchmark stations are monitored every year to track water quality changes over time (trends) and to assess inter-annual variability. Core stations are located near the mouths of major rivers, below major population centers, and where major streams enter the state. Benchmark stations are located upstream from most anthropogenic sources of water quality problems and are intended to monitor background conditions. Rotating stations are monitored for one year in a three-year cycle to collect current water quality information, particularly in support of Ecology's waste discharge permitting process. Floating stations are established to address site specific water quality concerns and are monitored for one year only. Because floating stations usually target known problems and do not necessarily reflect *ambient* conditions, results from these stations are generally not included in the Results and Discussion section of this report. However, the raw data from floating stations are included in the appendices.

The specific locations for ambient stations monitored during WY 1993 are presented in Figure 1 and Table 1. Appendix A lists current and historical monitoring locations and the years they were monitored by Ecology and its predecessor agencies. Historical data for any of these stations are available from Ecology's Ambient Monitoring Section on request.

Sample Collection and Analysis

The majority of the water samples were collected as single surface grab samples from highway bridges using a stainless steel sampler similar to the dissolved oxygen (D.O.) sampler design presented in Figure 4500-O:1 of the 18th Edition of Standard Methods (APHA, 1992). Water samples for fecal coliform bacteria, total suspended solids (TSS), and metals analyses were collected as discrete samples directly in the sample containers. Samples for fecal coliform bacteria and metals determination were collected in a flow orienting sampler specifically designed to hold the sample bottle. The TSS bottle was attached as a passenger to the D.O. sampler. All water samples were collected approximately 15 cm below the water surface. Twelve water quality constituents were monitored at all stations in WY 1993 (Table 2). Several metals and hardness were monitored at the Columbia River at Northport (61A070) and Silver Creek near Brennan (01B050). Chlorophyll *a*, biological oxygen demand, and total nitrogen were also monitored at specific floating stations.

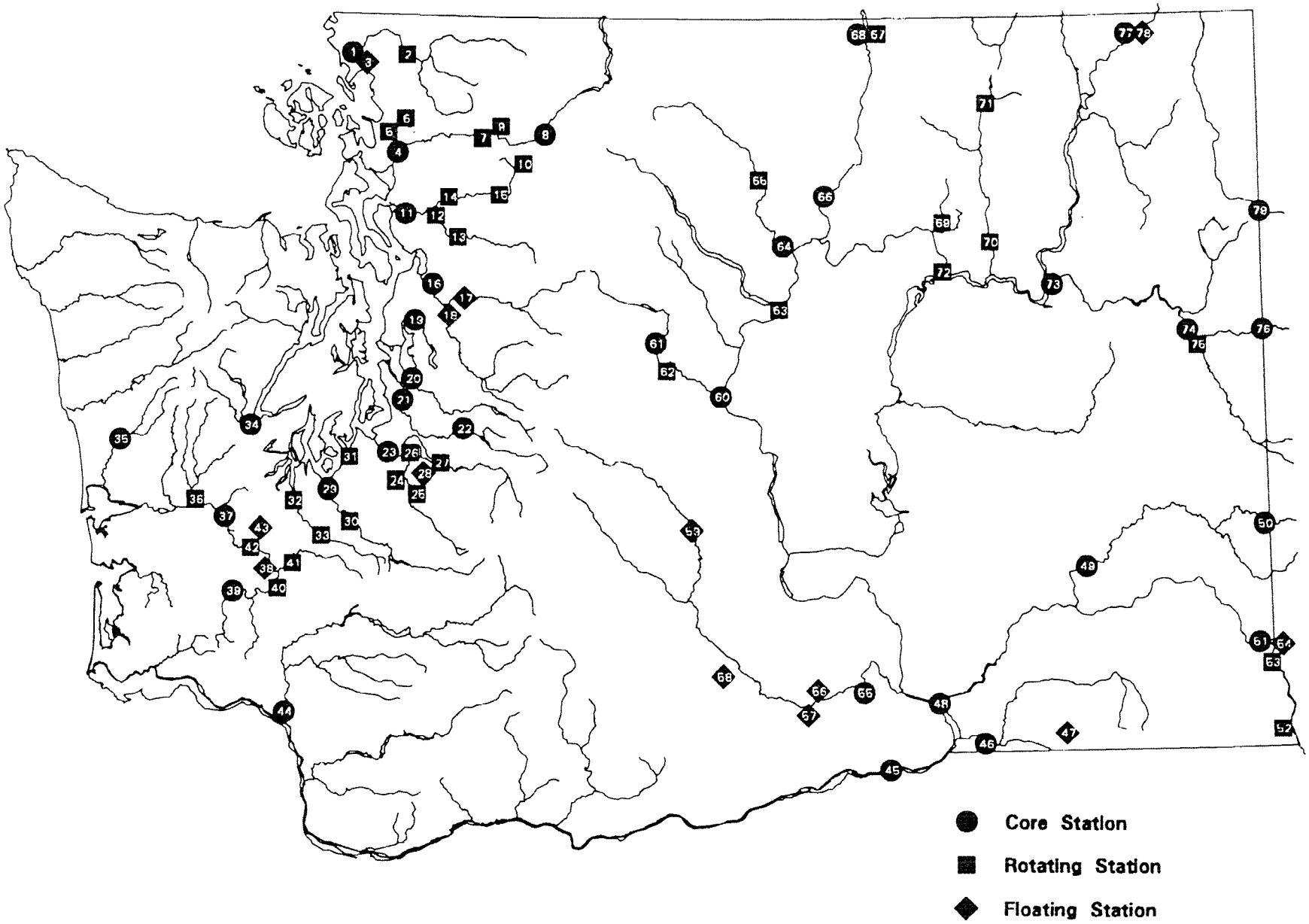


Figure 1. Ecology's river and stream ambient monitoring stations for Wateryear 1993.

Table 1. Ecology's river and stream ambient monitoring stations for Wateryear 1993.

Map	Station	Station Name
1	01A050	Nooksack River at Brennan
2	01A120	Nooksack River at No Cedarville
3	01B050	Silver Creek near Brennan
4	03A060	Skagit River near Mount Vernon
5	03B050	Samish River near Burlington
6	03C060	Friday Creek below Hatchery
7	04A060	Skagit River at Concrete
8	04A100	Skagit River at Marblemount
9	04B070	Baker River at Concrete
10	04C070	Sauk River near Rockport
11	05A070	Stillaguamish River near Silvana
12	05A090	SF Stillaguamish at Arlington
13	05A110	SF Stilly near Granite Falls
14	05B070	NF Stillaguamish at Cicero
15	05B110	NF Stilly near Darrington
16	07A090	Snohomish River at Snohomish
17	07C070	Skykomish River at Monroe
18	07D050	Snoqualmie River near Monroe
19	08B070	Sammamish River at Bothell
20	08C070	Cedar River at Logan St/Renton
21	09A080	Green River at Tukwila
22	09A190	Green River at Kanaskat
23	10A070	Puyallup River at Meridian St
24	10A110	Puyallup River at Orting
25	10B070	Carbon River near Orting
26	10C070	White River at Sumner
27	10C130	White River at Buckley
28	10F090	South Prairie Creek near S. Prairie
29	11A070	Nisqually River at Nisqually
30	11A080	Nisqually River at McKenna
31	12A070	Chambers Creek near Steilacoom
32	13A060	Deschutes River at E St Bridge
33	13A150	Deschutes River near Rainier
34	16A070	Skokomish River near Potlatch
35	22A070	Humptulips River near Humptulips
36	22G070	Satsop River near Satsop
37	23A070	Chehalis River at Porter
38	23A120	Chehalis River at Centralia
39	23A160	Chehalis River at Dryad
40	23B050	Newaukum at Mouth

Table 1. Continued.

Map	Station	Station Name
41	23D055	Skookumchuck River at Centralia
42	23E070	Black River at Moon Road Bridge
43	23F070	Mill Creek near Bordeaux
44	26B070	Cowlitz River at Kelso
45	31A070	Columbia River at Umatilla
46	32A070	Walla Walla River near Touchet
47	32C110	Mill Creek at Tausick Way
48	33A050	Snake River near Pasco
49	34A070	Palouse River at Hooper
50	34A170	Palouse River at Palouse
51	35A150	Snake River at Interstate Br
52	35C070	Grande Ronde River near Anatone
53	35D070	Asotin Creek at Asotin
54	35E070	Clearwater River at US12/95
55	37A090	Yakima River at Kiona
56	37A095	Yakima 2 mi below Prosser
57	37A100	Yakima below Prosser
58	37A170	Yakima River near Toppenish
59	39C070	Wilson Creek at Thrall
60	45A070	Wenatchee River at Wenatchee
61	45A110	Wenatchee River near Leavenworth
62	45B070	Icicle Creek near Leavenworth
63	47B070	Columbia River at Chelan Station
64	48A070	Methow River near Pateros
65	48A140	Methow River at Twisp
66	49A070	Okanogan River at Malott
67	49A190	Okanogan River at Oroville
68	49B070	Similkameen River at Oroville
69	51A070	Nespelem River at Nespelem
70	52A070	Sanpoil River at Keller
71	52A190	Sanpoil River above Republic
72	53A070	Columbia River at Grand Coulee
73	54A050	Spokane River at Mouth
74	54A120	Spokane River at Riverside State Pk
75	56A070	Hangman Creek at Mouth
76	57A150	Spokane River at Stateline Br
77	61A070	Columbia River at Northport (USGS)
78	61B070	Deep Creek near Mouth
79	62A150	Pend Oreille River at Newport

Table 2. Water quality constituents monitored monthly in Wateryear 1993 as part of Ecology's River and Stream Ambient Monitoring Program.

Standard constituents monitored at all stations:

Temperature	Specific conductivity	Total phosphorus
pH	Turbidity	Dissolved ortho-phosphate
Dissolved nitrate	Total suspended solids	Ammonia
Dissolved oxygen	Fecal coliform bacteria	Nitrate + Nitrite

Additional constituents monitored at specific stations: (All metals were measured as "total recoverable" except mercury, which was measured as total mercury.)

Columbia River (61A070)	Silver Creek (01B050)	Snake River (35A150)	Clearwater R (35E070)	Yakima R (37A100)
Total Hardness	Total Hardness	Total Nitrogen	Total Nitrogen	Total Nitrogen
Cadmium	Nickel	Chlorophyll *a*[a]	Chlorophyll *a*[a]	
Copper	Copper	BOD[a]	BOD[a]	
Zinc	Zinc			
Mercury				
Chromium				
Lead				

[a]June through September only.

Concurrent with collection of water samples, on-site measurements were taken for barometric pressure, time of day, *in-situ* temperature, pH, conductivity and, if required, stage height (for flow determination by USGS).

All water samples collected in WY 1993 were submitted to Ecology's Manchester Environmental Laboratory (Manchester) for analysis. Laboratory methods, detection limits, holding times, and other information for each of the above parameters is presented in Table 3. Specific details on methods are available from the references cited in Table 3 and in Manchester's Laboratory User's Manual (Ecology, 1994).

Data Management

Data generated by the River and Stream Ambient Monitoring Program were entered into two independent computer systems by monitoring staff and laboratory personnel. Monitoring staff entered field data (temperature, dissolved oxygen, barometric pressure, pH, conductivity, and discharge) directly into the ambient monitoring

Table 3. Analytical procedures used in WY 1993 in Ecology's River and Stream Ambient Monitoring Program. (NA = Not applicable.)

Parameter	Volume Req'd	Field Prepare/ Preserve[a]	Analytical Method	Limit of Detection	Holding Time	Field/ Manchester Lab
Oxygen	NA	NA	SM[b] 4500-OC	0 mg/L	72 hours	Field
Temperature	NA	NA	Thermistor	NA (°C)	NA	Field
Conductivity	NA	NA	SM 2510-B	NA (μmho)	NA	Field
pH	NA	NA	SM 4500-H	NA (Std Units)	NA	Field
Total Phosphorus	125 mL	H_2SO_4 to pH<2	SM 4500-PF	10 μg/L	28 days	Lab
Ortho-Phosphorus	125 mL	Filter	SM 4500-PF	10 μg/L	48 hours	Lab
Total Nitrogen	125 mL	H_2SO_4 to pH<2	Valderrama 1981	25 μg/L	28 days	Lab
Ammonia Nitrogen	125 mL	H_2SO_4 to pH<2	SM 4500D	10 μg/L	28 days	Lab
Nitrate + Nitrite Nitrogen	125 mL	H_2SO_4 to pH<2	SM 4500F	10 μg/L	28 days	Lab
Nitrite Nitrogen	125 mL	H_2SO_4 to pH<2	SM 4500B	10 μg/L	48 hours	Lab
Total Suspended Solids	1000 mL		SM 2540D,E	1 mg/L	7 days	Lab

Table 3. Continued

Parameter	Volume Req'd	Field Prepare/ Preserve[a]	Analytical Method	Limit of Detection	Holding Time	Field/ Manchester Lab
Total Hardness	100 mL	HNO_3 to pH<2	SM 2340C	~1 mg/L	6 months	Lab
Turbidity	500 mL		SM 2130	0.5 NTU	48 hours	Lab
Fecal Coliform Bacteria	250 mL		SM 9222D	1 colony/ 100 mL	30 hours	Lab
Chlorophyll *a*	1 L		SM 10200H(3)	0.05 μg/L	24 hours	Lab
Biological Oxygen Demand (BOD)	4 L		SM 5210B	2 mg/L	48 hours	Lab
Mercury (Cold Vapor AA)	1 L		EPA[c] 245.1	0.05 μg/L[d]	28 days	Lab
Cadmium (total recoverable/AA)	1 L		EPA 213.2	0.1 μg/L	6 months	Lab
Chromium (total recoverable/AA)	1 L		EPA 218.2	0.2 μg/L	6 months	Lab
Lead (total recoverable/AA)	1 L		EPA 239.2	1 μg/L	6 months	Lab
Zinc (total recoverable/ICP)	1 L		EPA 200.7	4 μg/L	6 months	Lab
Copper (total recoverable/ICP)	1 L		EPA 200.7	3 μg/L	6 months	Lab

[a] All lab samples are kept on ice or stored at 4°C prior to analysis
[b] Standard Methods (APHA, 1992).
[c] EPA, 1983.
[d] Detection limits for metals vary. Values shown are approximate.

database and verified the data manually for transcription errors. Laboratory data were entered into the laboratory computer and verified manually by laboratory personnel for transcription errors. Laboratory data were then downloaded via modem and combined with field data in the ambient monitoring database management system. All laboratory data were screened through a series of quality control (QC) filters (see the Quality Assurance section). Data exceeding QC standards were evaluated manually. Data of acceptable quality were uploaded to PCSTORET (a micro-computer analog to STORET) and EPA's STORET database.

Quality Assurance

Manchester Laboratory's Quality Assurance (QA) Program includes the use of quality control charts, check standards, in-house matrix spikes and laboratory blanks, along with quarterly performance evaluation samples. For a more complete discussion of laboratory quality assurance, see Manchester's Quality Assurance Manual (Ecology, 1988) and Laboratory User's Manual (Ecology, 1994).

The quality assurance (QA) program for field sampling consisted of three parts: 1) adherence to a procedures manual for sample/data collection and periodic evaluation of sampling personnel, 2) instrument calibration methods and schedules, and 3) the collection of a field quality control (QC) sample each day of the sampling run. Our QA program is described in detail in Ehinger (1994; in prep).

The field QC sample was generally analyzed for all parameters. QC samples were collected as one of the following three types:

- Field Duplicate - The entire sampling procedure is repeated after processing the first sample. These are essentially sequential samples, separated by 15 to 20 minutes. Most QC samples were field duplicates

- Field Blank - Deionized water is processed in the field and submitted to the laboratory. Twelve QC samples were submitted as field blanks, three from each run.

- Field Split - Samples are collected, poured into two containers, and submitted to the laboratory as two independent samples. To ensure enough sample is collected for sample splitting, two sampling buckets are attached in parallel. All samples for nutrient analyses are split from one sampling bucket and general chemistry analyses from the other. Fecal coliform and TSS samples, however, are not true split samples because they are collected directly in the sample bottle. These samples are collected by lowering two sample bottles side-by-side. Eight QC samples were field splits.

QC samples were submitted semi-blind to the laboratory (they were identified as QC samples, but sample type (duplicate, blank, or split) and station were not identified).

Field QC data were used in conjunction with the laboratory QC data to ascertain overall data quality and to partition sources of variance.

A two-tiered system was used to evaluate laboratory data quality. The first tier consisted of five automated checks of, for example, holding time, variability in field duplicates, and reasonableness of the result. Results exceeding pre-set limits were flagged. The second tier QC evaluation was a manual review of the data flagged in the first tier. Data were then coded from one through nine (one = data meets all QA requirements, nine = the data are unusable). Data with quality codes greater than four are generally not distributed.

RESULTS AND DISCUSSION

The primary purpose of this report is to present the results of Ecology's river and stream monitoring in WY 1993. Appendix B contains results for each station monitored in WY 1993. Appendix C contains a summary of data collected during the past six years by season for each station. Raw data are available in computer formats on request.

Some general observations are appropriate for this report, however. The next two sections 1) discuss general water quality, particularly with respect to Washington's water quality standards (Washington Administrative Code, Chapter 173-201A), and 2) compare discharge in WY 1993 to historical discharge data. Floating stations are excluded from the following analyses because they do not necessarily reflect ambient conditions.

General Water Quality in Wateryear 1993

Most temperature, oxygen, and pH violations occurred in eastern Washington (Table 4). Statewide, twenty-one stations (32 percent of all stations) exceeded the temperature criteria. Twenty of these stations were in eastern Washington (71 percent of eastern Washington stations exceeded standards) (Figure 2). Only eight stations in eastern Washington did not exceed the temperature criteria. However, the standards specify that the criteria shall not be exceeded *due to human activities*. Many of the temperature exceedances may, in fact, be natural, particularly those at lake-outlet stations (for example, the Okanogan River at Oroville). Oxygen and pH standards violations were also, with one exception each, exclusive to eastern Washington. Temperature criteria, in particular, are probably too low to reflect generally attainable conditions on the east side of the state; however, riparian clearing and nutrient enrichment has undoubtedly affected temperature, pH, and dissolved oxygen at some of the monitored stations. Hangman Creek, for example, is probably a good

Table 4. Distribution of water quality standards violations for temperature, dissolved oxygen, pH, and fecal coliform bacteria and high values of total phosphorus (TP) and total suspended solids (TSS) in various geographic regions of Washington in WY 1993. (Floating stations are not included.)

Region	No. of Stations or Samples[a]	Parameter					
		Temp	Oxygen	pH	FC[b]	TP[c]	TSS[d]
BY STATION							
Ecology Region							
Central	13	8	2	4	0	1	1
Eastern	15	12	2	7	1	9	7
Northwest	19	1	1	1	8	5	12
Southwest	19	0	0	0	7	10	11
East of Cascades	28	20	4	11	1	10	8
West of Cascades	38	1	1	1	15	15	23
Puget Sound Basin	30	1	1	1	13	12	20
All stations	66	21	5	12	16	25	31
BY SAMPLE							
Ecology Region							
Central	156	15	5	8	0	12	1
Eastern	180	24	3	13	9	31	13
Northwest	228	3	7	1	35	5	28
Southwest	228	0	0	0	33	27	35
East of Cascades	336	39	8	21	9	43	14
West of Cascades	456	3	7	1	68	32	63
Inside Puget Sound	360	3	7	1	59	29	59
All stations	792	42	15	22	77	75	77

[a] Number of samples assumes 12 samples per station. Actual number may be less due to equipment malfunction, loss of sample, etc.

[b] Individual results greater than the "10 percent not to exceed" criteria are listed under "By Sample". Stations where more than 10 percent of the samples exceeded the criteria are listed under "By Station". (The 77 individual samples that exceeded the criteria came from 25 different stations).

[c] There are no state water quality standards for total phosphorus. The number shown is the number of results (or stations) that exceeded the 90th percentile of all results (0.080 mg/L).

[d] There are no state water quality standards for total suspended solids. The number shown is the number of results (or stations) that exceeded the 90th percentile of all results (73.2 mg/L).

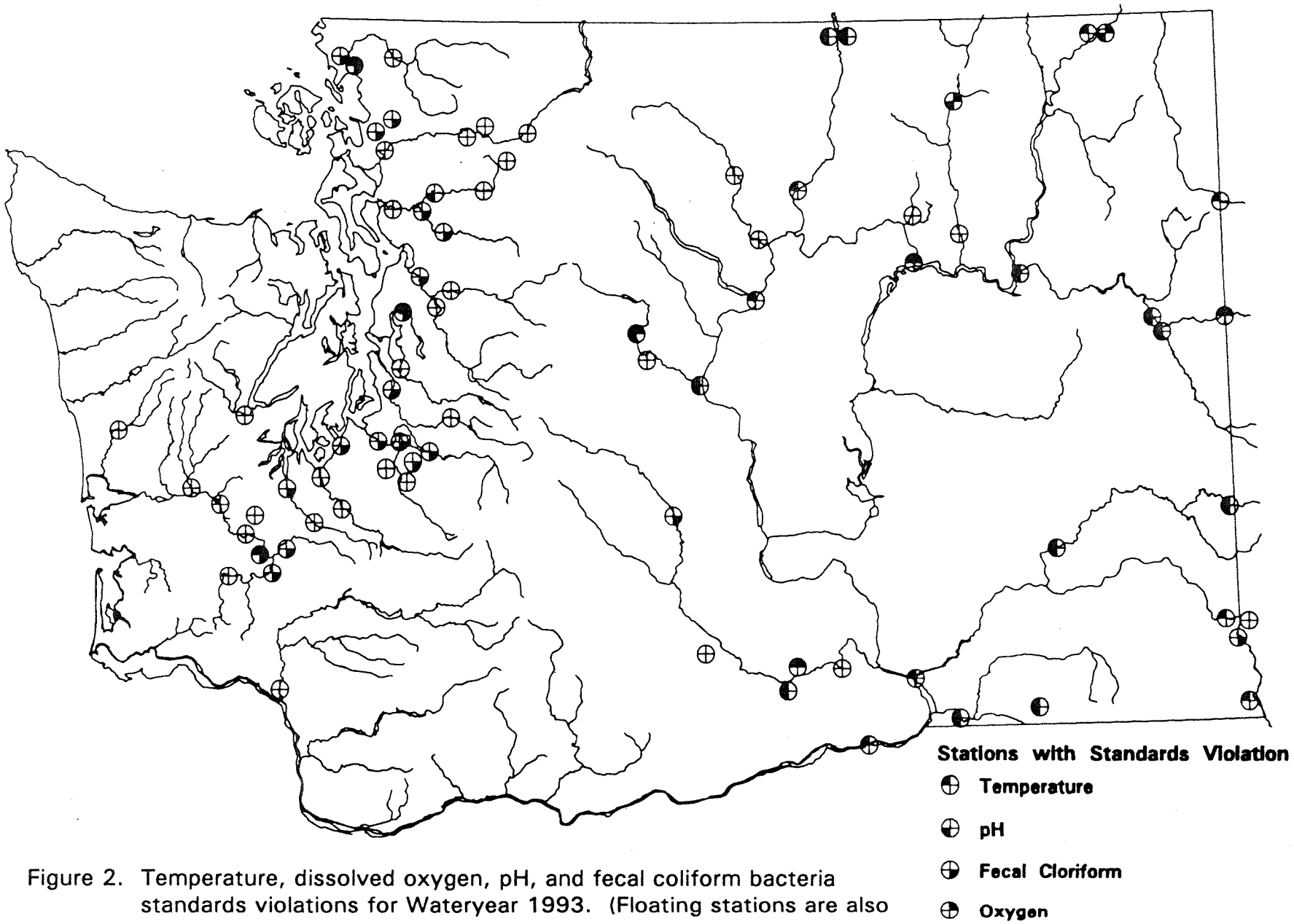


Figure 2. Temperature, dissolved oxygen, pH, and fecal coliform bacteria standards violations for Wateryear 1993. (Floating stations are also shown.)

candidate for mitigation to improve water quality, based on the number and the potential sources of exceedances of water quality standards for temperature, pH, and oxygen (Table 5).

Seventy-seven out of 792 samples collected state-wide exceeded the "10 percent not to exceed" criteria for fecal coliform bacteria (Table 4). Sixteen stations (24 percent of all stations) exceeded fecal coliform bacteria standards (that is, more than 10 percent of the samples exceeded the criteria). Fifteen of these were in western Washington (39 percent of western Washington stations) and 13 in the Puget Sound drainage basin (43 percent of Puget Sound stations). More than 50 percent of samples exceeded criteria at two stations, the Sammamish River, and the Puyallup River (Table 5). Six stations exceeded the geometric mean criteria (Table 5). The only eastern Washington station exceeding fecal coliform standards was Asotin Creek.

In WY 1993, no station was in violation of all four of the water quality standards which our program routinely monitors. Three of the four standards were violated at two stations: the Sammamish River at Bothell and the Wenatchee River near Leavenworth (Figure 2). Both stations are class AA and both are lake outlets. The high temperature and high pH are likely due to lake influences.

Water quality was not evaluated against the turbidity standard, because the standard requires a knowledge of background turbidity. However, the maximum turbidity (and maximum total suspended solids (TSS)) measured in WY 1993 at each station is indicated in Figure 3. Most stations with high turbidity were in the Puget Sound basin and in the southeast part of the state. However, of the 10 highest turbidity measurements in WY 1993, six were from streams that were probably influenced by glacial melt water (Puyallup, Cowlitz, and White Rivers). The remaining four highest turbidity measurements were from the Samish River in western Washington, and from Asotin Creek, the Palouse River, and Hangman Creek in eastern Washington.

Although there are no state water quality standards for total phosphorus or suspended solids, these parameters are important to stream ecology. Streams with relatively high values were determined by comparing concentrations to a criteria defined as the 90th percentile of all samples collected in WY 1993. The 90th percentiles were 0.080 mg/L for total phosphorus and 73.2 mg/L for TSS. These concentrations are similar to effects levels reported in EPA (1986) for both parameters.

Stations exceeding the 90th percentiles for both total phosphorus and suspended solids were evenly distributed between eastern and western Washington (Table 4), although stations in western Washington tended to have higher maximum TSS concentrations, possibly due to glacial meltwater (Figure 3). In the Central Region, only the Yakima River at Kiona had high total phosphorus (12 of 12 samples exceeded the 90th percentile) and high suspended solids. In western Washington, the Southwest Region tended to have stations with higher total phosphorus, but stations with high suspended solids were found in both regions.

Table 5. Violations of Water Quality Standards for Wateryear 1993 River and Stream Ambient Monitoring Stations. For each variable, the total number of samples, the number of samples that exceeded criteria, and the percent of samples exceeding criteria are shown. (For fecal coliform bacteria, standards are not violated unless the "Pct" column is greater than 10.) The geometric mean (colonies/100 mL) is also shown for stations which exceeded the geometric mean fecal coliform bacteria standard.

CENTRAL REGION

STATION NUMBER	STATION NAME	CLASS	TEMPERATURE No	TEMPERATURE Exceed	TEMPERATURE Pct	OXYGEN No	OXYGEN Exceed	OXYGEN Pct	pH No	pH Exceed	pH Pct	FECAL COLIFORM No	FECAL COLIFORM Exceed	FECAL COLIFORM Pct	Geo. Mean
31A070	Columbia R @ Umatilla	A	12	2	17	12			12			12			
37A090	Yakima R @ Kiona	A	12[a]			12			12			11			
45A070	Wenatchee R @ Wenatchee	A	9	1	11	10			9	3	33	9			
45A110	Wenatchee R nr Leavenworth	AA	12	1	8	12	1	8	11	1	9	11			
45B070	Icicle Cr nr Leavenworth	A	12			12			11			12			
47B070	Columbia R @ Chelan Station	A	12	1	8	12			12			12			
48A070	Methow R nr Pateros	A	11			11			11			11			
48A140	Methow R @ Twisp	A	12			12			12			12			
49A070	Okanogan R @ Malott	A	10	2	20	10			10			10			
49A190	Okanogan R @ Oroville	A	12	4	33	11			12	3	25	12			
49B070	Similkameen R @ Oroville	A	10	1	10	10			10	1	10	10			
51A070	Nespelem R @ Nespelem	A	12			12			12			12			
53A070	Columbia R @ Grand Coulee	AA	12	3	25	12	4	33	12			12			
Floating Stations															
37A095	Yakima 2 mi below Prosser	A	9[a]	1	11	10	1	10	9			9			
37A100	Yakima below Prosser	A	12[a]	1	8	12			12	1	8	11			
37A170	Yakima R nr Toppenish	A	11[a]			11			11			10			
39C070	Wilson Cr @ Thrall	A	12			12			12			11	4	36	

[a]The lower Yakima has a special temperature criteria of 21 o C. This criteria is reflected in the exceedances above.

EASTERN REGION

STATION NUMBER	STATION NAME	CLASS	TEMPERATURE No	TEMPERATURE Exceed	TEMPERATURE Pct	OXYGEN No	OXYGEN Exceed	OXYGEN Pct	pH No	pH Exceed	pH Pct	FECAL COLIFORM No	FECAL COLIFORM Exceed	FECAL COLIFORM Pct	Geo. Mean
32A070	Walla Walla R nr Touchet	B	11	2	18	11			11	1	9	11	1	9	
33A050	Snake R nr Pasco	A	12	2	17	12			12			12			
34A070	Palouse R @ Hooper	B	11	1	9	11			11	2	18	11			
34A170	Palouse R @ Palouse	A	11	2	18	11			11	2	18	11	1	9	
35A150	Snake R @ Interstate Br	A	12	2	17	12			12			12			
35C070	Grande Ronde R nr Anatone	A	12	1	8	12			12			12			
35D070	Asotin Cr @ Asotin	A	12			12			12			12	3	25	101
52A070	Sanpoil R @ Keller	AA	11			11			11			11	1	9	
52A190	Sanpoil R abv Republic	AA	12			12	1	8	12	1	8	12	1	8	
54A050	Spokane R @ Mouth	A	12	3	25	12			12	2	17	12			
54A120	Spokane R @ Riverside SP	A	12	1	8	12			12	1	8	12			
56A070	Hangman Cr @ Mouth	A	11	4	36	11			11	4	36	11	1	9	
57A150	Spokane R @ Stateline Br	A	12	2	17	12	2	17	12			12			
61A070	Columbia R @ Northport	AA	12	2	17	12			12			12	1	8	
62A150	Pend Oreille R @ Newport	A	10	2	20	10			10			10			
Floating Stations															
32C110	Mill Cr @ Tausick Way	A	12	3	25	12			12	6	50	12	1	8	
35E070	Clearwater R @ US12/95	A	12			12			12			12	1	8	
61B070	Deep Ck nr Mouth	AA	11			11	2	18	11	7	64	11			

NORTHWESTERN REGION

STATION NUMBER	STATION NAME	CLASS	TEMPERATURE No	TEMPERATURE Exceed	TEMPERATURE Pct	OXYGEN No	OXYGEN Exceed	OXYGEN Pct	pH No	pH Exceed	pH Pct	FECAL COLIFORM No	FECAL COLIFORM Exceed	FECAL COLIFORM Pct	Geo. Mean
01A050	Nooksack R @ Brennan	A	11			11			11			11	2	18	
01A120	Nooksack R @ No Cedarville	A	12			12			12			11			
03A060	Skagit R nr Mount Vernon	A	12			12			12			12			
03B050	Samish R nr Burlington	A	12			12			12			12	5	42	133
03C060	Friday Cr Blw Hatchery	A	12			12			12			12	3	25	
04A060	Skagit R @ Concrete	AA	12			12			12			11			
04A100	Skagit R @ Marblemount	AA	12			12			12			11			
04B070	Baker R @ Concrete	AA	12			12			12			11			
04C070	Sauk R nr Rockport	AA	12			12			12			11			
05A070	Stillaguamish R nr Silvana	A	12			12			12			12	1	8	
05A090	SF Stillaguamish @ Arlington	A	12			12			12			12	3	25	
05A110	SF Stilly nr Granite Falls	AA	12			12			12			12	2	17	
05B070	NF Stillaguamish @ Cicero	A	12			12			12	1	8	12	1	8	
05B110	NF Stilly nr Darrington	A	12			12			12			12	1	8	
07A090	Snohomish R @ Snohomish	A	12			12			12			12	2	17	
08B070	Sammamish R @ Bothell	AA	12	3	25	12	7	58	12			12	10	83	284
08C070	Cedar R @ Logan St/Renton	A	12			12			12			12	1	8	
09A080	Green R @ Tukwila	A	12			12			12			12	3	25	09A190
Green R @ Kanaskat		AA	12		12			12			12	1	8		
Floating Stations															
01B050	Silver Cr nr Brennan	A	11	1	9	11	6	55	11			11	4	36	136
07C070	Skykomish R @ Monroe	A	11			11			11			11	1	9	
07D050	Snoqualmie R nr Monroe	A	12			12			12			12	1	8	

SOUTHWESTERN REGION

STATION NUMBER	STATION NAME	CLASS	TEMPERATURE No	TEMPERATURE Exceed	TEMPERATURE Pct	OXYGEN No	OXYGEN Exceed	OXYGEN Pct	pH No	pH Exceed	pH Pct	FECAL COLIFORM No	FECAL COLIFORM Exceed	FECAL COLIFORM Pct	Geo. Mean
10A070	Puyallup R @ Meridian St	A	12			12			11			12	6	50	171
10A110	Puyallup R @ Orting	A	12			11			11			12			
10B070	Carbon R nr Orting	A	12			11			11			12			
10C070	White R @ Sumner	A	12			12			11			11	4	36	127
10C130	White R @ Buckley	A	11			12			11			12	5	42	115
11A070	Nisqually R @ Nisqually	A	12			12			11			12	1	8	
11A080	Nisqually R @ McKenna	A	12			12			11			12	1	8	
12A070	Chambers Cr nr Steilacoom	A	12			12			11			12	4	33	
13A060	Deschutes R @ E St Bridge	A	12			12			12			12	2	17	
13A150	Deschutes R nr Rainier	A	12			11			12			12			
16A070	Skokomish R nr Potlatch	AA	12			12			11			12	1	8	
22A070	Humptulips R nr Humptulips	A	12			12			11			12			
22G070	Satsop R nr Satsop	A	12			12			11			12			
23A070	Chehalis R @ Porter	A	12			12			11			12	1	8	
23A160	Chehalis R @ Dryad	A	12			11			12			12	1	8	
23B050	Newaukum @ Mouth	A	12			12			12			12	3	25	
23D055	Skookumchuck R @ Centralia	A	12			12			12			12	3	25	
23E070	Black River @ Moon Road	A	12			12			12			12			
26B070	Cowlitz R @ Kelso	A	12			12			12			12	1	8	
Floating Stations															
10F090	South Prairie Ck nr S. Prairie	A	12			11			11			12	4	33	132
23A120	Chehalis R @ Centralia	A	12	1	8	12	2	17	12			12	4	33	
23F070	Mill Ck nr Bordeaux	A	12			12			12			12	1	8	

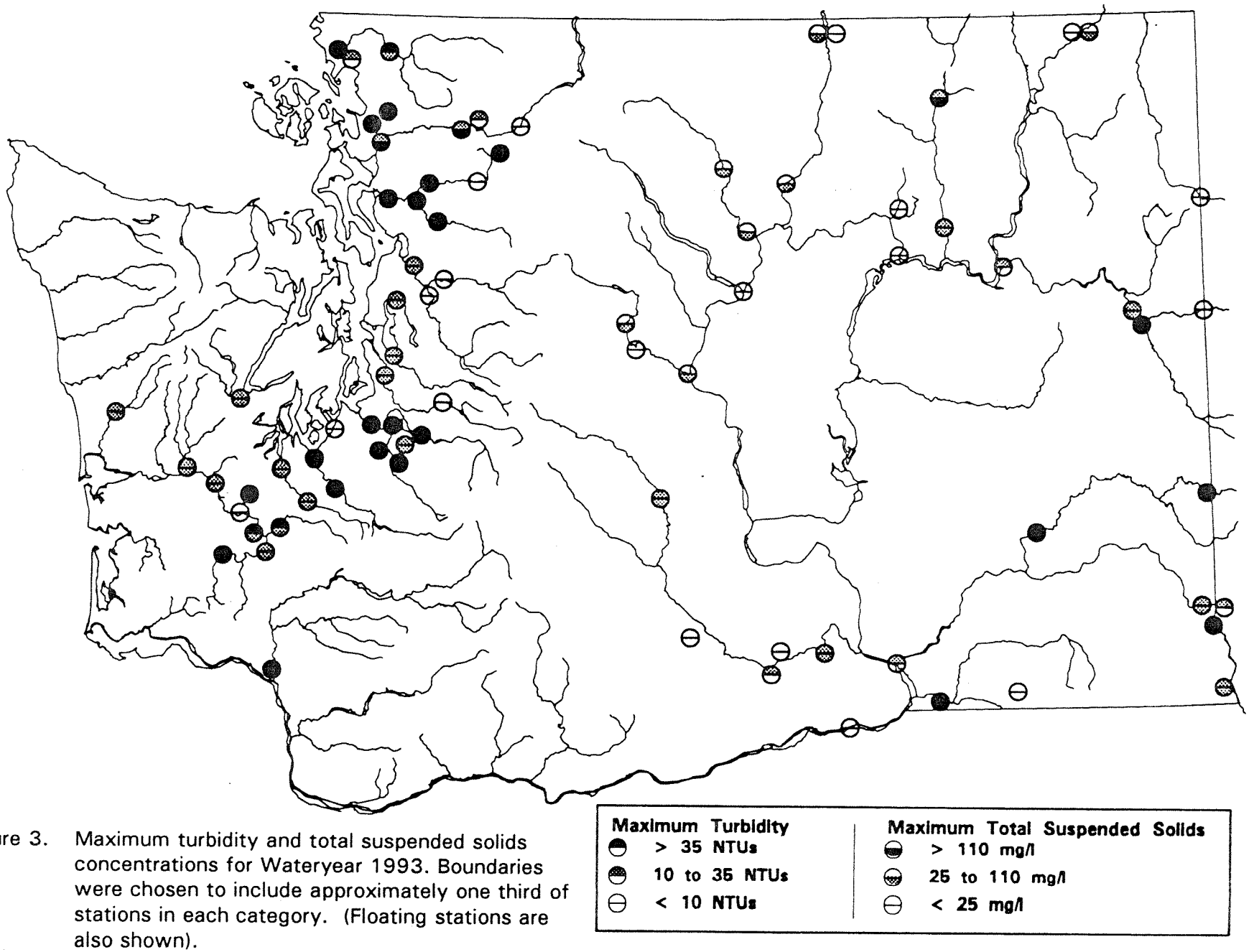


Figure 3. Maximum turbidity and total suspended solids concentrations for Wateryear 1993. Boundaries were chosen to include approximately one third of stations in each category. (Floating stations are also shown).

Discharge in Wateryear 1993

Discharge in WY 1993 in western Washington at the time of sampling (instantaneous discharge) was lower than the median instantaneous discharge since WY 1977 for all months, and was in the lowest 25th percentile for 10 months (Figure 4, top). In eastern Washington, instantaneous discharge was between the 25th and 75th percentiles for most months, although a few months had discharges in the lowest 25th percentile (Fig 4, bottom). This analysis is based on *instantaneous* discharge, and may not reflect mean monthly discharge. However, discharge at the time of sampling is correlated with a number of water quality parameters. Generally lower discharges in WY 1993 may have resulted in lower than average fecal coliform bacteria, turbidity, and TSS concentrations, and higher temperature and pH measurements. Detailed analyses of WY 1993 ambient monitoring data should consider the effect of discharge, especially in western Washington.

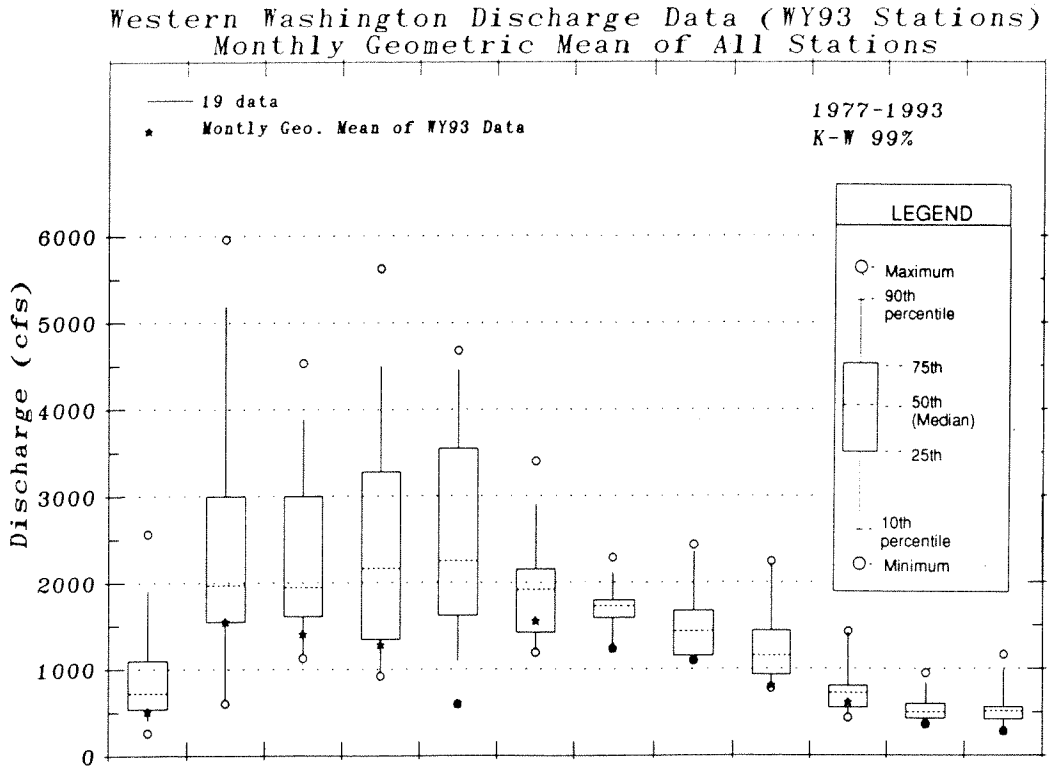
Quality Assurance

As mentioned above in the Methods Section, a QC sample was collected on each day of each sampling "run." The majority of these QC samples were replicates, but some blanks and splits were also included. The results of these field replicate pairs provide an estimate of total variability (instream + field processing + laboratory). Deionized water process blanks address contamination due to field processing and cleaning techniques. Field splits address laboratory processing.

The figures in Appendix D present the percent coefficient of variation (%CV = standard deviation/mean x 100) of the QC samples with respect to the mean concentration for the standard constituents listed in Table 2. Because the %CV is inversely proportional to the mean, relatively small differences at low mean concentration will usually result in large %CV. For example, ammonia concentrations of 0.01 and 0.02 mg/L result in a %CV of > 47%.

Field Replicates

QC replicate pair data collected in WY 1993 is illustrated in the series of figures in Appendix D. Variability for most parameters was acceptable except for values close to detection levels. Variability was particularly large for low values of fecal coliform bacteria and total suspended solids. Both of these parameters are typically patchy in nature and high total variability was expected. Variability of pH, temperature, and dissolved oxygen levels was evaluated by comparing the difference between replicate pairs to the mean value of the parameter. Results for these three parameters indicated variability was generally acceptable.



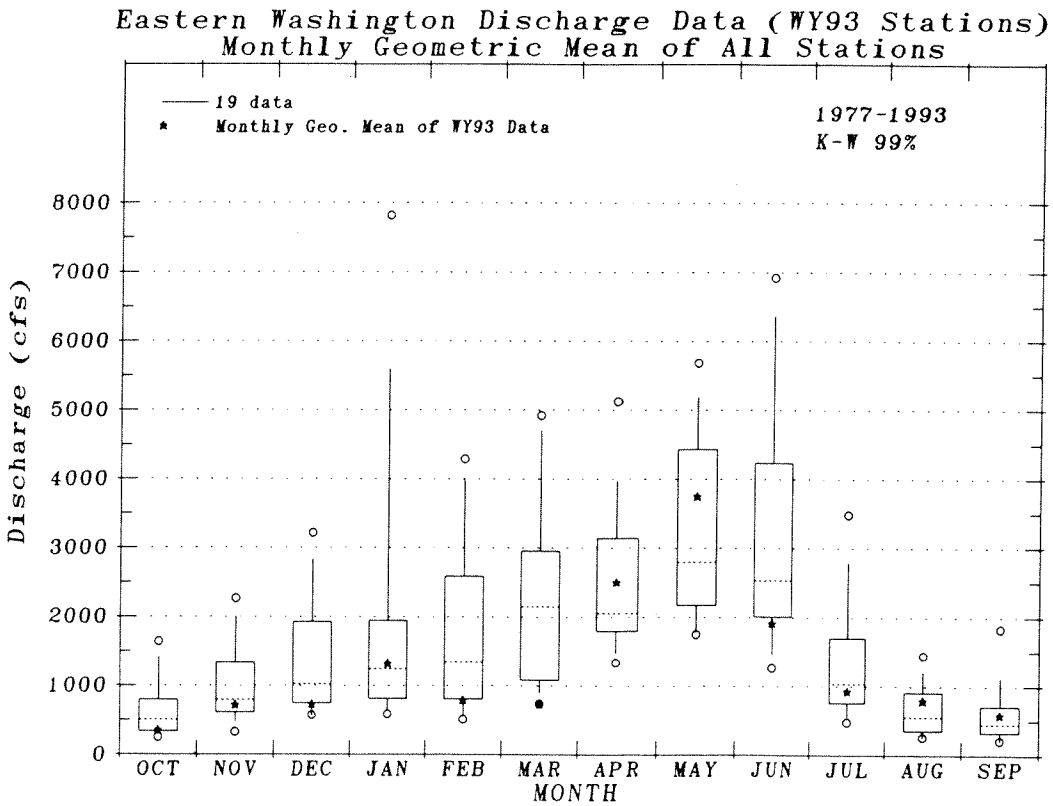


Figure 4. Distribution of discharge data by mouth since October 1, 1976, in western Washington (top) and eastern Washington (bottom). Distribution is based on a geometric mean for each month of historical instantaneous discharge data at all stations sampled in Wateryear 1993. '*' indicates geometric man of Wateryear 1993 data. (Plot produced with WQHYDRO® (Aroner, 1994)).

Field Blanks

Blank result for all parameters, except turbidity, were at detection limits in WY 1993. Of the nine turbidity blanks collected in WY 1992, eight had detectable levels ranging from 0.2-1.3 NTU (Detection Limit = 0.1 NTU). The low sensitivity of the turbidity meter requires laboratory personnel to average meter readings below 1 NTU. This, combined with the possibility of air entrainment in the sample cell, may be a possible source of variability near the detection limit.

Field Splits

The pooled standard deviation and %CV root mean squared results for field splits, and the root mean squared for replicate pairs for WY 1993 are presented in Table 6. Results for field splits for WY 1993 were good. The field split root mean squared %CV for all parameters except fecal coliform bacteria and TSS is smaller than the field replicate root mean squared %CV. (In other words, the variability introduced by field processing and laboratory analysis as measured by split samples was smaller than total variability measured by replicate sampling.) The %CV root mean squared field splits for fecal coliform bacteria and TSS is higher that the %CV root mean squared for the field replicates. The fecal coliform bacteria and TSS samples, however, were not true field splits but were co-located samples (side-by-side). Co-located samples are susceptible to the same patchiness experienced with replicate pairs. Also, as discussed earlier, the %CV is inversely proportional to the mean (small differences at low levels result in large %CV) . The majority of fecal coliform bacteria and TSS co-located field samples were also near the detection limits. For fecal coliform bacteria, six of the nine co-located samples had less than three colonies per 100 mL, and seven of eight TSS split results were less than 4 mg/L.

Therefore, the high %CV root mean square of field splits for fecal coliform bacteria and TSS are an artifact of low level co-located sample results. The results do not indicate a problem with laboratory processing.

The remaining element of the QA program, laboratory variability, was assessed by laboratory staff via manual review of laboratory quality control charts, check standards, in-house matrix spikes, and laboratory blanks. Results were all within acceptable ranges.

Table 6. Pooled standard deviation and %CV root mean squared for field splits for Wateryear 1993.

	Field Split			Replicate Pair
Parameter	Pooled Standard Standard Deviation	Range	RM^2 %CV	RM^2 %CV
Fecal Coliform*	1.2	2-270	49.6	32.0
Ammonia	0.004	0.01-0.057	10.9	20.2
Dissolved Nitrite	0.00	0.01-0.012	0.0	2.7
Nitrate + Nitrite	0.005	0.01-1.43	2.37	9.4
Dissolved Oxygen	0.08	8.5-13.2	0.7	0.9
Ortho-phosphate	0.0004	0.01-0.081	1.6	3.7
Total Phosphorus	0.002	0.01-0.127	3.4	17.2
Total Susp. Solids*	2.8	1-94	37.2	24.3
Turbidity	0.036	0.4-21	6.2	15.0

Number of Field Splits = 8
* Co-located samples-- not true field splits

CONCLUSIONS

1. There were relatively few water quality standards violations in WY 1993. Most temperature, pH, and dissolved oxygen standards violations occurred in eastern Washington. Most fecal coliform bacteria standards violations occurred in western Washington.

2. Total suspended solids and total phosphorus concentrations tended to be high in Ecology's Eastern Region and low in the Central Region. Western Washington also had its share of high values for both parameters, possibly due to the influence of glacial melt water.

3. Individual stations worthy of note (excluding floating stations) include

   a. Yakima River at Kiona (37A090) - total phosphorus in the 90th percentile for 12 of 12 samples.
   b. Hangman Creek (56A070) - potential candidate for mitigation for temperature and pH violations and high TSS.
   c. Sammamish River (08B070) - large number of fecal coliform exceedences.
   d. Puyallup River (10A070) - large number of fecal coliform exceedences.
   e. Asotin Creek (35D070) - the only eastern Washington station sampled in WY 1993 in violation of fecal coliform bacteria standards. Also had high TSS.

4. Average instantaneous discharge (at the time of sampling) was unusually low in western Washington during all months. Instantaneous discharge was generally near normal to below normal in eastern Washington.

LITERATURE CITED

American Public Health Association (APHA), 1992. Standard Methods for the Examination of Water and Wastewater. 18th Ed., Washington D.C.

Aroner, E.R., 1994. WQHYDRO. WQHYDRO Consulting, Portland, OR.

Ecology, 1988. Quality Assurance Manual. Manchester Environmental Laboratory. Washington State Department of Ecology, Environmental Investigations and Laboratory Services Program, Manchester, WA.

------, 1992. 1992 Statewide Water Quality Assessment, Section 305(b). Water Quality Program, Olympia, WA.

------, 1994. Manchester Environmental Laboratory Users Manual. D. Huntamer and J. Hyre, ed. Washington State Department of Ecology, Environmental Investigations and Laboratory Services Program.

Ehinger, Bill, 1994 (in draft). Quality Assurance Program Plan for River and Stream Ambient Water Quality Monitoring Plan. Washington State Department of Ecology, Environmental Investigations and Laboratory Services Program, Olympia, WA.

Environmental Protection Agency (EPA), 1983. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-020, Environmental Monitoring and Support Laboratory, Cincinnati, OH.

------, 1986. Quality Criteria for Water, 1986. EPA-440/5-86-001, Office of Water Regulations and standards, Washington, DC.

Hallock, D., 1991. Little Spokane River Study, Final Report. Memo to Ken Merrill, November 14, 1991, 18 pp.

Valderrama, J.C., 1981. "Simultaneous analysis of total nitrogen and total phosphorus in natural waters." Marine Chemistry, 10:109-122.

Wrye, D., 1993. Basin Approach to Water Quality Management: Program Description. Washington State Department of Ecology, Olympia, WA.

APPENDIX A

Station Description and Period of Record for Ecology's River and Stream Ambient Monitoring Program

Station description and monitoring history for EILS freshwater monitoring program.

Sta Number	Station Name	Water Year Sampled																																			
		59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
01A050	Nooksack R @ Brennan													X		X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01A070	Nooksack R @ Ferndale				X	X	X	X	X	X	X	X	X	X			X			X																		
01A090	Nooksack R nr Lynden													X			X			X																		
01A120	Nooksack R @ No Cedarville	X	X	X	X	X	X	X	X	X		X	X	X			X				X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		
01B050	Silver Cr nr Brennan																																		X	X		
01D070	Sumas R nr Huntingdon BC													X			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
01D090	Sumas R @ Sumas													X			X																					
01E050	Whatcom Cr @ Bellingham															X				X																	X	
01E070	Whatcom Cr @ Lake Outlet															X																						
01E090	Whatcom Lake nr Bellingham							X	X	X		X	X																									
03A050	Skagit R @ Conway													X			X																					
03A060	Skagit R nr Mount Vernon	X	X	X	X	X	X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03A070	Skagit R nr Sedro Woolley													X			X			X																		
03B050	Samish R nr Burlington	X	X	X	X	X	X	X	X	X		X	X	X			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		
03B070	Samish R nr Hoogdal													X																								
03C060	Friday Cr Blw Hatchery																X																			X		
03C080	Friday Cr at Alger																X																					
04A060	Skagit R @ Concrete													X			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		
04A100	Skagit R @ Marblemount	X	X	X	X	X	X	X	X	X		X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
04A140	Skagit R @ Newhalem																X			X																		
04B070	Baker R @ Concrete				X	X	X	X												X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		
04B150	Baker Lake @ Boulder Cr																	X	X	X	X	X	X															
04C070	Sauk R nr Rockport																			X	X	X	X	X	X	X	X	X	X	X	X	X	X		X			
04C110	Sauk R @ Darrington	X	X	X																																		
05A050	Stillaguamish R @ Stanwood													X																								
05A055	Hat Slough nr Stanwood																			X																		
05A070	Stillaguamish R nr Silvana	X	X	X	X	X	X	X	X	X	X	X	X	X			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
05A090	SF Stillaguamish @ Arlington													X			X				X	X	X	X	X	X	X	X	X	X	X	X	X		X		
05A110	SF Stilly nr Granite Falls	X	X	X	X	X	X	X	X								X																			X		
05B070	NF Stillaguamish @ Cicero				X	X	X	X	X	X	X	X	X	X			X				X	X	X	X	X	X	X	X	X	X	X	X	X		X		
05B090	NF Stillaguamish R @ Oso																X																					
05B110	NF Stilly nr Darrington																X																			X		
07A090	Snohomish R @ Snohomish	X	X	X	X	X	X	X	X	X		X	X	X			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
07A109	Snohomish R nr Monroe NE													X																								
07A110	Snohomish R nr Monroe SW													X																								
07A111	Snohomish R nr Monroe (USGS)																	X	X			X	X	X	X	X	X	X	X	X	X	X						
07B055	Pilchuck R @ Snohomish													X			X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
07B090	Pilchuck R nr Lake Stevens																			X																		
07C070	Skykomish R @ Monroe													X			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

Station description and monitoring history for EILS freshwater monitoring program.

Sta Number	Station Name	Water Year Sampled																																			
		59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
07C090	Skykomish R @ Sultan													X			X																					
07C120	Skykomish R nr Gold Bar	X	X	X	X	X	X	X	X	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
07C170	Skykomish R nr Miller R																			X																		
07D050	Snoqualmie R nr Monroe																			X															X	X		
07D070	Snoqualmie R nr Carnation													X		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
07D130	Snoqualmie R @ Snoqualmie	X	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
07D150	M F Snoqualmie R nr Ellisville																																	X				
07E055	Sultan R @ Sultan		X	X	X	X	X	X	X	X		X	X	X			X																		X			
07F055	Woods Cr @ Monroe													X			X																		X			
07G070	Tolt R nr Carnation		X	X	X	X	X	X	X	X	X	X	X																						X			
07M070	S F Snoqualmie R at North Bend																																	X				
07N070	N F Snoqualmie R nr Ellisville																																	X				
07P070	Patterson Ck nr Fall City																																		X			
07Q070	Raging R @ Fall City																																		X			
08A070	McAleer Cr nr Mouth														X																							
08A090	Upper McAleer Cr														X																							
08B070	Sammamish R @ Bothell	X	X	X	X	X	X	X	X	X	X	X	X	X			X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
08B110	Sammamish R @ Redmond																		X																		X	
08B130	Issaquah Cr nr Issaquah							X	X	X		X	X	X			X		X																		X	
08C070	Cedar R @ Logan St/Renton	X	X	X	X	X	X	X	X					X		X			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
08C080	Cedar R @ Maplewood																																				X	
08C090	Cedar R @ Maple Valley															X																					X	
08C110	Cedar R nr Landsburg	X	X	X	X											X					X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	
08D070	Mercer Slough nr Bellevue														X																							
08E090	Kelsey Cr @ Monitor Site														X																							
08E110	Upper Kelsey Cr														X																							
08F070	May Cr nr Mouth														X																							
08G070	Valley Cr nr Mouth														X																							
08H070	Thornton Cr nr Mouth														X																							
08H100	North Branch Thornton Cr														X																							
08J070	West Branch Thornton Cr														X																							
08K090	Ship Canal @ Freemont																																				X	
09A060	Duwamish R @ Allentown Br																						X	X	X	X	X	X	X	X	X	X	X	X				
09A070	Duwamish R @ Foster	X	X	X	X	X	X	X	X	X																												
09A080	Green R @ Tukwila																																	X	X	X	X	
09A090	Green R @ 212th St nr Kent													X				X	X				X	X	X	X	X	X	X	X	X	X	X	X			X	
09A110	Green R @ Auburn					X	X	X	X	X		X	X	X																								
09A130	Green Abv Big Soos/Auburn	X	X	X	X	X	X	X	X	X	X	X	X																								X	
09A150	Green R nr Auburn														X																							

Station description and monitoring history for EILS freshwater monitoring program.

Sta Number	Station Name	Water Year Sampled																																	
		59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
09A170	Green R nr Black Diamond																		X																			
09A190	Green R @ Kanaskat	X	X	X															X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
09B070	Big Soos Cr blw Hatchery														X				X																			
09B090	Big Soos Cr nr Auburn					X	X	X	X					X	X																						X	
09C070	Des Moines Cr nr Mouth														X																						X	
09C090	Des Moines Cr @ So 200th														X																							
09D070	Miller Cr nr Mouth														X																							
09D090	Miller Cr @ Ambaum Blvd SW														X																							
09E070	Mill Creek @ Orillia																											X	X	X	X	X	X				X	
09E090	Mill Creek - Kent on W Valley Hwy																											X	X	X	X	X	X					
09H090	Black R @ Renton																																				X	
10A050	Puyallup R @ Puyallup (USGS)	X	X	X	X	X	X	X	X	X		X	X	X	X			X	X	X	X	X	X	X	X	X	X	X										
10A070	Puyallup R @ Meridian St													X				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10A090	Puyallup R @ McMillin													X					X																			
10A110	Puyallup R @ Orting	X	X	X	X		X	X	X	X	X	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		
10B070	Carbon R nr Orting						X	X						X	X																					X		
10B090	Carbon R @ Fairfax																		X																			
10C070	White R @ Sumner													X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		
10C085	White R nr Sumner											X	X					X																				
10C090	White R @ Auburn				X	X	X	X	X					X		X																						
10C110	White R blw Buckley															X																						
10C130	White R @ Buckley																																			X		
10C140	White R nr Buckley															X																						
10C150	White R nr Greenwater															X																						
10D070	Boise Cr @ Buckley					X	X	X								X																						
10D090	Boise Cr nr Enumclaw					X	X	X																														
10E070	Salmon Cr @ Sumner													X																								
10F070	So Prairie Cr nr Crocker																		X																			
10F090	South Prairie Ck nr S. Prairie																																			X		
11A070	Nisqually R @ Nisqually															X			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11A080	Nisqually R @ McKenna	X	X	X	X	X	X	X	X	X	X	X	X																				X	X		X		
11A090	Nisqually R abv Powell Cr															X					X	X	X	X	X	X	X	X	X	X	X	X	X					
11A110	Nisqually R @ LaGrande															X																						
11A140	Nisqually R @ Elbe															X			X		X	X	X															
12A070	Chambers Cr nr Steilacoom					X	X	X	X	X					X	X			X								X	X	X	X	X	X	X	X		X		
12A100	Chambers Cr blw Steilacoom Lk																		X																			
12A110	Clover Cr abv Steilacoom Lk					X	X	X											X																			
12A130	Clover Cr nr Parkland					X	X																															
12B070	Leach Cr nr Steilacoom					X	X	X											X																			

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Sta Number	Station Name	Water Year Sampled																																			
		59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
12C070	Flett Cr @ Custer Rd					X	X	X											X																			
13A050	Deschutes R @ Tumwater					X	X	X	X	X		X	X							X																		
13A060	Deschutes R @ E St Bridge																				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
13A080	Deschutes R nr Olympia														X			X		X																		
13A150	Deschutes R nr Rainier														X			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		
14A060	Goldsborough Cr @ Shelton																																				X	
14A070	Goldsborough Cr nr Shelton							X	X	X		X	X																									
15A070	Dewatto R nr Dewatto														X	X	X																					
15B070	Chico Cr nr Bremerton							X	X	X	X	X	X																									
16A070	Skokomish R nr Potlatch		X	X	X	X	X	X	X	X		X	X		X	X	X				X	X	X				X	X	X	X	X	X	X	X	X	X	X	
16B070	Hamma Hamma R nr Mouth				X	X	X	X	X	X		X	X			X																						
16B110	Hamma Hamma R nr Eldon															X	X																				X	
16C070	Duckabush R @ Mouth		X	X	X	X	X	X	X	X		X	X			X																						
16C090	Duckabush R nr Brinnon														X	X	X																				X	
16D070	Dosewallips R @ Brinnon	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X																				X	
16E070	Finch Cr @ Hoodsport																																				X	
17A070	Big Quilcene R nr Quilcene	X	X	X	X	X	X	X	X			X			X	X	X																				X	
17B070	Chimacum Cr nr Irondale																																				X	
17B090	Chimacum Cr @ Hadlock															X																						
17B100	Chimacum Cr @ Chimacum																																				X	
17B110	Chimacum Cr nr Chimacum															X																						
18A070	Dungeness R nr Sequim	X	X	X	X	X	X	X	X						X	X	X																				X	
18B070	Elwha R nr Port Angeles	X	X	X	X	X	X	X	X			X			X	X	X																				X	
18B080	Elwha R @ McDonald Br (USGS)																	X	X	X	X	X	X	X	X	X	X	X										
19A070	Pysht R nr Pysht														X	X	X																					
19B070	Hoko R nr Mouth														X																							
19B090	Hoko R nr Sekiu															X	X																					
20A090	Soleduck R nr Forks														X	X	X																				X	
20A130	Soleduck R nr Fairholm		X	X	X	X	X	X	X	X		X	X																									
20B070	Hoh R @ DNR Campground		X	X	X	X	X	X	X	X	X	X	X		X	X	X				X	X	X														X	
20C070	Ozette R @ Ozette	X	X	X																																		
21A070	Queets R @ Queets		X	X	X	X	X	X	X	X	X	X	X		X																						X	
21A080	Queets R nr Clearwater (USGS)																				X	X	X	X	X	X	X	X										
21A090	Queets R abv Clearwater															X	X																					
21B090	Quinault R @ Lake Quinault	X	X				X	X	X	X	X	X	X		X	X	X				X	X	X														X	
21C070	Clearwater R nr Queets															X	X																					
21D070	NF Quinault R @ Amanda (USGS)													X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
22A070	Humptulips R nr Humptulips	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22B070	WF Hoquiam R nr Hoquiam					X	X	X	X	X						X	X																				X	

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		59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
22C050	Chehalis R nr Montesano													X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
22C070	Chehalis R nr Fuller													X				X																				
22D070	Wishkah R nr Wishkah					X	X	X	X	X						X	X			X																		
22F090	Wynoochee R nr Montesano	X	X	X	X	X	X	X	X	X		X	X			X	X			X																		
22G070	Satsop R nr Satsop		X	X	X	X	X	X	X	X	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		
22H070	Cloquallum Cr nr Elma				X	X	X	X							X			X		X																		
22J070	Wildcat Cr nr McCleary													X																								
23A070	Chehalis R @ Porter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23A110	Chehalis R @ Galvin														X			X		X																		
23A120	Chehalis R @ Centralia																				X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		
23A140	Chehalis R @ Adna														X			X		X																		
23A160	Chehalis R @ Dryad	X	X	X	X	X	X	X	X												X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23B050	Newaukum @ Mouth																																			X		
23B070	Newaukum R nr Chehalis		X	X	X	X	X	X	X	X						X		X		X																		
23B090	SF Newaukum R @ Forest																	X																				
23C070	NF Newaukum R @ Forest																	X																				
23D055	Skookumchuck R @ Centralia																																			X		
23E070	Black River @ Moon Road Bridge																																X	X		X		
23F070	Mill Ck nr Bordeaux																																			X		
24B090	Willapa R nr Willapa								X	X		X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
24B130	Willapa R @ Lebam	X	X	X								X									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
24C070	SF Willapa R @ South Bend															X																						
24D070	North R nr Raymond															X			X	X																		
24D090	North R @ Artic																																		X			
24E070	North Nemah R @ Nemah															X				X																		
24F040	Naselle R @ Mouth															X																						
24F055	Naselle R @ Naselle									X																												
24F070	Naselle R nr Naselle								X	X		X	X			X			X	X	X	X	X												X			
24G070	Bear Branch nr Naselle								X											X																		
24H070	Middle Nemah R nr Nemah																			X																		
24J070	South Namah R nr Nemah																			X																		
25A070	Columbia R @ Cathlamet										X	X	X						X																			
25A075	Columbia R @ Bradwood																X	X	X	X	X	X																
25A110	Columbia R @ Fisher Is Lt					X	X	X	X	X																												
25A115	Columbia R nr Longview										X	X	X						X																			
25A150	Columbia R blw Longview Br										X				X																							
25B070	Grays R nr Grays River															X			X	X																		
25C070	Elochoman R nr Cathlamet	X														X			X	X																		
26B070	Cowlitz R @ Kelso		X	X	X	X	X	X	X						X	X		X			X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	

Station description and monitoring history for EILS freshwater monitoring program.

Sta Number	Station Name	Water Year Sampled																																		
		59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
31A130	Columbia R nr Yakima R Mouth										X																											
32A070	Walla Walla R nr Touchet	X	X	X	X	X	X	X	X					X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
32A090	Walla Walla R nr Lowden													X	X																							
32A110	Walla Walla R @ College Pl													X	X		X	X																				
32B070	Touchet R @ Touchet														X		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
32B100	Touchet R @ Bolles																X	X																				
32B120	Touchet R nr Dayton																X	X																				
32B130	Touchet R @ Dayton	X	X																															X	X			
32C070	Mill Cr @ Mission St														X		X	X																				
32C110	Mill Cr @ Tausick Way														X		X																			X		
33A010	Snake R nr Mouth										X																											
33A050	Snake R nr Pasco		X	X	X	X	X	X	X		X					X																		X	X	X	X	
33A070	Snake R blw Ice Harbor Dam											X			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
34A070	Palouse R @ Hooper	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
34A085	Palouse R @ Shields Rd Bridge																																		X			
34A090	Palouse R nr Diamond													X			X																					
34A110	Palouse R abv Buck Canyon													X			X	X																				
34A170	Palouse R @ Palouse																	X																	X	X	X	
34B070	SF Palouse R nr Colfax													X			X	X																				
34B090	SF Palouse R nr Pullman													X			X																					
34B110	SF Palouse R @ Pullman													X			X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
34B130	SF Palouse R blw Sunshine																	X																				
34B140	SF Palouse R @ Busby																																		X			
34C060	Paradise Cr at Mouth																																		X			
34C070	Paradise Cr nr Pullman																	X																				
34C100	Paradise Cr @ Border																																		X			
34D070	SF Palouse Trib Whitman Fm																	X																				
34E070	Rock Creek at Revere																																		X			
35A100	Snake R blw Lwr Granite Dam																				X																	
35A150	Snake R @ Interstate Br				X	X	X	X	X		X	X																						X	X	X	X	
35A200	Snake R nr Anatone														X	X	X	X	X	X	X	X																
35B060	Tucannon R @ Powers																X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
35B110	Tucannon R nr Delaney	X	X																																			
35C070	Grande Ronde R nr Anatone																			X			X	X	X											X		
35D070	Asotin Cr @ Asotin																			X																X		
35E070	Clearwater R @ US12/95																																			X		
36A055	Columbia R @ Port of Pasco														X																							
36A060	Columbia R @ Pasco										X	X																										
36A065	Columbia R @ Richland																					X																

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		59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
26B100	Cowlitz R @ Castle Rock (USGS)									X	X	X	X					X	X	X	X																	
26B150	Cowlitz R @ Toledo				X	X	X	X	X						X			X			X	X	X												X			
26B180	Cowlitz nr Kosmos B Cispus	X	X	X	X	X	X	X	X	X																												
26B190	Cowlitz R nr Randle											X	X					X																				
26B200	Cowlitz R nr Kosmos														X																							
26C070	Coweeman R @ Kelso				X	X	X	X	X					X	X			X									X	X	X	X	X	X	X	X	X			
26C090	Coweeman R nr Rose Valley													X				X																				
26D070	Toutle R nr Castle Rock		X	X	X	X	X	X	X	X		X	X		X			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
26E070	Cispus R nr Kosmos														X								X	X	X													
27A070	Columbia R @ Kalama										X	X	X						X	X																		
27B070	Kalama R nr Kalama		X	X	X	X	X	X	X	X	X	X	X		X	X			X	X			X	X	X	X	X	X	X	X	X	X	X	X	X			
27B090	Kalama R @ Upper Hatchery															X																						
27B110	Kalama R @ Pigeon Springs															X																						
27C070	Lewis R @ Woodland @ I-5					X	X	X	X	X		X	X		X	X																						
27C080	Lewis R @ Co Rd 16																																		X			
27C110	Lewis R @ Ariel (USGS)		X	X																X	X	X	X					X										
27D090	EF Lewis R nr Dollar Corner																			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
28A090	Columbia blw Vancouver WA										X	X	X																									
28A091	Columbia blw Vancouver OR										X	X	X																									
28A165	Columbia R @ Warrendale															X	X	X	X	X	X	X																
28A170	Columbia R blw Bonneville										X	X								X																		
28A175	Columbia R @ Bonneville Dam										X	X	X						X																			
28B070	Washougal R @ Washougal											X	X		X	X			X	X															X			
28B090	Washougal R nr Washougal				X	X	X	X	X	X	X	X	X																									
28C070	Burnt Br Cr @ Mouth															X																						
28C110	Burnt Br Cr @ Vancouver															X																						
28D070	Salmon Cr @ Salmon Creek															X																						
28D110	Salmon Cr nr Battle Ground															X																						
28E070	Weaver Cr nr Battle Ground															X																						
28F070	Lake R nr Ridgefield																																		X			
28G070	Gibbons Ck nr Washougal																																		X			
29B070	White Salmon R nr Underwood		X	X	X	X	X	X	X	X	X	X	X		X	X			X	X	X	X	X	X	X	X												
29C070	Wind R nr Carson															X			X	X	X	X	X	X	X	X												
30A070	Columbia R @ The Dalles										X	X		X	X	X	X	X	X	X	X																	
30A090	Columbia R @ The Dalles Dam										X																											
30B070	Klickitat R nr Pitt (USGS)									X	X	X	X			X	X	X	X	X	X	X	X														X	
30C070	Little Klickitat nr Wahkiacus																			X																	X	
31A070	Columbia R @ Umatilla										X							X	X	X	X	X												X	X	X	X	
31A090	Columbia R @ McNary Dam	X	X	X	X	X	X	X	X	X	X	X																										

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		59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
36A070	Columbia R nr Vernita				X	X					X	X	X		X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	
37A060	Yakima R @ VanGiesen Br														X		X	X																				
37A070	Yakima R nr Richland													X																								
37A090	Yakima R @ Kiona	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
37A095	Yakima 2 mi blw Prosser																																			X		
37A100	Yakima below Prosser																																			X		
37A110	Yakima R @ Prosser													X			X	X																				
37A130	Yakima R @ Mabton													X			X	X																			X	
37A149	Yakima R @ Granger No Side													X																								
37A150	Yakima R @ Granger So Side													X																								
37A170	Yakima R nr Toppenish													X			X	X																		X		
37A190	Yakima R @ Parker													X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
37A200	Yakima R abv Ahtanum Cr (USGS)																	X	X			X	X	X														
37A210	Yakima R nr Terrace Height													X	X		X	X																			X	
37B060	Satus Cr @ Satus																X	X																				
37C060	Toppenish Cr nr Satus																X	X																				
37D080	Marion Drin nr Granger																X	X																				
37E070	Wide Hollow Cr @ Union Gap													X			X																		X			
37E090	Wide Hollow Cr @ Goodman													X			X																					
37F070	Sulfer Ck Wasteway @ McGee Rd																																				X	
38A050	Naches R @ Yakima on US HWY 97		X	X	X	X	X	X	X																										X			
38A070	Naches R @ Yakima															X		X																				
38A110	Naches R @ Naches	X	X															X																				
38A130	Naches R nr Naches					X	X	X	X																													
38B070	Tieton R @ Oak Creek					X	X	X	X																										X			
38C070	Rattlesnake Cr nr Nile					X	X																															
38D070	Bumping R @ American R					X	X																															
38E070	American R @ American R					X	X																															
38F070	Little Naches nr Cliffdell					X	X	X																											X			
39A070	Yakima R nr Thorp														X			X																				
39A080	Yakima R @ Cle Elum	X	X	X	X	X	X	X	X	X	X	X	X																									
39A090	Yakima R nr Cle Elum														X			X															X	X	X			
39B070	Cle Elum R nr Cle Elum														X			X																				
39B090	Cle Elum R nr Roslyn																																		X			
39C070	Wilson Cr @ Thrall								X	X	X	X	X			X		X																		X		
39D070	Teanaway R nr Cle Elum				X	X	X	X	X																										X			
41A070	Crab Cr nr Beverly	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	
41A075	Crab Cr nr Smyrna					X	X	X																														
41A090	Crab Cr nr Othello													X																								

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Sta Number	Station Name	Water Year Sampled																																			
		59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
41A110	Crab Cr nr Moses Lake				X																		X	X	X	X												X	
43A070	Crab Cr @ Irby				X																																	
44A070	Columbia R blw Rock Is Dam														X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X				
45A070	Wenatchee R @ Wenatchee		X	X	X	X	X	X	X	X		X	X		X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
45A085	Wenatchee R nr Dryden																		X																			
45A100	Wenatchee R @ Leavenworth																		X																			
45A110	Wenatchee R nr Leavenworth																				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
45B070	Icicle Cr nr Leavenworth																		X																	X		
46A070	Entiat R nr Entiat	X	X	X	X	X	X	X	X	X					X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	
47A070	Chelan R @ Chelan		X	X	X	X	X	X	X	X		X	X		X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	
47B070	Columbia R @ Chelan Station																																	X		X		
48A070	Methow R nr Pateros	X	X	X	X	X	X	X	X						X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
48A130	Methow R nr Twisp																		X		X	X	X	X	X	X	X	X	X	X	X							
48A140	Methow R @ Twisp																															X	X	X		X		
48A170	Methow R @ Weeman Br																		X																			
48A190	Methow R blw Gate Cr																		X		X	X	X															
48B070	Chewack R @ Winthrop																		X																			
49A050	Okanogan R nr Brewster	X	X	X	X	X	X	X	X	X	X																											
49A070	Okanogan R @ Malott									X	X	X	X		X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
49A090	Okanogan R @ Okanogan																		X		X	X	X	X	X	X	X	X	X	X	X							
49A170	Okanogan R @ Janis																		X																			
49A190	Okanogan R @ Oroville		X	X	X	X	X	X	X									X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		
49B070	Similkameen R @ Oroville		X	X	X	X	X	X	X									X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
50A070	Columbia R nr Brewster										X																											
51A070	Nespelem R @ Nespelem																						X	X	X	X	X	X	X	X	X	X	X	X		X		
52A070	Sanpoil R @ Keller		X	X	X	X	X	X	X						X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		
52A170	Sanpoil R blw Republic																		X																			
52A190	Sanpoil R abv Republic																		X																	X		
53A070	Columbia R @ Grand Coulee														X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		
54A050	Spokane R @ Mouth																																	X	X	X	X	
54A070	Spokane R @ Long Lake (USGS)	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
54A090	Spokane R @ Ninemile Br													X		X																						
54A120	Spokane R @ Riverside State Pk														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
54A130	Spokane R @ Fort Wright Br													X		X																						
55B070	Little Spokane R nr Mouth													X		X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	
55B080	Little Spokane R nr Griffith Spring																																X	X				
55B082	Little Spokane R abv Dartford Creek																																X	X				
55B085	Little Spokane nr Dartford		X	X	X	X	X	X	X																													
55B090	Little Spokane R abv Wandermere															X																						

Station description and monitoring history for EILS freshwater monitoring program.

Sta Number	Station Name	Water Year Sampled																																			
		59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
55B100	Little Spokane R abv Deadman Creek																																X	X			X	
55B200	Little Spokane @ Chattaroy																																				X	
55C065	Deadman Cr nr Mouth																																				X	
55C070	Peone (Deadman) Creek abv L Deep Cr																																X	X				
55E070	Dragoon Cr nr Chattaroy																																				X	
56A070	Hangman Cr @ Mouth															X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		
57A120	Spokane R @ Spokane															X																						
57A130	Spokane R @ Mission St Br													X		X																						
57A145	Spokane R @ Trent Br															X																						
57A150	Spokane R @ Stateline Br	X	X	X	X	X	X	X				X	X	X		X				X														X	X	X	X	
57A190	Spokane R nr Post Falls															X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
59A070	Colville R @ Kettle Falls		X	X	X	X	X	X	X	X	X	X	X		X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	
59A110	Colville R @ Blue Creek																		X																			
59A130	Colville R @ Chewelah																		X																			
60A050	Kettle R @ Hedlund Bridge										X																											
60A070	Kettle R nr Barstow		X	X	X	X	X	X	X			X	X		X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	
61A070	Columbia R @ Northport (USGS)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						X	X	X	X	
61B070	Deep Ck nr Mouth																																			X		
62A070	Pend Oreille R @ Waneta BC (USGS)					X	X	X																														
62A080	Pend Oreille R @ Border (USGS)																X	X	X	X	X	X	X	X	X	X	X	X										
62A090	Pend Oreille @ Metaline Falls	X	X	X	X																																X	
62A150	Pend Oreille R @ Newport	X	X	X	X	X	X	X	X										X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

APPENDIX B

Wateryear 1993 Raw Data for Ecology's River and Stream Ambient Monitoring Program

01A050 7301A050 12213140
NOOKSACK RIVER AT BRENNAN
48 49 10.0 122 34 43.0 2F 0 Elev= 0 ft
53073 Washington Whatcom Co. PACIFIC NORTHWEST
PUGET SOUND (Nooksack-01) 131101
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 01-01-04 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311022
MILES 0003.40 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	410 T ALK CACO3 MG/L
92/10/20	1405		436064	10.4	754	3630		68	10.7	96.1	7.60	
92/11/17	1300		476064	8.3	766	3600		84	11.4	96.0	7.60	
92/12/15	1245		516064	3.8	773	3400		87	12.6	93.9	7.60	
93/02/16	1330		86064	1.0	773	1920		118	13.6	94.0	7.30	
93/03/16	1330		126064	5.1	765	2600		86	12.3	95.8	7.60	
93/04/20	1315		176064	9.6	760	2910		99	10.9	95.3	7.70	
93/05/18	1350		216064	11.6	758	5920		64	10.7	98.2	7.20	
93/06/22	1335		266064	11.4	769	3280		80	10.6	95.4	7.40	
93/07/20	1340		306064	14.5	766	2450		90	9.7	93.9	7.30	
93/08/17	1340		346064	16.5	768	1800		96	10.2	102.6	7.70	
93/09/21	1345		396064	11.8	772	1050		120	11.2	101.4	7.80	

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P
92/10/20	1405				230.0	0.016	0.010K				0.166	0.010K
92/11/17	1300				41.0	0.029	0.010K				0.350	0.035
92/12/15	1245				46.0	0.025	0.010K				0.575	0.045
93/02/16	1330				16.0	0.033	0.010K				0.589	0.021
93/03/16	1330				60.0	0.044	0.010K				0.404	0.048
93/04/20	1315				20.0	0.023	0.010K				0.424	0.018
93/05/18	1350				96.0	0.018	0.010K				0.161	0.063
93/06/22	1335				27.0	0.014	0.010K				0.219	0.015
93/07/20	1340				29.0	0.010K	0.010K				0.136	0.014
93/08/17	1340				23.0	0.013	0.010K				0.191	0.020
93/09/21	1345				9.0		0.010K					

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	1000 ARSENIC AS,DISS UG/L
92/10/20	1405		0.010K									

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	1000 ARSENIC AS,DISS UG/L
92/11/17	1300		0.010K									
92/12/15	1245		0.010K									
93/02/16	1330		0.010K									
93/03/16	1330		0.010K									
93/04/20	1315		0.010K									
93/05/18	1350		0.010K									
93/06/22	1335		0.010K									
93/07/20	1340		0.010K									
93/08/17	1340		0.010K									
93/09/21	1345		0.010K									

DATE FROM TO	TIME	DEPTH FEET	1002 ARSENIC AS,TOT UG/L	1025 CADMIUM CD,DISS UG/L	1027 CADMIUM CD,TOT UG/L	1030 CHROMIUM CR,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L	1042 COPPER CU,TOT UG/L	1049 LEAD PB,DISS UG/L	1051 LEAD PB,TOT UG/L	1090 ZINC ZN,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1092 ZINC ZN,TOT UG/L	1094 ZINC TOT REC UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	31672 FECSTREP PC M-ENT /100ML	71900 MERCURY HG,TOTAL UG/L
92/10/20	1405									290		
92/11/17	1300									23		
92/12/15	1245									44S		
93/02/16	1330									15		
93/03/16	1330									22		
93/04/20	1315									14		
93/05/18	1350									58		
93/06/22	1335									14		
93/07/20	1340									360		
93/08/17	1340									88		
93/09/21	1345									7		

DATE FROM TO	TIME	DEPTH FEET	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/10/20	1405			69.0
92/11/17	1300			14.0
92/12/15	1245			16.0
93/02/16	1330			3.4
93/03/16	1330			21.0
93/04/20	1315			6.3

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
93/05/18	1350			33.0
93/06/22	1335			7.9
93/07/20	1340			5.1
93/08/17	1340			14.0
93/09/21	1345			5.4

01A120 7301A120 12210700 541033
NOOKSACK R AT NORTH CEDARVILLE
48 50 30.0 122 17 35.0 2F 0 Elev= 0 ft
53073 Washington Whatcom Co. PACIFIC NORTHWEST
PUGET SOUND (Nooksack-01) 131101
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 01-01-04 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311022
MILES 0030.80 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/20	1330		436063	10.3	750	2360			68	10.6	95.4	7.40
92/11/17	1225		476063	8.0	763	3060			74	11.6	97.3	7.50
92/12/15	1200		516063	3.9	769	2620			75	12.9	96.8	7.60
93/01/19	1315		46063	3.0	749	1040			109	13.3	100.1	7.60
93/02/16	1245		86063	1.4	770	1490			95	13.7	96.1	7.30
93/03/16	1250		126063	4.5	762	2230			77	12.6	97.0	7.60
93/04/20	1240		176063	7.6	758	2740			80	11.7	97.8	7.80
93/05/18	1225		216063	10.5	756	4860			53	11.3	101.5	7.20
93/06/22	1250		266063	9.8	765	3300			70	11.1	96.8	7.10
93/07/20	1245		306063	12.3	762	3060			69	10.5	97.3	7.10
93/08/17	1300		346063	16.0	765	1570			80	10.8	107.9	7.60
93/09/21	1245		396063	9.9	768	920			109	11.8	102.8	7.90

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L
92/10/20	1330					110.0	0.015	0.010K				0.127
92/11/17	1225					28.0	0.016	0.010K				0.241
92/12/15	1200					17.0	0.011	0.010K				0.365
93/01/19	1315					4.0	0.013	0.010K				0.334
93/02/16	1245					5.0	0.016	0.010K				0.284
93/03/16	1250					23.0	0.030	0.010K				0.247
93/04/20	1240					11.0	0.018	0.010K				0.191
93/05/18	1225					65.0	0.015	0.010K				0.092
93/06/22	1250					22.0	0.010K	0.010K				0.118
93/07/20	1245					82.0	0.010K	0.010K				0.061
93/08/17	1300					22.0	0.013	0.010K				0.086
93/09/21	1245					4.0		0.010K				

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L
92/10/20	1330			0.037	0.010K							
92/11/17	1225			0.019	0.010K							
92/12/15	1200			0.019	0.010K							
93/01/19	1315			0.010K	0.010K							
93/02/16	1245			0.015	0.010K							
93/03/16	1250			0.028	0.010K							
93/04/20	1240			0.010	0.010K							
93/05/18	1225			0.040	0.010K							
93/06/22	1250			0.017	0.010K							
93/07/20	1245			0.048	0.010K							
93/08/17	1300			0.020	0.010K							
93/09/21	1245				0.010K							

DATE FROM TO	TIME	DEPTH FEET	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1130 LITHIUM LI,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/20	1330						38J			47.0
92/11/17	1225						11			11.0
92/12/15	1200						3			7.0
93/01/19	1315									1.8
93/02/16	1245						1K			2.2
93/03/16	1250						2			11.0
93/04/20	1240						1K			5.7
93/05/18	1225						4			26.0
93/06/22	1250						98			8.1
93/07/20	1245						140			17.0
93/08/17	1300						11			19.0
93/09/21	1245						1K			2.9

01B050 7301B050
SILVER CREEK NEAR BRENNAN
48 48 37.0 122 34 03.0 2F000 Elev= 0 ft
53073 Washington Whatcom Co. PACIFIC NORTHWEST
PUGET SOUND (Nooksack-01) 131101
21540000 Reach=17110004001 0.000 Drg= 0 sqmi
AMBNT/STREAM/RMP

INDEX 1311022 000010
MILES 0000.60 0002.50 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L
92/10/20	1430		436065	12.0	754	250	5.2	48.4	7.30	5.0	0.024	0.010K
92/11/17	1335		476065	9.5	767	240	8.1	70.1	7.50	4.0	0.025	0.010K
92/12/15	1310		516065	3.8	773	218	12.0	89.5	7.60	4.0	0.017	0.010K
93/02/16	1350		86065	0.5	773	211	11.6	79.1	7.30	9.0	0.041	0.010K
93/03/16	1350		126065	7.7	765	251	11.6	96.4	7.70	18.0	0.044	0.010K
93/04/20	1400		176065	13.5	761	250	11.4	108.8	7.70	3.0	0.039	0.010K
93/05/18	1435		216065	16.2	759	309	3.9	39.5	7.00	2.0	0.044	0.010K
93/06/22	1445		266065	15.7	769	302	3.7	36.6	7.00	2.0	0.015	0.010K
93/07/20	1400		306065	16.2	766	373	0.4	4.0	6.90	11.0	0.043	0.010K
93/08/17	1400		346065	18.4	768	438	0.4	4.2	6.90	12.0	0.036	0.010K
93/09/21	1400		396065	11.7	771	420	2.1	19.0	7.00	4.0		0.010K

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	1042 COPPER CU,TOT UG/L	1074 NICKEL TOT REC UG/L	1092 ZINC ZN,TOT UG/L	1094 ZINC TOT REC UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L
92/10/20	1430		0.150	0.066	0.029	92		10.0K		7.0V		
92/11/17	1335		0.314	0.054	0.017	94		10.0K		4.0P		
92/12/15	1310		0.487	0.056	0.020	87		10.0K		4.0P		
93/02/16	1350		0.491	0.055	0.023	102		10.0K		6.7P		
93/03/16	1350		0.241	0.078	0.015	98		10.0K		26.0P		
93/04/20	1400		0.043	0.050	0.025	100		10.0K		6.4P		
93/05/18	1435		0.045	0.085	0.047	124		10.0K		6.0J		
93/06/22	1445		0.010K	0.057	0.026	127		10.0K		34.0P		
93/07/20	1400		0.022	0.142	0.016	148		10.0K		5.7P		
93/08/17	1400		0.010K	0.152	0.061	167		10.0K		4.0K		
93/09/21	1400				0.010K	140		10.0U				

DATE FROM TO	TIME	DEPTH FEET	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L	31616 FEC COLI MFM-FCBR /100ML	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/10/20	1430			3.0K	280		4.6
92/11/17	1335			4.3P	100		4.9

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L	31616 FEC COLI MFM-FCBR /100ML	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/12/15	1310			3.8P	120S		5.4
93/02/16	1350			3.7P	27		6.6
93/03/16	1350			8.9P	190		11.0
93/04/20	1400			3.3P	39		3.4
93/05/18	1435			3.0K	52		2.8
93/06/22	1445			3.0K	290		1.4
93/07/20	1400			3.0K	3800J		3.7
93/08/17	1400			3.0K	200X		7.9
93/09/21	1400			3.0U	37		2.4

03A060 5703A060 12200500 541035
SKAGIT RIVER NEAR MOUNT VERNON
48 26 42.0 122 20 03.0 2F 0 Elev= 0 ft
53057 Washington Skagit Co. PACIFIC NORTHWEST
PUGET SOUND (Lower Skagit-03) 131103
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 02-03-06 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311082
MILES 0015.90 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L
92/10/21	0920		436069	10.9	758	11700			45	10.5	94.9	
92/11/18	0840		476069	9.0	770	14200			48	11.3	96.2	
92/12/16	0910		516069	5.0	765	11900			57	12.8	99.3	
93/01/20	0850		46069	3.5	742	9190			67	13.2	101.7	
93/02/17	0925		86069	1.4	775	12200			59	13.5	94.0	
93/03/17	0845		126069	4.6	755	10100			55	12.4	96.5	
93/04/21	0900		176069	8.2	765	8720			58	11.4	95.8	
93/05/19	0830		216069	10.7	764	26800			32	11.3	100.8	
93/06/23	0930		266069	10.2	774	16500			37	11.0	95.8	
93/07/21	0840		306069	12.0	766	21500			30	10.6	97.1	
93/08/18	0855		346069	14.2	769	9390			45	10.4	99.6	
93/09/22	0850		396069	11.7	773	7430			52	11.1	100.1	

DATE FROM TO	TIME	DEPTH FEET	400 PH SU	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L
92/10/21	0920		7.30					84.0		0.027	0.010K	
92/11/18	0840		7.50					33.0		0.010K	0.010K	
92/12/16	0910		7.40					25.0		0.010	0.010K	
93/01/20	0850		7.60					23.0		0.015	0.010K	
93/02/17	0925		7.30					12.0		0.015	0.010K	
93/03/17	0845		7.50					11.0		0.020	0.010K	
93/04/21	0900		7.80					7.0		0.013	0.010K	
93/05/19	0830		8.10					74.0		0.010K	0.010K	
93/06/23	0930		7.30					14.0		0.010K	0.010K	
93/07/21	0840		7.30					111.0		0.010K	0.010K	
93/08/18	0855		7.40					32.0		0.011	0.010K	
93/09/22	0850		7.80					10.0			0.010K	

DATE FROM TO	TIME	DEPTH FEET	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L
92/10/21	0920				0.100		0.049	0.010K				
92/11/18	0840				0.133		0.020	0.010K				
92/12/16	0910				0.171		0.012	0.010K				
93/01/20	0850				0.140		0.015	0.010K				
93/02/17	0925				0.137		0.015	0.010K				
93/03/17	0845				0.140		0.018	0.010K				
93/04/21	0900				0.121		0.010K	0.010				
93/05/19	0830				0.081		0.031	0.010K				
93/06/23	0930				0.064		0.010K	0.010K				
93/07/21	0840				0.065		0.036	0.010K				
93/08/18	0855				0.059		0.023	0.010K				
93/09/22	0850							0.010K				

DATE FROM TO	TIME	DEPTH FEET	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	931 SODIUM ADSBTION RATIO	932 PERCENT SODIUM %	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1005 BARIUM BA,DISS UG/L	1020 BORON B,DISS UG/L	1025 CADMIUM CD,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1065 NICKEL NI,DISS UG/L	1075 SILVER AG,DISS UG/L	1090 ZINC ZN,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1145 SELENIUM SE,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML	31672 FECSTREP PC M-ENT /100ML	70300 RESIDUE DISS-180 C MG/L	70301 DISS SOL SUM MG/L
92/10/21	0920							84				
92/11/18	0840							6				
92/12/16	0910							4				
93/01/20	0850							3				
93/02/17	0925							3K				
93/03/17	0845							5				
93/04/21	0900							4				
93/05/19	0830							15				
93/06/23	0930							12				
93/07/21	0840							140				
93/08/18	0855							34				
93/09/22	0850							10				

DATE FROM TO	TIME	DEPTH FEET	70302 DISS SOL TONS/DAY	70303 DISS SOL TONS PER ACRE-FT	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU

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MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	70302 DISS SOL TONS/DAY	70303 DISS SOL TONS PER ACRE-FT	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/21	0920					15.0
92/11/18	0840					4.1
92/12/16	0910					2.6
93/01/20	0850					1.3
93/02/17	0925					1.9
93/03/17	0845					2.7
93/04/21	0900					1.6
93/05/19	0830					15.0
93/06/23	0930					3.1
93/07/21	0840					10.0
93/08/18	0855					10.0
93/09/22	0850					2.4

03B050 5703B050 12201500 541034
SAMISH RIVER NEAR BURLINGTON
48 32 46.0 122 20 13.0 2F 0 Elev= 0 ft
53057 Washington Skagit Co. PACIFIC NORTHWEST
PUGET SOUND (Lower Skagit-03) 131103
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 02-03-10 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311044
MILES 0010.40 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L
92/10/21	0845		436068	11.6	758	800			56	10.3	94.5	
92/11/18	0810		476068	8.8	770	230			67	11.3	95.7	
92/12/16	0840		516068	4.1	766	280			65	12.6	95.5	
93/01/20	0815		46068	3.2	741	198			85	12.7	97.2	
93/02/17	0855		86068	0.5	776	118			79	13.8	93.8	
93/03/17	0810		126068	6.2	756	145			77	11.6	94.0	
93/04/21	0830		176068	9.7	765	226			69	10.9	95.0	
93/05/19	0755		216068	13.6	763	138			77	10.1	96.2	
93/06/23	0850		266068	11.8	774	140			74	10.4	93.9	
93/07/21	0810		306068	13.0	766	152			71	10.1	94.6	
93/08/18	0810		346068	13.5	768	49			102	10.1	95.3	
93/09/22	0820		396068	8.8	773	33			110	11.2	94.4	

DATE FROM TO	TIME	DEPTH FEET	400 PH SU	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L
92/10/21	0845		7.20			629.0	0.028	0.010K				1.220
92/11/18	0810		7.40			12.0	0.028	0.010K				0.935
92/12/16	0840		7.30			8.0	0.021	0.010K				1.070
93/01/20	0815		7.60			39.0	0.080	0.010K				0.849
93/02/17	0855		7.40			7.0	0.020	0.010K				0.905
93/03/17	0810		7.50			11.0	0.032	0.010K				0.700
93/04/21	0830		7.60			10.0	0.024	0.010K				0.694
93/05/19	0755		7.40			7.0	0.014	0.010K				0.626
93/06/23	0850		7.10			8.0	0.010K	0.010K				0.478
93/07/21	0810		7.30			24.0	0.018	0.010K				0.538
93/08/18	0810		7.70			2.0	0.010	0.010K				0.553
93/09/22	0820		7.90			4.0		0.010K				

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L
92/10/21	0845			0.166	0.010K							
92/11/18	0810			0.026	0.010K							
92/12/16	0840			0.018	0.010K							
93/01/20	0815			0.038	0.011							
93/02/17	0855			0.019	0.010K							
93/03/17	0810			0.032	0.010K							
93/04/21	0830			0.010K	0.011							
93/05/19	0755			0.023	0.010K							
93/06/23	0850			0.019	0.010K							
93/07/21	0810			0.041	0.010K							
93/08/18	0810			0.016	0.010K							
93/09/22	0820				0.010K							

DATE FROM TO	TIME	DEPTH FEET	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1045 IRON FE,TOT UG/L	31501 TOT COLI MFIMENDO /100ML	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L
92/10/21	0845										2200	
92/11/18	0810										8	
92/12/16	0840										17	
93/01/20	0815										170	
93/02/17	0855										15	
93/03/17	0810										140	
93/04/21	0830										73	
93/05/19	0755										240	
93/06/23	0850										580	
93/07/21	0810										2200	
93/08/18	0810										200	
93/09/22	0820										63	

DATE FROM TO	TIME	DEPTH FEET	82079 TURBIDTY LAB NTU
92/10/21	0845		97.0
92/11/18	0810		5.0
92/12/16	0840		3.8
93/01/20	0815		20.0
93/02/17	0855		3.0
93/03/17	0810		7.3
93/04/21	0830		4.3
93/05/19	0755		3.6
93/06/23	0850		5.0
93/07/21	0810		10.0

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	82079 TURBIDTY LAB NTU
93/08/18	0810		2.3
93/09/22	0820		1.6

03C060 5703C060 12201100
FRIDAY CR BLW HATCH NR BURLNGTON
48 33 32.0 122 19 38.0 2F 0 Elev= 0 ft
53057 Washington Skagit Co. PACIFIC NORTHWEST
PUGET SOUND (Lower Skagit-03) 131103
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 02-03-10 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1311044 000050
MILES 0010.80 0000.80 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L
92/10/21	0820		436067	12.1	756	472		65	9.7	90.2	7.60	203.0
92/11/18	0745		476067	9.0	769	145		60	11.0	93.7	7.70	12.0
92/12/16	0800		516067	4.2	765	190		57	12.9	98.1	7.30	5.0
93/01/20	0750		46067	2.5	741	132		80	13.3	99.9	7.50	29.0
93/02/17	0835		86067	0.0	775	47		63	14.2	95.3	7.80	4.0
93/03/17	0750		126067	6.0	755	44		75	11.9	96.0	7.50	11.0
93/04/21	0810		176067	10.4	764	94		62	10.8	95.7	7.80	6.0
93/05/19	0735		216067	15.2	763	56		66	10.1	99.6	7.00	5.0
93/06/23	0830		266067	13.2	773	56		61	10.1	94.2	7.20	7.0
93/07/21	0755		306067	13.9	766	31		78	9.7	92.7	7.60	14.0
93/08/18	0750		346067	14.2	767	11		109	10.1	96.9	7.70	1.0
93/09/22	0800		396067	8.8	773	9		101	10.8	91.1	7.90	1.0

DATE FROM TO	TIME	DEPTH FEET	610 NH3+NH4-N TOTAL MG/L	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	31672 FECSTREP PC M-ENT /100ML	82079 TURBIDTY LAB NTU
92/10/21	0820		0.030	0.010K	1.600	0.073	0.010K		4000		54.0
92/11/18	0745		0.029	0.010K	1.060	0.022	0.010K		23		4.7
92/12/16	0800		0.029	0.010K	1.080	0.017	0.010K		12		3.4
93/01/20	0750		0.053	0.010K	0.804	0.025	0.010K		170		22.0
93/02/17	0835		0.018	0.010K	0.837	0.020	0.010K		3		2.3
93/03/17	0750		0.040	0.010K	0.788	0.037	0.010K		77		12.0
93/04/21	0810		0.020	0.010K	0.727	0.021	0.010		37		3.7
93/05/19	0735		0.016	0.010K	0.539	0.021	0.010K		120		3.0
93/06/23	0830		0.010K	0.010K	0.420	0.021	0.010K		750		4.0
93/07/21	0755		0.020	0.010K	0.557	0.042	0.010K		2100		14.0
93/08/18	0750		0.010K	0.010K	0.486	0.019	0.011		20		1.3
93/09/22	0800			0.010K			0.010K		6		1.2

04A060 5704A060 12194000
SKAGIT RIVER AT CONCRETE
48 31 32.0 121 46 13.0 2F 0 Elev= 0 ft
53057 Washington Skagit Co. PACIFIC NORTHWEST
PUGET SOUND (Upper Skagit-04) 131104
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 02-04-07 Class= AA Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311082
MILES 0054.10 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L	400 PH SU
92/10/20	1205		436062	10.4	751	11900		36	10.7	96.5		7.40
92/11/17	1100		476062	9.2	762	12400		47	11.5	99.4		7.40
92/12/15	1025		516062	5.8	768	10700		54	12.3	97.0		7.40
93/01/19	1140		46062	0.6	753	4910		65	13.3	93.4		7.60
93/02/16	1100		86062	2.1	770	10600		57	13.5	96.5		7.40
93/03/16	1050		126062	3.8	764	10500		52	13.0	98.0		7.50
93/04/20	1115		176062	6.5	760	7690		54	11.9	96.7		7.50
93/05/18	1100		216062	8.0	754	24300		29	11.9	100.9		7.30
93/06/22	1125		266062	9.6	765	15300		34	11.3	98.2		7.30
93/07/20	1115		306062	12.1	762	15900		36	10.7	98.8		7.00
93/08/17	1130		346062	13.5	764	9610		44	10.6	100.6		7.30
93/09/21	1110		396062	11.5	767	7080		48	10.8	97.7		7.50

DATE FROM TO	TIME	DEPTH FEET	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L
92/10/20	1205						266.0		0.017	0.010K		
92/11/17	1100						34.0		0.010	0.010K		
92/12/15	1025						12.0		0.010K	0.010K		
93/01/19	1140						2.0		0.016	0.010K		
93/02/16	1100						5.0		0.015	0.010K		
93/03/16	1050						9.0		0.013	0.010K		
93/04/20	1115						4.0		0.010K	0.010K		
93/05/18	1100						92.0		0.010K	0.010K		
93/06/22	1125						9.0		0.010K	0.010K		
93/07/20	1115						24.0		0.010K	0.010K		
93/08/17	1130						35.0		0.010K	0.010K		
93/09/21	1110						5.0			0.010K		

DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L
92/10/20	1205			0.068	0.060	0.010K						
92/11/17	1100			0.100	0.014	0.010K						
92/12/15	1025			0.125	0.010K	0.010K						
93/01/19	1140			0.105	0.010K	0.010K						
93/02/16	1100			0.125	0.012	0.010K						
93/03/16	1050			0.119	0.016	0.010K						
93/04/20	1115			0.093	0.013	0.010K						
93/05/18	1100			0.074	0.028	0.010K						
93/06/22	1125			0.052	0.010K	0.010K						
93/07/20	1115			0.045	0.010K	0.010K						
93/08/17	1130			0.057	0.015	0.010K						
93/09/21	1110					0.010K						

DATE FROM TO	TIME	DEPTH FEET	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	1000 ARSENIC AS,DISS UG/L	1005 BARIUM BA,DISS UG/L	1025 CADMIUM CD,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1049 LEAD PB,DISS UG/L	1065 NICKEL NI,DISS UG/L	1075 SILVER AG,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1130 LITHIUM LI,DISS UG/L	1145 SELENIUM SE,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	31672 FECSTREP PC M-ENT /100ML	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/20	1205							16			16.0
92/11/17	1100							5			3.4
92/12/15	1025							5J			3.5
93/01/19	1140										1.4
93/02/16	1100							1K			1.3
93/03/16	1050							1K			1.6
93/04/20	1115							2			1.3
93/05/18	1100							5			13.0
93/06/22	1125							9			2.6
93/07/20	1115							47			2.1
93/08/17	1130							18			7.7
93/09/21	1110							5			1.4

04A100 5704A100 12181000 541038
SKAGIT RIVER AT MARBLEMOUNT
48 31 35.0 121 25 40.0 2F 0 Elev= 0 ft
53057 Washington Skagit Co. PACIFIC NORTHWEST
PUGET SOUND (Upper Skagit-04) 131104
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 02-04-07 Class= AA Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311082
MILES 0078.20 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/20	1045		436060	9.7	749	5240			35	10.9	97.0	7.50
92/11/17	0945		476060	9.0	759	4960			50	11.5	99.3	7.40
92/12/15	0905		516060	6.2	764	4030			53	11.9	95.4	7.70
93/01/19	1000		46060	0.6	750	4430			61	13.2	93.0	7.70
93/02/16	0950		86060	1.9	767	5750			56	13.5	96.4	7.50
93/03/16	0950		126060	3.1	762	3400			54	13.2	97.9	7.50
93/04/20	1000		176060	5.1	756	3290			52	12.4	97.7	7.80
93/05/18	0950		216060	8.0	753	6340			23	12.1	102.8	7.30
93/06/22	1000		266060	9.0	761	3050			25	11.5	99.0	7.50
93/07/20	0955		306060	10.0	758	5330			33	11.0	97.3	7.40
93/08/17	1000		346060	11.9	762	5430			40	11.1	101.6	7.60
93/09/21	1000		396060	9.3	765	2900J			47	11.5	99.2	7.40

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L
92/10/20	1045					4.0	0.010	0.010K			0.081	
92/11/17	0945					1.0	0.010K	0.010K			0.066	
92/12/15	0905					1.0K	0.010K	0.010K			0.066	
93/01/19	1000					1.0K	0.010K	0.010K			0.059	
93/02/16	0950					1.0	0.010	0.010K			0.061	
93/03/16	0950					1.0K	0.012	0.010K			0.067	
93/04/20	1000					1.0	0.010K	0.010K			0.072	
93/05/18	0950					2.0	0.010K	0.010K			0.069	
93/06/22	1000					1.0	0.010K	0.010K			0.047	
93/07/20	0955					4.0	0.010K	0.010K			0.050	
93/08/17	1000					1.0K	0.010K	0.010K			0.049	
93/09/21	1000					1.0		0.010K				

DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	931 SODIUM ADSBTION RATIO	932 PERCENT SODIUM %	935 PTSSIUM K,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	931 SODIUM ADSBTION RATIO	932 PERCENT SODIUM %	935 PTSSIUM K,DISS MG/L
92/10/20	1045		0.013	0.010K								
92/11/17	0945		0.010K	0.010K								
92/12/15	0905		0.010K	0.010K								
93/01/19	1000		0.010K	0.010K								
93/02/16	0950		0.010K	0.010K								
93/03/16	0950		0.027	0.010K								
93/04/20	1000		0.010K	0.010K								
93/05/18	0950		0.010K	0.010K								
93/06/22	1000		0.010K	0.010K								
93/07/20	0955		0.010K	0.010K								
93/08/17	1000		0.010K	0.010K								
93/09/21	1000			0.010K								

DATE FROM TO	TIME	DEPTH FEET	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1045 IRON FE,TOT UG/L	31501 TOT COLI MFIMENDO /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML
92/10/20	1045											4
92/11/17	0945											2
92/12/15	0905											2
93/02/16	0950											1
93/03/16	0950											1K
93/04/20	1000											1K
93/05/18	0950											1K
93/06/22	1000											7
93/07/20	0955											94
93/08/17	1000											6
93/09/21	1000											11

DATE FROM TO	TIME	DEPTH FEET	70300 RESIDUE DISS-180 C MG/L	70301 DISS SOL SUM MG/L	70302 DISS SOL TONS/DAY	70303 DISS SOL TONS PER ACRE-FT	82079 TURBIDTY LAB NTU
92/10/20	1045						2.2
92/11/17	0945						0.4
92/12/15	0905						0.4
93/01/19	1000						0.3
93/02/16	0950						0.3
93/03/16	0950						0.2
93/04/20	1000						0.3
93/05/18	0950						1.5
93/06/22	1000						1.1
93/07/20	0955						1.9
93/08/17	1000						1.7

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	70300 RESIDUE DISS-180 C MG/L	70301 DISS SOL SUM MG/L	70302 DISS SOL TONS/DAY	70303 DISS SOL TONS PER ACRE-FT	82079 TURBIDTY LAB NTU
93/09/21	1000						0.9

04B070 5704B070 12193500 541036
BAKER RIVER AT CONCRETE
48 32 26.0 121 44 35.0 2F 0 Elev= 0 ft
53057 Washington Skagit Co. PACIFIC NORTHWEST
PUGET SOUND (Upper Skagit-04) 131104
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 02-04-07 Class= AA Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311082 000530
MILES 0056.50 0000.60 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L
92/10/20	1130		436061	13.6	750	3040			44	9.9	95.9	
92/11/17	1030		476061	10.7	759	3110			45	10.6	95.2	
92/12/15	1000		516061	7.3	767	3120			48	11.3	92.6	
93/01/19	1120		46061	1.7	751	126			52	12.7	92.1	
93/02/16	1040		86061	3.5	769	3240			50	12.6	93.6	
93/03/16	1035		126061	3.9	764	2860			57	12.7	96.0	
93/04/20	1050		176061	4.3	759	65			66	12.1	93.0	
93/05/18	1035		216061	7.6	754	4150			49	12.4	104.2	
93/06/22	1050		266061	10.9	763	4100			35	11.2	100.5	
93/07/20	1045		306061	11.6	761	4190			35	10.7	97.9	
93/08/17	1100		346061	14.2	765	1380			41	11.2	107.8	
93/09/21	1045		396061	13.8	768	3000			40	9.7	92.2	

DATE FROM TO	TIME	DEPTH FEET	400 PH SU	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L
92/10/20	1130		7.40					2.0	0.010K	0.010K		
92/11/17	1030		7.20					2.0	0.010K	0.010K		
92/12/15	1000		7.30					2.0	0.010K	0.010K		
93/01/19	1120		7.40					2.0	0.019	0.010K		
93/02/16	1040		7.10					2.0	0.015	0.010K		
93/03/16	1035		7.40					2.0	0.014	0.010K		
93/04/20	1050		7.50					10.0	0.015	0.010K		
93/05/18	1035		7.10					3.0	0.010K	0.010K		
93/06/22	1050		7.80					2.0	0.010K	0.010K		
93/07/20	1045		6.80					2.0	0.010K	0.010K		
93/08/17	1100		7.40					1.0K	0.010K	0.010K		
93/09/21	1045		7.10					2.0		0.010K		

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L
92/10/20	1130		0.018		0.014	0.010K						
92/11/17	1030		0.078		0.010K	0.010K						
92/12/15	1000		0.115		0.010K	0.010K						
93/01/19	1120		0.145		0.010K	0.010K						
93/02/16	1040		0.147		0.014	0.010K						
93/03/16	1035		0.133		0.016	0.010K						
93/04/20	1050		0.142		0.013	0.010K						
93/05/18	1035		0.097		0.010K	0.010K						
93/06/22	1050		0.064		0.010K	0.010K						
93/07/20	1045		0.058		0.010K	0.010K						
93/08/17	1100		0.065		0.010K	0.010K						
93/09/21	1045					0.010K						

DATE FROM TO	TIME	DEPTH FEET	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1005 BARIUM BA,DISS UG/L	1020 BORON B,DISS UG/L	1025 CADMIUM CD,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1075 SILVER AG,DISS UG/L	1090 ZINC ZN,DISS UG/L	1105 ALUMINUM AL,TOT UG/L	1145 SELENIUM SE,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L
92/10/20	1130										1	
92/11/17	1030										1	
92/12/15	1000										1K	
93/02/16	1040										1K	
93/03/16	1035										1K	
93/04/20	1050										1K	
93/05/18	1035										1	
93/06/22	1050										1	
93/07/20	1045										1	
93/08/17	1100										12	
93/09/21	1045										1K	

DATE FROM TO	TIME	DEPTH FEET	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/20	1130			2.0
92/11/17	1030			2.9
92/12/15	1000			2.5
93/01/19	1120			1.9

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
93/02/16	1040			2.2
93/03/16	1035			2.0
93/04/20	1050			9.7
93/05/18	1035			2.9
93/06/22	1050			1.7
93/07/20	1045			1.5
93/08/17	1100			1.9
93/09/21	1045			1.0

04C070 5704C070 12189498
SAUK RIVER NEAR ROCKPORT
48 24 24.0 121 33 27.0 2F 0 Elev= 0 ft
53057 Washington Skagit Co. PACIFIC NORTHWEST
PUGET SOUND (Upper Skagit-04) 131104
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 02-04-07 Class= AA Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311082 000660
MILES 0067.20 0007.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	410 T ALK CACO3 MG/L
92/10/20	1005		436059	9.1	749	2660		35	10.8	94.8	7.80	
92/11/17	0850		476059	7.5	759	2780		39	11.7	97.5	7.20	
92/12/15	0830		516059	3.2	764	2710		51	12.9	95.7	7.80	
93/01/19	0910		46059	1.3	749	1370		72	13.7	98.6	7.60	
93/02/16	0910		86059	0.7	767	1940		55	13.7	94.7	7.40	
93/03/16	0905		126059	3.0	763	3490		44	12.9	95.4	7.70	
93/04/20	0930		176059	5.9	758	3010		48	12.1	97.0	7.80	
93/05/18	0905		216059	7.4	754	10500		27	12.0	100.4	7.50	
93/06/22	0920		266059	8.4	762	5500		34	11.4	96.7	7.80	
93/07/20	0910		306059	10.9	758	4530		35	10.5	94.9	7.20	
93/08/17	0920		346059	13.3	772	2140		46	10.7	100.0	7.80	
93/09/21	0920		396059	8.7	765	1190		62	11.5	97.8	7.50	

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P
92/10/20	1005				367.0	0.011	0.010K			0.090	0.022	0.010K
92/11/17	0850				247.0	0.010K	0.010K			0.114	0.024	0.010K
92/12/15	0830				27.0	0.010K	0.010K			0.167	0.017	0.010K
93/01/19	0910				4.0	0.013	0.010K			0.136	0.010K	0.010K
93/02/16	0910				5.0	0.010	0.010K			0.129	0.011	0.010K
93/03/16	0905				10.0	0.010K	0.010K			0.131	0.019	0.010K
93/04/20	0930				5.0	0.010K	0.010K			0.079	0.010K	0.010K
93/05/18	0905				124.0	0.010K	0.010K			0.058	0.033	0.010K
93/06/22	0920				18.0	0.010K	0.010K			0.027	0.010K	0.010K
93/07/20	0910				118.0	0.010K	0.010K			0.029	0.041	0.010K
93/08/17	0920				361.0	0.016	0.010K			0.032	0.075	0.010K
93/09/21	0920				35.0		0.010K					0.010K

DATE FROM TO	TIME	DEPTH FEET	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1049 LEAD PB,DISS UG/L	1090 ZINC ZN,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/20	1005					17		26.0
92/11/17	0850					4		6.8
92/12/15	0830					3		6.5
93/01/19	0910							0.8
93/02/16	0910					1K		1.4
93/03/16	0905					1K		2.4
93/04/20	0930					1K		1.6
93/05/18	0905					2		17.0
93/06/22	0920					41		3.6
93/07/20	0910					84		7.6
93/08/17	0920					9		60.0
93/09/21	0920					8		4.4

05A070 6105A070 12167700 541039
STILLAGUAMISH RIVER NEAR SILVANA
48 11 50.0 122 12 34.0 2F 0 Elev= 0 ft
53061 Washington Snohomish Co. PACIFIC NORTHWEST
PUGET SOUND (Stillaguamish-05) 131105
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 03-05-02 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311106
MILES 0011.10 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/21	1000		436070	10.5	758	5100			30	10.5	94.0	7.40
92/11/18	0930		476070	8.2	770	3800			43	11.5	96.0	7.50
92/12/16	1000		516070	3.3	765	3280			49	12.9	95.9	7.30
93/01/20	0950		46070	3.5	743	1560			74	13.3	102.3	7.50
93/02/17	1050		86070	0.5	774	1700			60	14.0	95.3	7.20
93/03/17	0930		126070	4.9	755	3330			40	12.2	95.7	7.60
93/04/21	0955		176070	8.7	765	3010			46	11.1	94.4	7.60
93/05/19	0910		216070	13.0	763	4210			33	10.3	96.9	7.20
93/06/23	1015		266070	9.9	774	4520			32	10.8	93.4	7.20
93/07/21	0920		306070	12.9	766	4900			29	10.2	95.4	7.00
93/08/18	0930		346070	16.5	768	750			80	9.4	94.6	7.50
93/09/22	0940		396070	11.2	773	640			76	10.5	93.7	7.80

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L
92/10/21	1000					125.0	0.013	0.010K				0.192
92/11/18	0930					13.0	0.022	0.010K				0.440
92/12/16	1000					11.0	0.014	0.010K				0.491
93/01/20	0950					11.0	0.019	0.010K				0.455
93/02/17	1050					4.0	0.018	0.010K				0.351
93/03/17	0930					13.0	0.020	0.010K				0.243
93/04/21	0955					7.0	0.011	0.010K				0.210
93/05/19	0910					14.0	0.010K	0.010K				0.106
93/06/23	1015					48.0	0.031	0.010K				0.142
93/07/21	0920					89.0	0.028	0.010K				0.183
93/08/18	0930					6.0	0.010K	0.010K				0.176
93/09/22	0940					7.0		0.010K				

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	936 PTSSIUM K,SUSP MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	936 PTSSIUM K,SUSP MG/L
92/10/21	1000			0.058	0.010K							
92/11/18	0930			0.017	0.010K							
92/12/16	1000			0.013	0.010K							
93/01/20	0950			0.022	0.010K							
93/02/17	1050			0.018	0.010K							
93/03/17	0930			0.022	0.010K							
93/04/21	0955			0.010K	0.010K							
93/05/19	0910			0.012	0.010K							
93/06/23	1015			0.039	0.010K							
93/07/21	0920			0.074	0.010K							
93/08/18	0930			0.011	0.010K							
93/09/22	0940				0.010K							

DATE FROM TO	TIME	DEPTH FEET	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1020 BORON B,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1130 LITHIUM LI,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	71850 NITRATE TOT-NO3 MG/L
92/10/21	1000									74		
92/11/18	0930									37		
92/12/16	1000									4		
93/01/20	0950									36		
93/02/17	1050									4		
93/03/17	0930									8		
93/04/21	0955									12		
93/05/19	0910									62		
93/06/23	1015									170		
93/07/21	0920									260		
93/08/18	0930									92		
93/09/22	0940									60		

DATE FROM TO	TIME	DEPTH FEET	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/21	1000			47.0
92/11/18	0930			5.7
92/12/16	1000			4.4

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
93/01/20	0950			3.7
93/02/17	1050			2.3
93/03/17	0930			7.1
93/04/21	0955			3.6
93/05/19	0910			4.5
93/06/23	1015			23.0
93/07/21	0920			17.0
93/08/18	0930			1.5
93/09/22	0940			3.2

05A090 6105A090 12164510
SF STILLAGUAMISH R AT ARLINGTON
48 12 03.0 122 07 04.0 2F 0 Elev= 0 ft
53061 Washington Snohomish Co. PACIFIC NORTHWEST
PUGET SOUND (Stillaguamish-05) 131105
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 03-05-05 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311106
MILES 0018.20 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L	400 PH SU
92/10/19	1455		436057	10.4	757	700		50	10.3	92.1		7.40
92/11/16	1400		476057	8.0	765	1310		39	11.7	97.9		7.40
92/12/14	1430		516057	3.7	767	3700		31	13.4	100.4		7.30
93/01/18	1455		46057	0.0	758	390J		65	14.3	98.0		8.00
93/02/15	1400		86057	3.5	768	950		45	13.1	97.4		7.60
93/03/15	1415		126057	4.4	764	4590		17	12.7	97.3		7.20
93/04/19	1330		176057	7.3	768	2020		36	12.1	99.1		7.90
93/05/17	1435		216057	13.3	758	1550		31	11.1	105.8		7.20
93/06/21	1400		266057	13.6	765	1080		44	10.1	96.0		7.40
93/07/19	1435		306057	16.1	764	940		46	10.1	101.3		7.80
93/08/16	1430		346057	15.6	766	340		65	9.9	98.0		7.60
93/09/20	1420		396057	12.4	768	450		75	11.0	101.4		7.80

DATE FROM TO	TIME	DEPTH FEET	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML
92/10/19	1455		88.0	0.014	0.010K			0.123	0.015	0.010K		550
92/11/16	1400		29.0	0.024	0.010K			0.300	0.028	0.010K		230
92/12/14	1430		340.0	0.019	0.010K			0.258	0.015	0.010K		84S
93/01/18	1455		10.0	0.020				0.467	0.015			6
93/02/15	1400		6.0	0.014	0.010K			0.301	0.012	0.010K		1K
93/03/15	1415		128.0	0.010K	0.010K			0.157	0.086	0.010K		7
93/04/19	1330		21.0	0.020	0.010K			0.174	0.018	0.010K		2
93/05/17	1435		5.0	0.010K	0.010K			0.122	0.010K	0.010K		3
93/06/21	1400		3.0	0.010K	0.010K			0.136	0.010K	0.010K		14
93/07/19	1435		7.0	0.010K	0.010K			0.101	0.010K	0.010K		56
93/08/16	1430		2.0	0.010K	0.010K			0.183	0.010K	0.010K		150
93/09/20	1420		18.0		0.010K					0.010K		660

DATE FROM TO	TIME	DEPTH FEET	31672 FECSTREP PC M-ENT /100ML	82079 TURBIDTY LAB NTU

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	31672 FECSTREP PC M-ENT /100ML	82079 TURBIDTY LAB NTU
92/10/19	1455			59.0
92/11/16	1400			6.6
92/12/14	1430			80.0
93/01/18	1455			5.0
93/02/15	1400			2.1
93/03/15	1415			50.0
93/04/19	1330			13.0
93/05/17	1435			2.7
93/06/21	1400			1.0
93/07/19	1435			2.7
93/08/16	1430			1.1
93/09/20	1420			6.8

05A110 6105A110 12161000 541041
SF STILLAGUAMISH NR GRANITE FLS
48 06 12.0 121 57 07.0 2F 0 Elev= 0 ft
53061 Washington Snohomish Co. PACIFIC NORTHWEST
PUGET SOUND (Stillaguamish-05) 131105
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 03-05-06 Class= AA Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1311106
MILES 0034.60 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/19	1205		436054	9.5	750				39	11.0	97.3	7.40
92/11/16	1130		476054	7.4	755				34	12.0	100.2	7.30
92/12/14	1200		516054	2.8	757				23	13.8	102.2	7.20
93/01/18	1220		46054	0.0	751				53	14.4	99.7	7.60
93/02/15	1135		86054	2.2	760				39	13.8	100.2	7.40
93/03/15	1150		126054	3.5	753				22	13.0	98.6	7.20
93/04/19	1115		176054	4.8	761				23	12.7	98.7	7.80
93/05/17	1210		216054	9.2	753				23	11.2	98.0	7.00
93/06/21	1145		266054	12.5	755				35	10.3	96.8	7.20
93/07/19	1200		306054	13.6	757				39	10.2	98.0	7.40
93/08/16	1200		346054	15.1	757				52	10.1	100.1	7.60
93/09/20	1200		396054	10.3	760				51	11.1	98.7	7.70

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P
92/10/19	1205				96.0	0.014	0.010K		0.129		0.066	0.010K
92/11/16	1130				68.0	0.038	0.010K		0.145		0.046	0.010K
92/12/14	1200				210.0	0.028	0.010K		0.142		0.115	0.010K
93/01/18	1220				20.0	0.028			0.195		0.011	
93/02/15	1135				5.0	0.013	0.010K		0.132		0.010K	0.010K
93/03/15	1150				123.0	0.021	0.010K		0.131		0.067	0.010K
93/04/19	1115				19.0	0.020	0.010K		0.086		0.016	0.010K
93/05/17	1210				4.0	0.010K	0.010K		0.052		0.010K	0.010K
93/06/21	1145				3.0	0.010K	0.010K		0.049		0.010K	0.010K
93/07/19	1200				8.0	0.020	0.010K		0.056		0.010K	0.010K
93/08/16	1200				1.0	0.010K	0.010K		0.061		0.010K	0.010K
93/09/20	1200				47.0		0.010K					0.010K

DATE FROM TO	TIME	DEPTH FEET	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L

DATE FROM TO	TIME	DEPTH FEET	1020 BORON B,DISS UG/L	1045 IRON FE,TOT UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	71850 NITRATE TOT-NO3 MG/L	82079 TURBIDTY LAB NTU
92/10/19	1205							84			33.0
92/11/16	1130							20			30.0
92/12/14	1200							60			55.0
93/01/18	1220							1			15.0
93/02/15	1135							4			2.7
93/03/15	1150							4			36.0
93/04/19	1115							7			7.8
93/05/17	1210							3			2.1
93/06/21	1145							9			1.8
93/07/19	1200							21			3.2
93/08/16	1200							160			1.9
93/09/20	1200							160			35.0

05B070 6105B070 12166900 541040
NF STILLAGUAMISH RIVER AT CICERO
48 16 05.0 122 00 44.0 2F 0 Elev= 0 ft
53061 Washington Snohomish Co. PACIFIC NORTHWEST
PUGET SOUND (Stillaguamish-05) 131105
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 03-05-03 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311106 000290
MILES 0017.80 0009.50 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/19	1410		436056	9.4	757	1880			54	10.7	93.5	7.10
92/11/16	1330		476056	7.8	764	1860			46	11.5	95.9	7.30
92/12/14	1355		516056	3.5	765	2630			27	13.1	97.9	7.50
93/01/18	1425		46056	1.1	756	433			80	14.1	99.9	7.60
93/02/15	1335		86056	3.0	766	1020			55	13.3	97.9	7.50
93/03/15	1350		126056	4.6	762	2970			26	12.4	95.7	7.20
93/04/19	1305		176056	7.1	767	1630			40	12.2	99.6	7.30
93/05/17	1405		216056	12.4	757	1410			40	12.2	114.1	7.20
93/06/21	1335		266056	11.8	763	895			52	10.7	98.0	7.30
93/07/19	1355		306056	15.1	763	497			63	11.7	115.1	8.60
93/08/16	1400		346056	15.0	766	371			80	10.4	102.7	7.70
93/09/20	1355		396056	11.4	766	327			86	11.8	106.7	8.10

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L
92/10/19	1410					114.0	0.013	0.010K				0.221
92/11/16	1330					37.0	0.039	0.010K				0.287
92/12/14	1355					114.0	0.033	0.010K				0.311
93/01/18	1425					2.0	0.013					0.309
93/02/15	1335					6.0	0.014	0.010K				0.221
93/03/15	1350					141.0	0.012	0.010K				0.187
93/04/19	1305					19.0	0.021	0.010K				0.132
93/05/17	1405					7.0	0.010K	0.010K				0.100
93/06/21	1335					4.0	0.010K	0.010K				0.095
93/07/19	1355					4.0	0.010K	0.010K				0.022
93/08/16	1400					3.0	0.010K	0.010K				0.082
93/09/20	1355					7.0		0.010K				

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	916 CALCIUM CA-TOT MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	916 CALCIUM CA-TOT MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L
92/10/19	1410			0.101	0.010K							
92/11/16	1330			0.033	0.010K							
92/12/14	1355			0.065	0.010K							
93/01/18	1425			0.013								
93/02/15	1335			0.015	0.010K							
93/03/15	1350			0.074	0.010K							
93/04/19	1305			0.017	0.010K							
93/05/17	1405			0.010K	0.010K							
93/06/21	1335			0.010K	0.010K							
93/07/19	1355			0.010K	0.010K							
93/08/16	1400			0.010K	0.010K							
93/09/20	1355				0.010K							

DATE FROM TO	TIME	DEPTH FEET	936 PTSSIUM K,SUSP MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1020 BORON B,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L

DATE FROM TO	TIME	DEPTH FEET	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1130 LITHIUM LI,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	31672 FECSTREP PC M-ENT /100ML	70300 RESIDUE DISS-180 C MG/L
92/10/19	1410									250		
92/11/16	1330									110X		
92/12/14	1355									60		
93/01/18	1425									2		
93/02/15	1335									2		
93/03/15	1350									11		
93/04/19	1305									5		
93/05/17	1405									4		
93/06/21	1335									9		
93/07/19	1355									13		
93/08/16	1400									69		
93/09/20	1355									170		

DATE FROM TO	TIME	DEPTH FEET	71850 NITRATE TOT-NO3 MG/L	71855 NITRITE TOT-NO2 MG/L	82079 TURBIDTY LAB NTU
92/10/19	1410				32.0
92/11/16	1330				8.2
92/12/14	1355				38.0

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	71850 NITRATE TOT-NO3 MG/L	71855 NITRITE TOT-NO2 MG/L	82079 TURBIDTY LAB NTU
93/01/18	1425				1.7
93/02/15	1335				3.3
93/03/15	1350				50.0
93/04/19	1305				7.6
93/05/17	1405				3.3
93/06/21	1335				1.4
93/07/19	1355				0.6
93/08/16	1400				1.0
93/09/20	1355				4.1

05B110 6105B110 12165500
NF STILLAGUAMISH R NR DARRINGTON
48 16 48.0 121 42 04.0 2F 0 Elev= 0 ft
53061 Washington Snohomish Co. PACIFIC NORTHWEST
PUGET SOUND (Stillaguamish-05) 131105
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 03-05-03 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1311106 000290
MILES 0017.80 0030.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L
92/10/19	1325		436055	9.0	749	660		16	11.0	96.2	7.40	22.0
92/11/16	1245		476055	7.4	755	470		34	11.6	96.9	7.10	3.0
92/12/14	1325		516055	3.6	756	490		40	12.7	96.3	7.50	12.0
93/01/18	1335		46055	1.6	748	162		65	13.5	98.0	7.60	1.0
93/02/15	1250		86055	3.0	758	415		45	12.9	95.9	7.30	2.0
93/03/15	1310		126055	4.6	753	670		23	12.4	96.8	7.40	16.0
93/04/19	1225		176055	6.2	758	460		32	12.2	98.5	7.70	2.0
93/05/17	1325		216055	10.4	749	480		32	11.3	102.2	7.20	2.0
93/06/21	1255		266055	10.5	753	315		39	10.5	94.6	7.30	1.0K
93/07/19	1315		306055	13.7	754	160		50	10.3	99.5	7.40	2.0
93/08/16	1325		346055	14.5	755	121		57	10.6	104.0	7.70	1.0K
93/09/20	1310		396055	10.8	758	88		70	11.7	105.5	7.80	1.0

DATE FROM TO	TIME	DEPTH FEET	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/19	1325		0.015	0.010K	0.052	0.024	0.010K		240	2.5
92/11/16	1245		0.011	0.010K	0.173	0.010K	0.010K		9	1.1
92/12/14	1325		0.010K	0.010K	0.214	0.013	0.010K		15	2.1
93/01/18	1335		0.030		0.234	0.010K			1K	0.2
93/02/15	1250		0.010K	0.010K	0.187	0.010K	0.010K		1	0.5
93/03/15	1310		0.017	0.010K	0.123	0.017	0.010K		1K	5.2
93/04/19	1225		0.010K	0.010K	0.085	0.010K	0.010K		2	0.7
93/05/17	1325		0.010K	0.010K	0.085	0.010K	0.010K		1K	0.5
93/06/21	1255		0.010K	0.010K	0.080	0.010K	0.010K		10	0.3
93/07/19	1315		0.010K	0.010K	0.066	0.010K	0.010K		7	0.2
93/08/16	1325		0.010K	0.010K	0.078	0.010K	0.010K		12	0.3
93/09/20	1310			0.010K			0.010K		26	0.5

07A090 6107A090 12155500 541042
SNOHOMISH RIVER AT SNOHOMISH
47 54 38.0 122 05 52.0 2F 0 Elev= 0 ft
53061 Washington Snohomish Co. PACIFIC NORTHWEST
PUGET SOUND (Snohomish-07) 131107
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 03-07-10 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311116
MILES 0012.70 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L
92/10/19	1100		436053	10.7	760	2730			50	10.3	92.4	
92/11/16	1025		476053	7.4	767	8690			35	11.7	96.2	
92/12/14	1105		516053	5.1	768	5470			58	12.0	93.0	
93/01/18	1100		46053	1.4	762	2830			55	13.3	94.3	
93/02/15	1050		86053	4.1	771	5340			40	12.4	93.3	
93/03/15	1040		126053	5.5	764	13600			30	11.9	93.7	
93/04/19	1030		176053	7.4	772	12700			33	11.6	94.8	
93/05/17	1120		216053	10.0	764	15700			24	11.0	96.6	
93/06/21	1055		266053	13.8	765	7230			34	9.6	91.6	
93/07/19	1115		306053	14.7	767	4910			38	9.8	95.0	
93/08/16	1110		346053	15.5	773	2680			50	9.2	90.0	
93/09/20	1110		396053	13.6	770	1930			53	9.4	88.8	

DATE FROM TO	TIME	DEPTH FEET	400 PH SU	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L
92/10/19	1100		7.20				8.0		0.019	0.010K		
92/11/16	1025		7.10				6.0		0.040	0.010K		
92/12/14	1105		7.20				5.0		0.049	0.010K		
93/01/18	1100		7.40				3.0		0.059			
93/02/15	1050		7.20				7.0		0.020	0.010K		
93/03/15	1040		7.40				87.0		0.012	0.010K		
93/04/19	1030		7.40				16.0		0.027	0.010K		
93/05/17	1120		6.90				18.0		0.014	0.010K		
93/06/21	1055		7.00				8.0		0.010K	0.010K		
93/07/19	1115		7.00				7.0		0.010K	0.010K		
93/08/16	1110		7.30				6.0		0.014	0.010K		
93/09/20	1110		7.40				5.0			0.010K		

DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L
92/10/19	1100			0.132		0.018	0.010K					
92/11/16	1025			0.338		0.011	0.010K					
92/12/14	1105			1.010		0.017	0.010K					
93/01/18	1100			0.421		0.012						
93/02/15	1050			0.321		0.010K	0.010K					
93/03/15	1040			0.191		0.060	0.010K					
93/04/19	1030			0.264		0.017	0.010K					
93/05/17	1120			0.118		0.015	0.010K					
93/06/21	1055			0.142		0.010K	0.010K					
93/07/19	1115			0.125		0.010K	0.010K					
93/08/16	1110			0.186		0.013	0.010K					
93/09/20	1110						0.010K					

DATE FROM TO	TIME	DEPTH FEET	931 SODIUM ADSBTION RATIO	932 PERCENT SODIUM %	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1002 ARSENIC AS,TOT UG/L	1020 BORON B,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1025 CADMIUM CD,DISS UG/L	1027 CADMIUM CD,TOT UG/L	1030 CHROMIUM CR,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L	1042 COPPER CU,TOT UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1051 LEAD PB,TOT UG/L	1065 NICKEL NI,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1092 ZINC ZN,TOT UG/L	1094 ZINC TOT REC UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L	1130 LITHIUM LI,DISS UG/L	31501 TOT COLI MFIMENDO /100ML

DATE FROM TO	TIME	DEPTH FEET	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	70303 DISS SOL TONS PER ACRE-FT	71900 MERCURY HG,TOTAL UG/L	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/10/19	1100				46J					1.0
92/11/16	1025				41S					2.1
92/12/14	1105				27S					2.0
93/01/18	1100				28					1.3
93/02/15	1050				10					2.0
93/03/15	1040				33S					25.0
93/04/19	1030				280					5.7
93/05/17	1120				14					6.6

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	70303 DISS SOL TONS PER ACRE-FT	71900 MERCURY HG,TOTAL UG/L	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
93/06/21	1055				25					1.5
93/07/19	1115				87					1.3
93/08/16	1110				96					1.2
93/09/20	1110				820					1.5

07C070 6107C070 12141100
SKYKOMISH RIVER AT MONROE
47 51 08.0 121 57 29.0 2F 0 Elev= 0 ft
53061 Washington Snohomish Co. PACIFIC NORTHWEST
PUGET SOUND (Snohomish-07) 131107
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 03-07-11 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311116
MILES 0025.60 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	410 T ALK CACO3 MG/L
92/10/19	1030		436052	10.9	760	1320		35	10.5	94.6	7.40	
92/11/16	0945		476052	7.7	766	4630		29	11.6	96.2	7.20	
92/12/14	1030		516052	5.1	768	3030		36	12.3	95.4	7.30	
93/01/18	1020		46052	1.2	762	1150		40	13.6	95.9	7.40	
93/02/15	1020		86052	3.4	770	2790		32	12.9	95.4	7.30	
93/04/19	1000		176052	6.1	771	6630		25	12.2	96.6	7.80	
93/05/17	1040		216052	8.9	764	9510		18	12.0	102.6	7.10	
93/06/21	1020		266052	12.2	764	4110		25	10.4	95.9	7.20	
93/07/19	1035		306052	13.7	764	2300		32	10.3	98.2	7.10	
93/08/16	1035		346052	10.2	766	1440		32	9.8	86.2	7.50	
93/09/20	1025		396052	12.6	768	1130		39	10.0	92.6	7.40	

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P
92/10/19	1030				3.0	0.011	0.010K				0.076	0.014
92/11/16	0945				6.0	0.010K	0.010K				0.196	0.010K
92/12/14	1030				5.0	0.017	0.010K				0.257	0.010K
93/01/18	1020				2.0	0.014					0.233	0.010K
93/02/15	1020				13.0	0.010K	0.010K				0.205	0.010K
93/04/19	1000				11.0	0.016	0.010K				0.131	0.013
93/05/17	1040				18.0	0.014	0.010K				0.065	0.014
93/06/21	1020				11.0	0.010K	0.010K				0.062	0.010K
93/07/19	1035				4.0	0.010K	0.010K				0.060	0.010K
93/08/16	1035				4.0	0.010K	0.010K				0.087	0.017
93/09/20	1025				5.0		0.010K					

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML
92/10/19	1030		0.010K									10X

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML
92/11/16	0945		0.010K									7
92/12/14	1030		0.010K									4
93/01/18	1020											1K
93/02/15	1020		0.010K									2
93/04/19	1000		0.010K									14
93/05/17	1040		0.010K									6
93/06/21	1020		0.010K									13
93/07/19	1035		0.010K									34
93/08/16	1035		0.010K									30
93/09/20	1025		0.013									730J

DATE FROM TO	TIME	DEPTH FEET	82079 TURBIDTY LAB NTU
92/10/19	1030		0.7
92/11/16	0945		1.4
92/12/14	1030		1.5
93/01/18	1020		0.7
93/02/15	1020		2.1
93/04/19	1000		5.0
93/05/17	1040		7.9
93/06/21	1020		1.5
93/07/19	1035		1.0
93/08/16	1035		0.8
93/09/20	1025		1.0

07D050 6107D050 12150700
SNOQUALMIE RIVER NEAR MONROE
47 48 14.0 122 00 06.0 2F 0 Elev= 0 ft
53061 Washington Snohomish Co. PACIFIC NORTHWEST
PUGET SOUND (Snohomish-07) 131107
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 03-07-13 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1311116 000120
MILES 0020.50 0002.70 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L
92/10/19	0950		436051	10.4	760			53	10.5	93.5	7.30	3.0
92/11/16	0910		476051	7.1	766			35	11.6	94.8	7.10	8.0
92/12/14	1000		516051	5.2	768			55	12.0	93.3	7.20	5.0
93/01/18	0940		46051	1.7	761			60	13.1	93.7	7.40	3.0
93/02/15	0940		86051	4.9	770			44	11.9	91.5	7.30	5.0
93/03/15	0945		126051	6.3	763			41	11.4	91.7	7.40	24.0
93/04/19	0920		176051	8.1	772			35	11.2	93.0	8.00	12.0
93/05/17	0945		216051	10.7	765			28	10.9	97.1	7.10	11.0
93/06/21	0940		266051	14.6	764			37	9.5	92.3	7.20	8.0
93/07/19	0955		306051	14.4	767			39	9.9	95.4	7.00	6.0
93/08/16	0950		346051	14.8	765			57	9.5	92.6	7.00	2.0
93/09/20	0940		396051	13.9	768			66	9.5	90.5	7.50	3.0

DATE FROM TO	TIME	DEPTH FEET	610 NH3+NH4-N TOTAL MG/L	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/19	0950		0.017	0.010K	0.177	0.019	0.010K		53	1.6
92/11/16	0910		0.032	0.010K	0.415	0.016	0.010K		75S	2.1
92/12/14	1000		0.040	0.010K	0.828	0.027	0.010K		41S	2.2
93/01/18	0940		0.056		0.450	0.017			130S	1.4
93/02/15	0940		0.021	0.010K	0.349	0.010K	0.010K		10	1.9
93/03/15	0945		0.019	0.010K	0.285	0.013	0.010K		36	2.8
93/04/19	0920		0.031	0.010K	0.334	0.018	0.010K		460S	4.1
93/05/17	0945		0.010K	0.010K	0.156	0.010K	0.010K		20	3.5
93/06/21	0940		0.011	0.010K	0.175	0.011	0.010K		13	1.9
93/07/19	0955		0.014	0.010K	0.137	0.010K	0.010K		61	1.4
93/08/16	0950		0.014	0.010K	0.230	0.010K	0.010K		120	1.2
93/09/20	0940			0.010K			0.010K		12	1.4

08B070 3308B070 12126500 541049
SAMMAMISH RIVER AT BOTHELL
47 45 32.0 122 12 09.0 2F 0 Elev= 0 ft
53033 Washington King Co. PACIFIC NORTHWEST
PUGET SOUND (Cedar-08) 131108
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 04-08-02 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311141
MILES 0020.40 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/21	1120		436071	12.8	758	132			140	8.0	75.4	7.20
92/11/18	1040		476071	10.5	770	230			120	9.1	80.1	7.30
92/12/16	1120		516071	5.2	764	627			110	10.7	83.7	7.60
93/01/20	1105		46071	3.5	746	328			106	11.9	91.1	7.30
93/02/17	1210		86071	2.6	774	239			120	12.7	91.5	7.20
93/03/17	1050		126071	7.7	755	339			112	10.6	89.2	7.20
93/04/21	1105		176071	10.5	766	535			112	9.5	84.2	7.50
93/05/19	1025		216071	16.5	763	317			118	9.2	93.2	7.20
93/06/23	1120		266071	15.3	774	350			109	8.4	81.8	7.20
93/07/21	1035		306071	16.4	765	333			105	7.9	79.6	7.00
93/08/18	1050		346071	19.6	767	145			136	9.1	97.6	7.40
93/09/22	1050		396071	12.7	772	115			147	9.9	91.4	7.50

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L
92/10/21	1120					8.0	0.073	0.032				0.445
92/11/18	1040					11.0	0.053	0.010K				0.563
92/12/16	1120					8.0	0.055	0.010K				0.690
93/01/20	1105					48.0	0.115	0.010K				0.642
93/02/17	1210					16.0	0.036	0.010K				0.458
93/03/17	1050					11.0	0.032	0.010K				0.419
93/04/21	1105					9.0	0.029	0.010K				0.467
93/05/19	1025					4.0	0.013	0.010K				0.290
93/06/23	1120					16.0	0.044	0.010K				0.264
93/07/21	1035					16.0	0.042	0.010K				0.311
93/08/18	1050					5.0	0.032	0.010K				0.295
93/09/22	1050					12.0		0.010K				

DATE FROM TO	TIME	DEPTH FEET	650 T PO4 PO4 MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	931 SODIUM ADSBTION RATIO

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	650 T PO4 PO4 MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	931 SODIUM ADSBTION RATIO
92/10/21	1120				0.052	0.026						
92/11/18	1040				0.060	0.018						
92/12/16	1120				0.042	0.014						
93/01/20	1105				0.121	0.022						
93/02/17	1210				0.035	0.010K						
93/03/17	1050				0.055	0.019						
93/04/21	1105				0.023	0.022						
93/05/19	1025				0.031	0.010K						
93/06/23	1120				0.056	0.010K						
93/07/21	1035				0.068	0.017						
93/08/18	1050				0.030	0.022						
93/09/22	1050					0.026						

DATE FROM TO	TIME	DEPTH FEET	932 PERCENT SODIUM %	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1020 BORON B,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1045 IRON FE,TOT UG/L	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1130 LITHIUM LI,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31503 TOT COLI MFDLENDO /100ML	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML
92/10/21	1120											2000
92/11/18	1040											92S
92/12/16	1120											260S
93/01/20	1105											630S
93/02/17	1210											13
93/03/17	1050											120S
93/04/21	1105											720J
93/05/19	1025											120
93/06/23	1120											1700S
93/07/21	1035											970S
93/08/18	1050											240
93/09/22	1050											170S

DATE FROM TO	TIME	DEPTH FEET	31672 FECSTREP PC M-ENT /100ML	70300 RESIDUE DISS-180 C MG/L	70303 DISS SOL TONS PER ACRE-FT	71851 NITRATE DISS-NO3 MG/L	82079 TURBIDTY LAB NTU
92/10/21	1120						2.6
92/11/18	1040						3.8
92/12/16	1120						2.0

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	31672 FECSTREP PC M-ENT /100ML	70300 RESIDUE DISS-180 C MG/L	70303 DISS SOL TONS PER ACRE-FT	71851 NITRATE DISS-NO3 MG/L	82079 TURBIDTY LAB NTU
93/01/20	1105						22.0
93/02/17	1210						2.4
93/03/17	1050						4.4
93/04/21	1105						2.5
93/05/19	1025						2.2
93/06/23	1120						7.4
93/07/21	1035						5.0
93/08/18	1050						3.0
93/09/22	1050						4.3

08C070 3308C070 12119007 541047
CEDAR R AT LOGAN ST BR AT RENTON
47 29 09.0 122 12 28.0 2F 0 Elev= 0 ft
53033 Washington King Co. PACIFIC NORTHWEST
PUGET SOUND (Cedar-08) 131108
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 04-08-03 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311141 000040 00100
MILES 0009.35 0011.50 001.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/21	1205		436072	11.9	759	337			69	11.1	102.4	7.60
92/11/18	1130		476072	9.5	770	468			65	11.6	99.9	7.50
92/12/16	1215		516072	5.0	762	465			74	12.5	97.5	7.70
93/01/20	1220		46072	5.4	753	460			60	13.2	105.2	7.40
93/02/17	1300		86072	3.1	772	378			65	13.4	98.1	7.60
93/03/17	1135		126072	7.7	755	370			67	11.8	99.3	7.60
93/04/21	1200		176072	10.2	765	523			64	11.3	99.5	7.80
93/05/19	1110		216072	12.5	762	400			70	11.2	104.4	7.50
93/06/23	1210		266072	11.2	773	860			56	11.4	101.6	7.60
93/07/21	1135		306072	13.9	765	420			69	10.8	103.3	7.80
93/08/18	1145		346072	15.3	765	211			79	11.3	111.3	7.90
93/09/22	1140		396072	10.7	771	183			76	12.0	106.1	7.80

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L
92/10/21	1205				10.0	0.024	0.010K				0.220	
92/11/18	1130				9.0	0.026	0.010K				0.336	
92/12/16	1215				5.0	0.014	0.010K				0.606	
93/01/20	1220				65.0	0.023	0.010K				0.338	
93/02/17	1300				3.0	0.019	0.010K				0.327	
93/03/17	1135				3.0	0.014	0.010K				0.400	
93/04/21	1200				4.0	0.010K	0.010K				0.282	
93/05/19	1110				3.0	0.010K	0.010K				0.201	
93/06/23	1210				32.0	0.013	0.010K				0.201	
93/07/21	1135				9.0	0.012	0.010K				0.231	
93/08/18	1145				1.0	0.010K	0.010K				0.170	
93/09/22	1140				2.0		0.010K					

DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L
92/10/21	1205		0.023	0.010K								
92/11/18	1130		0.021	0.010K								
92/12/16	1215		0.018	0.010K								
93/01/20	1220		0.018	0.010K								
93/02/17	1300		0.021	0.010K								
93/03/17	1135		0.021	0.010K								
93/04/21	1200		0.010K	0.012								
93/05/19	1110		0.012	0.010K								
93/06/23	1210		0.028	0.010K								
93/07/21	1135		0.016	0.010K								
93/08/18	1145		0.015	0.010K								
93/09/22	1140			0.010K								

DATE FROM TO	TIME	DEPTH FEET	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1090 ZINC ZN,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML

DATE FROM TO	TIME	DEPTH FEET	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/21	1205		31			3.3
92/11/18	1130		30			1.6
92/12/16	1215		9			0.6
93/01/20	1220		180			22.0
93/02/17	1300		1			0.5
93/03/17	1135		28			1.1
93/04/21	1200		21S			0.8
93/05/19	1110		53			0.6
93/06/23	1210		900J			3.4
93/07/21	1135		160			1.9
93/08/18	1145		100			0.5
93/09/22	1140		54			0.9

09A080 3309A080
GREEN RIVER AT TUKWILA
47 27 52.0 122 14 49.0 2F000 Elev= 0 ft
53033 Washington King Co. PACIFIC NORTHWEST
PUGET SOUND (Duwamish/Green-09) 131109
21540000 Reach=17110013000 0.000 Drg= 0 sqmi
AMBNT/STREAM/RMP

INDEX 1311143
MILES 0012.40 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L
92/10/21	1245		436073	12.4	758	596	87	9.5	88.7	7.50	8.0	0.026
92/11/18	1155		476073	8.6	769	1580	55	11.0	92.9	7.40	9.0	0.010K
92/12/16	1245		516073	3.6	761	2000	52	12.7	95.6	7.40	10.0	0.021
93/01/20	1300		46073	5.0	754	641	98	11.8	93.0	7.30	21.0	0.059
93/02/17	1330		86073	2.2	772	892	94	12.8	91.5	7.10	8.0	0.031
93/03/17	1200		126073	5.0	755	3300	38	12.1	95.2	7.30	47.0	0.030
93/04/21	1245		176073	10.3	764	1390	82	10.1	89.3	7.50	11.0	0.028
93/05/19	1205		216073	12.7	760	1280	84	9.5	89.2	7.10	9.0	0.018
93/06/23	1325		266073	12.9	773	1190	75	9.9	91.6	7.50	13.0	0.012
93/07/21	1205		306073	15.2	765	991	81	9.5	93.4	7.30	25.0	0.019
93/08/18	1220		346073	17.3	764	405	122	9.0	92.5	7.20	15.0	0.023
93/09/22	1200		396073	12.0	771	340	119	10.9	99.2	7.40	6.0	

DATE FROM TO	TIME	DEPTH FEET	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	1094 ZINC TOT REC UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L
92/10/21	1245		0.010K	0.196	0.031	0.010K						
92/11/18	1155		0.010K	0.330	0.027	0.010K						
92/12/16	1245		0.010K	0.430	0.029	0.010K						
93/01/20	1300		0.010K	0.555	0.043	0.010K						
93/02/17	1330		0.010K	0.486	0.024	0.010K						
93/03/17	1200		0.010K	0.230	0.048	0.010K						
93/04/21	1245		0.010K	0.344	0.015	0.022						
93/05/19	1205		0.010K	0.235	0.025	0.010K						
93/06/23	1325		0.010K	0.255	0.025	0.010K						
93/07/21	1205		0.010K	0.387	0.045	0.012						
93/08/18	1220		0.010K	0.363	0.026	0.019						
93/09/22	1200		0.010K			0.014						

DATE FROM TO	TIME	DEPTH FEET	31616 FEC COLI MFM-FCBR /100ML	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	31616 FEC COLI MFM-FCBR /100ML	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/10/21	1245		260		2.8
92/11/18	1155		50		2.5
92/12/16	1245		11S		3.5
93/01/20	1300		79		6.9
93/02/17	1330		6		1.6
93/03/17	1200		69S		16.0
93/04/21	1245		33S		2.0
93/05/19	1205		32		2.5
93/06/23	1325		33		1.4
93/07/21	1205		1200J		4.0
93/08/18	1220		230		2.3
93/09/22	1200		37		2.4

09A190 3309A190 12107000 541110
GREEN RIVER AT KANASKAT
47 19 10.0 121 53 33.0 2F 0 Elev= 0 ft
53033 Washington King Co. PACIFIC NORTHWEST
PUGET SOUND (Duwamish/Green-09) 131109
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 04-09-07 Class= AA Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311143
MILES 0057.60 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	410 T ALK CACO3 MG/L
92/10/19	0810		436050	10.9	739	428		48	10.4	96.4	6.90	
92/11/16	0740		476050	6.6	744	1610		35	11.8	98.1	7.90	
92/12/14	0830		516050	4.8	745	556		37	12.2	96.8	7.60	
93/01/18	0810		46050	1.7	740	341		43	13.3	97.9	7.50	
93/02/15	0810		86050	3.3	748	756		40	12.8	97.3	7.50	
93/03/15	0815		126050	5.0	741	1070		34	12.2	97.8	7.60	
93/04/19	0750		176050	6.8	772	1060		34	11.7	94.2	8.10	
93/05/17	0815		216050	9.8	744	1850		30	11.0	98.7	8.00	
93/06/21	0800		266050	11.1	743	677		45	10.5	97.2	7.30	
93/07/19	0815		306050	12.0	746	301		42	10.1	95.0	7.10	
93/08/16	0805		346050	13.3	744	234		52	10.1	98.1	6.90	
93/09/20	0805		396050	13.2	747	331		48	10.1	97.4	7.80	

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P
92/10/19	0810				2.0	0.018	0.010K			0.037		0.014
92/11/16	0740				3.0	0.010K	0.010K			0.210		0.010
92/12/14	0830				10.0	0.010K	0.010K			0.239		0.016
93/01/18	0810				2.0	0.010K				0.159		0.010K
93/02/15	0810				1.0	0.010K	0.010K			0.180		0.010K
93/03/15	0815				7.0	0.020	0.010K			0.170		0.013
93/04/19	0750				2.0	0.010K	0.010K			0.076		0.010
93/05/17	0815				2.0	0.010K	0.010K			0.042		0.014
93/06/21	0800				2.0	0.017	0.010K			0.040		0.010K
93/07/19	0815				2.0	0.012	0.010K			0.059		0.010K
93/08/16	0805				1.0K	0.013	0.010K			0.069		0.010K
93/09/20	0805				3.0		0.010K					

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L
92/10/19	0810		0.010K									
92/11/16	0740		0.010K									
92/12/14	0830		0.010K									
93/02/15	0810		0.010K									
93/03/15	0815		0.010K									
93/04/19	0750		0.010K									
93/05/17	0815		0.010K									
93/06/21	0800		0.010K									
93/07/19	0815		0.010K									
93/08/16	0805		0.010K									
93/09/20	0805		0.010K									

DATE FROM TO	TIME	DEPTH FEET	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1045 IRON FE,TOT UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	82079 TURBIDTY LAB NTU
92/10/19	0810							31		1.5
92/11/16	0740							3		0.7
92/12/14	0830							15		3.5
93/01/18	0810							1		0.3
93/02/15	0810							2		0.3
93/03/15	0815							12		3.4
93/04/19	0750							1K		0.4
93/05/17	0815							1K		1.4
93/06/21	0800							7		0.4
93/07/19	0815							6		0.4
93/08/16	0805							120		0.8
93/09/20	0805							3		0.9

10A070 5310A070 12101475
PUYALLUP R AT MERIDIAN ST BRIDGE
47 12 10.0 122 17 33.0 2F 0 Elev= 0 ft
53053 Washington Pierce Co. PACIFIC NORTHWEST
PUGET SOUND (Puyallup/White-10) 131110
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 05-10-03 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311160
MILES 0008.30 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L	400 PH SU
92/10/27	1220		446116	10.4	767	1520		74	10.6	93.5		7.50
92/11/22	1315		486116	6.9	763	5000		41	11.7	95.5		7.20
92/12/21	1230		526116	4.3	767	3230		67	12.1	92.0		7.60
93/01/26	1205		56116	6.6	767	12000		46	12.3	99.1		7.20
93/02/23	1100		96116	2.9	763	2570		69	13.0	95.8		7.30
93/03/23	1145		136116	7.1	761	12700		49	11.5	94.6		7.20
93/04/27	1215		186116	9.0	772	3320		64	11.3	95.9		7.50
93/05/25	1130		226116	12.5	763	4080		50	10.3	95.7		7.20
93/06/29	1235		276116	12.3	767	3570		48	10.5	96.7		7.50
93/07/27	1150		316116	15.9	763	3580		54	10.3	103.1		7.40
93/08/24	1240		356116	13.0	772	2530		58	10.0	92.9		
93/09/28	1305		406116	11.6	766	1110		82	10.6	96.2		7.20

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P
92/10/27	1220				16.0	0.019	0.010K				0.077	0.010K
92/11/22	1315				315.0	0.039	0.010K				0.584	0.167
92/12/21	1230				21.0	0.059	0.010K				0.691	0.041
93/01/26	1205				461.0	0.067	0.010K				0.579	0.204
93/02/23	1100				34.0	0.027	0.010K				0.240	0.025
93/03/23	1145				704.0	0.045	0.010K				0.501	0.275
93/04/27	1215				11.0	0.030	0.010K				0.230	0.030
93/05/25	1130				30.0	0.033	0.010K				0.091	0.038
93/06/29	1235				72.0	0.037	0.010K				0.094	0.087
93/07/27	1150				53.0	0.018	0.010K				0.092	0.056
93/08/24	1240				100.0	0.017	0.010K				0.085	0.053
93/09/28	1305				199.0	0.019	0.010K				0.119	0.165

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	1094 ZINC TOT REC UG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	1094 ZINC TOT REC UG/L
92/10/27	1220		0.020									
92/11/22	1315		0.010K									
92/12/21	1230		0.016									
93/01/26	1205		0.012									
93/02/23	1100		0.011									
93/03/23	1145		0.031									
93/04/27	1215		0.015									
93/05/25	1130		0.010K									
93/06/29	1235		0.011									
93/07/27	1150		0.010K									
93/08/24	1240		0.019									
93/09/28	1305		0.029									

DATE FROM TO	TIME	DEPTH FEET	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/10/27	1220							31		13.0
92/11/22	1315							480J		44.0
92/12/21	1230							280		4.0
93/01/26	1205							370		60.0
93/02/23	1100							32X		2.9
93/03/23	1145							1400J		80.0
93/04/27	1215							380		2.9
93/05/25	1130							56		13.0
93/06/29	1235							410S		17.0
93/07/27	1150							51		25.0
93/08/24	1240							160		56.0
93/09/28	1305							130		138.0

10A110 5310A110 12093510 541058
PUYALLUP RIVER AT ORTING
47 05 21.0 122 12 44.0 2F 0 Elev= 0 ft
53053 Washington Pierce Co. PACIFIC NORTHWEST
PUGET SOUND (Puyallup/White-10) 131110
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 05-10-03 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311160
MILES 0022.20 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L
92/10/27	0925		446111	6.5	766	266			67	12.5	100.7	
92/11/22	0940		486111	2.4	756	1360			37	12.0	88.1	
92/12/21	0955		526111	3.7	763	649			56	12.6	94.8	
93/01/26	0900		56111	5.6	765	2490			38	12.6	99.4	
93/02/23	0820		96111	0.5	761	205			63			
93/03/23	0850		136111	6.0	755	2910			36	11.9	96.1	
93/04/27	0940		186111	7.3	768	738			49	12.0	98.2	
93/05/25	0825		226111	10.5	761	834			46	10.9	97.1	
93/06/29	0930		276111	9.3	764	1060			41	11.5	99.3	
93/07/27	0900		316111	10.3	761	843			45	11.5	102.1	
93/08/24	0930		356111	8.3	768	656			54	11.7	98.2	
93/09/28	1020		406111	8.2	766	281			75	11.6	97.4	

DATE FROM TO	TIME	DEPTH FEET	400 PH SU	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L
92/10/27	0925		7.70			19.0	0.011	0.010K				0.010K
92/11/22	0940		7.30			190.0	0.011	0.010K				0.466
92/12/21	0955		8.00			17.0	0.017	0.010K				0.371
93/01/26	0900		7.10			533.0J	0.025	0.010K				0.365
93/02/23	0820		7.20			22.0	0.012	0.010K				0.111
93/03/23	0850		7.00			1200.0	0.016	0.010K				0.283
93/04/27	0940		7.30			7.0	0.017	0.010K				0.092
93/05/25	0825		7.20			37.0	0.026	0.010K				0.053
93/06/29	0930		7.50			118.0	0.049	0.010K				0.066
93/07/27	0900		7.60			163.0	0.021	0.010K				0.049
93/08/24	0930					234.0	0.011	0.010K				0.042
93/09/28	1020		6.80			693.0	0.010K	0.010K				0.023

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L
92/10/27	0925			0.010K	0.010K							
92/11/22	0940			0.162	0.010K							
92/12/21	0955			0.014	0.010K							
93/01/26	0900			0.149	0.010K							
93/02/23	0820			0.015	0.010K							
93/03/23	0850			0.415	0.010K							
93/04/27	0940			0.015	0.010K							
93/05/25	0825			0.029	0.010K							
93/06/29	0930			0.096	0.010K							
93/07/27	0900			0.127	0.010K							
93/08/24	0930			0.080	0.010K							
93/09/28	1020			0.202	0.010K							

DATE FROM TO	TIME	DEPTH FEET	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1002 ARSENIC AS,TOT UG/L	1020 BORON B,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1032 CHROMIUM HEX-VAL UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L	1042 COPPER CU,TOT UG/L

DATE FROM TO	TIME	DEPTH FEET	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1092 ZINC ZN,TOT UG/L	1130 LITHIUM LI,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML
92/10/27	0925											2
92/11/22	0940											24
92/12/21	0955											84
93/01/26	0900											33
93/02/23	0820											2
93/03/23	0850											54
93/04/27	0940											51
93/05/25	0825											4
93/06/29	0930											27
93/07/27	0900											14
93/08/24	0930											30
93/09/28	1020											57

DATE FROM TO	TIME	DEPTH FEET	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/27	0925				18.0
92/11/22	0940				26.0
92/12/21	0955				2.9

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
93/01/26	0900				54.0
93/02/23	0820				2.6
93/03/23	0850				150.0
93/04/27	0940				2.0
93/05/25	0825				11.0
93/06/29	0930				24.0
93/07/27	0900				62.0
93/08/24	0930				110.0
93/09/28	1020				485.0

10B070 5310B070 12094300 541057
CARBON RIVER NEAR ORTING
47 05 56.0 122 09 05.0 2F 0 Elev= 0 ft
53053 Washington Pierce Co. PACIFIC NORTHWEST
PUGET SOUND (Puyallup/White-10) 131110
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 05-10-06 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1311160 000210
MILES 0017.70 0018.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/27	0950		446112	7.0	763	160			45	12.4	101.5	7.70
92/11/22	1020		486112	1.4	754	1120			24	12.2	87.4	7.60
92/12/21	1020		526112	4.1	761	320			44	12.7	96.9	7.70
93/01/26	0930		56112	5.5	762	2300			22	12.4	97.9	7.20
93/02/23	0850		96112	1.2	757	129			58			7.40
93/03/23	0925		136112	5.7	752	1590			24	12.3	98.9	7.00
93/04/27	1010		186112	6.9	765	376			38	12.0	97.7	7.70
93/05/25	0905		226112	8.8	758	748			28	11.5	99.0	7.00
93/06/29	1005		276112	8.5	761	798			25	11.6	98.7	7.40
93/07/27	0940		316112	10.3	757	441			34	11.7	104.4	7.50
93/08/24	0955		356112	8.8	765	345			34	11.5	98.0	
93/09/28	1050		406112	11.2	763	121			49	11.1	100.3	7.10

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L
92/10/27	0950				3.0	0.012	0.010K				0.010K	
92/11/22	1020				206.0	0.015	0.010K				0.214	
92/12/21	1020				41.0	0.010K	0.010K				0.289	
93/01/26	0930				489.0J	0.022	0.010K				0.199	
93/02/23	0850				6.0	0.011	0.010K				0.118	
93/03/23	0925				283.0	0.010K	0.010K				0.160	
93/04/27	1010				3.0	0.010K	0.010K				0.110	
93/05/25	0905				21.0	0.021	0.010K				0.043	
93/06/29	1005				138.0	0.062	0.010K				0.064	
93/07/27	0940				56.0	0.015	0.010K				0.048	
93/08/24	0955				211.0	0.010K	0.010K				0.055	
93/09/28	1050				33.0	0.010K	0.010K				0.014	

DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L
92/10/27	0950		0.010K	0.010K								
92/11/22	1020		0.174	0.010K								
92/12/21	1020		0.010K	0.010K								
93/01/26	0930		0.076	0.010K								
93/02/23	0850		0.010K	0.010K								
93/03/23	0925		0.105	0.010K								
93/04/27	1010		0.010K	0.010K								
93/05/25	0905		0.025	0.010K								
93/06/29	1005		0.125	0.010K								
93/07/27	0940		0.051	0.010K								
93/08/24	0955		0.065	0.012								
93/09/28	1050		0.046	0.010K								

DATE FROM TO	TIME	DEPTH FEET	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1045 IRON FE,TOT UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	82079 TURBIDTY LAB NTU
92/10/27	0950								17		6.5
92/11/22	1020								11		19.0
92/12/21	1020								9		1.7
93/01/26	0930								7		58.0
93/02/23	0850								1		0.5
93/03/23	0925								6		33.0
93/04/27	1010								1		1.0
93/05/25	0905								4J		9.2
93/06/29	1005								33		40.0
93/07/27	0940								6		30.0
93/08/24	0955								68		76.0
93/09/28	1050								10		30.0

10C070 5310C070 12101110
WHITE RIVER AT SUMNER
47 12 14.0 122 14 41.0 2F 0 Elev= 0 ft
53053 Washington Pierce Co. PACIFIC NORTHWEST
PUGET SOUND (Puyallup/White-10) 131110
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 05-10-05 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311160 000070
MILES 0009.60 0000.70 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L	400 PH SU
92/10/27	1135		446115	11.5	768	1040		71	10.1	91.2		7.60
92/11/22	1235		486115	6.8	763	2060		55	11.6	94.5		7.20
92/12/21	1150		526115	3.9	766	1760		71	12.0	90.4		7.60
93/01/26	1130		56115	5.9	767	6100		57	12.1	95.9		7.00
93/02/23	1030		96115	3.2	763	1800		62	12.8	95.1		7.40
93/03/23	1115		136115	7.6	759	6000		64	11.3	94.4		7.20
93/04/27	1150		186115	10.1	772	1660		68	10.9	94.9		7.50
93/05/25	1105		226115	13.3	764	2550		45	9.9	93.6		7.20
93/06/29	1200		276115	14.9	767	1800		53	9.6	93.5		7.40
93/07/27	1115		316115	15.1	762	1680		58	9.7	95.5		7.30
93/08/24	1155		356115	15.4	771	1300		64	9.1	89.2		
93/09/28	1245		406115	12.0	766	1480		86	10.6	97.1		7.30

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L
92/10/27	1135					10.0	0.024	0.010K				0.053
92/11/22	1235					483.0	0.058	0.010K				0.635
92/12/21	1150					14.0	0.057	0.010K				0.715
93/01/26	1130					478.0	0.092	0.010K				0.673
93/02/23	1030					32.0	0.026	0.010K				0.196
93/03/23	1115					457.0	0.082	0.010K				0.575
93/04/27	1150					10.0	0.027	0.010K				0.200
93/05/25	1105					34.0	0.026	0.010K				0.061
93/06/29	1200					8.0	0.025	0.010K				0.044
93/07/27	1115					9.0	0.023	0.010K				0.059
93/08/24	1155					21.0	0.023	0.010K				0.060
93/09/28	1245					42.0	0.027	0.010K				0.103

DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L
92/10/27	1135		0.010K	0.018								
92/11/22	1235		0.126	0.015								
92/12/21	1150		0.049	0.020								
93/01/26	1130		0.217	0.024								
93/02/23	1030		0.027	0.010K								
93/03/23	1115		0.261	0.057								
93/04/27	1150		0.038	0.018								
93/05/25	1105		0.037	0.010K								
93/06/29	1200		0.025	0.011								
93/07/27	1115		0.025	0.010K								
93/08/24	1155		0.038	0.022								
93/09/28	1245		0.091	0.050								

DATE FROM TO	TIME	DEPTH FEET	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/27	1135			14	13.0
92/11/22	1235				79.0
92/12/21	1150			230	4.0
93/01/26	1130			590	50.0
93/02/23	1030			35X	3.8
93/03/23	1115			2700J	45.0
93/04/27	1150			270	3.8
93/05/25	1105			57	15.0
93/06/29	1200			160	7.7
93/07/27	1115			23	7.4
93/08/24	1155			140	26.0
93/09/28	1245			96	25.0

10C130 3310C130
WHITE RIVER AT BUCKLEY
47 10 28.0 122 01 19.0 2F000 Elev= 0 ft
53033 Washington King Co. PACIFIC NORTHWEST
PUGET SOUND (Puyallup/White-10) 131110
21540000 Reach=17110014025 0.000 Drg= 0 sqmi
AMBNT/STREAM

INDEX 1311160 000070
MILES 0009.60 0023.10 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L
92/10/27	1055		446114	7.4	753	134	77	12.0	100.6	8.00	16.0	0.014
92/11/22	1145		486114		746	1160	45	11.9	83.0	7.30	474.0	0.019
92/12/21	1116		526114	4.3	750	178	71	12.4	96.4	7.60	10.0	0.102
93/01/26	1025		56114	5.7	752	2930	36	12.6	101.3	7.10	378.0J	0.046
93/02/23	0940		96114	1.5	747	134	58	13.5	97.9	7.60	2.0	0.014
93/03/23	1020		136114	5.8	744	2420	39	12.2	99.5	7.00	737.0	0.015
93/04/27	1105		186114	7.7	756	148	62	11.7	98.3	7.40	6.0	0.039
93/05/25	1010		226114	8.9	748	842	42	11.3	98.8	7.00	85.0	0.013
93/06/29	1110		276114	10.9	751	131	117	11.0	100.3	7.50	15.0	0.030
93/07/27	1043		316114	12.7	748	195	53	11.0	104.9	7.40	47.0	0.027
93/08/24	1110		356114	11.1	755	213	60	10.9	99.4		73.0	0.015
93/09/28	1145		406114	11.2	752	478	70	10.6	97.2	7.20	41.0	0.019

DATE FROM TO	TIME	DEPTH FEET	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/27	1055		0.010K	0.043	0.011	0.010K	16	11.0
92/11/22	1145		0.010K	0.283	0.084	0.010K	270J	30.0
92/12/21	1116		0.010K	1.040	0.068	0.033	910S	4.8
93/01/26	1025		0.010K	0.333	0.175	0.010K	150	40.0
93/02/23	0940		0.010K	0.129	0.010	0.010K	27	1.6
93/03/23	1020		0.010K	0.205	0.240	0.010K	230S	85.0
93/04/27	1105		0.010K	0.251	0.054	0.025	1300	5.5
93/05/25	1010		0.010K	0.046	0.038	0.010K	14	15.0
93/06/29	1110		0.010K	0.099	0.038	0.011	500J	14.0
93/07/27	1043		0.010K	0.094	0.048	0.010K	130	25.0
93/08/24	1110		0.010K	0.061	0.040	0.019	71	60.0
93/09/28	1145		0.010K	0.031	0.049	0.016	17	34.0

10F090 5310F090
SOUTH PRAIRIE CREEK NR SOUTH PRAIRIE
47 07 53.0 122 07 30.0 2F000 Elev= 0 ft
53053 Washington Pierce Co. PACIFIC NORTHWEST
PUGET SOUND (Puyallup/White-10) 131110
21540000 Reach=17110014018 0.000 Drg= 0 sqmi
AMBNT/STREAM

INDEX 1311160 000210 00030
MILES 0017.90 0005.90 003.80 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L
92/10/27	1020		446113	7.8	761	65	95	12.2	102.1	7.70	1.0	0.010K
92/11/22	1100		486113	2.1	753	876	53	11.6	84.8	7.30	22.0	0.014
92/12/21	1035		526113	4.5	758	346	57	12.2	94.4	7.50	4.0	0.011
93/01/26	0950		56113	6.0	760	1590	32	12.1	97.0	7.00	65.0	0.033
93/02/23	0910		96113	1.0	755	74	78			7.50	1.0	0.015
93/03/23	0945		136113	6.4	750	1770	35	11.5	94.3	6.90	100.0	0.022
93/04/27	1035		186113	7.5	764	361	56	11.6	95.9	7.70	4.0	0.021
93/05/25	0940		226113	11.5	755	211	58	10.3	94.7	7.30	2.0	0.052
93/06/29	1045		276113	10.6	758	388	53	10.9	97.7	7.30	12.0	0.012
93/07/27	1000		316113	11.5	756	263	57	11.0	101.0	7.40	2.0	0.010K
93/08/24	1015		356113	12.0	764	88	98	10.6	97.4		5.0	0.013
93/09/28	1115		406113	10.6	761	45	108	11.2	100.1	7.60	2.0	0.010K

DATE FROM TO	TIME	DEPTH FEET	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/27	1020		0.010K	0.323	0.010K	0.010K	13	0.4
92/11/22	1100		0.010K	0.891	0.024	0.010K	67S	5.2
92/12/21	1035		0.010K	0.860	0.014	0.010K	84	2.4
93/01/26	0950		0.010K	0.717	0.049	0.010K	110	18.0
93/02/23	0910		0.010K	0.621	0.011	0.010K	40	0.7
93/03/23	0945		0.010K	0.693	0.089	0.010K	800S	33.0
93/04/27	1035		0.010K	0.407	0.020	0.010K	2400S	1.9
93/05/25	0940		0.010K	0.300	0.013	0.010K	28S	1.0
93/06/29	1045		0.010K	0.292	0.029	0.010K	1000	3.8
93/07/27	1000		0.010K	0.321	0.010	0.010K	43	1.5
93/08/24	1015		0.010K	0.352	0.021	0.010K	88	1.1
93/09/28	1115		0.010K	0.466	0.017	0.011	440	0.7

11A070 6711A070 12090240
NISQUALLY RIVER AT NISQUALLY
47 03 43.0 122 41 42.0 2F 0 Elev= 0 ft
53067 Washington Thurston Co. PACIFIC NORTHWEST
PUGET SOUND (Nisqually-11) 131111
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 06-11-01 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311161 000170
MILES 0020.60 0003.40 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L	400 PH SU
92/10/27	1410		446118	11.6	766	740		71	10.7	97.2		8.00
92/11/22	1505		486118	8.2	765	2450		52	11.0	92.5		7.40
92/12/21	1445		526118	5.5	768	2170		60	12.4	97.2		7.50
93/01/26	1400		56118	7.2	767	3320		54	12.4	101.5		7.30
93/02/23	1245		96118	3.8	763	1580		66	13.4	101.1		7.70
93/03/23	1350		136118	7.9	762	4750		48	11.1	93.0		7.30
93/04/27	1415		186118	8.8	772	3500		48	11.8	99.7		7.50
93/05/25	1400		226118	11.0	763	2320		61	11.1	99.9		7.70
93/06/29	1410		276118	12.1	767	2020		58	11.3	103.6		7.40
93/07/27	1400		316118	14.9	763	1460		61	11.0	107.9		7.70
93/08/24	1410		356118	13.5	772	1140		66	11.0	103.3		
93/09/28	1530		406118	14.4	765	1000		64	9.8	94.7		7.80

DATE FROM TO	TIME	DEPTH FEET	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L
92/10/27	1410						13.0		0.020	0.010K		
92/11/22	1505						93.0		0.027	0.010K		
92/12/21	1445						9.0		0.012	0.010K		
93/01/26	1400						38.0		0.044	0.010K		
93/02/23	1245						7.0		0.018	0.010K		
93/03/23	1350						207.0		0.014	0.010K		
93/04/27	1415						13.0		0.018	0.010K		
93/05/25	1400						5.0		0.014	0.010K		
93/06/29	1410						5.0		0.015	0.010K		
93/07/27	1400						11.0		0.013	0.010K		
93/08/24	1410						5.0		0.010K	0.010K		
93/09/28	1530						91.0		0.015	0.010K		

DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L
92/10/27	1410			0.203	0.010K	0.010K						
92/11/22	1505			0.562	0.089	0.010K						
92/12/21	1445			0.440	0.022	0.010K						
93/01/26	1400			0.508	0.065	0.010K						
93/02/23	1245			0.328	0.016	0.010K						
93/03/23	1350			0.462	0.185	0.010K						
93/04/27	1415			0.233	0.023	0.010K						
93/05/25	1400			0.190	0.015	0.010K						
93/06/29	1410			0.175	0.015	0.010K						
93/07/27	1400			0.195	0.023	0.010K						
93/08/24	1410			0.126	0.015	0.010K						
93/09/28	1530			0.175	0.068	0.010K						

DATE FROM TO	TIME	DEPTH FEET	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	1000 ARSENIC AS,DISS UG/L	1002 ARSENIC AS,TOT UG/L	1005 BARIUM BA,DISS UG/L	1025 CADMIUM CD,DISS UG/L	1027 CADMIUM CD,TOT UG/L	1030 CHROMIUM CR,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1042 COPPER CU,TOT UG/L	1049 LEAD PB,DISS UG/L	1051 LEAD PB,TOT UG/L	1065 NICKEL NI,DISS UG/L	1075 SILVER AG,DISS UG/L	1090 ZINC ZN,DISS UG/L	1092 ZINC ZN,TOT UG/L	1094 ZINC TOT REC UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L

DATE FROM TO	TIME	DEPTH FEET	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L	1145 SELENIUM SE,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	71900 MERCURY HG,TOTAL UG/L	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/10/27	1410						3			19.0
92/11/22	1505						180			39.0
92/12/21	1445						14			8.0
93/01/26	1400						39			24.0
93/02/23	1245						1K			4.5
93/03/23	1350						320			70.0
93/04/27	1415						11			6.2
93/05/25	1400						14			2.0
93/06/29	1410						14			3.4
93/07/27	1400						17			2.4
93/08/24	1410						22			1.8
93/09/28	1530						28			29.0

11A080 5311A080 12089500 541065
NISQUALLY RIVER AT MCKENNA
46 56 00.0 122 33 35.0 2F 0 Elev= 0 ft
53053 Washington Pierce Co. PACIFIC NORTHWEST
PUGET SOUND (Nisqually-11) 131111
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 06-11-01 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1311161 000170
MILES 0020.60 0021.80 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/27	0835		446110	11.2	764	614			63	10.6	95.7	7.40
92/11/22	0830		486110	6.0	753	1920			46	11.3	91.4	7.30
92/12/21	0855		526110	4.7	759	1670			54	11.9	92.4	7.60
93/01/26	0755		56110	5.2	762	2480			48	12.4	97.2	7.00
93/02/23	0720		96110	2.2	757	728			55	12.9	94.1	7.00
93/03/23	0750		136110	6.7	751	3080			42	11.3	93.2	7.10
93/04/27	0840		186110	6.8	766	2570			47	11.8	95.8	7.20
93/05/25	0725		226110	9.5	759	1720			53	10.8	94.4	7.80
93/06/29	0840		276110	10.6	761	828			52	11.1	99.2	7.50
93/07/27	0800		316110	12.2	758	501			53	10.6	98.6	8.10
93/08/24	0830		356110	11.5	765	370			56	10.5	95.2	
93/09/28	0915		406110	12.5	764	370			56	10.5	97.5	7.20

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P
92/10/27	0835					30.0	0.029	0.010K		0.140		0.041
92/11/22	0830					77.0	0.030	0.010K		0.594		0.077
92/12/21	0855					8.0	0.018	0.010K		0.419		0.022
93/01/26	0755					39.0	0.045	0.010K		0.474		0.046
93/02/23	0720					5.0	0.016	0.010K		0.272		0.014
93/03/23	0750					309.0	0.024	0.010K		0.531		0.242
93/04/27	0840					12.0	0.017	0.010K		0.182		0.017
93/05/25	0725					5.0	0.013	0.010K		0.125		0.011
93/06/29	0840					5.0	0.016	0.010K		0.146		0.013
93/07/27	0800					5.0	0.013	0.010K		0.165		0.010K
93/08/24	0830					2.0	0.010	0.010K		0.115		0.013
93/09/28	0915					2.0	0.010K	0.010K		0.089		0.010K

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	931 SODIUM ADSBTION RATIO	932 PERCENT SODIUM %	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	931 SODIUM ADSBTION RATIO	932 PERCENT SODIUM %	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L
92/10/27	0835		0.010K									
92/11/22	0830		0.010K									
92/12/21	0855		0.010K									
93/01/26	0755		0.010K									
93/02/23	0720		0.010K									
93/03/23	0750		0.010K									
93/04/27	0840		0.010K									
93/05/25	0725		0.010K									
93/06/29	0840		0.010K									
93/07/27	0800		0.010K									
93/08/24	0830		0.010K									
93/09/28	0915		0.010K									

DATE FROM TO	TIME	DEPTH FEET	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1020 BORON B,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1080 STRONTUM SR,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1090 ZINC ZN,DISS UG/L	1130 LITHIUM LI,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31503 TOT COLI MFDLENDO /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	70302 DISS SOL TONS/DAY	70303 DISS SOL TONS PER ACRE-FT
92/10/27	0835								3			
92/11/22	0830								140			
92/12/21	0855								51			
93/01/26	0755								92			
93/02/23	0720								1			
93/03/23	0750								380			
93/04/27	0840								14			
93/05/25	0725								26			
93/06/29	0840								12			
93/07/27	0800								7			
93/08/24	0830								25			
93/09/28	0915								7			

DATE FROM TO	TIME	DEPTH FEET	71851 NITRATE DISS-NO3 MG/L	82079 TURBIDTY LAB NTU
92/10/27	0835			26.0
92/11/22	0830			40.0
92/12/21	0855			7.9

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	71851 NITRATE DISS-NO3 MG/L	82079 TURBIDTY LAB NTU
93/01/26	0755			24.0
93/02/23	0720			5.4
93/03/23	0750			85.0
93/04/27	0840			7.0
93/05/25	0725			2.1
93/06/29	0840			5.0
93/07/27	0800			3.0
93/08/24	0830			2.0
93/09/28	0915			3.2

12A070 5312A070 12091600 541059
CHAMBERS CREEK NEAR STEILACOOM
47 11 32.0 122 34 20.0 2F 0 Elev= 0 ft
53053 Washington Pierce Co. PACIFIC NORTHWEST
PUGET SOUND (Chambers/Clover-12) 131112
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 05-12-07 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311161 000090
MILES 0012.80 0000.90 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	40 WIND DIRECT AZIMUTH	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT
92/10/27	1330		446117	11.6	767		72			188	10.1	91.6
92/11/22	1415		486117	9.4	764		65			130	10.4	90.1
92/12/21	1410		526117	6.8	768		73			119	11.4	92.3
93/01/26	1310		56117	8.9	767		115			109	11.0	93.7
93/02/23	1200		96117	6.2	764		67			158	11.6	93.0
93/03/23	1315		136117	10.9	761		96			121	10.3	92.7
93/04/27	1320		186117	12.9	772		96			137	10.4	96.4
93/05/25	1320		226117	16.4	763		80			151	9.3	94.1
93/06/29	1330		276117	17.5	768		64			151	10.4	106.8
93/07/27	1300		316117	15.9	762		56			161	10.4	104.1
93/08/24	1335		356117	14.2	772		43			169	12.3	117.3
93/09/28	1430		406117	12.9	767		28			174	12.5	116.7

DATE FROM TO	TIME	DEPTH FEET	400 PH SU	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L
92/10/27	1330		7.50				1.0K	0.022	0.010K			
92/11/22	1415		7.40				8.0	0.050	0.021			
92/12/21	1410		7.60				8.0	0.026	0.010K			
93/01/26	1310		7.40				12.0	0.033	0.010K			
93/02/23	1200		7.50				6.0	0.029	0.011			
93/03/23	1315		7.60				9.0	0.025	0.010K			
93/04/27	1320		7.60				2.0	0.027	0.010K			
93/05/25	1320		7.40				1.0	0.033	0.011			
93/06/29	1330		7.70				1.0	0.011	0.010K			
93/07/27	1300		7.70				6.0	0.030	0.010K			
93/08/24	1335						4.0	0.017	0.011			
93/09/28	1430		8.30				1.0K	0.018	0.012			

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	650 T PO4 PO4 MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	650 T PO4 PO4 MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L
92/10/27	1330		1.360			0.057	0.052					
92/11/22	1415		0.909			0.062	0.037					
92/12/21	1410		0.910			0.044	0.019					
93/01/26	1310		0.861			0.060	0.014					
93/02/23	1200		1.220			0.038	0.019					
93/03/23	1315		0.905			0.059	0.028					
93/04/27	1320		0.885			0.036	0.020					
93/05/25	1320		1.060			0.044	0.022					
93/06/29	1330		1.010			0.037	0.026					
93/07/27	1300		0.997			0.043	0.027					
93/08/24	1335		1.300			0.039	0.044					
93/09/28	1430		1.430			0.067	0.060					

DATE FROM TO	TIME	DEPTH FEET	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1002 ARSENIC AS,TOT UG/L	1020 BORON B,DISS UG/L	1032 CHROMIUM HEX-VAL UG/L	1034 CHROMIUM CR,TOT UG/L	1042 COPPER CU,TOT UG/L

DATE FROM TO	TIME	DEPTH FEET	1045 IRON FE,TOT UG/L	1092 ZINC ZN,TOT UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	82079 TURBIDTY LAB NTU
92/10/27	1330						91		0.5
92/11/22	1415						2100J		2.1
92/12/21	1410						340		3.0
93/01/26	1310						210S		3.8
93/02/23	1200						19		1.3
93/03/23	1315						1300J		4.0
93/04/27	1320						80X		1.2
93/05/25	1320						42		0.8
93/06/29	1330						26		1.1
93/07/27	1300						35		1.1
93/08/24	1335						11		1.0
93/09/28	1430						10		1.1

13A060 6713A060 12080010
DESCHUTES R AT E STREET BRIDGE
47 00 43.0 122 54 07.0 2F 0 Elev= 0 ft
53067 Washington Thurston Co. PACIFIC NORTHWEST
PUGET SOUND (Deschutes-13) 131113
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 06-13-04 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311161 000250 00070 0080
MILES 0029.00 0005.00 008.80 000.60 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L	400 PH SU
92/10/26	1435		446108	11.5	766	86		121	11.5	104.3		7.70
92/11/22	1435		486108	7.7	762	804		70	10.7	89.2		7.20
92/12/20	1530		526108	5.6	764	600J		85	11.7	92.4		7.40
93/01/25	1620		56108	7.8	770	1090		56	11.4	94.3		7.30
93/02/22	1450		96108	5.8	766	182		102	12.8	101.3		7.50
93/03/22	1545		136108	9.6	753	356		78	10.7	94.5		7.40
93/04/26	1535		186108	10.0	767	804		61	10.8	94.4		7.40
93/05/24	1430		226108	15.6	758	241		99	10.7	107.1		7.30
93/06/28	1455		276108	14.8	763	164		101	10.5	102.7		7.50
93/07/26	1520		316108	17.9	774	135		108	11.0	112.9		7.70
93/08/23	1415		356108	17.3	765	120		116	10.1	103.7		7.60
93/09/27	1530		406108	13.6	764	75		119	11.5	109.4		7.40

DATE FROM TO	TIME	DEPTH FEET	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	1000 ARSENIC AS,DISS UG/L
92/10/26	1435		2.0	0.016	0.010K			0.609	0.019	0.013		
92/11/22	1435		87.0	0.029	0.010K			0.801	0.062	0.010K		
92/12/20	1530		13.0	0.012	0.010K			0.664	0.017	0.010K		
93/01/25	1620		79.0	0.035	0.010K			0.618	0.065	0.010K		
93/02/22	1450		2.0	0.015	0.010K			0.660	0.020	0.012		
93/03/22	1545		8.0	0.042	0.010K			0.438	0.027	0.013		
93/04/26	1535		22.0	0.021	0.010K			0.290	0.038	0.011		
93/05/24	1430		2.0	0.066	0.010K			0.404	0.019	0.010K		
93/06/28	1455		2.0	0.010K	0.010K			0.482	0.021	0.014		
93/07/26	1520		5.0	0.018	0.010K			0.549	0.021	0.010K		
93/08/23	1415		2.0	0.015	0.010K			0.674	0.023	0.020		
93/09/27	1530		3.0	0.010K	0.010K			0.672	0.019	0.014		

DATE FROM TO	TIME	DEPTH FEET	1002 ARSENIC AS,TOT UG/L	1025 CADMIUM CD,DISS UG/L	1027 CADMIUM CD,TOT UG/L	1030 CHROMIUM CR,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L	1042 COPPER CU,TOT UG/L	1049 LEAD PB,DISS UG/L	1051 LEAD PB,TOT UG/L	1090 ZINC ZN,DISS UG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	1002 ARSENIC AS,TOT UG/L	1025 CADMIUM CD,DISS UG/L	1027 CADMIUM CD,TOT UG/L	1030 CHROMIUM CR,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L	1042 COPPER CU,TOT UG/L	1049 LEAD PB,DISS UG/L	1051 LEAD PB,TOT UG/L	1090 ZINC ZN,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1092 ZINC ZN,TOT UG/L	1094 ZINC TOT REC UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L	31616 FEC COLI MFM-FCBR /100ML	71900 MERCURY HG,TOTAL UG/L	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/10/26	1435								9S			0.7
92/11/22	1435								180			33.0
92/12/20	1530								140S			5.0
93/01/25	1620								88S			27.0
93/02/22	1450								1			1.3
93/03/22	1545								300P			3.9
93/04/26	1535								260S			7.4
93/05/24	1430								14			1.1
93/06/28	1455								19			1.4
93/07/26	1520								13			1.4
93/08/23	1415								23			1.3
93/09/27	1530								8			2.2

13A150 6713A150 12079004 541067
DESCHUTES RIVER NEAR RAINIER
46 52 23.0 122 43 46.0 2F 0 Elev= 0 ft
53067 Washington Thurston Co. PACIFIC NORTHWEST
PUGET SOUND (Deschutes-13) 131113
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 06-13-04 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311161 000250 00070 0080
MILES 0029.00 0005.00 008.80 021.61 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/26	0845		446100	10.4	762	49			119	10.4	92.4	7.50
92/11/22	0805		486100	7.4	754	540			71	10.9	91.2	8.10
92/12/20	0800		526100	5.2	755	255			73	11.7	92.6	7.50
93/01/25	0850		56100	6.4	764	710			50	11.7	94.3	7.90
93/02/22	0740		96100	3.6	762	98			87			7.20
93/03/22	0825		136100	8.6	749	230			68	11.1	96.2	7.60
93/04/26	0820		186100	7.8	761	470			52	11.1	92.9	7.40
93/05/24	0755		226100	13.1	759	142			81	9.2	87.2	6.60
93/06/28	0815		276100	13.4	758	102			84	9.7	92.6	7.70
93/07/26	0830		316100	14.1	765	88			99	9.8	94.1	7.40
93/08/23	0725		356100	15.8	759	46			120	8.7	87.3	7.50
93/09/27	0825		406100	10.6	771	37			125	9.9	87.3	7.50

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L
92/10/26	0845					2.0	0.018	0.010K				0.332
92/11/22	0805					50.0	0.021	0.010K				0.813
92/12/20	0800					12.0	0.015	0.010K				0.571
93/01/25	0850					63.0	0.021	0.010K				0.551
93/02/22	0740					1.0	0.010K	0.010K				0.464
93/03/22	0825					3.0	0.014	0.010K				0.323
93/04/26	0820					20.0	0.017	0.010K				0.263
93/05/24	0755					3.0	0.022	0.010K				0.250
93/06/28	0815					2.0	0.010K	0.010K				0.325
93/07/26	0830					5.0	0.013	0.010K				0.346
93/08/23	0725					3.0	0.031	0.010K				0.513
93/09/27	0825					2.0	0.010K	0.010K				0.556

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L
92/10/26	0845			0.010K	0.010K							
92/11/22	0805			0.048	0.010K							
92/12/20	0800			0.024	0.010K							
93/01/25	0850			0.048	0.010K							
93/02/22	0740			0.018	0.010K							
93/03/22	0825			0.013	0.010K							
93/04/26	0820			0.025								
93/05/24	0755			0.016	0.010K							
93/06/28	0815			0.010K	0.010K							
93/07/26	0830			0.015	0.010K							
93/08/23	0725			0.020	0.012							
93/09/27	0825			0.014	0.010K							

DATE FROM TO	TIME	DEPTH FEET	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1045 IRON FE,TOT UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	82079 TURBIDTY LAB NTU
92/10/26	0845									8		0.7
92/11/22	0805									130		22.0
92/12/20	0800									47S		5.0
93/01/25	0850									31		22.0
93/02/22	0740									10		1.3
93/03/22	0825									8		1.9
93/04/26	0820									40		6.8
93/05/24	0755									28		1.5
93/06/28	0815									53		0.8
93/07/26	0830									79		1.4
93/08/23	0725									72		2.1
93/09/27	0825									26		1.0

16A070 4516A070 12061500 541074
SKOKOMISH RIVER NEAR POTLATCH
47 18 36.0 123 10 33.0 2F 0 Elev= 0 ft
53045 Washington Mason Co. PACIFIC NORTHWEST
PUGET SOUND (Skokomisk/Dosewallips-16) 131116
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 25-16-99 Class= AA Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1311211 001260
MILES 0050.80 0005.30 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/28	0915		446120	9.0	763	324			71	10.0	85.8	7.60
92/11/23	0820		486120	6.5	772	1500			51	11.5	91.8	7.50
92/12/22	0935		526120	6.5	771	881			61	11.1	88.8	7.30
93/01/27	0915		56120	6.8	766	2420			43	11.7	95.0	7.10
93/02/24	0945		96120	4.5	768	444			62	12.1	92.4	7.20
93/03/24	0905		136120	5.9	767	2740			44	12.3	97.5	7.40
93/04/28	0830		186120	7.4	771	2250			48	11.6	94.8	7.40
93/05/26	0835		226120	9.8	766	684			62	10.8	94.1	7.20
93/06/30	0900		276120	10.4	768	384			68	10.5	92.5	7.20
93/07/28	0830		316120	12.9	760	285			71	10.0	94.2	7.30
93/08/25	0750		356120	10.3	775	230			72	9.6	83.7	
93/09/29	0915		406120	9.4	767	159			74	9.8	85.0	7.20

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L
92/10/28	0915					1.0		0.010	0.010K			
92/11/23	0820					9.0		0.012	0.010K			
92/12/22	0935					2.0		0.010K	0.010K			
93/01/27	0915					25.0		0.010K	0.010K			
93/02/24	0945					2.0		0.016	0.010K			
93/03/24	0905					28.0		0.015	0.010K			
93/04/28	0830					25.0		0.014	0.010K			
93/05/26	0835					2.0		0.010K	0.010K			
93/06/30	0900					2.0		0.013	0.010K			
93/07/28	0830					4.0		0.010K	0.010K			
93/08/25	0750					3.0		0.013	0.010K			
93/09/29	0915					2.0		0.010K	0.010K			

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L
92/10/28	0915		0.091		0.010K	0.010K						
92/11/23	0820		0.154		0.013	0.010K						
92/12/22	0935		0.154		0.010K	0.010K						
93/01/27	0915		0.139		0.034	0.010K						
93/02/24	0945		0.135		0.012	0.010K						
93/03/24	0905		0.098		0.023	0.010K						
93/04/28	0830		0.076		0.021	0.010K						
93/05/26	0835		0.057		0.010K	0.010K						
93/06/30	0900		0.053		0.010K	0.010K						
93/07/28	0830		0.070		0.011	0.010K						
93/08/25	0750		0.084		0.016	0.010K						
93/09/29	0915		0.089		0.010K	0.011						

DATE FROM TO	TIME	DEPTH FEET	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1045 IRON FE,TOT UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML
92/10/28	0915										9	
92/11/23	0820										4	
92/12/22	0935										7	
93/01/27	0915										7	
93/02/24	0945										5	
93/03/24	0905										3	
93/04/28	0830										6	
93/05/26	0835										9	
93/06/30	0900										18	
93/07/28	0830										270J	
93/08/25	0750										29	
93/09/29	0915										23	

DATE FROM TO	TIME	DEPTH FEET	70300 RESIDUE DISS-180 C MG/L	82079 TURBIDTY LAB NTU
92/10/28	0915			0.3
92/11/23	0820			5.2
92/12/22	0935			0.6
93/01/27	0915			17.0
93/02/24	0945			0.5
93/03/24	0905			19.0
93/04/28	0830			14.0
93/05/26	0835			0.7
93/06/30	0900			0.3
93/07/28	0830			0.3

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	70300 RESIDUE DISS-180 C MG/L	82079 TURBIDTY LAB NTU
93/08/25	0750			1.5
93/09/29	0915			0.8

22A070 2722A070 12039003 541082
HUMPTULIPS RIVER NEAR HUMPTULIPS
47 13 48.0 123 57 38.0 2F 0 Elev= 0 ft
53027 Washington Grays Harbor Co. PACIFIC NORTHWEST
COASTAL (Lower Chehalis-22) 131222
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 10-22-05 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1312093
MILES 0023.60 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/28	1245		446123	9.4	755	420			48	11.4	99.9	7.40
92/11/23	1150		486123	6.7	769	2150			45	12.0	96.8	7.40
92/12/22	1245		526123	6.4	770	2250			43	11.9	95.1	7.40
93/01/27	1250		56123	7.8	761	3300			40	12.0	100.5	7.20
93/02/24	1310		96123	4.0	763	340			53	13.5	102.4	7.20
93/03/24	1300		136123	6.7	762	3000			42	12.1	98.5	7.40
93/04/28	1140		186123	7.7	768	2450			41	11.6	96.0	7.30
93/05/26	1210		226123	13.2	761	340			52	10.8	102.3	7.40
93/06/30	1155		276123	12.6	764	400			56	11.0	102.4	7.60
93/07/28	1150		316123	16.9	759	210			60	10.2	104.7	7.50
93/08/25	1100		356123	13.7	774	190			60	10.5	98.8	
93/09/29	1240		406123	13.5	761	115			64	10.6	101.1	7.50

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L
92/10/28	1245					1.0	0.010K	0.010K				0.177
92/11/23	1150					12.0	0.013	0.010K				0.262
92/12/22	1245					10.0	0.010K	0.010K				0.239
93/01/27	1250					37.0	0.027	0.010K				0.256
93/02/24	1310					1.0	0.015	0.010K				0.123
93/03/24	1300					45.0	0.010K	0.010K				0.182
93/04/28	1140					25.0	0.020	0.010K				0.145
93/05/26	1210					1.0U	0.010	0.010K				0.075
93/06/30	1155					1.0	0.010	0.010K				0.050
93/07/28	1150					3.0	0.010	0.010K				0.050
93/08/25	1100					1.0K	0.010K	0.010K				0.053
93/09/29	1240					1.0K	0.010K	0.010K				0.019

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L
92/10/28	1245			0.010K	0.010K							
92/11/23	1150			0.020	0.010K							
92/12/22	1245			0.011	0.010K							
93/01/27	1250			0.041	0.010K							
93/02/24	1310			0.013	0.010K							
93/03/24	1300			0.035	0.010K							
93/04/28	1140			0.027	0.010K							
93/05/26	1210			0.010K	0.010K							
93/06/30	1155			0.010K	0.010K							
93/07/28	1150			0.010K	0.010K							
93/08/25	1100			0.011	0.010K							
93/09/29	1240			0.010K	0.010K							

DATE FROM TO	TIME	DEPTH FEET	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1042 COPPER CU,TOT UG/L	1045 IRON FE,TOT UG/L	1092 ZINC ZN,TOT UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML

DATE FROM TO	TIME	DEPTH FEET	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML	70300 RESIDUE DISS-180 C MG/L	82079 TURBIDTY LAB NTU
92/10/28	1245		24			0.7
92/11/23	1150		8			8.9
92/12/22	1245		12			9.0
93/01/27	1250		13			22.0
93/02/24	1310		1K			0.5
93/03/24	1300		2			25.0
93/04/28	1140		8			19.0
93/05/26	1210		2			0.7
93/06/30	1155		26			0.4
93/07/28	1150		70			0.4
93/08/25	1100		11			0.4
93/09/29	1240		19			0.8

22G070 2722G070 12035000 541086
SATSOP RIVER NEAR SATSOP
47 00 07.0 123 29 37.0 2F 0 Elev= 0 ft
53027 Washington Grays Harbor Co. PACIFIC NORTHWEST
COASTAL (Lower Chehalis-22) 131222
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 10-22-09 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1312099 000250
MILES 0022.90 0002.70 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/28	1055		446122	9.4	761	422			66	11.4	99.1	7.70
92/11/23	1035		486122	7.0	773	3410			48	11.5	92.9	7.10
92/12/22	1135		526122	6.4	773	2900			43	11.8	94.0	7.40
93/01/27	1125		56122	7.9	765	5880			40	11.6	96.8	7.20
93/02/24	1150		96122	3.5	766	731			57	13.3	99.2	7.40
93/03/24	1120		136122	6.9	765	5380			40	11.7	95.3	7.20
93/04/28	1020		186122	8.4	771	3700			44	11.2	93.8	7.30
93/05/26	1045		226122	12.0	765	978			57	11.1	101.8	7.40
93/06/30	1040		276122	12.9	767	636			116	10.8	100.8	7.60
93/07/28	1020		316122	15.7	762	422			65	10.2	101.7	7.40
93/08/25	0935		356122	13.2	774	346			67	10.3	95.8	
93/09/29	1120		406122	12.2	765	232			68	10.8	99.5	7.40

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	600 TOTAL N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L
92/10/28	1055					2.0		0.016	0.010K			
92/11/23	1035					20.0		0.018	0.010K			
92/12/22	1135					6.0		0.010K	0.010K			
93/01/27	1125					51.0		0.030	0.010K			
93/02/24	1150					2.0		0.020	0.010K			
93/03/24	1120					59.0		0.014	0.010K			
93/04/28	1020					27.0		0.024	0.010K			
93/05/26	1045					1.0		0.010K	0.010K			
93/06/30	1040					2.0		0.010	0.010K			
93/07/28	1020					1.0		0.011	0.010K			
93/08/25	0935					2.0		0.030	0.010K			
93/09/29	1120					37.0		0.010K	0.010K			

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	650 T PO4 PO4 MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	650 T PO4 PO4 MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L
92/10/28	1055		0.231			0.010K	0.010K					
92/11/23	1035		0.598			0.023	0.010K					
92/12/22	1135		0.520			0.010K	0.010K					
93/01/27	1125		0.497			0.053	0.010K					
93/02/24	1150		0.270			0.015	0.010K					
93/03/24	1120		0.399			0.049	0.010K					
93/04/28	1020		0.303			0.028	0.010K					
93/05/26	1045		0.149			0.010K	0.010K					
93/06/30	1040		0.125			0.010K	0.010K					
93/07/28	1020		0.138			0.010K	0.010K					
93/08/25	0935		0.121			0.018	0.010K					
93/09/29	1120		0.118			0.012	0.010K					

DATE FROM TO	TIME	DEPTH FEET	931 SODIUM ADSBTION RATIO	932 PERCENT SODIUM %	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1020 BORON B,DISS UG/L	1034 CHROMIUM CR,TOT UG/L

DATE FROM TO	TIME	DEPTH FEET	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1130 LITHIUM LI,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31503 TOT COLI MFDLENDO /100ML	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML

DATE FROM TO	TIME	DEPTH FEET	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	70301 DISS SOL SUM MG/L	70302 DISS SOL TONS/DAY	70303 DISS SOL TONS PER ACRE-FT	71851 NITRATE DISS-NO3 MG/L	80154 SUSP SED CONC MG/L	80155 SUSP SED DISCHARG TONS/DAY	82079 TURBIDTY LAB NTU
92/10/28	1055		15								0.5
92/11/23	1035		18S								7.0
92/12/22	1135		22								4.5
93/01/27	1125		21S								19.0
93/02/24	1150		2								0.5
93/03/24	1120		11								24.0
93/04/28	1020		18								12.0
93/05/26	1045		18								0.4
93/06/30	1040		15								0.3
93/07/28	1020		80								0.3
93/08/25	0935		19								0.6
93/09/29	1120		10								2.0

23A070 2723A070 12031000 541088
CHEHALIS RIVER AT PORTER
46 56 17.0 123 18 45.0 2F 0 Elev= 0 ft
53027 Washington Grays Harbor Co. PACIFIC NORTHWEST
COASTAL (Upper Chehalis-23) 131223
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 10-23-18 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1312099
MILES 0033.30 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	40 WIND DIRECT AZIMUTH	50 EVAP TOT DAY IN	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L
92/10/28	1015		446121	11.0	762			377			104	10.3
92/11/23	0955		486121	7.4	773			7860			78	10.6
92/12/22	1100		526121	5.6	773			8530			65	11.6
93/01/27	1040		56121	7.8	765			12200			53	11.4
93/02/24	1055		96121	3.2	766			1380			89	12.6
93/03/24	1040		136121	8.2	766			10400			55	11.0
93/04/28	0945		186121	9.9	771			7380			59	10.5
93/05/26	0955		226121	15.8	765			1800			82	9.1
93/06/30	1005		276121	10.5	767			1140			85	9.2
93/07/28	0940		316121	17.2	773			808			90	9.0
93/08/25	0855		356121	15.8	774			507			100	8.8
93/09/29	1025		406121	14.7	766			402			99	9.2

DATE FROM TO	TIME	DEPTH FEET	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L	400 PH SU	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L
92/10/28	1015		92.8		7.50					2.0		0.015
92/11/23	0955		86.4		7.10					36.0		0.036
92/12/22	1100		90.5		7.30					25.0		0.029
93/01/27	1040		94.9		7.00					50.0		0.033
93/02/24	1055		93.2		7.10					4.0		0.035
93/03/24	1040		92.4		7.10					55.0		0.023
93/04/28	0945		91.2		7.20					22.0		0.020
93/05/26	0955		90.6		7.10					4.0		0.025
93/06/30	1005		81.4		7.50					5.0		0.019
93/07/28	0940		91.3		7.20					5.0		0.021
93/08/25	0855		86.5							8.0		0.014
93/09/29	1025		89.4		7.10					2.0		0.014

DATE FROM TO	TIME	DEPTH FEET	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	650 T PO4 PO4 MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	650 T PO4 PO4 MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L
92/10/28	1015		0.010K				0.516			0.046	0.038	
92/11/23	0955		0.010K				1.240			0.060	0.010K	
92/12/22	1100		0.010K				1.050			0.043	0.010K	
93/01/27	1040		0.010K				0.911			0.070	0.011	
93/02/24	1055		0.010K				0.878			0.031	0.016	
93/03/24	1040		0.010K				0.807			0.087	0.014	
93/04/28	0945		0.010K				0.517			0.037	0.014	
93/05/26	0955		0.010K				0.548			0.040	0.021	
93/06/30	1005		0.010K				0.499			0.036	0.025	
93/07/28	0940		0.010K				0.583			0.035	0.023	
93/08/25	0855		0.010K				0.631			0.028	0.032	
93/09/29	1025		0.010K				0.607			0.042	0.035	

DATE FROM TO	TIME	DEPTH FEET	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	931 SODIUM ADSBTION RATIO	932 PERCENT SODIUM %	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L

DATE FROM TO	TIME	DEPTH FEET	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1005 BARIUM BA,DISS UG/L	1020 BORON B,DISS UG/L	1025 CADMIUM CD,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L	1042 COPPER CU,TOT UG/L

DATE FROM TO	TIME	DEPTH FEET	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1065 NICKEL NI,DISS UG/L	1075 SILVER AG,DISS UG/L	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1092 ZINC ZN,TOT UG/L	1130 LITHIUM LI,DISS UG/L	1145 SELENIUM SE,DISS UG/L	31501 TOT COLI MFIMENDO /100ML

DATE FROM TO	TIME	DEPTH FEET	31503 TOT COLI MFDLENDO /100ML	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML	31672 FECSTREP PC M-ENT /100ML	70300 RESIDUE DISS-180 C MG/L	70301 DISS SOL SUM MG/L	70302 DISS SOL TONS/DAY
92/10/28	1015						10					
92/11/23	0955						310S					
92/12/22	1100						83S					
93/01/27	1040						52					
93/02/24	1055						1K					
93/03/24	1040						100S					
93/04/28	0945						91					
93/05/26	0955						27					

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	31503 TOT COLI MFDLENDO /100ML	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML	31672 FECSTREP PC M-ENT /100ML	70300 RESIDUE DISS-180 C MG/L	70301 DISS SOL SUM MG/L	70302 DISS SOL TONS/DAY
93/06/30	1005						16					
93/07/28	0940						36					
93/08/25	0855						13					
93/09/29	1025						2					

DATE FROM TO	TIME	DEPTH FEET	70303 DISS SOL TONS PER ACRE-FT	71851 NITRATE DISS-NO3 MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/28	1015					1.0
92/11/23	0955					18.0
92/12/22	1100					1.2
93/01/27	1040					21.0
93/02/24	1055					2.1
93/03/24	1040					24.0
93/04/28	0945					8.4
93/05/26	0955					2.1
93/06/30	1005					2.0
93/07/28	0940					0.9
93/08/25	0855					1.1
93/09/29	1025					0.9

23A120 4123A120 12025500
CHEHALIS RIVER AT CENTRALIA
46 42 45.0 122 58 39.0 2F 0 Elev= 0 ft
53041 Washington Lewis Co. PACIFIC NORTHWEST
COASTAL (Upper Chehalis-23) 131223
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 10-23-13 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1312099
MILES 0067.50 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L
92/10/26	1205		446104	13.1	764	153		98	8.2	77.1	7.40	2.0
92/11/22	1210		486104	7.6	760	6400		67	10.6	88.4	7.00	109.0
92/12/20	1310		526104	4.2	725	4300		54	11.7	94.0	7.10	17.0
93/01/25	1345		56104	7.1	767	5900		54	11.8	96.3	7.30	48.0
93/02/22	1200		96104	2.6	765	620		79	12.5	91.2	7.20	3.0
93/03/22	1250		136104	9.3	752	1520		62	10.9	95.7	7.00	5.0
93/04/26	1240		186104	9.7	765	4000		52	10.6	92.3	7.30	18.0
93/05/24	1155		226104	15.0	759	940		74	9.4	92.8	7.20	6.0
93/06/28	1215		276104	18.0	762	590		77	8.3	86.8	7.40	4.0
93/07/26	1240		316104	17.9	773	390		81	8.8	90.5	7.20	4.0
93/08/23	1150		356104	19.6	764	155		102	6.5	70.0	7.10	4.0
93/09/27	1305		406104	14.3	763	95		113	7.7	74.5	7.20	2.0

DATE FROM TO	TIME	DEPTH FEET	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/26	1205		0.077	0.010K			0.091	0.080	0.065	11	1.5
92/11/22	1210		0.033	0.010K			1.120	0.032	0.010K	720J	36.0
92/12/20	1310		0.029	0.010K			1.100	0.038	0.010K	230S	7.2
93/01/25	1345		0.034	0.010K			0.924	0.046	0.010K	220	14.0
93/02/22	1200		0.047	0.010K			0.609	0.031	0.022	8	2.9
93/03/22	1250		0.026	0.010K			0.548	0.026	0.020	50S	3.1
93/04/26	1240		0.028	0.010K			0.428	0.035	0.015	340J	6.4
93/05/24	1155		0.041	0.010K			0.308	0.042	0.024	14	2.3
93/06/28	1215		0.049	0.010K			0.230	0.036	0.028	4	2.4
93/07/26	1240		0.077	0.010K			0.270	0.069	0.048	12	3.0
93/08/23	1150		0.105	0.014			0.146		0.116	18	2.1
93/09/27	1305		0.166	0.012			0.155	0.132	0.111	23	1.3

23A160 4123A160 12020565
CHEHALIS RIVER AT DRYAD
46 37 54.0 123 14 51.0 2F 0 Elev= 0 ft
53041 Washington Lewis Co. PACIFIC NORTHWEST
COASTAL (Upper Chehalis-23) 131223
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 10-23-15 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1312099
MILES 0101.70 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/26	1120		446103	10.7	761	80			68	10.9	97.6	7.70
92/11/22	1130		486103	8.0	756	2420			60	11.6	98.1	7.00
92/12/20	1130		526103	5.1	757	1320			51	12.3	96.7	7.70
93/01/25	1250		56103	7.2	764	4020			40	12.2	100.2	7.50
93/02/22	1105		96103	2.2	762	255			63			7.40
93/03/22	1200		136103	8.1	749	645			58	11.9	102.0	7.30
93/04/26	1140		186103	8.0	762	1810			49	11.7	98.3	7.40
93/05/24	1110		226103	13.2	755	396			64	10.7	102.1	7.40
93/06/28	1130		276103	12.9	757	614			63	10.8	102.1	7.10
93/07/26	1155		316103	16.9	773	127			72	10.2	102.8	7.60
93/08/23	1105		356103	17.0	760	88			76	8.9	91.4	7.40
93/09/27	1200		406103	12.7	761	44			77	10.3	96.5	7.30

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L	650 T PO4 PO4 MG/L	660 ORTHOPO4 PO4 MG/L
92/10/26	1120				1.0	0.016	0.010K			0.025		
92/11/22	1130				23.0	0.018	0.010K			0.959		
92/12/20	1130				6.0	0.010K	0.010K			0.634		
93/01/25	1250				148.0	0.026	0.010K			0.397		
93/02/22	1105				2.0	0.013	0.010K			0.387		
93/03/22	1200				3.0	0.010K	0.010K			0.362		
93/04/26	1140				17.0	0.014	0.010K			0.263		
93/05/24	1110				2.0	0.013	0.010K			0.209		
93/06/28	1130				2.0	0.013	0.010K			0.166		
93/07/26	1155				3.0	0.014	0.010K			0.111		
93/08/23	1105				3.0	0.023	0.010K			0.065		
93/09/27	1200				2.0	0.010K	0.010K			0.045		

DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L
92/10/26	1120		0.010K	0.010K								
92/11/22	1130		0.025	0.010K								
92/12/20	1130		0.014	0.010K								
93/01/25	1250		0.106	0.010K								
93/02/22	1105		0.014	0.010K								
93/03/22	1200		0.010K	0.010K								
93/04/26	1140		0.022	0.010K								
93/05/24	1110		0.013	0.010K								
93/06/28	1130		0.010K	0.010K								
93/07/26	1155		0.011	0.010K								
93/08/23	1105		0.017	0.010K								
93/09/27	1200		0.013	0.010K								

DATE FROM TO	TIME	DEPTH FEET	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1020 BORON B,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1090 ZINC ZN,DISS UG/L	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML

DATE FROM TO	TIME	DEPTH FEET	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	71851 NITRATE DISS-NO3 MG/L	71885 IRON FE UG/L	80154 SUSP SED CONC MG/L	80155 SUSP SED DISCHARG TONS/DAY	82079 TURBIDTY LAB NTU
92/10/26	1120		13						0.8
92/11/22	1130		96						7.0
92/12/20	1130		89						3.0
93/01/25	1250		120						40.0
93/02/22	1105		11						1.1
93/03/22	1200		8						1.0
93/04/26	1140		270J						4.1
93/05/24	1110		9						1.1
93/06/28	1130		49						1.2
93/07/26	1155		37						1.5
93/08/23	1105		78						1.3
93/09/27	1200		22						1.3

23B050 4123B050
NEWAUKUM RIVER AT CHEHALIS
46 39 02.0 122 58 47.0 2F 0 Elev= 0 ft
53041 Washington Lewis Co. PACIFIC NORTHWEST
COASTAL (Upper Chehalis-23) 131223
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 10-23-14 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1312099 000790
MILES 0078.10 0000.15 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L
92/10/26	1030		446102	12.0	764	49	109	10.4	95.6	7.50	53.0	0.014
92/11/22	1050		486102	7.7	760	1580	62	10.8	90.3	6.80	90.0	0.029
92/12/20	1050		526102	4.2	762	1640	49	12.1	92.4	7.20	75.0	0.033
93/01/25	1210		56102	7.1	767	1150	49	12.0	97.9	7.40	24.0	0.030
93/02/22	1020		96102	3.0	765	182	69	13.2	97.3	7.30	3.0	0.010
93/03/22	1115		136102	9.3	753	372	58	10.8	94.7	7.00	9.0	0.018
93/04/26	1055		186102	8.7	765	1280	34	10.9	92.7	7.30	40.0	0.033
93/05/24	1030		226102	15.3	761	263	62	9.5	94.1	7.20	6.0	0.017
93/06/28	1050		276102	14.8	761	215	68	9.8	96.1	7.40	5.0	0.010K
93/07/26	1125		316102	15.9	767	207	69	9.8	97.5	7.40	7.0	0.012
93/08/23	1010		356102	17.2	764	82	84	8.7	89.3	7.30	3.0	0.015
93/09/27	1115		406102	13.8	765	52	90	9.9	94.5	7.00	3.0	0.010K

DATE FROM TO	TIME	DEPTH FEET	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/26	1030		0.010K	0.014	0.011	0.010K	32	0.9
92/11/22	1050		0.010K	1.620	0.053	0.013	760J	34.0
92/12/20	1050		0.010K	1.240	0.050	0.010K	600	18.0
93/01/25	1210		0.010K	1.110	0.041	0.010K	140	11.0
93/02/22	1020		0.010K	0.602	0.015	0.010K	4	2.5
93/03/22	1115		0.010K	0.646	0.019	0.012	17	3.5
93/04/26	1055		0.010K	0.574	0.052	0.015	750J	14.0
93/05/24	1030		0.010K	0.327	0.021	0.011	51	2.6
93/06/28	1050		0.010K	0.180	0.010K	0.010K	22	2.0
93/07/26	1125		0.010K	0.318	0.018	0.010K	57	2.5
93/08/23	1010		0.010K	0.034	0.022	0.011	68	2.2
93/09/27	1115		0.010K	0.053	0.015	0.010K	120	1.4

23D055 4123D055
SKOOKUMCHUCK RIVER AT CENTRALIA
46 43 50.0 122 57 13.0 2F000 Elev= 0 ft
53041 Washington Lewis Co. PACIFIC NORTHWEST
COASTAL (Upper Chehalis-23) 131223
21540000 Reach=17100103048 0.000 Drg= 0 sqmi
AMBNT/STREAM

INDEX 1312099 000690
MILES 0066.90 0002.30 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L
92/10/26	1240		446105	12.2	763	77	91	10.3	95.1	7.20	2.0	0.025
92/11/22	1235		486105	8.0	761	418	300	9.7	81.7	6.70	43.0	0.072
92/12/20	1340		526105	4.8	761	284	142	11.4	88.6	7.10	8.0	0.040
93/01/25	1440		56105	7.1	767	370	122	11.4	93.1	7.10	12.0	0.040
93/02/22	1240		96105	4.1	765	114	106	12.7	96.4	7.20	2.0	0.024
93/03/22	1330		136105	8.5	751	268	103	11.0	94.8	7.30	6.0	0.018
93/04/26	1310		186105	10.0	765	800	84	10.5	92.1	7.20	16.0	0.031
93/05/24	1220		226105	16.2	757	171	100	9.1	92.3	7.10	4.0	0.026
93/06/28	1250		276105	14.6	761	118	72	9.9	96.6	7.20	4.0	0.015
93/07/26	1310		316105	16.9	765	89	77	10.6	108.0	7.80	3.0	0.013
93/08/23	1215		356105	16.6	763	77	69	9.1	92.4	7.40	3.0	0.017
93/09/27	1345		406105	13.4	762	130	61	10.2	96.9	7.10	3.0	0.011

DATE FROM TO	TIME	DEPTH FEET	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/26	1240		0.010K	0.154	0.017	0.010K	11	2.0
92/11/22	1235		0.011	1.480	0.067	0.010K	370S	38.0
92/12/20	1340		0.010K	0.959	0.034	0.010K	37	7.2
93/01/25	1440		0.010K	0.988	0.044	0.010K	44	13.0
93/02/22	1240		0.010K	0.661	0.029	0.012	4	3.9
93/03/22	1330		0.010K	0.563	0.026	0.012	6	4.5
93/04/26	1310		0.010K	0.453	0.038	0.010K	220J	11.0
93/05/24	1220		0.010K	0.353	0.032	0.013	11	3.4
93/06/28	1250		0.010K	0.329	0.023	0.015	200S	3.6
93/07/26	1310		0.010K	0.390	0.020	0.010K	15	2.2
93/08/23	1215		0.010K	0.280	0.029	0.018	23	1.7
93/09/27	1345		0.010K	0.187	0.016	0.010K	26	2.1

23E070 6723E070
BLACK RIVER AT MOON ROAD BRIDGE
46 50 21.0 123 06 43.0 2F000 Elev= 0 ft
53067 Washington Thurston Co. PACIFIC NORTHWEST
COASTAL (Upper Chehalis-23) 131223
21540000 Reach=17100103050 0.000 Drg= 0 sqmi
TYPEA/AMBNT/STREAM

INDEX 1312099 000530
MILES 0050.00 0007.10 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L
92/10/26	1325		446106	12.0	765	103	9.5	87.2	7.40	1.0	0.014	0.010K
92/11/22	1335		486106	7.9	763	81	9.0	75.3	7.20	9.0	0.029	0.010K
92/12/20	1420		526106	4.1	763	62	10.3	78.4	7.00	3.0	0.022	0.010K
93/01/25	1510		56106	6.1	769	53	11.2	89.0	7.00	7.0	0.024	0.010K
93/02/22	1320		96106	4.7	766	85	11.3	87.0	7.20	3.0	0.019	0.010K
93/03/22	1420		136106	9.7	754	73	9.7	85.7	7.10	4.0	0.018	0.010K
93/04/26	1415		186106	11.4	767	65	9.1	82.2	7.10	2.0	0.023	0.010K
93/05/24	1320		226106	15.8	758	84	9.2	92.4	7.00	4.0	0.022	0.010K
93/06/28	1335		276106	15.8	763	88	9.5	94.8	7.10	2.0	0.011	0.010K
93/07/26	1350		316106	17.9	767	99	9.8	101.6	7.20	3.0	0.013	0.010K
93/08/23	1300		356106	17.4	765	103	8.8	90.5	7.40	1.0K	0.012	0.011
93/09/27	1425		406106	14.6	763	106	11.0	107.0	7.50	2.0	0.010K	0.010K

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	1094 ZINC TOT REC UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L	31616 FEC COLI MFM-FCBR /100ML
92/10/26	1325		0.973	0.024	0.016							7
92/11/22	1335		0.763	0.045	0.015							170
92/12/20	1420		0.843	0.036	0.015							29
93/01/25	1510		0.756	0.033	0.010K							72
93/02/22	1320		1.160	0.029	0.016							6
93/03/22	1420		0.802	0.030	0.018							49
93/04/26	1415		0.550	0.046	0.022							130S
93/05/24	1320		0.691	0.047	0.022							29
93/06/28	1335		0.950	0.033	0.022							28
93/07/26	1350		0.976	0.029	0.011							5
93/08/23	1300		1.050	0.025	0.020							13
93/09/27	1425		0.917	0.022	0.016							18

DATE FROM TO	TIME	DEPTH FEET	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/10/26	1325			0.7
92/11/22	1335			6.0
92/12/20	1420			1.5
93/01/25	1510			3.1
93/02/22	1320			1.8
93/03/22	1420			1.8
93/04/26	1415			1.8
93/05/24	1320			1.8
93/06/28	1335			1.4
93/07/26	1350			0.7
93/08/23	1300			1.0
93/09/27	1425			0.6

23F070 6723F070
MILL CREEK NEAR BORDEAUX
46 53 46.6 123 05 44.2 2F000 Elev= 0 ft
53067 Washington Thurston Co. PACIFIC NORTHWEST
COASTAL (Upper Chehalis-23) 131223
21540000 Reach=17100103615 0.000 Drg= 0 sqmi
AMBNT/STREAM

INDEX 1312099 000530 00050 0040
MILES 0047.00 0012.20 004.30 000.02 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L
92/10/26	1355		446107	10.5	761	2	83	10.7	95.4	7.60	2.0	0.010K
92/11/22	1400		486107	9.2	759	17	49	11.0	95.4	7.30	16.0	0.010
92/12/20	1505		526107	6.1	725		44	11.9	100.3	7.40	7.0	0.010K
93/01/25	1540		56107	7.6	765	44	33	11.7	97.0	7.30	32.0	0.022
93/02/22	1405		96107	5.3	762	4	48	12.3	96.7	7.40	5.0	0.010K
93/03/22	1500		136107	8.0	749	20	41	11.1	94.8	7.20	220.0	0.014
93/04/26	1450		186107	8.9	763	12	39	11.3	96.8	7.40	23.0	0.016
93/05/24	1350		226107	11.9	754	5	52	10.5	97.5	7.30	9.0	0.013
93/06/28	1410		276107	12.0	758	4	43	10.7	99.1	7.60	10.0	0.010K
93/07/26	1440		316107	15.3	762	3	64	10.6	104.8	7.60	10.0	0.012
93/08/23	1330		356107	14.0	761	2	69	10.0	96.4	7.60	13.0	0.012
93/09/27	1455		406107	11.2	758	1	75	10.4	94.6	7.30	5.0	0.010K

DATE FROM TO	TIME	DEPTH FEET	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/26	1355		0.010K	0.692	0.029	0.020	1K	2.2
92/11/22	1400		0.010K	0.537	0.028	0.010K	9	7.0
92/12/20	1505		0.010K	0.367	0.026	0.010K	4	4.5
93/01/25	1540		0.010K	0.452	0.039	0.010K	6	14.0
93/02/22	1405		0.010K	0.231	0.029	0.015	1	3.0
93/03/22	1500		0.010K	0.442	0.186	0.016	200	50.0
93/04/26	1450		0.010K	0.347	0.032	0.015	66	11.0
93/05/24	1350		0.010K	0.237	0.031	0.016	31	4.1
93/06/28	1410		0.010K	0.165	0.054	0.019	44	4.4
93/07/26	1440		0.010K	0.383	0.030	0.011	36	3.6
93/08/23	1330		0.010K	0.410	0.026	0.021	83	6.3
93/09/27	1455		0.010K	0.310	0.027	0.019	29	3.4

26B070 1526B070 14244200 541001
COWLITZ RIVER AT KELSO
46 08 44.0 122 54 47.0 3F 0 Elev= 0 ft
53015 Washington COWLITZ CO. PACIFIC NORTHWEST
LOWER COLUMBIA (Cowlitz-26) 131026
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 12-26-04 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 000850
MILES 0068.00 0004.90 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L
92/10/26	0925		446101	11.5	770	3110			94	10.8	97.4	
92/11/22	0945		486101	7.9	764	8380			92	11.0	91.9	
92/12/20	0950		526101	5.5	724	8350			84	11.7	97.2	
93/01/25	1045		56101	7.7	773	9100			81	12.2	100.3	
93/02/22	0910		96101	4.8	770	5500			90	12.2	93.6	
93/03/22	1010		136101	8.1	758	6960			93	11.6	98.2	
93/04/26	0955		186101	8.6	769	10600			74	11.3	95.3	
93/05/24	0925		226101	11.4	765	11500			83	10.6	95.9	
93/06/28	0945		276101	12.0	766	6960			96	10.8	99.0	
93/07/26	1010		316101	14.9	773	4230			121	10.3	99.5	
93/08/23	0900		356101	14.4	768	4210			102	9.9	95.3	
93/09/27	1000		406101	12.4	771	3660			100	10.4	95.6	

DATE FROM TO	TIME	DEPTH FEET	400 PH SU	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L
92/10/26	0925		7.60					27.0		0.021	0.010K	
92/11/22	0945		7.30					794.0		0.023	0.010K	
92/12/20	0950		7.60					46.0		0.014	0.010K	
93/01/25	1045		7.40					36.0		0.021	0.010K	
93/02/22	0910		7.30					7.0		0.010K	0.010K	
93/03/22	1010		7.20					21.0		0.019	0.010K	
93/04/26	0955		7.40					59.0		0.033	0.010K	
93/05/24	0925		6.70					15.0		0.014	0.010K	
93/06/28	0945		7.50					19.0		0.011	0.010K	
93/07/26	1010		7.60					29.0		0.010K	0.010K	
93/08/23	0900		7.40					9.0		0.010K	0.010K	
93/09/27	1000		7.30					5.0		0.010K	0.010K	

DATE FROM TO	TIME	DEPTH FEET	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L
92/10/26	0925				0.043		0.011	0.010K				
92/11/22	0945				0.583		0.120	0.010K				
92/12/20	0950				0.420		0.024	0.010K				
93/01/25	1045				0.336		0.028	0.010K				
93/02/22	0910				0.125		0.017	0.010K				
93/03/22	1010				0.180		0.020	0.010K				
93/04/26	0955				0.263		0.043	0.010K				
93/05/24	0925				0.087		0.017	0.010K				
93/06/28	0945				0.062		0.010K	0.010K				
93/07/26	1010				0.053		0.010K	0.010K				
93/08/23	0900				0.056		0.015	0.010K				
93/09/27	1000				0.047		0.010K	0.010K				

DATE FROM TO	TIME	DEPTH FEET	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1005 BARIUM BA,DISS UG/L	1020 BORON B,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1025 CADMIUM CD,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1075 SILVER AG,DISS UG/L	1090 ZINC ZN,DISS UG/L	1145 SELENIUM SE,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML

DATE FROM TO	TIME	DEPTH FEET	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML	70300 RESIDUE DISS-180 C MG/L	71851 NITRATE DISS-NO3 MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/26	0925		92					9.0
92/11/22	0945		300					130.0
92/12/20	0950		60					8.0
93/01/25	1045		41					12.0
93/02/22	0910		3					2.7
93/03/22	1010		3					8.1
93/04/26	0955		45S					12.0
93/05/24	0925		6					5.9
93/06/28	0945		17					4.0
93/07/26	1010		13					2.8
93/08/23	0900		22					2.8
93/09/27	1000		12					1.6

31A070 0531A070 COL045
COLUMBIA RIVER AT UMATILLA BR
45 55 53.0 119 19 24.0 2F 0 Elev= 0 ft
53005 Washington Benton Co. PACIFIC NORTHWEST
LOWER COLUMBIA (Rock/Glade-31) 131031
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 26-00-02 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1310001
MILES 0290.50 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	33 WEATHER CODE	35 WIND VELOCITY MPH	36 WIND DIR.FROM NORTH-0	60 STREAM FLOW CFS	69 SEA CODE	70 TURB JKSN JTU	95 CNDUCTVY LAB @ 25C UMHO
92/10/05	1110		416151	17.3	763				79000			143
92/11/02	1110		456151	13.4	766				98200			145
92/12/01	1100		496151	8.5	766				143000			171
93/01/04	1200		26151	3.0	757				146000			150
93/02/01	1100		66151	2.4	769				84900			178
93/03/01	1100		106151	0.8	766				89800			166
93/04/05	1100		156151	7.4	756				157000			161
93/05/03	1200		196151	10.6	749				196000			151
93/06/07	1140		246151	14.4	757				228000			110
93/07/05	1120		286151	16.6	755				137200			127
93/08/02	1120		326151	19.3	760				156700			119
93/09/06	1125		376151	19.8	754				67800			132

DATE FROM TO	TIME	DEPTH FEET	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L
92/10/05	1110		9.7	99.9	8.50					5.0		0.025
92/11/02	1110		10.4	98.2	7.80					4.0		0.016
92/12/01	1100		10.7	90.5	8.00					5.0		0.011
93/01/04	1200		12.7	94.6	8.40					2.0		0.010K
93/02/01	1100		13.3	96.0	8.20					3.0		0.010K
93/03/01	1100		14.3	99.3	8.40					4.0		0.014
93/04/05	1100		12.2	101.8	8.30					5.0		0.015
93/05/03	1200		12.3	111.8	7.80					8.0		0.022
93/06/07	1140		11.6	113.4	7.70					7.0		0.016
93/07/05	1120		9.7	99.4	8.10					9.0		0.014
93/08/02	1120		9.7	104.4	8.40					6.0		0.010K
93/09/06	1125		9.6	105.1	8.30					5.0		0.014

DATE FROM TO	TIME	DEPTH FEET	613 NO2-N DISS MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	760 SWL PBI MG/L	900 TOT HARD CACO3 MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	613 NO2-N DISS MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	760 SWL PBI MG/L	900 TOT HARD CACO3 MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L
92/10/05	1110		0.010K		0.079	0.025	0.010K					
92/11/02	1110		0.010K		0.144	0.020	0.010K					
92/12/01	1100		0.010K		0.207	0.028	0.017					
93/01/04	1200		0.010K		0.176	0.022	0.019					
93/02/01	1100		0.010K		0.318	0.023	0.014					
93/03/01	1100		0.010K		0.284	0.011	0.010K					
93/04/05	1100		0.010K		0.572	0.041	0.020					
93/05/03	1200		0.010K		0.318	0.034	0.011					
93/06/07	1140		0.010K		0.091	0.016	0.010K					
93/07/05	1120		0.010K		0.063	0.018	0.010K					
93/08/02	1120		0.010K		0.052	0.019	0.010K					
93/09/06	1125		0.010K		0.010K	0.013	0.037					

DATE FROM TO	TIME	DEPTH FEET	1042 COPPER CU,TOT UG/L	1045 IRON FE,TOT UG/L	1092 ZINC ZN,TOT UG/L	1094 ZINC TOT REC UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L	31501 TOT COLI MFIMENDO /100ML	31616 FEC COLI MFM-FCBR /100ML
92/10/05	1110											5
92/11/02	1110											8
92/12/01	1100											3
93/01/04	1200											7
93/02/01	1100											3
93/03/01	1100											1K
93/04/05	1100											6
93/05/03	1200											1
93/06/07	1140											6
93/07/05	1120											4
93/08/02	1120											12S
93/09/06	1125											2X

DATE FROM TO	TIME	DEPTH FEET	31625 FEC COLI M-FCAGAD /100 ML	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/10/05	1110						1.3
92/11/02	1110						1.5
92/12/01	1100						2.0
93/01/04	1200						0.5
93/02/01	1100						2.0
93/03/01	1100						0.9
93/04/05	1100						5.2
93/05/03	1200						5.7
93/06/07	1140						3.4
93/07/05	1120						3.4

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	31625 FEC COLI M-FCAGAD /100 ML	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
93/08/02	1120						2.1
93/09/06	1125						2.6

32A070 7132A070 14018600 541127
WALLA WALLA RIVER NEAR TOUCHET
46 02 16.0 118 45 55.0 2F 0 Elev= 0 ft
53071 Washington Walla Walla Co. PACIFIC NORTHWEST
LOWER COLUMBIA (Walla Walla-32) 131032
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 15-32-02 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 002700
MILES 0313.50 0015.30 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L
92/10/05	1300		416153	14.1	759	11			287	8.9	86.2	
92/11/02	1315		456153	10.3	763	78			214	10.5	93.1	
92/12/01	1300		496153	3.6	762	403			155	12.6	94.8	
93/02/01	1315		66153	4.5	766	755			133	12.4	95.0	
93/03/01	1310		106153	1.2	763	382			161	14.0	98.6	
93/04/05	1255		156153	6.8	752	1950			80	11.4	94.2	
93/05/03	1405		196153	9.8	747	1950			85	10.7	95.7	
93/06/07	1340		246153	18.1	753	398			178	10.1	107.2	
93/07/05	1330		286153	20.8	751	57			286	10.4	116.7	
93/08/02	1315		326153	23.6	753	39			340	9.8	115.5	
93/09/06	1320		376153	22.4	750	21			425	9.6	111.2	

DATE FROM TO	TIME	DEPTH FEET	340 COD HI LEVEL MG/L	400 PH SU	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L
92/10/05	1300			8.00				80.0		0.063	0.021	
92/11/02	1315			7.90				72.0		0.024	0.010K	
92/12/01	1300			7.80				43.0		0.043	0.010K	
93/02/01	1315			8.20				129.0		0.063	0.010K	
93/03/01	1310			8.20				16.0		0.021	0.010K	
93/04/05	1255			8.10				480.0		0.017	0.010K	
93/05/03	1405			7.70				356.0		0.068	0.010K	
93/06/07	1340			8.00				94.0		0.057	0.010K	
93/07/05	1330			8.40				26.0		0.021	0.010K	
93/08/02	1315			8.50				24.0		0.010K	0.010K	
93/09/06	1320			8.60				33.0		0.018	0.010K	

DATE FROM TO	TIME	DEPTH FEET	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L
92/10/05	1300				0.910		0.188	0.126				

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L
92/11/02	1315				0.237			0.056				
92/12/01	1300				0.823		0.152	0.105				
93/02/01	1315				1.210		0.174	0.085				
93/03/01	1310				1.200		0.099	0.081				
93/04/05	1255				0.545		0.184	0.056				
93/05/03	1405				0.425		0.232	0.051				
93/06/07	1340				0.703		0.127	0.081				
93/07/05	1330				0.409		0.077	0.048				
93/08/02	1315				0.319		0.101	0.072				
93/09/06	1320				0.520		0.120	0.072				

DATE FROM TO	TIME	DEPTH FEET	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L

DATE FROM TO	TIME	DEPTH FEET	1049 LEAD PB,DISS UG/L	1090 ZINC ZN,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	31672 FECSTREP PC M-ENT /100ML	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/05	1300						480				50.0
92/11/02	1315						150				29.0
92/12/01	1300						38				16.0
93/02/01	1315						96				30.0
93/03/01	1310						1				5.7
93/04/05	1255						200				50.0
93/05/03	1405						230X				40.0
93/06/07	1340						270				21.0
93/07/05	1330						140				7.0
93/08/02	1315						54				4.7
93/09/06	1320						68				21.0

32C110 7132C110 14015002
MILL CREEK AT TAUSICK WAY
46 04 34.0 118 16 58.0 2F 0 Elev= 0 ft
53071 Washington Walla Walla Co. PACIFIC NORTHWEST
LOWER COLUMBIA (Walla Walla-32) 131032
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 15-32-04 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1310001 002700 00250
MILES 0313.50 0035.80 010.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	410 T ALK CACO3 MG/L
92/10/05	1400		416154	14.3	738	0		91	12.9	129.1	8.90	
92/11/02	1430		456154	9.4	742	20		80	11.5	102.5	8.10	
92/12/01	1405		496154	4.4	739	95		76	12.6	99.7	7.80	
93/01/04	1550		26154	1.3	734	32		62	13.6	99.9	7.90	
93/02/01	1410		66154	4.3	743	86		67	12.8	100.5	8.00	
93/03/01	1420		106154	1.5		46		72	14.2	105.5	8.80	
93/04/05	1350		156154	7.2	731	285		51	11.4	97.9	8.10	
93/05/03	1530		196154	7.8	728	312		52	11.5	100.6	7.60	
93/06/07	1500		246154	16.0	733	44		74	10.1	105.5	9.00	
93/07/05	1435		286154	21.2	730	0		91	13.7	159.2	9.40	
93/08/02	1430		326154	23.2	732	0		95	11.2	134.7	8.90	
93/09/06	1420		376154	20.7	729	3		89	10.6	122.2	8.90	

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P
92/10/05	1400				3.0	0.065	0.010K				0.116	0.028
92/11/02	1430				3.0	0.010K	0.010K				0.078	0.025
92/12/01	1405				7.0	0.011	0.010K				0.255	0.045
93/01/04	1550				3.0	0.011	0.010K				0.207	0.035
93/02/01	1410				4.0	0.010	0.010K				0.530	0.044
93/03/01	1420				4.0	0.010K	0.010K				0.259	0.022
93/04/05	1350				10.0	0.010K	0.010K				0.226	0.041
93/05/03	1530				15.0	0.019	0.010K				0.195	0.038
93/06/07	1500				5.0	0.019	0.010K				0.132	0.029
93/07/05	1435				4.0	0.022	0.010K				0.282	0.029
93/08/02	1430				8.0	0.010K	0.010K				0.343	0.054
93/09/06	1420				3.0	0.025	0.010K				0.059	0.041

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	31504 TOT COLI MFIM LES /100ML

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	31504 TOT COLI MFIM LES /100ML
92/10/05	1400		0.020									
92/11/02	1430		0.012									
92/12/01	1405		0.031									
93/01/04	1550		0.046									
93/02/01	1410		0.031									
93/03/01	1420		0.020									
93/04/05	1350		0.023									
93/05/03	1530		0.018									
93/06/07	1500		0.025									
93/07/05	1435		0.020									
93/08/02	1430		0.038									
93/09/06	1420		0.022									

DATE FROM TO	TIME	DEPTH FEET	31616 FEC COLI MFM-FCBR /100ML	31672 FECSTREP PC M-ENT /100ML	82079 TURBIDTY LAB NTU
92/10/05	1400		23		1.1
92/11/02	1430		32		1.5
92/12/01	1405		18S		5.0
93/01/04	1550		3		2.2
93/02/01	1410		14		6.1
93/03/01	1420		1K		1.7
93/04/05	1350		14		6.1
93/05/03	1530		210J		7.1
93/06/07	1500		31		2.1
93/07/05	1435		4		1.5
93/08/02	1430		23		1.6
93/09/06	1420		34		2.8

33A050 2133A050 541008
SNAKE RIVER NEAR PASCO
46 13 00.0 119 01 20.0 2F 0 Elev= 0 ft
53021 Washington FRANKLIN CO. PACIFIC NORTHWEST
LOWER SNAKE (Lower Snake-33) 130833
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 26-00-05 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 002740
MILES 0324.30 0002.20 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	35 WIND VELOCITY MPH	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT
92/10/05	1215		416152	17.3	758		36000			232	8.7	90.2
92/11/02	1225		456152	13.6	762		20000			230	9.1	86.8
92/12/01	1210		496152	8.5	762		30000			311	10.4	88.5
93/01/04	1340		26152	3.4	754		30000			272	12.3	93.1
93/02/01	1205		66152	2.0	765		33000			311	13.1	94.1
93/03/01	1205		106152	1.7	762		23000			328	13.4	95.9
93/04/05	1205		156152	7.3	752		90000			217	11.9	99.7
93/05/03	1315		196152	10.8	745		90000			144	12.8	117.4
93/06/07	1245		246152	13.4	752		103000			86	11.2	107.9
93/07/05	1220		286152	17.1	725		50000			101	10.0	108.0
93/08/02	1225		326152	19.0	753		56000			119	9.7	104.7
93/09/06	1235		376152	19.6	750		16000			161	8.4J	92.2

DATE FROM TO	TIME	DEPTH FEET	340 COD HI LEVEL MG/L	400 PH SU	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L
92/10/05	1215			8.20					5.0		0.021	0.010K
92/11/02	1225			7.80					5.0		0.019	0.010K
92/12/01	1210			8.10					8.0		0.016	0.010K
93/01/04	1340			8.20					3.0		0.017	0.010K
93/02/01	1205			8.20					3.0		0.010K	0.010K
93/03/01	1205			8.50					8.0		0.015	0.010K
93/04/05	1205			8.00					8.0		0.033	0.010K
93/05/03	1315			7.70					13.0		0.030	0.010K
93/06/07	1245			7.80					10.0		0.017	0.010K
93/07/05	1220			8.00					7.0		0.010K	0.010K
93/08/02	1225			8.30					5.0		0.010K	0.010K
93/09/06	1235			8.40					6.0		0.017	0.010K

DATE FROM TO	TIME	DEPTH FEET	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	760 SWL PBI MG/L	900 TOT HARD CACO3 MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	760 SWL PBI MG/L	900 TOT HARD CACO3 MG/L
92/10/05	1215					0.222		0.053	0.046			
92/11/02	1225					0.188		0.043	0.031			
92/12/01	1210					0.421		0.056	0.046			
93/01/04	1340					0.466		0.034	0.032			
93/02/01	1205					0.704		0.049	0.040			
93/03/01	1205					0.988		0.040	0.030			
93/04/05	1205					1.040		0.074	0.052			
93/05/03	1315					0.555		0.058	0.044			
93/06/07	1245					0.115		0.021	0.013			
93/07/05	1220					0.152		0.024	0.015			
93/08/02	1225					0.121		0.022	0.010K			
93/09/06	1235					0.098		0.022	0.010K			

DATE FROM TO	TIME	DEPTH FEET	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1020 BORON B,DISS UG/L	1025 CADMIUM CD,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1090 ZINC ZN,DISS UG/L	1145 SELENIUM SE,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31504 TOT COLI MFIM LES /100ML

DATE FROM TO	TIME	DEPTH FEET	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/05	1215			3			1.6
92/11/02	1225			5			1.5
92/12/01	1210			1			2.0
93/01/04	1340			9			1.1
93/02/01	1205			1			1.6
93/03/01	1205			7			2.6
93/04/05	1205			2			8.9
93/05/03	1315			5			12.0
93/06/07	1245			1K			4.9
93/07/05	1220			1			3.2
93/08/02	1225			2			1.3
93/09/06	1235			2			1.8

34A070 7534A070 13351000 541009
PALOUSE RIVER AT HOOPER
46 45 33.0 118 08 49.0 2F 0 Elev= 0 ft
53075 Washington Whitman Co. PACIFIC NORTHWEST
LOWER SNAKE (Palouse-34) 130834
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 16-34-01 Class= B Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 002740 00290
MILES 0324.30 0059.50 019.50 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	340 COD HI LEVEL MG/L
92/10/06	1110		416160	12.8	744	37			328	10.1	97.1	
92/11/03	1210		456160	7.7	751	63			330	12.5	105.9	
92/12/02	1125		496160	1.5	736	91			258	13.2	97.2	
93/02/02	1120		66160	2.0	746	563			218	13.1	96.4	
93/03/02	1140		106160	0.4	743	290A			274	13.6	96.3	
93/04/06	1125		156160	6.8	734	2050			113	11.3	95.7	
93/05/04	1255		196160	9.7	737	1840			141	11.8	106.7	
93/06/08	1220		246160	17.0	740	242			263	10.7	113.1	
93/07/06	1145		286160	19.0	734	114			270	9.4	104.2	
93/08/03	1150		326160	23.0	733	86			290	8.2	98.2	
93/09/07	1130		376160	19.2	737	42			322	8.9	98.7	

DATE FROM TO	TIME	DEPTH FEET	400 PH SU	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L
92/10/06	1110		8.50				22.0		0.033	0.011		
92/11/03	1210		8.60				14.0		0.014	0.010K		
92/12/02	1125		8.00				9.0		0.029	0.010K		
93/02/02	1120		8.00				84.0		0.136	0.016		
93/03/02	1140		8.00				25.0		0.078	0.025		
93/04/06	1125		7.90				133.0		0.028	0.010K		
93/05/04	1255		7.80				230.0		0.042	0.016		
93/06/08	1220		8.20				22.0		0.025	0.011		
93/07/06	1145		8.50				17.0		0.021	0.010K		
93/08/03	1150		8.40				2.0		0.010K	0.010K		
93/09/07	1130		8.70				33.0		0.025	0.010K		

DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L
92/10/06	1110			0.321		0.058	0.022					

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DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L
92/11/03	1210			0.706		0.038	0.010K					
92/12/02	1125			1.550		0.198	0.176					
93/02/02	1120			4.130		0.270	0.161					
93/03/02	1140			3.920		0.209	0.160					
93/04/06	1125			1.920		0.035	0.079					
93/05/04	1255			2.180		0.166	0.087					
93/06/08	1220			1.240		0.103	0.078					
93/07/06	1145			0.563		0.100	0.085					
93/08/03	1150			0.010K		0.024	0.015					
93/09/07	1130			0.214		0.091	0.043					

DATE FROM TO	TIME	DEPTH FEET	931 SODIUM ADSBTION RATIO	932 PERCENT SODIUM %	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1002 ARSENIC AS,TOT UG/L	1020 BORON B,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1025 CADMIUM CD,DISS UG/L	1027 CADMIUM CD,TOT UG/L	1030 CHROMIUM CR,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L	1042 COPPER CU,TOT UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1051 LEAD PB,TOT UG/L	1065 NICKEL NI,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1092 ZINC ZN,TOT UG/L	1094 ZINC TOT REC UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L	1130 LITHIUM LI,DISS UG/L	31501 TOT COLI MFIMENDO /100ML

DATE FROM TO	TIME	DEPTH FEET	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	31672 FECSTREP PC M-ENT /100ML	70300 RESIDUE DISS-180 C MG/L	70301 DISS SOL SUM MG/L	70302 DISS SOL TONS/DAY	70303 DISS SOL TONS PER ACRE-FT	70337 SUSP SED PARTSIZE %<.002MM
92/10/06	1110					78						
92/11/03	1210					4						
92/12/02	1125					46						
93/02/02	1120					67						
93/03/02	1140					2						
93/04/06	1125					100						
93/05/04	1255					160						
93/06/08	1220					23						
93/07/06	1145					33						
93/08/03	1150					69						

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	31672 FECSTREP PC M-ENT /100ML	70300 RESIDUE DISS-180 C MG/L	70301 DISS SOL SUM MG/L	70302 DISS SOL TONS/DAY	70303 DISS SOL TONS PER ACRE-FT	70337 SUSP SED PARTSIZE %<.002MM
93/09/07	1130					20						

DATE FROM TO	TIME	DEPTH FEET	70338 SUSP SED PARTSIZE %<.004MM	70339 SUSP SED PARTSIZE %<.008MM	70340 SUSP SED PARTSIZE %<.016MM	70341 SUSP SED PARTSIZE %<.031MM	70342 SUSP SED PARTSIZE %<.062MM	70343 SUSP SED PARTSIZE %<.125MM	71851 NITRATE DISS-NO3 MG/L	71900 MERCURY HG,TOTAL UG/L	71901 MERCURY TOT REC UG/L	80154 SUSP SED CONC MG/L

DATE FROM TO	TIME	DEPTH FEET	80155 SUSP SED DISCHARG TONS/DAY	82079 TURBIDTY LAB NTU
92/10/06	1110			8.1
92/11/03	1210			4.6
92/12/02	1125			8.4
93/02/02	1120			47.0
93/03/02	1140			12.0
93/04/06	1125			45.0
93/05/04	1255			75.0
93/06/08	1220			6.6
93/07/06	1145			5.1
93/08/03	1150			1.2
93/09/07	1130			26.0

34A170 7534A170 13345300
PALOUSE RIVER AT PALOUSE
46 54 37.0 117 04 08.0 2F 0 Elev= 0 ft
53075 Washington Whitman Co. PACIFIC NORTHWEST
LOWER SNAKE (Palouse-34) 130834
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 16-34-01 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1310001 002740 00290
MILES 0324.30 0059.50 121.20 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	410 T ALK CACO3 MG/L
92/10/06	1250		416161	10.4	709	13		79	10.7	102.3	8.20	
92/11/03	1345		456161	6.0	714	61		76	11.8	100.8	7.80	
92/12/02	1300		496161	0.0	700	37		95	13.6	101.1	7.70	
93/02/02	1250		66161	0.0	709	139		101	12.7	93.2	7.50	
93/03/02	1320		106161	0.0	707	60		98	12.9	94.9	7.70	
93/04/06	1310		156161	4.5	701	1120		35	11.2	93.8	7.80	
93/05/04	1425		196161	6.6	761	1280		66	10.3	83.7	7.60	
93/06/08	1345		246161	16.0	705	71		76	11.2	121.4	8.40	
93/07/06	1325		286161	18.1	701	45		62	9.8	111.7	8.20	
93/08/03	1330		326161	23.7	700	32		69	9.5	120.7	8.80	
93/09/07	1330		376161	17.2	704	13		82	9.9	110.4	8.60	

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L
92/10/06	1250			2.0	0.010K	0.010K	0.010K	0.018	0.010K			
92/11/03	1345			5.0	0.010K	0.010K	0.010K	0.033	0.010K			
92/12/02	1300			3.0	0.018	0.010K	0.163	0.044	0.019			
93/02/02	1250			5.0	0.038	0.010K	2.240	0.083	0.040			
93/03/02	1320			5.0	0.039	0.010K	0.913	0.054	0.025			
93/04/06	1310			22.0	0.010K	0.010K	0.271	0.068	0.026			
93/05/04	1425			630.0	0.089	0.010K	0.825	0.162	0.065			
93/06/08	1345			5.0	0.010K	0.010K	0.014	0.032	0.021			
93/07/06	1325			3.0	0.010K	0.010K	0.010K	0.029	0.018			
93/08/03	1330			69.0	0.010K	0.010K	1.180	0.096	0.141			
93/09/07	1330			1.0K	0.010K	0.010K	0.010K	0.016	0.010K			

DATE FROM TO	TIME	DEPTH FEET	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/06	1250								12	1.4

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/11/03	1345								100	4.1
92/12/02	1300								2	6.0
93/02/02	1250								11	16.0
93/03/02	1320								8	7.8
93/04/06	1310								46	16.0
93/05/04	1425								3200J	200.0
93/06/08	1345								120	5.0
93/07/06	1325								26	2.0
93/08/03	1330								100	53.0
93/09/07	1330								53	1.1

35A150 0335A150 13335300 541132
SNAKE RIVER AT INTERSTATE BRIDGE
46 25 15.0 117 02 05.0 2F 0 Elev= 0 ft
53003 Washington Asotin Co. PACIFIC NORTHWEST
LOWER SNAKE (Middle Snake-35) 130835
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 26-00-05 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1310001 002740
MILES 0324.30 0139.60 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L
92/10/05	1620		416155	17.6	746	14200			361	8.9	94.5	
92/11/02	1635		456155	12.3	754	14300			369	10.1	94.7	
92/12/01	1615		496155	6.2	750	13600			415	12.0	98.1	
93/01/05	1010		26155	2.8	751				385	13.1	98.0	
93/02/01	1630		66155	1.2	755	17700			390	13.9	99.1	
93/03/01	1625		106155	1.7	748	17200			345	13.5	98.4	
93/04/05	1620		156155	7.8	740	68500			203	11.0	94.7	
93/05/03	1800		196155	11.2	737	46900			165	10.5	98.3	
93/06/07	1720		246155	13.1	742	87100			125	10.4	100.8	2.0U
93/07/05	1645		286155	15.7	739	34900			123	9.7J	99.9	2.0K
93/08/02	1645		326155	20.6	740	24600			213	9.4	106.6	2.0K
93/09/06	1655		376155	19.8	735	19000			259	9.1	102.3	2.0K

DATE FROM TO	TIME	DEPTH FEET	400 PH SU	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	600 TOTAL N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L
92/10/05	1620		8.30				6.0	0.63	0.024	0.010K		0.401
92/11/02	1635		8.30				4.0	0.65	0.011	0.010K		0.470
92/12/01	1615		8.30				5.0	0.84	0.019	0.010K		0.683
93/01/05	1010		8.50				2.0	1.11	0.030	0.010K		0.939
93/02/01	1630		8.50				3.0	1.32	0.010K	0.010K		1.140
93/03/01	1625		8.30				3.0	1.26	0.010K	0.010K		1.130
93/04/05	1620		8.50				25.0	1.36	0.079	0.010K		0.899
93/05/03	1800		7.70				15.0	0.76	0.020	0.010K		0.530
93/06/07	1720		8.00				20.0	0.38	0.026	0.010K		0.164
93/07/05	1645		8.20				5.0	0.28	0.010K	0.010K		0.157
93/08/02	1645		8.50				3.0	0.43	0.010K	0.010K		0.253
93/09/06	1655		8.40				3.0	0.55	0.010K	0.010K		0.353

DATE FROM TO	TIME	DEPTH FEET	650 T PO4 PO4 MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	931 SODIUM ADSBTION RATIO

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	650 T PO4 PO4 MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	931 SODIUM ADSBTION RATIO
92/10/05	1620				0.067	0.063						
92/11/02	1635				0.036	0.024						
92/12/01	1615				0.050	0.039						
93/01/05	1010				0.075	0.068						
93/02/01	1630				0.041	0.025						
93/03/01	1625				0.045	0.029						
93/04/05	1620				0.128	0.082						
93/05/03	1800				0.066	0.045						
93/06/07	1720				0.029	0.021						
93/07/05	1645				0.021	0.016						
93/08/02	1645				0.034	0.023						
93/09/06	1655				0.039	0.023						

DATE FROM TO	TIME	DEPTH FEET	932 PERCENT SODIUM %	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1020 BORON B,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1045 IRON FE,TOT UG/L	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1130 LITHIUM LI,DISS UG/L	31503 TOT COLI MFDLENDO /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	32211 CHLRPHYL A UG/L CORRECTD	32218 PHEOPHTN A UG/L
92/10/05	1620									6		
92/11/02	1635									2		
92/12/01	1615									1		
93/01/05	1010									2		
93/02/01	1630									5		
93/03/01	1625									1K		
93/04/05	1620									25		
93/05/03	1800									17S		
93/06/07	1720									44	3.80	6.30
93/07/05	1645									15	1.50	0.47
93/08/02	1645									7	4.20	1.20
93/09/06	1655									2	1.00J	0.49J

DATE FROM TO	TIME	DEPTH FEET	70300 RESIDUE DISS-180 C MG/L	70303 DISS SOL TONS PER ACRE-FT	71851 NITRATE DISS-NO3 MG/L	82079 TURBIDTY LAB NTU
92/10/05	1620					1.4
92/11/02	1635					1.3
92/12/01	1615					1.2

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	70300 RESIDUE DISS-180 C MG/L	70303 DISS SOL TONS PER ACRE-FT	71851 NITRATE DISS-NO3 MG/L	82079 TURBIDTY LAB NTU
93/01/05	1010					0.7
93/02/01	1630					1.8
93/03/01	1625					1.4
93/04/05	1620					23.0
93/05/03	1800					8.5
93/06/07	1720					5.4
93/07/05	1645					2.4
93/08/02	1645					0.7
93/09/06	1655					1.7

35C070 0335C070 13334000
GRANDE RONDE RIVER NEAR ANATONE
46 04 13.0 117 00 16.0 2F 0 Elev= 0 ft
53003 Washington Asotin Co. PACIFIC NORTHWEST
LOWER SNAKE (Middle Snake-35) 130835
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 17-35-03 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1310001 002740 01760
MILES 0324.30 0168.70 002.80 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	410 T ALK CACO3 MG/L
92/10/06	0715		416157	12.9	752	743		144	9.9	94.3	8.30	
92/11/03	0815		456157	7.4	760	1100		125	11.7	97.1	8.10	
92/12/02	0720		496157	0.6	741	837		138	13.9	99.1	8.10	
93/01/05	0810		26157	0.0	745	1010		103	13.9	97.0	8.00	
93/02/02	0730		66157	0.1	754	1050		120	14.0	96.8	8.00	
93/03/02	0730		106157	1.2	751	1080		127	13.6	97.3	8.20	
93/04/06	0735		156157	5.6	743	10600		55	11.6	94.2	7.40	
93/05/04	0805		196157	8.6	741	14900		52	11.2	98.1	6.90	
93/06/08	0720		246157	10.4	747	8720		61	10.9	98.9	7.60	
93/07/06	0740		286157	16.6	740	2780		82	9.1	95.2	8.10	
93/08/03	0745		326157	20.0	740	1410		100	8.5	95.2	8.10	
93/09/07	0735		376157	18.0	750	755		142	8.7	92.5	8.20	

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P
92/10/06	0715				5.0	0.010K	0.010K			0.036	0.040	0.034
92/11/03	0815				26.0	0.010K	0.010K			0.010K	0.036	0.010K
92/12/02	0720				5.0	0.010K	0.010K			0.067	0.017	0.010K
93/01/05	0810				3.0	0.010K	0.010K			0.145	0.010K	0.011
93/02/02	0730				6.0	0.010K	0.010K			0.219	0.025	0.010K
93/03/02	0730				6.0	0.012	0.010K			0.141	0.025	0.010K
93/04/06	0735				28.0	0.010K	0.010K			0.215	0.097	0.043
93/05/04	0805				73.0	0.031	0.010K			0.086	0.084	0.028
93/06/08	0720				42.0	0.022	0.010K			0.066	0.056	0.022
93/07/06	0740				6.0	0.010K	0.010K			0.010K	0.017	0.010
93/08/03	0745				6.0	0.010K	0.010K			0.010K	0.024	0.013
93/09/07	0735				5.0	0.012	0.010K			0.010	0.017	0.010K

DATE FROM TO	TIME	DEPTH FEET	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1049 LEAD PB,DISS UG/L	1090 ZINC ZN,DISS UG/L	31616 FEC COLI MFM-FCBR /100ML	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/06	0715				93		2.2
92/11/03	0815				35		6.0
92/12/02	0720				4		1.4
93/01/05	0810				3		2.0
93/02/02	0730				4		3.6
93/03/02	0730				10		3.7
93/04/06	0735				14		22.0
93/05/04	0805				160		19.0
93/06/08	0720				110		15.0
93/07/06	0740				9		1.7
93/08/03	0745				3		2.1
93/09/07	0735				5		1.9

35D070 0335D070 13335050
ASOTIN CREEK AT ASOTIN
46 20 27.0 117 03 18.0 2F 0 Elev= 0 ft
53003 Washington Asotin Co. PACIFIC NORTHWEST
LOWER SNAKE (Middle Snake-35) 130835
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 26-35-99 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1310001 002740 01400
MILES 0324.30 0145.30 000.40 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	410 T ALK CACO3 MG/L
92/10/06	0815		416158	10.6	755	30		127	10.5	94.7	8.10	
92/11/03	0915		456158	8.0	764	38		118	11.8	98.9	8.20	
92/12/02	0820		496158	3.5	745	34		128	12.7	97.4	8.00	
93/01/05	0915		26158	0.2	749	30		111	14.3	99.8	8.10	
93/02/02	0830		66158	2.9	757	30		116	13.1	97.4	8.10	
93/03/02	0825		106158	2.9	754	35		116	13.3	99.2	8.20J	
93/04/06	0835		156158	4.3	745	273		78	12.2	95.6	7.70	
93/05/04	0915		196158	8.0	745	460		100	11.2	96.3	7.90	
93/06/08	0835		246158	11.7	749	71		95	11.0	102.4	7.60	
93/07/06	0840		286158	13.7	742	22		109	10.0	98.2	8.20	
93/08/03	0850		326158	16.6	742	38		114	9.6	100.2	8.40	
93/09/07	0835		376158	14.2	745	30		120	10.0	98.9	8.30	

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L
92/10/06	0815				12.0	0.010K	0.010K	0.010K	0.037	0.010K		
92/11/03	0915				3.0	0.010K	0.010K	0.011	0.042	0.032		
92/12/02	0820				5.0	0.010K	0.010K	0.159	0.050	0.037		
93/01/05	0915				6.0	0.010K	0.010K	0.219	0.041	0.045		
93/02/02	0830				10.0	0.010K	0.010K	0.276	0.056	0.046		
93/03/02	0825				8.0	0.010K	0.010K	0.203	0.051	0.042		
93/04/06	0835				17.0	0.010K	0.010K	0.164	0.077	0.050		
93/05/04	0915				1110.0	0.020	0.010K	0.244	0.109	0.083		
93/06/08	0835				13.0	0.012	0.010K	0.067	0.039	0.041		
93/07/06	0840				25.0	0.011	0.010K	0.049	0.050	0.041		
93/08/03	0850				12.0	0.010K	0.010K	0.088	0.054	0.047		
93/09/07	0835				7.0	0.010K	0.010K	0.124	0.058	0.043		

DATE FROM TO	TIME	DEPTH FEET	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1049 LEAD PB,DISS UG/L	1090 ZINC ZN,DISS UG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1049 LEAD PB,DISS UG/L	1090 ZINC ZN,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	31616 FEC COLI MFM-FCBR /100ML	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/06	0815		8		2.5
92/11/03	0915		35		0.5
92/12/02	0820		110		0.8
93/01/05	0915		230		0.7
93/02/02	0830		63		2.8
93/03/02	0825		81		1.6
93/04/06	0835		35		13.0
93/05/04	0915		1700J		270.0
93/06/08	0835		150		2.9
93/07/06	0840		92		3.4
93/08/03	0850		240		3.2
93/09/07	0835		160		2.6

35E070 6935E070
CLEARWATER RIVER AT US 12/95
46 25 07.5 116 59 55.5 2F000 Elev= 0 ft
16069 Idaho Nez Perce Co. PACIFIC NORTHWEST
LOWER SNAKE (Middle Snake-35) 130835
21540000 Reach=17060306082 0.000 Drg= 0 sqmi
AMBNT/STREAM

INDEX 1310001 002740 01350
MILES 0324.30 0139.60 001.10 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L	400 PH SU	600 TOTAL N N MG/L
92/10/06	0845		416159	12.9	755	3820	33	9.8	92.9		7.70	0.10
92/11/03	0950		456159	8.4	764	4990	36	11.0	93.0		7.70	0.09
92/12/02	0905		496159	2.2	746	3440	44	13.3	98.4		7.60	0.15
93/01/05	0945		26159	1.1	750	3150	39	13.7	97.9		8.10	0.11
93/02/02	0910		66159	1.5	758	3730	45	13.5	96.5		8.00	0.34
93/03/02	0855		106159	2.8	754	3340	43	13.5	100.4		7.80	0.15
93/04/06	0915		156159	5.9	745	18700	35	11.5	93.8		7.50	0.52
93/05/04	0955		196159	7.3	746	42100	38	11.2	94.5		8.00	0.46
93/06/08	0915		246159	12.2	750	35900	19	10.7	100.6	2.0U	7.70	0.57
93/07/06	0920		286159	10.9	743	20000	23	10.3	94.9	2.0K	7.50	0.12
93/08/03	0930		326159	14.7	743	27700	26	10.0	100.2	2.0K	7.90	0.12
93/09/07	0915		376159	18.0	746	3420	40	8.6	91.8	2.0K	8.00	0.15

DATE FROM TO	TIME	DEPTH FEET	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31616 FEC COLI MFM-FCBR /100ML	32211 CHLRPHYL A UG/L CORRECTD	32218 PHEOPHTN A UG/L	82079 TURBIDTY LAB NTU
92/10/06	0845		0.010K		0.010K	0.010K		13			1.1
92/11/03	0950		0.010K		0.010K	0.010K		3			0.9
92/12/02	0905					0.012		11			1.1
93/01/05	0945					0.010K		8			0.8
93/02/02	0910					0.014		79			3.4
93/03/02	0855					0.011		28			1.6
93/04/06	0915					0.036		18			11.0
93/05/04	0955			0.010K		0.052	0.014	170			22.0
93/06/08	0915			0.010K		0.060	0.010K	540	4.60	5.00	28.0
93/07/06	0920					0.010K		69	0.88	0.56	2.1
93/08/03	0930					0.010K		41	1.70	1.10	1.7
93/09/07	0915					0.010K		10	0.68J	0.50	1.0

37A090 0537A090 12510500
YAKIMA RIVER AT KIONA
46 15 13.0 119 28 37.0 2F 0 Elev= 0 ft
53005 Washington Benton Co. PACIFIC NORTHWEST
YAKIMA (Lower Yakima-37) 130437
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 18-37-01 Class= B Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 002750
MILES 0335.20 0029.80 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L
92/10/12	0940		426000	13.4	750	1620			289	9.9	95.7	
92/11/09	0805		466000	8.3	754	1690			228	10.9	93.2	
92/12/07	1000		506000	1.5	748	1530			270	14.1	102.2	
93/01/11	0830		36000	0.0	754	1500			262	13.6	93.9	
93/02/08	0750		76000	4.6	747	2250			264	11.7	92.2	
93/03/07	0835		116000	6.3	758	2650			238	10.7	86.7	
93/04/11	0820		166000	9.7	756	4870			162	10.4	91.7	
93/05/10	0750		206000	14.3	753	1970			161	9.2	90.2	
93/06/13	0720		256000	16.8	759	1680			220	9.0	92.2	
93/07/12	0720		296000	19.3	753	836			271	8.3	90.2	
93/08/09	0820		336000	21.0	750	956			298	8.5	95.8	
93/09/13	0715		386000	17.0	756	2110			219	9.0	92.9	

DATE FROM TO	TIME	DEPTH FEET	340 COD HI LEVEL MG/L	400 PH SU	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L
92/10/12	0940			8.20					17.0		0.037	0.018
92/11/09	0805			8.30					18.0		0.043	0.030
92/12/07	1000			8.40					1.0		0.035	0.010K
93/01/11	0830			8.10					3.0		0.137	0.016
93/02/08	0750			7.90					15.0		0.127	0.014
93/03/07	0835			8.30					35.0		0.209	0.022
93/04/11	0820			7.90					86.0		0.052	0.010
93/05/10	0750			7.80					26.0		0.030	0.010K
93/06/13	0720			7.70					27.0		0.014	0.013
93/07/12	0720			8.40					27.0		0.019	0.014
93/08/09	0820			8.40					23.0		0.010K	0.023
93/09/13	0715			7.60					36.0		0.038	0.017

DATE FROM TO	TIME	DEPTH FEET	615 NO2-N TOTAL MG/L	618 NO3-N DISS MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	650 T PO4 PO4 MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	615 NO2-N TOTAL MG/L	618 NO3-N DISS MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	650 T PO4 PO4 MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L
92/10/12	0940						1.390			0.105	0.070	
92/11/09	0805						1.430			0.103	0.078	
92/12/07	1000						1.610			0.097	0.069	
93/01/11	0830						1.750			0.111	0.099	
93/02/08	0750						1.360			0.103	0.085	
93/03/07	0835						1.210			0.216	0.091	
93/04/11	0820						0.545			0.120	0.046	
93/05/10	0750						0.698			0.096	0.046	
93/06/13	0720						1.100			0.094	0.044	
93/07/12	0720						1.200			0.101	0.057	
93/08/09	0820						1.060			0.137	0.091	
93/09/13	0715						1.090			0.140	0.080	

DATE FROM TO	TIME	DEPTH FEET	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	931 SODIUM ADSBTION RATIO	932 PERCENT SODIUM %	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L

DATE FROM TO	TIME	DEPTH FEET	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1005 BARIUM BA,DISS UG/L	1020 BORON B,DISS UG/L	1025 CADMIUM CD,DISS UG/L	1027 CADMIUM CD,TOT UG/L	1030 CHROMIUM CR,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1042 COPPER CU,TOT UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1051 LEAD PB,TOT UG/L	1065 NICKEL NI,DISS UG/L	1075 SILVER AG,DISS UG/L	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1092 ZINC ZN,TOT UG/L	1105 ALUMINUM AL,TOT UG/L

DATE FROM TO	TIME	DEPTH FEET	1130 LITHIUM LI,DISS UG/L	1145 SELENIUM SE,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31503 TOT COLI MFDLENDO /100ML	31504 TOT COLI MFIM LES /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML	31672 FECSTREP PC M-ENT /100ML	33410 Unknown Par Name
92/10/12	0940								17S			
92/11/09	0805								29			
92/12/07	1000								43			
93/01/11	0830								12			
93/02/08	0750								29			
93/04/11	0820								41X			
93/05/10	0750								22			
93/06/13	0720								72			

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	1130 LITHIUM LI,DISS UG/L	1145 SELENIUM SE,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31503 TOT COLI MFDLENDO /100ML	31504 TOT COLI MFIM LES /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML	31672 FECSTREP PC M-ENT /100ML	33410 Unknown Par Name
93/07/12	0720								51S			
93/08/09	0820								81			
93/09/13	0715								110X			

DATE FROM TO	TIME	DEPTH FEET	39330 ALDRIN TOT UG/L	39340 GAMMABHC LINDANE TOT.UG/L	39350 CHLRDANE TECH&MET TOT UG/L	39360 DDD WHL SMPL UG/L	39365 DDE WHL SMPL UG/L	39370 DDT WHL SMPL UG/L	39380 DIELDRIN TOTUG/L	39390 ENDRIN TOT UG/L	39410 HEPTCHLR TOTUG/L	39420 HPCHLREP TOTUG/L

DATE FROM TO	TIME	DEPTH FEET	39730 2,4-D WHL SMPL UG/L	39740 2,4,5-T WHL SMPL UG/L	39760 SILVEX WHL SMPL UG/L	70300 RESIDUE DISS-180 C MG/L	70301 DISS SOL SUM MG/L	70302 DISS SOL TONS/DAY	70303 DISS SOL TONS PER ACRE-FT	71851 NITRATE DISS-NO3 MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/12	0940											4.5
92/11/09	0805											4.7
92/12/07	1000											2.2
93/01/11	0830											2.6
93/02/08	0750											4.2
93/03/07	0835											13.0
93/04/11	0820											17.0
93/05/10	0750											7.6
93/06/13	0720											6.9
93/07/12	0720											7.1
93/08/09	0820											6.9
93/09/13	0715											14.5

37A095 0537A095
YAKIMA 2 MI BELOW PROSSER
46 13 28.0 119 46 13.0 2F000 Elev= 0 ft
53005 Washington Benton Co. PACIFIC NORTHWEST
YAKIMA (Lower Yakima-37) 130437
21540000 Reach=17030003005 0.000 Drg= 0 sqmi
AMBNT/STREAM

INDEX 1310001 002750
MILES 0335.20 0044.90 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	600 TOTAL N N MG/L	665 PHOS-TOT MG/L P
92/10/12	1045		426002	14.0	747	575	291	10.8	106.1	8.00	1.76	0.139
92/11/09	0945		466002	9.4	752	1570	250	11.1	97.7	8.10		
93/02/08	0910		76002	5.1	744	714	261	12.8	102.6	8.00		
93/03/07	0930		116002	5.8	754	1240	206	11.7	94.1	7.80		
93/04/11	0900		166002		751	3050		11.1	76.8			
93/05/10	0840		206002	14.4	750	644	169	11.7	115.4	8.20		
93/06/13	0820		256002	16.8	755	579	219	10.5	108.1	8.00		
93/07/12	0830		296002	18.4	750	213	289	9.1	97.5	8.20		
93/08/09	0910		336002	21.1	749	266	300	9.1	102.9	8.40		
93/09/13	0820		386002	16.9	754	896	226	7.4	76.5	7.90		

DATE FROM TO	TIME	DEPTH FEET	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/12	1045		24	3.3
92/11/09	0945		33	
93/02/08	0910		10	
93/04/11	0900		59S	
93/05/10	0840		23	
93/06/13	0820		38	
93/07/12	0830		100	
93/08/09	0910		35	
93/09/13	0820		120X	

37A100 0537A100
YAKIMA BELOW PROSSER
46 12 45.0 119 46 15.0 2F000 Elev= 0 ft
53005 Washington Benton Co. PACIFIC NORTHWEST
YAKIMA (Lower Yakima-37) 130437
21540000 Reach=17030003005 0.000 Drg= 0 sqmi
AMBNT/STREAM

INDEX 1310001 002750
MILES 0335.20 0047.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	600 TOTAL N N MG/L	610 NH3+NH4- N TOTAL MG/L
92/10/12	1120		426001	13.6	744	575	275	10.1	98.8	7.80	1.62	
92/11/09	1030		466001	9.4	751	1570	250	11.0	97.0	8.20	1.81	0.074
92/12/07	1100		506001	2.0	742	512	271	13.6	100.7	8.00	1.72	
93/01/11	0950		36001	0.0	753	1390	216	13.8	95.3	8.20	2.13	
93/02/08	1000		76001	4.7	742	714	290	12.3	97.8	8.20	1.67	
93/03/07	0955		116001	5.4	753	1240	196	12.0	95.7	8.20	1.51	
93/04/11	1015		166001	9.1	751	3050	132	11.0	96.2	6.80	0.73J	
93/05/10	0910		206001	14.2	748	644	167	10.5	103.5	8.30	1.00	
93/06/13	0900		256001	17.3	753	579	211	9.5	99.2	8.00	1.43	
93/07/12	0855		296001	20.0	749	213	259	9.2	101.6	8.40	1.56	
93/08/09	0935		336001	22.4	749	266	270	9.9	114.7	8.60	1.60	
93/09/13	0845		386001	17.3	754	896	189	9.3	96.9	7.90	1.19	

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/12	1120			0.090	36	4.8
92/11/09	1030		1.320	0.067	31	4.7
92/12/07	1100			0.081	17	2.6
93/01/11	0950			0.104	20	2.4
93/02/08	1000			0.106	77	4.0
93/03/07	0955			0.187		31.0
93/04/11	1015			0.118	83	15.0
93/05/10	0910			0.081	24	7.1
93/06/13	0900			0.103	76	8.2
93/07/12	0855			0.111	87X	7.8
93/08/09	0935			0.116	45X	7.5
93/09/13	0845			0.108	110X	12.6

37A170 7737A170 12505300
YAKIMA RIVER NEAR TOPPENISH
46 19 14.0 120 18 47.0 2F 0 Elev= 0 ft
53077 Washington Yakima Co. PACIFIC NORTHWEST
YAKIMA (Lower Yakima-37) 130437
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 18-37-02 Class= B Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1310001 002750
MILES 0335.20 0093.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	410 T ALK CACO3 MG/L
92/11/09	1230		466003	9.4	746	1090		202	12.9	113.7	8.20	
92/12/07	1220		506002	1.1	739	931		162	15.3	110.9	8.30	
93/01/11	1055		36003	0.0	749	910		130	14.0	97.2	8.00	
93/02/08	1055		76003	3.3	738	1240		150	13.1	101.0	7.90	
93/03/07	1055		116003	6.7	749	1300		162	12.2	101.1	8.30	
93/04/11	1105		166003	7.7	748	2650		98	12.2	103.7	7.80	
93/05/10	1000		206003	12.7	744	426		109	11.6	111.2	8.30	
93/06/13	0945		256003	14.1	749	591		110	10.9	106.9	7.80	
93/07/12	0945		296003	16.0	744	428		105	9.6	98.7	8.00	
93/08/09	1030		336003	18.4	743	407		111	9.8	106.0	8.20	
93/09/13	0930		386003	15.9	747	647		105	9.6	98.1	7.90	

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P
92/11/09	1230			9.0	0.040	0.024				0.424	0.051	0.027
92/12/07	1220			5.0	0.043	0.019				0.477	0.066	0.053
93/01/11	1055			14.0	0.065	0.010K				0.696	0.079	0.069
93/02/08	1055			10.0	0.088	0.010K				0.424	0.062	0.042
93/03/07	1055			14.0	0.026	0.010K				0.396	0.062	0.020
93/04/11	1105			15.0	0.017	0.010K				0.176	0.036	0.020
93/05/10	1000			5.0	0.010K	0.010K				0.042	0.017	0.012
93/06/13	0945			9.0	0.010K	0.010K				0.112	0.027	0.010K
93/07/12	0945			12.0	0.012	0.010K				0.153	0.036	0.011
93/08/09	1030			10.0	0.010K	0.010K				0.126	0.034	0.017
93/09/13	0930			17.0	0.014	0.010K				0.204	0.059	0.030

DATE FROM TO	TIME	DEPTH FEET	680 T ORG C C MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	31504 TOT COLI MFIM LES /100ML

DATE	31616 FEC COLI	31672 FECSTREP	82079 TURBIDTY

FROM TO	TIME	DEPTH FEET	MFM-FCBR /100ML	PC M-ENT /100ML	LAB NTU

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	31616 FEC COLI MFM-FCBR /100ML	31672 FECSTREP PC M-ENT /100ML	82079 TURBIDTY LAB NTU
92/11/09	1230		10		2.0
92/12/07	1220		23		2.0
93/01/11	1055		17		1.9
93/02/08	1055		23		2.3
93/03/07	1055				1.9
93/04/11	1105		16		5.2
93/05/10	1000		43		2.8
93/06/13	0945		38		2.2
93/07/12	0945		57		4.4
93/08/09	1030		19		3.6
93/09/13	0930		37S		8.5

39C070 3739C070 12484490 541121
WILSON CREEK AT THRALL
46 55 04.0 120 30 25.0 2F 0 Elev= 0 ft
53037 Washington Kittitas Co. PACIFIC NORTHWEST
YAKIMA (Upper Yakima-39) 130439
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 18-39-06 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1310001 002750 01680
MILES 0335.20 0147.00 000.40 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	49 SURFACE AREA SQ. MI.	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/12	1350		426004	13.2	721		125		325	11.9	119.2	8.30
92/11/09	1350		466004	9.1	728				310	11.0	99.4	8.20
92/12/07	1355		506004	5.4	722		98		351	12.3	102.5	8.10
93/01/11	1215		36004	2.9	728		104		321	12.3	95.1	7.80
93/02/08	1240		76004	5.0	720		110		320	13.0	107.5	8.20
93/03/07	1250		116004	5.9	730		145		299	12.0	100.1	7.90
93/04/11	1250		166004	7.0	729		180		221	12.1	103.7	8.40
93/05/10	1350		206004	15.0	722		250		209	11.3	117.4	8.10
93/06/13	1110		256004	12.9	731		360		192	10.8	105.9	8.10
93/07/12	1115		296004	12.9	727		330		241	10.3	101.6	8.00
93/08/09	1150		336004	16.3	726		360		254	10.3	109.4	8.20
93/09/13	1050		386004	12.4	729		350		221	10.8	105.0	8.00

DATE FROM TO	TIME	DEPTH FEET	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	618 NO3-N DISS MG/L	620 NO3-N TOTAL MG/L
92/10/12	1350						12.0	0.022	0.010K			
92/11/09	1350						42.0	0.027	0.010K			
92/12/07	1355						18.0	0.031	0.010K			
93/01/11	1215						38.0	0.049	0.010K			
93/02/08	1240						16.0	0.071	0.010K			
93/03/07	1250						43.0	0.225	0.014			
93/04/11	1250						34.0	0.036	0.010K			
93/05/10	1350						34.0	0.047	0.010K			
93/06/13	1110						43.0	0.014	0.010K			
93/07/12	1115						54.0	0.151	0.052			
93/08/09	1150						30.0	0.010	0.012			
93/09/13	1050						23.0	0.015	0.010K			

DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	931 SODIUM ADSBTION RATIO

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DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	931 SODIUM ADSBTION RATIO
92/10/12	1350			1.020	0.122	0.091						
92/11/09	1350			1.130	0.126	0.105						
92/12/07	1355			1.400	0.119	0.095						
93/01/11	1215			1.270	0.111	0.095						
93/02/08	1240			1.160	0.101	0.094						
93/03/07	1250			0.967	0.269	0.190						
93/04/11	1250			0.844	0.101	0.076						
93/05/10	1350			0.861	0.212	0.170						
93/06/13	1110			0.668	0.087	0.073						
93/07/12	1115			1.240	0.179	0.140						
93/08/09	1150			0.831	0.147	0.122						
93/09/13	1050			0.618	0.125	0.095						

DATE FROM TO	TIME	DEPTH FEET	932 PERCENT SODIUM %	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1020 BORON B,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1130 LITHIUM LI,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31503 TOT COLI MFDLENDO /100ML	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L
92/10/12	1350										88	
92/11/09	1350										80	
92/12/07	1355										23	
93/01/11	1215										31X	
93/02/08	1240										31	
93/04/11	1250										80	
93/05/10	1350										60	
93/06/13	1110										240J	
93/07/12	1115										390	
93/08/09	1150										330	
93/09/13	1050										260	

DATE FROM TO	TIME	DEPTH FEET	70301 DISS SOL SUM MG/L	70303 DISS SOL TONS PER ACRE-FT	71850 NITRATE TOT-NO3 MG/L	71851 NITRATE DISS-NO3 MG/L	82079 TURBIDTY LAB NTU
92/10/12	1350						2.4
92/11/09	1350						7.0
92/12/07	1355						5.8
93/01/11	1215						5.9

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	70301 DISS SOL SUM MG/L	70303 DISS SOL TONS PER ACRE-FT	71850 NITRATE TOT-NO3 MG/L	71851 NITRATE DISS-NO3 MG/L	82079 TURBIDTY LAB NTU
93/02/08	1240						3.7
93/03/07	1250						11.0
93/04/11	1250						7.7
93/05/10	1350						7.9
93/06/13	1110						7.0
93/07/12	1115						9.3
93/08/09	1150						9.2
93/09/13	1050						7.2

45A070 0745A070 12462520 541017
WENATCHEE RIVER AT WENATCHEE
47 27 32.0 120 20 07.0 2F 0 Elev= 0 ft
53007 Washington Chelan Co. PACIFIC NORTHWEST
UPPER COLUMBIA (Wenatchee-45) 130545
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 21-45-01 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 003550
MILES 0468.40 0001.10 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L
92/10/12	1705		426007	12.6	737	423			90	12.6	121.6	
92/11/10	1615		466007	5.6	753	1290			49	13.5	108.1	
93/02/09	1530		76007	3.5	744	997			57	14.4	110.6	
93/03/08	1540		116007	5.2	748	957			68	14.0	111.8	
93/04/12	1535		166007	8.1	745	2610			51	13.4	115.4	
93/05/11	1616		206007	10.7	736	7440			33	11.1	102.9	
93/06/13	1435		256007	12.3	748	4630			32	10.7	101.1	
93/07/12	1520		296007	17.0	744	1480			45	10.3	108.1	
93/08/09	1600		336007	21.2	740	780			57	9.5	108.8	
93/09/13	1420		386007		744	464			78	12.1	84.6	

DATE FROM TO	TIME	DEPTH FEET	340 COD HI LEVEL MG/L	400 PH SU	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L
92/10/12	1705			9.40					4.0		0.011	0.010K
92/11/10	1615			8.40					4.0		0.010K	0.010K
93/02/09	1530			8.50					5.0		0.015	0.010K
93/03/08	1540			8.70					1.0		0.010K	0.010K
93/04/12	1535								3.0		0.010K	0.010K
93/05/11	1616			7.50					44.0		0.010K	0.010K
93/06/13	1435			7.50					7.0		0.010K	0.010K
93/07/12	1520			8.00					2.0		0.010K	0.010K
93/08/09	1600			8.50					2.0		0.010K	0.010K
93/09/13	1420			8.80					2.0		0.010K	0.010K

DATE FROM TO	TIME	DEPTH FEET	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L
92/10/12	1705					0.266		0.010K	0.010K			
92/11/10	1615					0.082		0.013	0.010K			
93/02/09	1530					0.152		0.010K	0.010K			

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L
93/03/08	1540					0.039		0.010K	0.010K			
93/04/12	1535					0.024		0.010K	0.010K			
93/05/11	1616					0.077		0.022	0.010K			
93/06/13	1435					0.060		0.010K	0.010K			
93/07/12	1520					0.086		0.010K	0.010K			
93/08/09	1600					0.168		0.010K	0.010K			
93/09/13	1420					0.272		0.010K	0.010K			

DATE FROM TO	TIME	DEPTH FEET	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1005 BARIUM BA,DISS UG/L	1020 BORON B,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1025 CADMIUM CD,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1065 NICKEL NI,DISS UG/L	1075 SILVER AG,DISS UG/L	1090 ZINC ZN,DISS UG/L	1145 SELENIUM SE,DISS UG/L	31501 TOT COLI MFIMENDO /100ML

DATE FROM TO	TIME	DEPTH FEET	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/12	1705				1K			0.4
92/11/10	1615				6			0.6
93/02/09	1530				1			0.6
93/03/08	1540				1K			0.3
93/04/12	1535							0.6
93/05/11	1616				29			6.1
93/06/13	1435				2			0.7
93/07/12	1520				16			0.5
93/08/09	1600				130			0.5
93/09/13	1420				4			0.6

45A110 0745A110 12457800 541115
WENATCHEE RIVER NEAR LEAVENWORTH
47 40 35.0 120 44 00.0 2F 0 Elev= 0 ft
53007 Washington Chelan Co. PACIFIC NORTHWEST
UPPER COLUMBIA (Wenatchee-45) 130545
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 21-45-01 Class= AA Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 003550
MILES 0468.40 0035.60 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/12	1535		426005	12.2	714	323			40	10.4	102.8	7.70
92/11/10	1440		466005	5.7	725	906			64	12.1	100.9	7.50
92/12/08	1525		506005	0.9	708	451			37	14.4	108.4	8.60
93/01/12	1435		36005	0.0	726	382			29	13.3	95.3	7.60
93/02/09	1415		76005	2.8	721	674			30	12.7	98.8	7.90
93/03/08	1350		116005	3.4	725	624			30	12.9	101.4	7.60
93/04/12	1410		166005	5.9	721	1720			30	12.1	102.0	
93/05/11	1450		206005	8.2	714	5000			22	10.8	97.3	7.90
93/06/13	1320		256005	10.3	724	3060			28	10.9	101.8	8.40
93/07/12	1350		296005	14.5	720	1200			34	9.8	100.9	7.60
93/08/09	1430		336005	19.2	719	725			34	9.2	104.5	8.30
93/09/13	1250		386005	14.1	721	387			39	10.1	102.9	8.20

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P
92/10/12	1535				1.0	0.013	0.010K			0.010K		0.010K
92/11/10	1440				3.0	0.010K	0.010K			0.019		0.012
92/12/08	1525				1.0K	0.010U				0.047		0.010K
93/01/12	1435				3.0	0.010K	0.010K			0.057		0.010K
93/02/09	1415				1.0	0.012	0.010K			0.051		0.010K
93/03/08	1350				36.0	0.018	0.010K			0.139		0.011
93/04/12	1410				2.0	0.010K	0.010K			0.055		0.010K
93/05/11	1450				32.0	0.010K	0.010K			0.099		0.016
93/06/13	1320				4.0	0.010K	0.010K			0.033		0.011
93/07/12	1350				2.0	0.010K	0.010K			0.010K		0.010K
93/08/09	1430				2.0	0.010K	0.010K			0.010K		0.010K
93/09/13	1250				2.0	0.010K	0.010K			0.010K		0.010K

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L
92/10/12	1535		0.010K									
92/11/10	1440		0.010K									
93/01/12	1435		0.010K									
93/02/09	1415		0.010K									
93/03/08	1350		0.010K									
93/04/12	1410		0.010K									
93/05/11	1450		0.010K									
93/06/13	1320		0.010K									
93/07/12	1350		0.010K									
93/08/09	1430		0.010K									
93/09/13	1250		0.010K									

DATE FROM TO	TIME	DEPTH FEET	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1045 IRON FE,TOT UG/L	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	82079 TURBIDTY LAB NTU
92/10/12	1535						1K		0.4
92/11/10	1440						2		0.6
92/12/08	1525						1K		0.0
93/01/12	1435								0.3
93/02/09	1415						1K		0.4
93/03/08	1350						1		0.7
93/04/12	1410						1K		0.6
93/05/11	1450						1		3.4
93/06/13	1320						1K		0.6
93/07/12	1350						3		0.7
93/08/09	1430						1		0.5
93/09/13	1250						3		0.6

45B070 0745B070 12458500
ICICLE CREEK NEAR LEAVENWORTH
47 33 49.0 120 40 00.0 2F 0 Elev= 0 ft
53007 Washington Chelan Co. PACIFIC NORTHWEST
UPPER COLUMBIA (Wenatchee-45) 130545
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 21-45-01 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1310001 003550 00250
MILES 0468.40 0025.60 002.50 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L
92/10/12	1615		426006	10.0	727	91		54	11.5	106.2	7.90	5.0
92/11/10	1510		466006	2.3	741	174		35	13.4	100.1	7.70	2.0
92/12/08	1600		506006	0.5	723	131		51	13.8	100.6	8.00	1.0
93/01/12	1515		36006	0.8	741	121		45	13.7	98.3	7.70	4.0
93/02/09	1445		76006	2.5	731	162		44	13.1	99.8	7.70	5.0
93/03/08	1450		116006	2.0	735	158		53	13.5	100.8	7.50	1.0
93/04/12	1445		166006	5.6	734	434		41	12.6	103.6		2.0
93/05/11	1520		206006	7.7	727	2000		22	11.3	98.8	7.50	20.0
93/06/13	1340		256006	8.8	737	828		30	11.4	100.9	7.80	2.0
93/07/12	1420		296006	12.8	733	196		42	10.9	106.3	7.80	1.0
93/08/09	1530		336006	17.2	729	78		54	10.5	113.0	8.10	1.0
93/09/13	1335		386006	11.1	719	35		17	11.8	113.0	7.90	3.0

DATE FROM TO	TIME	DEPTH FEET	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML
92/10/12	1615		0.024	0.010K				0.010K	0.010K	0.010K		1
92/11/10	1510		0.010K	0.010K				0.031	0.014	0.010K		2
92/12/08	1600		0.010U					0.056	0.010K			1K
93/01/12	1515		0.016	0.010K				0.082	0.010K	0.010K		2
93/02/09	1445		0.014	0.010K				0.071	0.010K	0.010K		1K
93/03/08	1450		0.017	0.010K				0.037	0.012	0.010K		1K
93/04/12	1445		0.010	0.010K				0.031	0.010K	0.010K		1K
93/05/11	1520		0.010K	0.010K				0.080	0.013	0.010K		1
93/06/13	1340		0.010K	0.010K				0.010K	0.010K	0.017		5
93/07/12	1420		0.010K	0.010K				0.011	0.010K	0.010K		2
93/08/09	1530		0.017	0.010K				0.039	0.012	0.010		4
93/09/13	1335		0.031	0.010K				0.024	0.012	0.013		20

DATE FROM TO	TIME	DEPTH FEET	82079 TURBIDTY LAB NTU

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	82079 TURBIDTY LAB NTU
92/10/12	1615		0.3
92/11/10	1510		0.5
92/12/08	1600		0.3
93/01/12	1515		0.5
93/02/09	1445		0.3
93/03/08	1450		0.2
93/04/12	1445		0.2
93/05/11	1520		2.7
93/06/13	1340		0.3
93/07/12	1420		0.4
93/08/09	1530		0.3
93/09/13	1335		0.8

47B070 4748A140
COLUMBIA RIVER AT CHELAN STATION
47 48 55.0 119 58 50.0 2F000 Elev= 0 ft
53007 Washington Chelan Co. PACIFIC NORTHWEST
UPPER COLUMBIA (Chelan-47) 130547
21540000 Reach=17020005000 0.000 Drg= 0 sqmi
AMBNT/STREAM/RMP

INDEX 1310001
MILES 0504.10 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L
92/10/13	1200		426014	16.4	744	99400	122	9.2	95.4	8.10	3.0	0.010K
92/11/10	1305		466014	13.0	752	109000	111	9.4	89.5	8.30	2.0	0.010K
92/12/08	1340		506014	9.3	733	142000	134	10.4	93.8	8.40	1.0K	0.010U
93/01/12	1250		36014	2.4	753	156000	137	12.2	89.9	7.60	2.0	0.010
93/02/09	1155		76014	1.5	741	137000	121	13.1	95.7	8.30	1.0	0.010
93/03/08	1215		116014	1.6	746	96500	129	13.5	98.3	8.30	2.0	0.010
93/04/12	1200		166014	4.1	747	96100	136	13.3	103.3	8.20	2.0	0.010K
93/05/11	1310		206014	6.7	737	137000	113	12.5	105.2	8.10	3.0	0.018
93/06/14	1240		256014	13.2	744	122000	112	10.5	101.7	7.80	2.0	0.010K
93/07/13	1250		296014	15.9	744	148200	118	10.0	102.6	8.00	1.0	0.012
93/08/10	1340		336014	18.2	740	120000	119	10.1	109.2	8.20	2.0	0.010K
93/09/14	1220		386014	17.8	740	110000	128	9.2	98.6	8.10	2.0	0.010K

DATE FROM TO	TIME	DEPTH FEET	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/13	1200		0.010K	0.068	0.010K	0.010K	1	0.6
92/11/10	1305		0.010K	0.082	0.020	0.010K	2	0.8
92/12/08	1340			0.099	0.010K		1	0.7
93/01/12	1250		0.010K	0.108	0.011	0.010K	1K	0.5
93/02/09	1155		0.010K	0.141	0.010K	0.010K	1K	0.5
93/03/08	1215		0.010K	0.133	0.012	0.010K	1K	0.5
93/04/12	1200		0.010K	0.129	0.010K	0.010K	1K	0.4
93/05/11	1310		0.010K	0.294	0.013	0.010K	1K	1.4
93/06/14	1240		0.010K	0.047	0.010K	0.010K	1	0.8
93/07/13	1250		0.010K	0.050	0.010K	0.010K	1	0.5
93/08/10	1340		0.010K	0.034	0.012	0.010K	1	0.4
93/09/14	1220		0.010K	0.064	0.010K	0.010K	1K	1.0

48A070 4748A070 12449954 541020
METHOW RIVER NEAR PATEROS
48 04 29.0 119 57 20.0 2F 0 Elev= 0 ft
53047 Washington Okanogan Co. PACIFIC NORTHWEST
UPPER COLUMBIA (Methow-48) 130548
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 22-48-01 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 004810
MILES 0523.90 0005.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L
92/10/13	1115		426013	10.6	740	343			165	11.1	102.1	
92/11/10	1200		466013	3.6	748	347			160	13.1	100.3	
92/12/08	1245		506011	0.0	729	330A			138	14.2	101.4	
93/02/09	1100		76011	3.7	737	285			169	12.9	100.6	
93/03/08	1140		116011	6.3	725	263			173	12.3	104.2	
93/04/12	1120		166011	8.2	744	347			138	11.6	100.4	
93/05/11	1230		206011	13.7	735	4700			88	10.0	99.2	
93/06/14	1145		256011	12.5	741	2300			88	10.4	99.7	
93/07/13	1200		296011	15.0	740	962			118	10.0	101.2	
93/08/10	1300		336011	17.8	738	1100			116	9.7	104.4	
93/09/14	1145		386011	12.6	737	402			152	11.1	107.1	

DATE FROM TO	TIME	DEPTH FEET	400 PH SU	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L
92/10/13	1115		8.30					1.0	0.010K	0.010K		
92/11/10	1200		8.40					2.0	0.010K	0.010K		
92/12/08	1245		8.40					1.0K	0.010U			
93/02/09	1100		8.10					2.0	0.011	0.010K		
93/03/08	1140		8.20					4.0	0.011	0.010K		
93/04/12	1120		8.30					3.0	0.010K	0.010K		
93/05/11	1230		8.10					27.0	0.010K	0.010K		
93/06/14	1145		7.90					4.0	0.010K	0.010K		
93/07/13	1200		8.40					2.0	0.010K	0.010K		
93/08/10	1300		8.30					14.0	0.010K	0.010K		
93/09/14	1145		8.40					2.0	0.010K	0.010K		

DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L
92/10/13	1115			0.198		0.010K	0.010K					

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L
92/11/10	1200			0.190		0.010K	0.010K					
92/12/08	1245			0.280		0.010K						
93/02/09	1100			0.212		0.010K	0.010K					
93/03/08	1140			0.177		0.010K	0.010K					
93/04/12	1120			0.140		0.010K	0.010K					
93/05/11	1230			0.050		0.011	0.010K					
93/06/14	1145			0.046		0.010K	0.010K					
93/07/13	1200			0.074		0.010K	0.010K					
93/08/10	1300			0.091		0.010K	0.010K					
93/09/14	1145			0.173		0.010K	0.010K					

DATE FROM TO	TIME	DEPTH FEET	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1005 BARIUM BA,DISS UG/L	1020 BORON B,DISS UG/L	1025 CADMIUM CD,DISS UG/L	1030 CHROMIUM CR,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1075 SILVER AG,DISS UG/L	1090 ZINC ZN,DISS UG/L	1145 SELENIUM SE,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L
92/10/13	1115										5	
92/11/10	1200										1K	
92/12/08	1245										2	
93/02/09	1100										1K	
93/03/08	1140										1K	
93/04/12	1120										1	
93/05/11	1230										59	
93/06/14	1145										6	
93/07/13	1200										31	
93/08/10	1300										3	
93/09/14	1145										5	

DATE FROM TO	TIME	DEPTH FEET	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/13	1115			0.5
92/11/10	1200			0.4
92/12/08	1245			0.3
93/02/09	1100			0.4
93/03/08	1140			0.5
93/04/12	1120			0.7

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
93/05/11	1230			4.5
93/06/14	1145			0.4
93/07/13	1200			0.4
93/08/10	1300			0.3
93/09/14	1145			0.4

48A140 4748A140 12449510-A
METHOW RIVER AT TWISP
48 21 35.0 120 06 47.0 2F000 Elev= 0 ft
53047 Washington Okanogan Co. PACIFIC NORTHWEST
UPPER COLUMBIA (Methow-48) 130548
21540000 Reach=17020008008 0.000 Drg= 0 sqmi
AMBNT/STREAM/RMP

INDEX 1310001 004810
MILES 0523.90 0039.40 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L
92/10/13	1015		426012	8.5	722	277	138	11.1	99.6	8.10	1.0	0.010K
92/11/10	1040		466012	3.2	729	277	155	12.9	100.5	8.20	1.0	0.010K
92/12/08	1130		506012	1.1	713	252	114	13.1	98.5	8.40	1.0K	0.010U
93/01/12	1110		36012	0.0	731	278A	129	13.1	93.3	7.40	2.0	0.014
93/02/09	0955		76012	4.0	720	221	128	12.2	98.2	8.00	1.0	0.012
93/03/08	1045		116012	5.5	726	209	130	12.1	100.4	8.40	3.0	0.017
93/04/12	1020		166012	6.7	726	324	127	11.8	100.9	7.70	2.0	0.011
93/05/11	1125		206012	8.7	719	2630	75	11.0	99.6	7.80	35.0	0.010
93/06/14	1055		256012	9.8	725	2080	75	10.8	99.5	8.00	2.0	0.010K
93/07/13	1030		296012	12.9	724	870	98	10.3	101.9	8.20	1.0	0.010K
93/08/10	1120		336012	14.4	723	828	99	9.8	100.4	8.20	1.0	0.010K
93/09/14	1010		386012	10.4	721	304	130	10.8	101.5	8.30	1.0	0.010K

DATE FROM TO	TIME	DEPTH FEET	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/13	1015		0.010K	0.145	0.010K	0.010K	15	0.4
92/11/10	1040		0.010K	0.133	0.010K	0.010K	1K	0.4
92/12/08	1130			0.172	0.010K		5	0.2
93/01/12	1110		0.010K	0.169	0.010K	0.010K	2	0.3
93/02/09	0955		0.010K	0.144	0.010K	0.010K	1	0.4
93/03/08	1045		0.010K	0.120	0.010K	0.010K	1K	0.3
93/04/12	1020		0.010K	0.119	0.010K	0.010K	2	0.5
93/05/11	1125		0.010K	0.070	0.015	0.010K	68	6.0
93/06/14	1055		0.010K	0.035	0.010K	0.010K	5	0.3
93/07/13	1030		0.010K	0.067	0.010K	0.010K	51	0.3
93/08/10	1120		0.010K	0.074	0.010K	0.010K	2	0.2
93/09/14	1010		0.010K	0.145	0.010K	0.010K	5	0.4

49A070 4749A070 12447200
OKANOGAN RIVER AT MALOTT
48 16 53.0 119 42 12.0 2F 0 Elev= 0 ft
53047 Washington Okanogan Co. PACIFIC NORTHWEST
UPPER COLUMBIA (Okanogan-49) 130549
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 22-49-02 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 004930
MILES 0533.50 0017.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L	400 PH SU
92/10/13	0915		426011	11.2	743	819		284	9.8	91.0		8.30
92/11/10	0940		466011	4.9	752	881		230	11.7	92.2		8.10
92/12/08	1010		506010	0.0	734	530A		212	13.7	97.1		8.50
93/03/08	0940		116010	0.0	745	900		271	13.4	93.7		8.50
93/04/12	0935		166010	9.7	747	1070		219	10.1	90.2		7.80
93/05/11	1030		206010	12.4	738	4720		152	10.3	98.8		8.00
93/06/14	0945		256010	15.5	742	5600		140	9.5	97.0		7.90
93/07/13	0940		296010	19.0	743	2920		197	8.8	96.3		8.30
93/08/10	1020		336010	20.5	744	4320		186	8.3	93.4		8.30
93/09/14	0915		386010	16.4	739	1790		234	9.4	98.2		8.20

DATE FROM TO	TIME	DEPTH FEET	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	600 TOTAL N N MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L
92/10/13	0915						8.0			0.010	0.010K	
92/11/10	0940						2.0			0.011	0.010K	
92/12/08	1010						1.0K			0.010U		
93/03/08	0940						6.0			0.017	0.010K	
93/04/12	0935						11.0			0.023	0.010K	
93/05/11	1030						36.0			0.012	0.010K	
93/06/14	0945						35.0			0.010K	0.010K	
93/07/13	0940						15.0			0.010K	0.010K	
93/08/10	1020						2.0			0.010K	0.010K	
93/09/14	0915						6.0			0.010K	0.010K	

DATE FROM TO	TIME	DEPTH FEET	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L
92/10/13	0915				0.025		0.013	0.010K				
92/11/10	0940				0.059		0.018	0.010K				
92/12/08	1010				0.134		0.010K					

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L
93/03/08	0940				0.078		0.024	0.010K				
93/04/12	0935				0.021		0.014	0.010K				
93/05/11	1030				0.013		0.030	0.010K				
93/06/14	0945				0.010K		0.026	0.010K				
93/07/13	0940				0.010K		0.020	0.010K				
93/08/10	1020				0.016		0.018	0.010K				
93/09/14	0915				0.045		0.010K	0.010K				

DATE FROM TO	TIME	DEPTH FEET	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1005 BARIUM BA,DISS UG/L	1020 BORON B,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1025 CADMIUM CD,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L	1042 COPPER CU,TOT UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1065 NICKEL NI,DISS UG/L	1075 SILVER AG,DISS UG/L	1090 ZINC ZN,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1092 ZINC ZN,TOT UG/L	1145 SELENIUM SE,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31507 TOT COLI MPN COMP /100ML	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML	70300 RESIDUE DISS-180 C MG/L	71851 NITRATE DISS-NO3 MG/L
92/10/13	0915								19			
92/11/10	0940								3			
92/12/08	1010								5			
93/03/08	0940								5			
93/04/12	0935								6			
93/05/11	1030								27			
93/06/14	0945								38			
93/07/13	0940								96			
93/08/10	1020								47			
93/09/14	0915								20			

DATE FROM TO	TIME	DEPTH FEET	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/13	0915			1.2
92/11/10	0940			0.9
92/12/08	1010			1.5

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
93/03/08	0940			2.2
93/04/12	0935			3.0
93/05/11	1030			8.0
93/06/14	0945			4.5
93/07/13	0940			2.3
93/08/10	1020			2.8
93/09/14	0915			1.6

49A190 4749A190 12439150 541023
OKANOGAN RIVER AT OROVILLE
48 56 20.0 119 25 36.0 2F 0 Elev= 0 ft
53047 Washington Okanogan Co. PACIFIC NORTHWEST
UPPER COLUMBIA (Okanogan-49) 130549
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 22-49-02 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 004930
MILES 0533.50 0078.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/13	0715		426009	13.3	742	369			278	9.1	88.7	8.40
92/11/10	0740		466009	8.2	750	244			228	10.6	91.0	8.40
92/12/08	0750		506009	2.6	731	210			271	12.2	93.2	8.40
93/01/12	0810		36009	0.0	751	224			262	13.0	90.1	8.20
93/02/09	0735		76009	1.5	738	259			287	13.3	97.8	8.30
93/03/08	0725		116009	3.1	742	219			265	13.9	106.0	8.70
93/04/12	0745		166009	7.7	745	109			248	12.2	104.1	8.20
93/05/11	0735		206009	12.5	738	1440			259	12.4	103.0	8.90
93/06/14	0750		256009	18.4	741	1230			259	9.3	100.8	8.30
93/07/13	0745		296009	19.5	741	1330			243	9.1	100.8	8.80
93/08/10	0815		336009	21.2	742	1920			234			8.40
93/09/14	0745		386009	18.4	738	838			239	8.8	95.9	8.10

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L
92/10/13	0715				7.0		0.010K	0.010K				0.013
92/11/10	0740				4.0		0.016	0.010K				0.038
92/12/08	0750				1.0		0.013					0.072
93/01/12	0810				2.0		0.010K	0.010K				0.098
93/02/09	0735				2.0		0.018	0.010K				0.105
93/03/08	0725				2.0		0.010K	0.010K				0.082
93/04/12	0745				4.0		0.020	0.010K				0.069
93/05/11	0735				7.0		0.010K	0.010K				0.010K
93/06/14	0750				5.0		0.010K	0.010K				0.010K
93/07/13	0745				3.0		0.010K	0.010K				0.010K
93/08/10	0815				3.0		0.010K	0.010K				0.010K
93/09/14	0745				3.0		0.011	0.010K				0.010K

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L
92/10/13	0715			0.018	0.010K							
92/11/10	0740			0.023	0.010K							
92/12/08	0750			0.011								
93/01/12	0810			0.011	0.010K							
93/02/09	0735			0.010K	0.010K							
93/03/08	0725			0.017	0.010K							
93/04/12	0745			0.010K	0.010K							
93/05/11	0735			0.010K	0.010K							
93/06/14	0750			0.010	0.010K							
93/07/13	0745			0.010K	0.010K							
93/08/10	0815			0.010	0.010K							
93/09/14	0745			0.010K	0.010K							

DATE FROM TO	TIME	DEPTH FEET	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1090 ZINC ZN,DISS UG/L	31504 TOT COLI MFIM LES /100ML

DATE FROM TO	TIME	DEPTH FEET	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/13	0715			80			2.2
92/11/10	0740			3			1.3
92/12/08	0750			17			0.6
93/01/12	0810			1K			0.7
93/02/09	0735			1K			0.7
93/03/08	0725			4			1.0
93/04/12	0745			1K			0.9
93/05/11	0735			1K			1.3
93/06/14	0750			3			1.2
93/07/13	0745			7			1.4
93/08/10	0815			2			1.3
93/09/14	0745			8			1.1

49B070 4749B070 12443600 541022
SIMILKAMEEN RIVER AT OROVILLE
48 56 05.0 119 26 27.0 2F 0 Elev= 0 ft
53047 Washington Okanogan Co. PACIFIC NORTHWEST
UPPER COLUMBIA (Okanogan-49) 130549
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 22-49-02 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 004930 00590
MILES 0533.50 0074.10 005.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/13	0740		426010	10.3	742	282			200	10.6	96.6	8.30
92/11/10	0810		466010	4.9	749	740			150	12.6	99.7	8.30
92/12/08	0820		506013	0.2	731	350A			197	14.4	103.0	8.50
93/03/08	0750		116013	3.9	742				198	12.4	96.6	8.60
93/04/12	0815		166013	8.7	745	855			161	11.4	99.6	8.00
93/05/11	0800		206013	12.6	738	4700			104	10.7	103.1	8.50
93/06/14	0820		256013	13.6	741	3750			107	10.8	105.9	8.50
93/07/13	0820		296013	16.5	740	2100			128	10.1	105.5	8.40
93/08/10	0840		336013	18.2	742	2100			132	9.9	106.7	8.40
93/09/14	0810		386013	14.4	738	1570			171	10.2	102.3	8.30

DATE FROM TO	TIME	DEPTH FEET	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P
92/10/13	0740				2.0	0.010K	0.010K			0.010K		0.010K
92/11/10	0810				3.0	0.010K	0.010K			0.010K		0.012
92/12/08	0820				1.0K	0.010U				0.058		0.010K
93/03/08	0750				4.0	0.010K	0.010K			0.010K		0.010K
93/04/12	0815				6.0	0.010K	0.010K			0.010K		0.010K
93/05/11	0800				30.0	0.010K	0.010K			0.010K		0.017
93/06/14	0820				15.0	0.010K	0.010K			0.010K		0.010K
93/07/13	0820				7.0	0.010K	0.010K			0.010K		0.010K
93/08/10	0840				5.0	0.010K	0.010K			0.018		0.010K
93/09/14	0810				3.0	0.010K	0.010K			0.016		0.010K

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L
92/10/13	0740		0.010K									
92/11/10	0810		0.010K									
93/03/08	0750		0.010K									

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L
93/04/12	0815		0.010K									
93/05/11	0800		0.010K									
93/06/14	0820		0.010K									
93/07/13	0820		0.010K									
93/08/10	0840		0.010K									
93/09/14	0810		0.010K									

DATE FROM TO	TIME	DEPTH FEET	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1090 ZINC ZN,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML
92/10/13	0740											1
92/11/10	0810											3
92/12/08	0820											1K
93/03/08	0750											1K
93/04/12	0815											5
93/05/11	0800											13
93/06/14	0820											10
93/07/13	0820											54
93/08/10	0840											12
93/09/14	0810											6

DATE FROM TO	TIME	DEPTH FEET	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/13	0740				1.2
92/11/10	0810				1.0
92/12/08	0820				0.7
93/03/08	0750				0.7
93/04/12	0815				1.9
93/05/11	0800				6.1
93/06/14	0820				2.9
93/07/13	0820				1.6
93/08/10	0840				1.9
93/09/14	0810				1.4

51A070 4751A070 12437505
NESPELEM RIVER AT NESPELEM
48 10 03.0 118 58 50.0 2F 0 Elev= 0 ft
53047 Washington Okanogan Co. PACIFIC NORTHWEST
UPPER COLUMBIA (Nespelem-51) 130551
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 22-51-03 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 005670
MILES 0582.10 0005.40 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L
92/10/14	0845		426017	6.4	719	6		229	10.2	87.4	8.10	6.0
92/11/11	0840		466017	5.2	723	6		228	10.6	87.6	7.90	6.0
92/12/09	0830		506017	3.7	717	7		170	11.3	90.7	7.80	1.0K
93/01/13	0910		36017	0.0	718			200	12.2	88.4	7.60	5.0
93/02/10	0835		76017	5.0	721	9		163	11.0	90.7	8.00	11.0
93/03/09	0940		116017	4.0	727	12		190	11.9	94.9	7.80	9.0
93/04/13	0730		166017	5.6	718	145		94	10.8	90.7	7.50	18.0
93/05/12	0900		206017	13.7	714	135		86	8.7	88.9	8.00	5.0
93/06/15	0845		256017	12.1	716	34		137	9.7	95.4	7.90	4.0
93/07/14	0840		296017	12.9	719	31		141	10.4	103.7	7.70	4.0
93/08/11	0915		336017	12.6	719	23		158	9.6	95.1	7.90	2.0
93/09/15	0910		386017	10.1	719	14		198	10.2	95.5	8.20	6.0

DATE FROM TO	TIME	DEPTH FEET	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/14	0845		0.011	0.010K			0.090	0.028	0.020	24	0.5
92/11/11	0840		0.018	0.010K			0.188	0.041	0.029	44	0.6
92/12/09	0830		0.019	0.010K			0.248	0.044	0.032	65	0.4
93/01/13	0910		0.013	0.010K			0.272	0.030	0.023	38	0.6
93/02/10	0835		0.023	0.010K			0.213	0.023	0.010	29	1.9
93/03/09	0940		0.011	0.010K			0.166	0.029	0.017	41	1.6
93/04/13	0730		0.020	0.010K			0.143	0.022	0.010K	10	4.0
93/05/12	0900		0.010K	0.010K			0.032	0.015	0.010K	19	1.6
93/06/15	0845		0.010K	0.010K			0.104	0.020	0.011	120	1.4
93/07/14	0840		0.014	0.010K			0.082	0.025	0.011	89	1.0
93/08/11	0915		0.010K	0.010K			0.078	0.023	0.014	55	1.1
93/09/15	0910		0.013	0.010K			0.059	0.021	0.014	55S	1.8

52A070 1952A070 12434590 541024
SANPOIL RIVER AT KELLER
48 05 04.0 118 41 25.0 2F 0 Elev= 0 ft
53019 Washington FERRY CO. PACIFIC NORTHWEST
UPPER COLUMBIA (Sanpoil-52) 130552
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 23-52-03 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 006230
MILES 0616.00 0011.70 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L
92/10/14	0935		426018	5.6	729	66			190	12.1	100.3	
92/11/11	0950		466018	2.9	734	85			190	12.8	98.1	
92/12/09	0940		506018	0.0	726				190	13.6	97.5	
93/02/10	0925		76018	0.0	731	123			161	13.6	96.8	
93/03/09	1100		116018	3.3	735	150			150	12.8	99.0	
93/04/13	0830		166018	4.3	728	890			91	11.8	94.6	
93/05/12	0940		206018	12.4	722	890			112	9.6	94.2	
93/06/15	0930		256018	13.7	726	361			162	10.0	100.5	
93/07/14	0930		296018	13.4	729	225			156	9.8	97.5	
93/08/11	1040		336018	15.4	729	185			169	9.7	100.6	
93/09/15	1010		386018	11.5	728	102			189	11.2	106.9	

DATE FROM TO	TIME	DEPTH FEET	400 PH SU	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L
92/10/14	0935		8.20				2.0		0.010K	0.010K		
92/11/11	0950		8.20				2.0		0.010K	0.010K		
92/12/09	0940		8.20				1.0K		0.010U	0.010K		
93/02/10	0925		8.00				3.0		0.012	0.010K		
93/03/09	1100		8.00				3.0		0.010K	0.010K		
93/04/13	0830		8.40				46.0		0.022	0.010K		
93/05/12	0940		7.80				47.0		0.017	0.010K		
93/06/15	0930		8.00				7.0		0.010K	0.010K		
93/07/14	0930		7.80				16.0		0.010K	0.010K		
93/08/11	1040		8.40				3.0		0.010K	0.010K		
93/09/15	1010		8.50				3.0		0.023	0.010K		

DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L
92/10/14	0935			0.010K		0.020	0.016					

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L
92/11/11	0950			0.010K		0.028	0.017					
92/12/09	0940			0.043		0.017	0.011					
93/02/10	0925			0.019		0.019	0.010K					
93/03/09	1100			0.010K		0.035	0.015					
93/04/13	0830			0.081		0.061	0.033					
93/05/12	0940			0.019		0.056	0.024					
93/06/15	0930			0.010K		0.029	0.019					
93/07/14	0930			0.010K		0.051	0.025					
93/08/11	1040			0.010K		0.037	0.027					
93/09/15	1010			0.035		0.026	0.023					

DATE FROM TO	TIME	DEPTH FEET	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1090 ZINC ZN,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/14	0935					14				0.6
92/11/11	0950					22				0.5
92/12/09	0940					4				0.4
93/02/10	0925					3				1.1
93/03/09	1100					1K				0.7
93/04/13	0830					3				13.0
93/05/12	0940					12				8.6
93/06/15	0930					13				1.8
93/07/14	0930					130				4.0
93/08/11	1040					24				1.7
93/09/15	1010					36				1.2

52A190 1952A190 12433790
SANPOIL RIVER ABOVE REPUBLIC
48 39 04.0 118 42 16.0 2F 0 Elev= 0 ft
53019 Washington FERRY CO. PACIFIC NORTHWEST
UPPER COLUMBIA (Sanpoil-52) 130552
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 23-52-03 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1310001 006230
MILES 0616.00 0059.50 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L
92/10/14	1055		426019	3.1	705	1		180	11.8	94.7	7.90	3.0
92/11/11	1105		466019	2.2	711	7		152	12.1	94.0	7.80	3.0
92/12/09	1055		506019	1.4	705	3		216	11.7	89.8	7.70	1.0K
93/01/13	1120		36019	0.3	707	3		157	12.1	89.7	7.50	11.0
93/02/10	1030		76019	1.6	709	2		187	12.2	93.6	7.80	2.0
93/03/09	1215		116019	1.0	713	3		206	12.3	92.3	7.60	4.0
93/04/13	0925		166019	2.1	706	34		132	15.0	117.1	8.80	12.0
93/05/12	1050		206019	8.1	703	116		96	10.1	92.3	7.80	144.0
93/06/15	1050		256019	11.6	706	36		150	9.8	96.7	8.00	7.0
93/07/14	1045		296019	11.9	706	37		168	9.9	98.3	7.60	8.0
93/08/11	1150		336019	12.4	709	25		176	9.4	94.1	8.20	4.0
93/09/15	1120		386019	8.5	721	21		174	11.0	98.9	8.40	5.0

DATE FROM TO	TIME	DEPTH FEET	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1049 LEAD PB,DISS UG/L	1090 ZINC ZN,DISS UG/L	31504 TOT COLI MFIM LES /100ML
92/10/14	1055		0.010K	0.010K	0.010K	0.040	0.033					
92/11/11	1105		0.014	0.010K	0.058	0.043	0.030					
92/12/09	1055		0.024	0.010K	0.143	0.045	0.033					
93/01/13	1120		0.018	0.010K	0.185	0.049	0.038					
93/02/10	1030		0.019	0.010K	0.177	0.040	0.029					
93/03/09	1215		0.254	0.010K	0.240	0.105	0.068					
93/04/13	0925		0.010K	0.010K	0.214	0.073	0.054					
93/05/12	1050		0.015	0.010K	0.070	0.247	0.030					
93/06/15	1050		0.010K	0.010K	0.030	0.035	0.023					
93/07/14	1045		0.010K	0.010K	0.036	0.043	0.027					
93/08/11	1150		0.010K	0.010K	0.033	0.047	0.035					
93/09/15	1120		0.029	0.010K	0.010K	0.044	0.035					

DATE FROM TO	TIME	DEPTH FEET	31616 FEC COLI MFM-FCBR /100ML	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	31616 FEC COLI MFM-FCBR /100ML	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/14	1055		2		0.4
92/11/11	1105		7		0.7
92/12/09	1055		4		0.5
93/01/13	1120		1K		0.6
93/02/10	1030		2		0.7
93/03/09	1215		63		1.4
93/04/13	0925		14		4.4
93/05/12	1050		91		28.0J
93/06/15	1050		110		1.1
93/07/14	1045		41		1.4
93/08/11	1150		45		1.4
93/09/15	1120		13		1.4

53A070 4753A070 12436500
COLUMBIA R AT GRAND COULEE DAM
47 57 56.0 118 58 54.0 2F 0 Elev= 0 ft
53047 Washington Okanogan Co. PACIFIC NORTHWEST
UPPER COLUMBIA (Lower Lake Roosevelt-53) 130553
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 26-00-04 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001
MILES 0596.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L	400 PH SU
92/10/14	0755		426016	16.6	737	53800		120	8.4	88.3		8.10
92/11/11	0740		466016	13.6	742	131000		118	9.0	88.2		8.10
92/12/09	0740		506016	9.6	758	188000		80	10.2	89.4		6.80
93/01/13	0745		36016	2.5	740	138000		121	11.7	88.0		8.10
93/02/10	0745		76016	1.2	741	118000		118	12.7	92.1		8.30
93/03/09	0840		116016	1.0	745	128000		139	13.0	93.2		8.30
93/04/13	0630		166016	2.4	737	145000		124	13.6	102.5		7.80
93/05/12	0730		206016	8.0	732	63900		109	12.2	106.8		8.10
93/06/15	0800		256016	11.6	732	99500		113	10.8	102.8		8.00
93/07/14	0745		296016	15.2	737	99500		118	10.0	102.2		8.10
93/08/11	0845		336016	16.5	738	82700		110	9.0	94.3		7.80
93/09/15	0810		386016	18.3	737	103900		122	9.3	101.3		8.10

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L
92/10/14	0755					2.0	0.010K	0.010K				0.077
92/11/11	0740					1.0K	0.014	0.010K				0.077
92/12/09	0740					1.0K	0.010U	0.010K				0.096
93/01/13	0745					2.0	0.017	0.010K				0.111
93/02/10	0745					1.0	0.014	0.010K				0.147
93/03/09	0840					1.0	0.023	0.010K				0.144
93/04/13	0630					1.0	0.024	0.010K				0.149
93/05/12	0730					2.0	0.022	0.010K				0.130
93/06/15	0800					1.0U	0.018	0.010K				0.042
93/07/14	0745					1.0	0.024	0.010K				0.050
93/08/11	0845					1.0K	0.010K	0.010K				0.071
93/09/15	0810					1.0K	0.022	0.010K				0.135

DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L
92/10/14	0755		0.010K	0.010K								
92/11/11	0740		0.019	0.010K								
92/12/09	0740		0.010K	0.010K								
93/01/13	0745		0.011	0.010K								
93/02/10	0745		0.010K	0.010K								
93/03/09	0840		0.015	0.010K								
93/04/13	0630		0.010K	0.010K								
93/05/12	0730		0.011	0.010K								
93/06/15	0800		0.010K	0.010K								
93/07/14	0745		0.010K	0.010K								
93/08/11	0845		0.010	0.010K								
93/09/15	0810		0.014	0.010K								

DATE FROM TO	TIME	DEPTH FEET	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1090 ZINC ZN,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML
92/10/14	0755											1K
92/11/11	0740											1
92/12/09	0740											1K
93/01/13	0745											3
93/02/10	0745											1K
93/03/09	0840											1K
93/04/13	0630											1K
93/05/12	0730											1K
93/06/15	0800											1K
93/07/14	0745											1K
93/08/11	0845											1K
93/09/15	0810											1

DATE FROM TO	TIME	DEPTH FEET	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/14	0755				0.5
92/11/11	0740				0.3
92/12/09	0740				0.4
93/01/13	0745				0.4
93/02/10	0745				0.5
93/03/09	0840				0.3
93/04/13	0630				0.6
93/05/12	0730				0.7
93/06/15	0800				0.4
93/07/14	0745				0.9

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
93/08/11	0845				0.5
93/09/15	0810				0.7

54A050 6554A050
SPOKANE RIVER AT MOUTH
47 54 30.0 118 19 00.0 2F000 Elev= 0 ft
53065 Washington Stevens Co. PACIFIC NORTHWEST
SPOKANE (Lower Spokane-54) 130354
21540000 Reach=17010307000 0.000 Drg= 0 sqmi
AMBNT/STREAM/RMP

INDEX 1310001 006500
MILES 0638.90 0001.70 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L
92/10/07	1320		416169	16.8	733	138	8.5	90.2	8.20	2.0	0.010K	0.010K
92/11/04	1330		456169	13.2	733	160	8.5	83.6	7.80	2.0	0.013	0.010K
92/12/03	1425		496169	8.8	738	185	9.2	81.4	8.00	3.0	0.026	0.010K
93/01/06	1520		26169	0.9J	737	116	11.7	84.6	7.70J	2.0	0.025	0.010K
93/02/03	1315		66169	1.1	736	137	12.5	91.0	8.10	2.0	0.010K	0.010K
93/03/03	1310		106169	1.3	733	132	13.1	96.4	7.80	4.0	0.010K	0.010K
93/04/07	1320		156169	5.6	730	98	13.0	107.5	8.20	6.0	0.031	0.010K
93/05/05	1520		196169	8.3	728	84	14.1	125.0	8.40	5.0	0.014	0.010K
93/06/09	1525		246169	16.9	729	65	11.1	118.8	8.60	4.0	0.010K	0.010K
93/07/07	1355		286169	19.6	725	88	8.9	101.1	8.20	1.0	0.011	0.010K
93/08/04	1325		326169	21.0	726	124	9.1	106.0	8.30	2.0	0.010K	0.012
93/09/08	1415		376169	21.2	726	129	9.2	107.6	8.60	1.0K	0.010K	0.010K

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	1094 ZINC TOT REC UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L	31616 FEC COLI MFM-FCBR /100ML
92/10/07	1320		0.182	0.010	0.010K							1K
92/11/04	1330		0.274	0.010	0.010K							1K
92/12/03	1425		0.519	0.014	0.010K							1K
93/01/06	1520		0.597	0.018	0.016							1K
93/02/03	1315		0.247	0.013	0.010K							1K
93/03/03	1310		0.158	0.017	0.010K							1K
93/04/07	1320		1.040	0.052	0.025							1K
93/05/05	1520		0.128	0.010K	0.010K							1
93/06/09	1525		0.038	0.010K	0.010K							1K
93/07/07	1355		0.146	0.010K	0.010K							1K
93/08/04	1325		0.376	0.010K	0.010K							1K
93/09/08	1415		0.288	0.010K	0.010K							1K

DATE FROM TO	TIME	DEPTH FEET	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/10/07	1320			0.7
92/11/04	1330			0.5
92/12/03	1425			0.5
93/01/06	1520			0.6
93/02/03	1315			0.7
93/03/03	1310			0.9
93/04/07	1320			11.0
93/05/05	1520			2.0
93/06/09	1525			1.4
93/07/07	1355			0.5
93/08/04	1325			1.1
93/09/08	1415			0.8

54A120 6554A120 12424200 543108
SPOKANE R AT RIVERSIDE STATE PK
47 41 48.0 117 29 48.0 2F 0 Elev= 0 ft
53063 Washington Spokane Co. PACIFIC NORTHWEST
SPOKANE (Lower Spokane-54) 130354
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 24-54-01 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 006500
MILES 0643.00 0066.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L	340 COD HI LEVEL MG/L
92/10/06	1515		416163	13.6	725	1600		140	10.8	108.4		
92/11/03	1550		456163	10.4	733	2530		118	11.7	108.2		
92/12/02	1525		496163	6.4	720	2870		123	12.3	105.2		
93/01/05	1345		26163	3.3	726	2310		133	12.8	100.3		
93/02/02	1515		66163	3.6	728	2810		121	12.8	100.8		
93/03/02	1530		106163	3.4	725	2320		127	13.1	103.0		
93/04/06	1520		156163	4.0	718	17500		64	14.5	117.0		
93/05/04	1655		196163	8.4	720	19300		69	13.1	117.7		
93/06/08	1605		246163	15.3	721	6000		99	11.0	115.1		
93/07/06	1600		286163	16.9	717	3860		97	9.4	102.3		
93/08/03	1555		326163	18.7	716	2340		139	9.6	108.4		
93/09/07	1535		376163	16.5	719	1400		184	9.9	106.6		

DATE FROM TO	TIME	DEPTH FEET	400 PH SU	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	500 RESIDUE TOTAL MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L
92/10/06	1515		8.40						2.0		0.159	0.027
92/11/03	1550		8.20						4.0		0.090	0.010K
92/12/02	1525		8.00						4.0		0.119	0.012
93/01/05	1345		8.10						1.0		0.247	0.010K
93/02/02	1515		8.00						4.0		0.239	0.010K
93/03/02	1530		8.30						2.0		0.036	0.010
93/04/06	1520		8.40						8.0		0.018	0.010K
93/05/04	1655		8.00						92.0		0.049	0.010K
93/06/08	1605		8.00						4.0		0.061	0.011
93/07/06	1600		8.10						4.0		0.018	0.011
93/08/03	1555		8.60						1.0		0.010K	0.010K
93/09/07	1535		8.50						1.0K		0.013	0.010K

DATE FROM TO	TIME	DEPTH FEET	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L
92/10/06	1515					0.602		0.014	0.010K			
92/11/03	1550					0.582		0.040	0.010K			
92/12/02	1525					0.407		0.065	0.046			
93/01/05	1345					0.447		0.071	0.072			
93/02/02	1515					0.916		0.081	0.068			
93/03/02	1530					0.797		0.084	0.070			
93/04/06	1520					0.196		0.022	0.011			
93/05/04	1655					0.321		0.048	0.010K			
93/06/08	1605					0.401		0.010K	0.010K			
93/07/06	1600					0.490		0.011	0.010K			
93/08/03	1555					0.865		0.010	0.010K			
93/09/07	1535					1.160		0.023	0.010K			

DATE FROM TO	TIME	DEPTH FEET	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	1000 ARSENIC AS,DISS UG/L	1002 ARSENIC AS,TOT UG/L	1005 BARIUM BA,DISS UG/L	1025 CADMIUM CD,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1027 CADMIUM CD,TOT UG/L	1030 CHROMIUM CR,DISS UG/L	1034 CHROMIUM CR,TOT UG/L	1040 COPPER CU,DISS UG/L	1042 COPPER CU,TOT UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1051 LEAD PB,TOT UG/L	1065 NICKEL NI,DISS UG/L	1075 SILVER AG,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1092 ZINC ZN,TOT UG/L	1094 ZINC TOT REC UG/L	1105 ALUMINUM AL,TOT UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L	1130 LITHIUM LI,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1145 SELENIUM SE,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/10/06	1515				1					0.6
92/11/03	1550				6					1.0
92/12/02	1525				83X					0.6
93/01/05	1345				8					0.6
93/02/02	1515				17					4.0
93/03/02	1530				1					0.7
93/04/06	1520				3					4.3
93/05/04	1655				88					19.0

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	1145 SELENIUM SE,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
93/06/08	1605				9					1.2
93/07/06	1600				40					1.2
93/08/03	1555				10					0.5
93/09/07	1535				31					0.8

56A070 6356A070 12424003 543150
HANGMAN CR AT MOUTH AT SPOKANE
47 39 17.0 117 27 12.0 2F 0 Elev= 0 ft
53063 Washington Spokane Co. PACIFIC NORTHWEST
SPOKANE (Hangman-56) 130356
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 24-56-03 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM/RMP

INDEX 1310001 006500 00540
MILES 0643.00 0072.40 000.60 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L	400 PH SU
92/10/06	1435		416162	11.5	723	1		398	14.3	137.6		8.60
92/11/03	1525		456162	7.5	731	5		336	13.8	119.5		8.50
92/12/02	1450		496162	0.4	718	11A		294	14.1	103.3		8.20
93/02/02	1425		66162	0.4	726	268		152	13.3	96.4		7.70
93/03/02	1455		106162	0.6	724	60		222	13.3	97.2		8.00
93/04/06	1450		156162	7.9	716	564		124	10.7	95.4		7.50
93/05/04	1610		196162	9.8	719	2610		125	10.3	95.7		7.80
93/06/08	1525		246162	18.2	720	39		268	10.5	116.8		8.40
93/07/06	1520		286162	18.5	715	18		310	10.5	118.4		8.70
93/08/03	1510		326162	23.7	716	19		273	12.5	155.5		9.00
93/09/07	1505		376162	19.6	718	10		328	13.7	157.3		8.90

DATE FROM TO	TIME	DEPTH FEET	410 T ALK CACO3 MG/L	530 RESIDUE TOT-NFLT MG/L	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L
92/10/06	1435			3.0		0.017	0.017				1.030	
92/11/03	1525			4.0		0.015	0.010K				0.535	
92/12/02	1450			5.0		0.016	0.010K				0.724	
93/02/02	1425			23.0		0.074	0.021				5.610	
93/03/02	1455			6.0		0.030	0.010K				3.830	
93/04/06	1450			36.0		0.022	0.010K				2.700	
93/05/04	1610			877.0		0.050	0.011				1.740	
93/06/08	1525			6.0		0.012	0.034				0.436	
93/07/06	1520			5.0		0.022	0.010K				0.501	
93/08/03	1510			9.0		0.010K	0.010K				0.382	
93/09/07	1505			3.0		0.010K	0.010K				0.829	

DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L
92/10/06	1435		0.018	0.010K								

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DATE FROM TO	TIME	DEPTH FEET	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L
92/11/03	1525		0.016	0.010K								
92/12/02	1450		0.050	0.025								
93/02/02	1425		0.173	0.112								
93/03/02	1455		0.101	0.057								
93/04/06	1450		0.101	0.066								
93/05/04	1610		0.297	0.039								
93/06/08	1525		0.025	0.010K								
93/07/06	1520		0.033	0.013								
93/08/03	1510		0.060	0.033								
93/09/07	1505		0.036	0.016								

DATE FROM TO	TIME	DEPTH FEET	945 SULFATE SO4-TOT MG/L	1000 ARSENIC AS,DISS UG/L	1005 BARIUM BA,DISS UG/L	1025 CADMIUM CD,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1075 SILVER AG,DISS UG/L	1090 ZINC ZN,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1105 ALUMINUM AL,TOT UG/L	1145 SELENIUM SE,DISS UG/L	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/06	1435					34			1.3
92/11/03	1525					3			0.9
92/12/02	1450					8			3.9
93/02/02	1425					23			29.0
93/03/02	1455					4			8.0
93/04/06	1450					23			39.0
93/05/04	1610					960			160.0
93/06/08	1525					37			2.4
93/07/06	1520					100			2.2
93/08/03	1510					80			5.5
93/09/07	1505					36			2.0

57A150 6357A150 12419495 541026
SPOKANE RIVER AT STATELINE BR
47 41 55.0 117 02 37.0 2F 0 Elev= 0 ft
53063 Washington Spokane Co. PACIFIC NORTHWEST
SPOKANE (Middle Spokane-57) 130357
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 24-57-04 Class= A Miles= 0.00 to 0.00
AMBNT/STREAM

INDEX 1310001 006500
MILES 0643.00 0096.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L
92/10/07	0700		416165	13.9	720	1440			48	8.7	88.5	
92/11/04	0643		456165	10.1	718	2030			55	9.6	89.9	
92/12/03	0730		496165	5.5	718	3260			57	10.6	88.9	
93/01/06	0750		26165	1.1	719	2070			50	12.1	90.2	
93/02/03	0700		66165	1.4	719	2280			54	12.3	92.4	
93/03/03	0620		106165	0.8	715	1820			54	12.5	92.9	
93/04/07	0645		156165	3.2	713	18000			52	13.4	106.6	
93/05/05	0730		196165	7.6	715	18600			47	13.0	115.3	
93/06/09	0805		246165	15.0	713	5700			41	9.8	103.0	
93/07/07	0700		286165	16.6	710	4050			44	8.4	91.7	
93/08/04	0710		326165	19.7	712	1230			47	7.7	89.2	
93/09/08	0710		376165	19.2	715	1160			50	7.8	89.2	

DATE FROM TO	TIME	DEPTH FEET	400 PH SU	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L
92/10/07	0700		7.90			3.0	0.015	0.010K				0.034
92/11/04	0643		7.50			2.0	0.010K	0.010K				0.018
92/12/03	0730		7.80			2.0	0.031	0.010K				0.027
93/01/06	0750		8.20			1.0	0.046	0.010K				0.045
93/02/03	0700		7.50			1.0	0.031	0.010K				0.036
93/03/03	0620		7.50			1.0	0.032	0.010K				0.033
93/04/07	0645		7.20			3.0	0.010K	0.010K				0.023
93/05/05	0730		6.90			4.0	0.019	0.010K				0.051
93/06/09	0805		7.60			3.0	0.010K	0.010K				0.010K
93/07/07	0700		7.50			3.0	0.018	0.010K				0.012
93/08/04	0710		7.60			1.0	0.010K	0.010K				0.044
93/09/08	0710		7.70			1.0K	0.024	0.010K				0.056

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	760 SWL PBI MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	680 T ORG C C MG/L	760 SWL PBI MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L
92/10/07	0700			0.010K	0.010K							
92/11/04	0643			0.010K	0.010K							
92/12/03	0730			0.016	0.010K							
93/01/06	0750			0.010K	0.013							
93/02/03	0700			0.012	0.010K							
93/03/03	0620			0.017	0.010K							
93/04/07	0645			0.010K	0.010K							
93/05/05	0730			0.010K	0.010K							
93/06/09	0805			0.010K	0.010K							
93/07/07	0700			0.010K	0.010K							
93/08/04	0710			0.010K	0.010K							
93/09/08	0710			0.010K	0.010K							

DATE FROM TO	TIME	DEPTH FEET	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1020 BORON B,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1042 COPPER CU,TOT UG/L	1045 IRON FE,TOT UG/L

DATE FROM TO	TIME	DEPTH FEET	1049 LEAD PB,DISS UG/L	1080 STRONTUM SR,DISS UG/L	1090 ZINC ZN,DISS UG/L	1092 ZINC ZN,TOT UG/L	1094 ZINC TOT REC UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L	1118 CHROMIUM TOT REC UG/L	1119 COPPER TOT REC UG/L	1130 LITHIUM LI,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	31501 TOT COLI MFIMENDO /100ML	31504 TOT COLI MFIM LES /100ML	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/10/07	0700					2				0.9
92/11/04	0643					1				1.4
92/12/03	0730					1				0.5
93/01/06	0750					2				0.5
93/02/03	0700					5				0.6
93/03/03	0620					1				0.5
93/04/07	0645					1K				1.3
93/05/05	0730					7				2.3
93/06/09	0805					5				1.0
93/07/07	0700					16				1.4
93/08/04	0710					23				0.8
93/09/08	0710					8				1.0

61A070 6561A070 12399500 541029
COLUMBIA R AT NORTHPORT
48 55 21.0 117 46 32.0 2F 0 Elev= 0 ft
53065 Washington Stevens Co. PACIFIC NORTHWEST
UPPER COLUMBIA (Upper Lake Roosevelt-61) 130561
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 26-00-04 Class= AA Miles= 0.00 to 0.00
AMBNT/STREAM/NASQAN

INDEX 1310001
MILES 0735.10 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	33 WEATHER CODE	35 WIND VELOCITY MPH	36 WIND DIR.FROM NORTH-0	60 STREAM FLOW CFS	69 SEA CODE	70 TURB JKSN JTU	80 COLOR PT-CO UNITS
92/10/07	1050		416167	13.6	736				78900			
92/11/04	1100		456167	10.3	732				65900			
92/12/03	1145		496167	6.0	738				77000			
93/01/06	1250		26167	1.1J	737				122000			
93/02/03	1035		66167	2.3	737				67100			
93/03/03	1040		106167	1.6	732				58000			
93/04/07	1055		156167	5.0	729				50400			
93/05/05	1210		196167	6.9	729				63800			
93/06/09	1235		246167	13.4	728				95000			
93/07/07	1120		286167	15.7	724				113000			
93/08/04	1100		326167	17.8	727				61100			
93/09/08	1150		376167	17.4	728				67100			

DATE FROM TO	TIME	DEPTH FEET	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L	400 PH SU	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L
92/10/07	1050		134	10.2	100.8		8.30					1.0
92/11/04	1100		130	10.9	100.6		8.00					3.0
92/12/03	1145		148	11.4	94.2		8.00					3.0
93/01/06	1250		113	12.3	89.4		7.80					2.0
93/02/03	1035		131	12.7	95.4		7.90					2.0
93/03/03	1040		139	13.0	96.5		8.20					2.0
93/04/07	1055		138	12.1	98.7		8.10					1.0
93/05/05	1210		113	12.1	103.5		7.70					2.0
93/06/09	1235		123	11.5	114.4		7.80					4.0
93/07/07	1120		119	10.6	111.3		7.60					3.0
93/08/04	1100		110	10.2	111.4		8.30					3.0
93/09/08	1150		121	10.0	108.3		8.40					1.0K

DATE FROM TO	TIME	DEPTH FEET	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P

MORE DATES NEXT PAGE

61A070 6561A070 12399500 541029
COLUMBIA R AT NORTHPORT
48 55 21.0 117 46 32.0 2F 0 Elev= 0 ft
53065 Washington Stevens Co. PACIFIC NORTHWEST
UPPER COLUMBIA (Upper Lake Roosevelt-61) 130561
21540000 Reach= 0.000 Drg= 0 sqmi
Seg ID= 26-00-04 Class= AA Miles= 0.00 to 0.00
AMBNT/STREAM/NASQAN

INDEX 1310001
MILES 0735.10 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	33 WEATHER CODE	35 WIND VELOCITY MPH	36 WIND DIR.FROM NORTH-0	60 STREAM FLOW CFS	69 SEA CODE	70 TURB JKSN JTU	80 COLOR PT-CO UNITS
92/10/07	1050		416167	13.6	736				78900			
92/11/04	1100		456167	10.3	732				65900			
92/12/03	1145		496167	6.0	738				77000			
93/01/06	1250		26167	1.1J	737				122000			
93/02/03	1035		66167	2.3	737				67100			
93/03/03	1040		106167	1.6	732				58000			
93/04/07	1055		156167	5.0	729				50400			
93/05/05	1210		196167	6.9	729				63800			
93/06/09	1235		246167	13.4	728				95000			
93/07/07	1120		286167	15.7	724				113000			
93/08/04	1100		326167	17.8	727				61100			
93/09/08	1150		376167	17.4	728				67100			

DATE FROM TO	TIME	DEPTH FEET	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	310 BOD 5 DAY MG/L	400 PH SU	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L
92/10/07	1050		134	10.2	100.8		8.30					1.0
92/11/04	1100		130	10.9	100.6		8.00					3.0
92/12/03	1145		148	11.4	94.2		8.00					3.0
93/01/06	1250		113	12.3	89.4		7.80					2.0
93/02/03	1035		131	12.7	95.4		7.90					2.0
93/03/03	1040		139	13.0	96.5		8.20					2.0
93/04/07	1055		138	12.1	98.7		8.10					1.0
93/05/05	1210		113	12.1	103.5		7.70					2.0
93/06/09	1235		123	11.5	114.4		7.80					4.0
93/07/07	1120		119	10.6	111.3		7.60					3.0
93/08/04	1100		110	10.2	111.4		8.30					3.0
93/09/08	1150		121	10.0	108.3		8.40					1.0K

DATE FROM TO	TIME	DEPTH FEET	605 ORG N N MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	605 ORG N N MG/L	610 NH3+NH4-N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P
92/10/07	1050			0.085	0.010K				0.054		0.032	0.010K
92/11/04	1100			0.012	0.010K				0.053		0.014	0.010K
92/12/03	1145			0.020	0.010K				0.086		0.011	0.010K
93/01/06	1250			0.011	0.010K				0.122		0.030	0.031
93/02/03	1035			0.014	0.010K				0.135		0.012	0.010K
93/03/03	1040			0.023	0.010K				0.104		0.024	0.020
93/04/07	1055			0.013	0.010K				0.088		0.010K	0.010K
93/05/05	1210			0.015	0.010K				0.074		0.010K	0.010K
93/06/09	1235			0.026	0.010K				0.031		0.010K	0.010K
93/07/07	1120			0.010K	0.010K				0.033		0.028	0.014
93/08/04	1100			0.010K	0.010K				0.039		0.010K	0.010K
93/09/08	1150			0.010K	0.010K				0.034		0.013	0.010K

DATE FROM TO	TIME	DEPTH FEET	680 T ORG C C MG/L	760 SWL PBI MG/L	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L
92/10/07	1050				69							
92/11/04	1100				72							
92/12/03	1145				72							
93/01/06	1250				71							
93/02/03	1035				73							
93/03/03	1040				78							
93/04/07	1055				74							
93/05/05	1210				69							
93/06/09	1235				64							
93/07/07	1120				65							
93/08/04	1100				58							
93/09/08	1150				65							

DATE FROM TO	TIME	DEPTH FEET	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1005 BARIUM BA,DISS UG/L	1020 BORON B,DISS UG/L	1025 CADMIUM CD,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L	1042 COPPER CU,TOT UG/L	1045 IRON FE,TOT UG/L

DATE FROM TO	TIME	DEPTH FEET	1049 LEAD PB,DISS UG/L	1065 NICKEL NI,DISS UG/L	1074 NICKEL TOT REC UG/L	1075 SILVER AG,DISS UG/L	1090 ZINC ZN,DISS UG/L	1092 ZINC ZN,TOT UG/L	1094 ZINC TOT REC UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L	1118 CHROMIUM TOT REC UG/L
92/10/07	1050								9.0V	0.28V	1.0K	0.7P
92/11/04	1100								10.0P	0.13V	1.9P	0.5P
92/12/03	1145								11.0P	0.10K	1.1P	0.3P

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	1049 LEAD PB,DISS UG/L	1065 NICKEL NI,DISS UG/L	1074 NICKEL TOT REC UG/L	1075 SILVER AG,DISS UG/L	1090 ZINC ZN,DISS UG/L	1092 ZINC ZN,TOT UG/L	1094 ZINC TOT REC UG/L	1113 CADMIUM TOT REC UG/L	1114 LEAD TOT REC UG/L	1118 CHROMIUM TOT REC UG/L
93/01/06	1250								35.0V	0.10K	9.4	0.5P
93/02/03	1035								27.0J	0.10K		
93/03/03	1040								14.0V	0.41P	5.4	0.6V
93/04/07	1055								7.8P	0.10K	1.0K	0.2K
93/05/05	1210								9.2P	0.20P	3.4P	0.2K
93/06/09	1235								7.2P	0.15P	2.5P	0.3P
93/07/07	1120				10.0K				5.4P	0.10K	1.8P	0.3K
93/08/04	1100				10.0U				9.5P	0.12P	2.0P	0.2K
93/09/08	1150								9.1J	0.12P	2.3P	0.2K

DATE FROM TO	TIME	DEPTH FEET	1119 COPPER TOT REC UG/L	1145 SELENIUM SE,DISS UG/L	31501 TOT COLI MFIMENDO /100ML	31504 TOT COLI MFIM LES /100ML	31616 FEC COLI MFM-FCBR /100ML	31625 FEC COLI M-FCAGAD /100 ML	31672 FECSTREP PC M-ENT /100ML	32211 CHLRPHYL A UG/L CORRECTD	32218 PHEOPHTN A UG/L	70300 RESIDUE DISS-180 C MG/L
92/10/07	1050		3.0P				23					
92/11/04	1100		4.9P				6					
92/12/03	1145		8.7P				5					
93/01/06	1250		3.8P				139X					
93/02/03	1035		3.0K				1K					
93/03/03	1040		3.8P				1					
93/04/07	1055		5.4P				1					
93/05/05	1210		3.2P				2					
93/06/09	1235		3.0K				2					
93/07/07	1120		3.0K				4					
93/08/04	1100		5.1P				23					
93/09/08	1150		3.0U				13					

DATE FROM TO	TIME	DEPTH FEET	71900 MERCURY HG,TOTAL UG/L	71901 MERCURY TOT REC UG/L	82079 TURBIDTY LAB NTU
92/10/07	1050		0.10U		0.5
92/11/04	1100		0.08V		0.6
92/12/03	1145		0.06P		0.4
93/01/06	1250		0.05K		0.6
93/02/03	1035		0.05K		0.4
93/03/03	1040		0.05U		0.6
93/04/07	1055		0.05K		0.7
93/05/05	1210		0.05K		0.7
93/06/09	1235		0.05K		1.2
93/07/07	1120		0.05K		1.3
93/08/04	1100		0.05K		0.9
93/09/08	1150		0.05K		0.7

61B070 6561B070
DEEP CREEK NEAR MOUTH
48 55 30.7 117 44 50.0 2F000 Elev= 0 ft
53065 Washington Stevens Co. PACIFIC NORTHWEST UPP
UPPER COLUMBIA (Upper Lake Roosevelt-61) 130561
21540000 Reach=17020001072 0.000 Drg= 0 sqmi
AMBNT/STREAM

INDEX 1310001 007420
MILES 0737.00 0001.00 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L
92/10/07	1115		416168	5.2	735	6	343	12.3	100.1	8.60	1.0	0.010K
92/11/04	1130		456168	4.1	733	12	270	12.4	98.4	8.60	2.0	0.010K
92/12/03	1220		496168	0.2	738	69	341	14.2	100.8	8.60	3.0	0.017
93/02/03	1115		66168	1.3	736	16	332	13.5	98.9	8.60	4.0	0.010K
93/03/03	1110		106168	0.0	731	2	328	13.8	98.2	8.70	3.0	0.010K
93/04/07	1125		156168	5.5	728	101	235	11.7	96.8	8.30	28.0	0.010K
93/05/05	1245		196168	9.1	727	228	241	11.1	100.4	8.40	55.0	0.021
93/06/09	1305		246168	12.9	728	71	289	10.0	98.6	8.40	10.0	0.012
93/07/07	1155		286168	14.2	723	65	278	9.5	96.8	8.50	6.0	0.010K
93/08/04	1120		326168	15.8	726	70	283	9.3	97.7	8.60	9.0	0.010K
93/09/08	1210		376168	14.3	726	29	310	9.6	97.7	8.60	1.0	0.010K

DATE FROM TO	TIME	DEPTH FEET	613 NO2-N DISS MG/L	630 NO2+NO3 N-TOTAL MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	31616 FEC COLI MFM-FCBR /100ML	82079 TURBIDTY LAB NTU
92/10/07	1115		0.010K	0.010K	0.010K	0.010K	9	0.6
92/11/04	1130		0.010K	0.010K	0.010K	0.010K	5	0.4
92/12/03	1220		0.010K	0.060	0.013	0.010K	5	0.3
93/02/03	1115		0.010K	0.096	0.014	0.010K	4	0.8
93/03/03	1110		0.010K	0.069	0.012	0.010K	1K	0.3
93/04/07	1125		0.010K	0.087	0.037	0.010K	5	8.1
93/05/05	1245		0.010K	0.033	0.025	0.010K	4	7.3
93/06/09	1305		0.010K	0.014	0.010K	0.010K	46	1.6
93/07/07	1155		0.010K	0.010K	0.017	0.010K	40	1.9
93/08/04	1120		0.010K	0.016	0.010	0.010K	39	1.9
93/09/08	1210		0.010K	0.010K	0.010K	0.010K	21	1.0

62A150 5162A150 12395500 541031
PEND OREILLE RIVER AT NEWPORT
48 11 07.0 117 02 02.0 2F 0 Elev= 0 ft
53051 Washington Pend Oreille Co. PACIFIC NORTHWEST
CLARK FORK, PEND OREILLE (Pend Oreille-6 130262
21540000 Reach= 0.000 Drg= 0 sqmi
AMBNT/STREAM/RMP

INDEX 1310001 007520
MILES 0745.50 0088.20 . . . . . .

DATE FROM TO	TIME	DEPTH FEET	8 LAB IDENT. NUMBER	10 WATER TEMP CENT	25 BAROMTRC PRESSURE MM OF HG	60 STREAM FLOW CFS	70 TURB JKSN JTU	80 COLOR PT-CO UNITS	95 CNDUCTVY LAB @ 25C UMHO	300 DO MG/L	301 DO SATUR PERCENT	400 PH SU
92/10/07	0800		416166	13.7	720	25000			155	9.1	92.2	8.40
92/11/04	0800		456166	9.9	716	26200			120	9.8	91.7	8.20
92/12/03	0840		496166	4.1	718	16400			162	11.4	92.2	8.10
93/03/03	0740		106166	0.0	715	17400			157	12.9	93.9	8.40
93/04/07	0755		156166	5.6	712	17500			127	11.9	100.9	8.10
93/05/05	0900		196166	8.9	714	20800			134	11.7	107.3	8.00
93/06/09	0930		246166	15.4	712	28500			123	9.6	102.0	7.60
93/07/07	0820		286166	16.0	709	36500			139	10.0	108.0	8.40
93/08/04	0820		326166	18.8	711	24000			142	9.1	103.8	8.50
93/09/08	0830		376166	18.8	713	22400			149	9.0	102.4	8.50

DATE FROM TO	TIME	DEPTH FEET	405 CO2 MG/L	410 T ALK CACO3 MG/L	440 HCO3 ION HCO3 MG/L	445 CO3 ION CO3 MG/L	530 RESIDUE TOT-NFLT MG/L	610 NH3+NH4- N TOTAL MG/L	613 NO2-N DISS MG/L	615 NO2-N TOTAL MG/L	620 NO3-N TOTAL MG/L	625 TOT KJEL N MG/L
92/10/07	0800						3.0	0.010K	0.010K			
92/11/04	0800						2.0	0.010K	0.010K			
92/12/03	0840						3.0	0.023	0.010K			
93/03/03	0740						3.0	0.027	0.010K			
93/04/07	0755						3.0	0.010K	0.010K			
93/05/05	0900						5.0	0.015	0.010K			
93/06/09	0930						3.0	0.011	0.010K			
93/07/07	0820						4.0	0.010K	0.010K			
93/08/04	0820						2.0	0.010K	0.010K			
93/09/08	0830						1.0K	0.010K	0.010K			

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L
92/10/07	0800		0.010K		0.073	0.010K						
92/11/04	0800		0.010K		0.010K	0.010K						
92/12/03	0840		0.010K		0.010	0.010K						
93/03/03	0740		0.018		0.010K	0.010K						

MORE DATES NEXT PAGE

DATE FROM TO	TIME	DEPTH FEET	630 NO2+NO3 N-TOTAL MG/L	660 ORTHOPO4 PO4 MG/L	665 PHOS-TOT MG/L P	671 PHOS-DIS ORTHO MG/L P	900 TOT HARD CACO3 MG/L	902 NC HARD CACO3 MG/L	915 CALCIUM CA,DISS MG/L	925 MGNSIUM MG,DISS MG/L	930 SODIUM NA,DISS MG/L	935 PTSSIUM K,DISS MG/L
93/04/07	0755		0.021		0.010K	0.010K						
93/05/05	0900		0.010K		0.010K	0.010K						
93/06/09	0930		0.010K		0.010K	0.010K						
93/07/07	0820		0.010K		0.010K	0.010K						
93/08/04	0820		0.010K		0.010K	0.010K						
93/09/08	0830		0.010K		0.010K	0.010K						

DATE FROM TO	TIME	DEPTH FEET	940 CHLORIDE CL MG/L	945 SULFATE SO4-TOT MG/L	950 FLUORIDE F,DISS MG/L	955 SILICA DISOLVED MG/L	1000 ARSENIC AS,DISS UG/L	1005 BARIUM BA,DISS UG/L	1020 BORON B,DISS UG/L	1025 CADMIUM CD,DISS UG/L	1030 CHROMIUM CR,DISS UG/L	1040 COPPER CU,DISS UG/L

DATE FROM TO	TIME	DEPTH FEET	1045 IRON FE,TOT UG/L	1049 LEAD PB,DISS UG/L	1075 SILVER AG,DISS UG/L	1090 ZINC ZN,DISS UG/L	1145 SELENIUM SE,DISS UG/L	31505 TOT COLI MPN CONF /100ML	31616 FEC COLI MFM-FCBR /100ML	70300 RESIDUE DISS-180 C MG/L	71900 MERCURY HG,TOTAL UG/L	82079 TURBIDTY LAB NTU
92/10/07	0800								1K			0.7
92/11/04	0800								1K			0.7
92/12/03	0840								1			0.4
93/03/03	0740								1K			0.7
93/04/07	0755								1K			1.4
93/05/05	0900								1			1.6
93/06/09	0930								1			1.3
93/07/07	0820								9			1.6
93/08/04	0820								2			1.1
93/09/08	0830								1K			1.1

APPENDIX C

Wateryear 1993 Six-Year Summary Statistics for Ecology's River and Stream Ambient Monitoring Program

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 01A050 Name: NOOKSACK R @ BRENNAN

Class: A Elevation: 10 River Mile: 3.40

Location:
LOCATED ONE MILE WEST OF BRENNAN AT BRIDGE OVER NOOKSACK ON STATE HIGHWAY 540 (RURAL ROAD EXIT FROM I-5)

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
												X		X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	6.994	2.416	18	5.419	2.083	16	10.417	2.359	18	14.917	1.510	18	17.900	1.000
ZN	P1094	ug/L	14.923	16.874	13	13.100	13.254	10	7.727	4.692	11	10.111	15.496	9	67.000	1.000K
CD	P1113	ug/L	0.178	0.073	13	0.206	0.078	10	0.157	0.064	12	0.128	0.048	11	0.360	0.100K
PB	P1114	ug/L	2.369	1.460	13	1.720	1.648	10	1.630	1.308	10	1.709	1.634	11	6.300	1.000K
CR	P1118	ug/L	3.700	2.637	10	3.331	3.873	9	3.719	1.964	11	1.297	0.904	10	10.600	0.370
CU	P1119	ug/L	7.962	10.660	13	8.610	9.071	10	4.817	2.894	12	6.789	8.298	9	42.400	1.000U
PRESS	P25	mmHg	762.878	7.973	18	766.288	6.472	16	764.061	5.272	18	764.194	4.295	17	775.700	744.000
OXYGEN	P300	mg/L	11.656	0.854	18	12.106	0.699	16	11.061	0.797	18	10.211	0.552	18	13.600	9.500
PCTSAT	P301	Percent	95.150	4.336	18	94.669	3.298	16	97.753	6.286	17	99.700	3.725	17	109.500	81.100
FC	P31616	#/100ml	141.824	166.718	17	192.667	215.179	15	156.176	290.628	17	387.722	569.814	18	1900.000	1.000
PH	P400	units	7.569	0.322	16	7.556	0.210	16	7.575	0.252	16	7.611	0.247	18	8.300	6.900
SUSSOL	P530	mg/L	130.500	157.910	18	74.188	155.383	16	61.833	72.456	18	85.733	174.424	18	770.000	5.000
FLOW	P60	CFS	4211.667	2515.374	18	3689.375	2609.221	16	4545.000	2027.468	18	2303.333	1261.209	18	11090.000	500.000
NH3_N	P610	mg/L	0.042	0.033	18	0.068	0.035	16	0.025	0.014	18	0.020	0.009	16	0.160	0.010K
NO2_DIS	P613	mg/L	0.009	0.002	15	0.010	0.000	16	0.010	0.000	18	0.010	0.001	18	0.010	0.002K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	10	0.000	0.000	11	0.000	0.000	12	0.000	0.000	9	0.001	0.000
NO3_N	P620	mg/L	0.495	0.120	2	0.553	0.047	3	0.223	0.111	3	0.137	0.059	3	0.590	0.070
NO2_NO3	P630	mg/L	0.445	0.189	18	0.632	0.188	16	0.239	0.089	18	0.166	0.047	16	1.000	0.094
TP_P	P665	mg/L	0.065	0.049	16	0.079	0.113	16	0.043	0.029	18	0.093	0.195	15	0.790	0.010K
OP_DIS	P671	mg/L	0.011	0.003	18	0.012	0.004	15	0.010	0.000	18	0.010	0.002	18	0.020	0.005K
HG	P71900	ug/L	0.069	0.030	13	0.041	0.018	9	0.074	0.094	12	0.063	0.019	9	0.370	0.020K
COLOR	P80	Pt-Co	33.500	21.486	4	283.000	465.174	3	14.667	23.671	3	2.000	1.732	3	820.000	1.000K
TURB	P82079	NTU	38.589	47.406	18	18.744	26.177	16	16.935	18.662	17	29.211	41.471	18	193.000	1.000K
HARD	P900	mg/L	47.385	8.201	13	47.091	10.281	11	34.750	5.643	12	39.750	10.532	12	61.000	17.000
COND	P95	umhos	102.722	26.166	18	115.813	20.384	16	82.667	13.750	18	96.167	18.043	18	159.000	59.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 01A120 Name: NOOKSACK R @ NO CEDARVILLE

Class: A Elevation: 140 River Mile: 30.80

Location:
LOCATED ON HIGHWAY 542 (MOUNT BAKER HIGHWAY) AT BRIDGE OVER NOOKSACK RIVER BETWEEN CEDARVILLE AND NORTH CEDARVILLE APPROXIMATELY FOUR MILES WEST OF DEMING

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
X	X	X	X	X	X	X	X	X		X	X	X			X				X		X	X	X	X	X	X	X	X	X	X	X		X		

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	6.480	2.160	15	4.407	1.415	15	8.593	1.969	15	12.433	1.360	15	16.000	1.400
PRESS	P25	mmHg	759.847	8.423	15	761.173	7.397	15	760.187	6.064	15	761.480	4.107	15	772.900	740.000
OXYGEN	P300	mg/L	12.227	0.824	15	12.727	0.635	15	11.747	0.751	15	10.980	0.471	15	13.700	10.200
PCTSAT	P301	Percent	98.973	3.146	15	97.727	3.507	15	100.036	6.078	14	102.264	3.824	14	111.600	87.900
FC	P31616	#/100ml	14.214	9.721	14	15.429	15.722	14	18.733	28.597	15	62.933	112.410	15	410.000	1.000K
PH	P400	units	7.569	0.239	13	7.473	0.234	15	7.469	0.307	13	7.487	0.256	15	8.000	7.000
SUSSOL	P530	mg/L	65.333	80.363	15	161.133	531.189	15	50.000	57.163	15	72.480	119.070	15	2080.000	1.000
FLOW	P60	CFS	3335.267	1891.146	15	2936.667	1936.723	15	4390.667	1299.475	15	2075.800	943.886	15	8600.000	563.000
NH3_N	P610	mg/L	0.023	0.031	15	0.017	0.010	15	0.021	0.014	15	0.015	0.005	14	0.120	0.005K
NO2_DIS	P613	mg/L	0.009	0.002	12	0.010	0.000	15	0.010	0.000	15	0.009	0.002	15	0.010	0.002K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	11	0.000	0.000	11	0.000	0.000	12	0.000	0.000	9	******.***	0.000
NO3_N	P620	mg/L	0.257	0.133	3	0.227	0.046	3	0.110	0.056	3	0.047	0.023	3	0.370	0.020
NO2_NO3	P630	mg/L	0.251	0.099	15	0.273	0.074	15	0.108	0.041	15	0.070	0.022	14	0.420	0.040
TP_P	P665	mg/L	0.034	0.024	13	0.075	0.155	15	0.033	0.025	15	0.088	0.150	14	0.620	0.006J
OP_DIS	P671	mg/L	0.010	0.001	15	0.011	0.004	15	0.010	0.000	15	0.009	0.002	15	0.027	0.001J
COLOR	P80	Pt-Co	18.875	14.991	4	152.667	248.967	3	28.000	8.888	3	2.500	2.121	2	440.000	1.000
TURB	P82079	NTU	21.653	26.310	15	28.580	72.527	15	15.047	13.905	15	30.607	43.464	15	290.000	1.000K
COND	P95	umhos	89.400	17.663	15	90.067	16.735	15	68.133	10.357	15	83.600	16.847	15	122.000	50.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 01B050 Name: SILVER CR NR BRENNAN

Class: A Elevation: 5 River Mile: 1.40

Location:

Water Years Sampled:

```
5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                                                                X X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	8.467	3.289	6	6.300	4.059	5	14.483	2.164	6	16.250	2.842	6	19.100	0.500
ZN	P1094	ug/L	6.067	1.862	6	12.100	7.864	5	10.567	11.559	6	6.940	3.559	5	0.560	0.560V
CU	P1119	ug/L	3.450	0.543	6	5.760	2.027	5	3.250	0.481	6	3.000	0.000	6	8.900	3.000U
PRESS	P25	mmHg	763.067	6.994	6	767.120	6.316	5	763.717	4.891	6	765.600	4.897	5	773.400	754.100
OXYGEN	P300	mg/L	7.700	2.931	6	10.980	0.701	5	5.467	3.629	6	1.233	0.918	6	12.000	0.400
PCTSAT	P301	Percent	63.917	19.414	6	87.660	6.464	5	52.250	33.372	6	12.417	9.315	6	108.800	3.900
FC	P31616	#/100ml	178.667	116.802	6	350.250	504.376	4	122.200	100.201	5	760.500	1491.520	6	3800.000	12.000
PH	P400	units	7.350	0.176	6	7.480	0.164	5	7.217	0.264	6	7.017	0.117	6	7.700	6.900
SUSSOL	P530	mg/L	3.667	1.033	6	12.000	3.937	5	6.833	7.111	6	11.667	5.391	6	20.000	2.000
NH3_N	P610	mg/L	0.030	0.015	6	0.045	0.008	5	0.034	0.010	6	0.037	0.005	5	0.059	0.015
NO2_DIS	P613	mg/L	0.011	0.002	6	0.010	0.000	5	0.010	0.000	6	0.010	0.000	6	0.016	0.010K
NO2_NO3	P630	mg/L	0.371	0.294	6	0.456	0.173	5	0.063	0.063	6	0.012	0.005	5	0.874	0.010K
TP_P	P665	mg/L	0.069	0.025	6	0.082	0.025	5	0.070	0.015	6	0.144	0.040	5	0.192	0.042
OP_DIS	P671	mg/L	0.027	0.007	6	0.024	0.007	5	0.030	0.011	6	0.037	0.027	6	0.050	0.050U
TURB	P82079	NTU	6.383	3.210	6	11.680	5.888	5	3.320	1.390	5	3.900	2.197	6	21.000	1.400
HARD	P900	mg/L	90.833	16.822	6	88.800	14.325	5	110.500	16.084	6	140.333	16.354	6	167.000	68.000
COND	P95	umhos	247.500	74.288	6	218.400	30.566	5	267.500	39.541	6	383.500	39.597	6	438.000	161.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 03A060 Name: SKAGIT R NR MOUNT VERNON

Class: A Elevation: 14 River Mile: 15.90

Location:
LOCATED ONE MILE NORTH OF MOUNT VERNON AT THE BRIDGE CROSSING THE SKAGIT RIVER ON OLD HIGHWAY 99 (.3 MILE EAST OF INTERSTATE 5)

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
X	X	X	X	X	X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.972	2.182	18	4.711	1.142	18	8.944	1.368	18	13.017	0.988	18	15.400	1.400
PRESS	P25	mmHg	762.450	8.551	18	766.539	9.982	18	767.094	5.869	18	768.359	4.399	17	776.700	741.700
OXYGEN	P300	mg/L	11.633	0.880	18	12.522	0.586	18	11.556	0.635	18	10.461	0.387	18	13.500	9.700
PCTSAT	P301	Percent	97.289	3.867	18	96.256	3.367	18	98.424	4.169	17	97.641	2.589	17	109.400	85.800
FC	P31616	#/100ml	24.824	24.352	17	25.722	41.621	18	12.389	12.296	18	33.056	36.165	18	168.000	1.000
COD	P340	mg/L	6.333	2.291	9	5.875	1.808	8	5.750	1.488	8	5.286	1.113	7	10.000	4.000K
PH	P400	units	7.319	0.248	16	7.378	0.292	18	7.431	0.268	16	7.494	0.286	18	8.100	6.700
SUSSOL	P530	mg/L	40.056	33.093	18	25.056	41.471	18	18.222	17.785	18	106.033	283.863	18	1230.000	1.000
FLOW	P60	CFS	17829.444	8156.146	18	16885.000	8756.583	18	18734.444	5436.581	18	13376.111	6050.326	18	46400.000	5940.000
NH3_N	P610	mg/L	0.017	0.010	18	0.016	0.006	18	0.013	0.005	18	0.014	0.009	16	0.044	0.010K
NO2_DIS	P613	mg/L	0.009	0.002	15	0.010	0.000	18	0.010	0.000	18	0.010	0.002	18	24.000	24.000
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	11	0.000	0.000	12	0.000	0.000	12	0.000	0.000	9	0.001	0.000
NO3_N	P620	mg/L	0.120	0.070	3	0.113	0.015	3	0.087	0.025	3	0.043	0.012	3	0.170	0.030
NO2_NO3	P630	mg/L	0.141	0.060	18	0.140	0.034	18	0.102	0.079	18	0.045	0.014	17	0.400	0.020
TP_P	P665	mg/L	0.029	0.021	16	0.029	0.036	18	0.016	0.007	18	0.071	0.174	17	0.737	0.010K
OP_DIS	P671	mg/L	0.010	0.002	18	0.010	0.001	18	0.010	0.000	18	0.010	0.002	18	0.011	0.001J
COLOR	P80	Pt-Co	22.000	19.916	4	99.333	156.666	3	21.333	18.771	3	22.667	34.962	3	280.000	1.000
TURB	P82079	NTU	9.678	9.061	18	7.644	12.647	18	4.344	3.697	18	24.417	60.254	18	260.000	1.200
HARD	P900	mg/L	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	24.000	24.000
COND	P95	umhos	55.833	7.883	18	63.444	9.426	18	49.167	11.838	18	47.444	8.333	18	89.000	30.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 03B050 Name: SAMISH R NR BURLINGTON

Class: A Elevation: 38 River Mile: 10.40

Location:
LOCATED AT BRIDGE OVER SAMISH RIVER ON OLD HIGHWAY 99 APPROXIMATELY
MID WAY BETWEEN BURLINGTON AND ALGER

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
X	X	X	X	X	X	X	X	X		X	X	X			X			X	X	X	X	X	X	X	X	X	X	X	X	X			X		

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.387	2.616	15	4.993	1.776	15	10.767	1.579	15	12.680	1.987	15	15.800	0.500
PRESS	P25	mmHg	761.760	9.245	15	765.093	10.724	15	766.420	6.265	15	768.647	3.496	15	776.200	741.000
OXYGEN	P300	mg/L	11.607	1.139	15	12.407	0.673	15	10.887	0.726	15	10.080	0.616	15	13.800	9.100
PCTSAT	P301	Percent	95.647	5.717	15	96.160	2.601	15	96.814	4.746	14	92.871	2.282	14	107.900	79.000
FC	P31616	#/100ml	241.643	571.967	14	96.133	85.653	15	203.067	136.983	15	400.800	546.815	15	2200.000	8.000
PH	P400	units	7.423	0.449	13	7.387	0.466	15	7.400	0.200	13	7.547	0.316	15	8.400	6.400
SUSSOL	P530	mg/L	63.600	157.477	15	40.467	45.098	15	11.533	9.117	15	6.373	5.792	15	629.000	1.000
FLOW	P60	CFS	306.792	266.353	13	456.786	428.852	14	206.533	153.282	15	49.920	33.183	15	1680.000	19.000
NH3_N	P610	mg/L	0.031	0.016	15	0.032	0.021	15	0.019	0.012	15	0.016	0.010	13	0.080	0.010K
NO2_DIS	P613	mg/L	0.009	0.002	12	0.010	0.001	15	0.010	0.000	15	0.010	0.002	15	30.000	30.000
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	10	0.000	0.000	11	0.000	0.000	12	0.000	0.000	9	0.001	0.000
NO3_N	P620	mg/L	0.875	0.007	2	0.913	0.150	3	0.673	0.051	3	0.757	0.055	3	1.000	0.630
NO2_NO3	P630	mg/L	0.901	0.192	15	0.927	0.333	15	0.648	0.137	15	0.700	0.123	14	1.950	0.470
TP_P	P665	mg/L	0.039	0.040	13	0.050	0.046	15	0.024	0.007	15	0.019	0.010	14	0.180	0.010K
OP_DIS	P671	mg/L	0.011	0.003	15	0.010	0.000	15	0.010	0.001	15	0.010	0.002	15	0.020	0.004J
COLOR	P80	Pt-Co	34.250	11.927	4	59.000	72.125	2	62.667	21.939	3	2.000	1.732	3	110.000	1.000
TURB	P82079	NTU	12.460	24.008	15	12.260	9.620	15	4.450	2.614	14	2.327	2.339	15	97.000	0.800
HARD	P900	mg/L	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	30.000	30.000
COND	P95	umhos	86.267	25.138	15	72.933	13.269	15	82.467	9.172	15	113.533	14.426	15	130.000	49.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 03C060 Name: FRIDAY CR BLW HATCHERY

Class: A Elevation: 70 River Mile: 0.80

Location:
LOCATED .6 MILES BELOW HATCHERY AND .2 MILES EAST OF OLD HIGHWAY 99 (PACIFIC HIGHWAY) AT BRIDGE OVER FRIDAY CREEK ON PRAIRIE ROAD (WOODMAN MATTHEWS ROAD ON 7.5 MINUTE QUAD MAP)

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
															X																				X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	8.433	3.980	3	2.833	3.014	3	12.933	2.411	3	12.300	3.035	3	15.200	0.000
PRESS	P25	mmHg	763.600	6.518	3	757.100	16.815	3	766.400	5.507	3	768.633	4.025	3	774.700	741.200
OXYGEN	P300	mg/L	11.200	1.609	3	13.133	1.159	3	10.333	0.404	3	10.200	0.557	3	14.200	9.700
PCTSAT	P301	Percent	94.000	3.959	3	97.067	2.479	3	96.500	2.787	3	93.567	2.996	3	99.900	90.200
FC	P31616	#/100ml	1345.000	2299.304	3	83.333	83.680	3	302.333	389.906	3	708.667	1204.950	3	4000.000	3.000
PH	P400	units	7.533	0.208	3	7.600	0.173	3	7.333	0.416	3	7.733	0.153	3	7.900	7.000
SUSSOL	P530	mg/L	73.333	112.349	3	14.667	12.897	3	6.000	1.000	3	5.333	7.506	3	203.000	1.000
FLOW	P60	CFS	269.000	177.237	3	74.333	49.963	3	68.667	21.939	3	16.867	12.260	3	472.000	9.100
NH3_N	P610	mg/L	0.029	0.001	3	0.037	0.018	3	0.015	0.005	3	0.015	0.007	2	0.053	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	1.247	0.306	3	0.810	0.025	3	0.562	0.155	3	0.522	0.050	2	1.600	0.420
TP_P	P665	mg/L	0.037	0.031	3	0.027	0.009	3	0.021	0.000	3	0.031	0.016	2	0.073	0.017
OP_DIS	P671	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.001	3	0.011	0.010K
TURB	P82079	NTU	20.700	28.846	3	12.100	9.850	3	3.567	0.513	3	5.500	7.361	3	54.000	1.200
COND	P95	umhos	60.667	4.041	3	72.667	8.737	3	63.000	2.646	3	96.000	16.093	3	109.000	57.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 04A060 Name: SKAGIT R @ CONCRETE

Class: AA Elevation: 135 River Mile: 54.10

Location:
LOCATED AT THE BRIDGE OVER THE SKAGIT RIVER ON THE SAUK VALLEY ROAD, ONE MILE SOUTHWEST OF CONCRETE

Water Years Sampled:

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5 6                   7                   8                   9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                        X     X     X X X X X X X X X X X X X X   X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.993	2.079	15	4.136	1.432	14	7.667	1.360	15	12.007	0.743	15	13.500	0.600
PRESS	P25	mmHg	760.220	7.464	15	762.307	6.622	14	760.133	5.570	15	759.787	4.123	15	771.700	744.000
OXYGEN	P300	mg/L	11.833	0.895	15	12.879	0.498	14	12.067	0.712	15	10.920	0.310	15	13.800	9.800
PCTSAT	P301	Percent	99.327	3.888	15	98.086	3.410	14	100.736	5.034	14	100.957	2.175	14	112.600	88.600
FC	P31616	#/100ml	4.429	4.380	14	2.077	2.532	13	5.333	4.716	15	15.933	29.036	15	110.000	1.000K
COD	P340	mg/L	5.000	1.500	9	5.286	2.360	7	5.750	2.252	8	6.375	1.302	8	10.000	4.000K
PH	P400	units	7.346	0.320	13	7.329	0.194	14	7.331	0.256	13	7.253	0.242	15	8.100	6.800
SUSSOL	P530	mg/L	40.933	65.761	15	22.143	55.773	14	18.800	27.486	15	40.547	94.941	15	380.000	1.000
FLOW	P60	CFS	15467.333	7107.648	15	13635.000	7889.806	14	18226.000	4927.184	15	13086.667	5748.321	15	36400.000	4910.000
NH3_N	P610	mg/L	0.012	0.004	15	0.014	0.006	14	0.011	0.003	15	0.012	0.004	14	0.030	0.005K
NO2_DIS	P613	mg/L	0.009	0.002	12	0.010	0.000	14	0.010	0.000	15	0.009	0.002	14	0.010	0.002K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	10	0.000	0.000	11	0.000	0.000	12	0.000	0.000	9	******.***	0.000
NO3_N	P620	mg/L	0.090	0.028	2	0.090	0.010	3	0.057	0.023	3	0.033	0.006	3	0.110	0.030
NO2_NO3	P630	mg/L	0.099	0.035	15	0.102	0.019	14	0.071	0.019	15	0.036	0.010	14	0.130	0.020
TP_P	P665	mg/L	0.021	0.015	13	0.028	0.039	14	0.015	0.011	15	0.024	0.044	14	0.175	0.002J
OP_DIS	P671	mg/L	0.010	0.002	15	0.010	0.001	14	0.010	0.000	15	0.009	0.002	15	0.010	0.001J
COLOR	P80	Pt-Co	7.375	5.154	4	60.500	84.146	2	17.333	18.877	3	13.000	18.248	3	120.000	1.000
TURB	P82079	NTU	6.647	6.307	15	6.829	13.785	14	4.300	4.150	15	5.887	8.977	15	54.000	1.000K
COND	P95	umhos	52.333	6.705	15	60.071	6.379	14	46.067	10.552	15	49.133	10.528	15	74.000	29.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 04A100 Name: SKAGIT R @ MARBLEMOUNT

Class: AA Elevation: 360 River Mile: 78.20

Location:
LOCATED AT THE BRIDGE ON THE CASCADE RIVER ROAD WHERE HIGHWAY 20 (NORTH CASCADES HIGHWAY) TURNS 90 DEGREES IN MARBLEMOUNT

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X X X X X X X X   X X             X X X X X X X X X X X X X X X X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.844	1.422	18	4.178	1.585	18	7.328	1.559	18	10.594	0.800	18	12.300	0.600
PRESS	P25	mmHg	756.911	6.500	18	757.928	6.251	18	756.411	5.426	18	757.841	4.218	17	768.900	744.000
OXYGEN	P300	mg/L	11.806	0.786	18	12.850	0.491	18	12.256	0.691	18	11.272	0.339	18	13.900	9.600
PCTSAT	P301	Percent	99.339	5.283	18	98.539	3.112	18	101.847	4.296	17	101.341	2.368	17	112.300	82.200
FC	P31616	#/100ml	4.333	8.818	18	5.875	18.970	16	1.882	1.495	17	12.235	22.309	17	94.000	1.000K
PH	P400	units	7.450	0.343	16	7.467	0.222	18	7.394	0.254	16	7.411	0.295	18	8.100	6.700
SUSSOL	P530	mg/L	5.389	4.913	18	3.222	5.418	18	2.778	2.922	18	3.511	3.289	18	24.000	1.000K
FLOW	P60	CFS	6590.556	3580.420	18	6886.111	3296.000	18	5625.556	1784.700	18	5537.222	2398.605	18	18900.000	2290.000
NH3_N	P610	mg/L	0.011	0.002	18	0.011	0.003	18	0.011	0.002	18	0.012	0.004	17	0.020	0.005K
NO2_DIS	P613	mg/L	0.009	0.002	15	0.010	0.000	18	0.010	0.000	18	0.010	0.002	17	0.010	0.002K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	10	0.000	0.000	11	0.000	0.000	12	0.000	0.000	9	******.***	0.000
NO3_N	P620	mg/L	0.060	0.014	2	0.050	0.010	3	0.057	0.015	3	0.037	0.006	3	0.070	0.030
NO2_NO3	P630	mg/L	0.072	0.019	18	0.060	0.008	18	0.063	0.012	18	0.042	0.012	17	0.119	0.010K
TP_P	P665	mg/L	0.010	0.002	16	0.018	0.020	17	0.011	0.002	18	0.011	0.004	17	0.090	0.002K
OP_DIS	P671	mg/L	0.010	0.001	18	0.010	0.001	18	0.010	0.000	18	0.010	0.002	18	0.010	0.002J
COLOR	P80	Pt-Co	5.125	3.614	4	10.000	5.196	3	22.667	24.987	3	6.000	6.245	3	50.000	1.000
TURB	P82079	NTU	1.761	1.123	18	1.622	1.091	18	1.271	0.574	17	1.606	0.739	18	4.000	0.200
COND	P95	umhos	51.222	10.429	18	60.611	7.815	18	41.722	11.975	18	47.167	7.610	18	71.000	23.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 04B070 Name: BAKER R @ CONCRETE

Class: AA Elevation: 175 River Mile: 0.60

Location:
LOCATED AT THE BRIDGE ON OLD HIGHWAY 20 ON THE EAST OF CONCRETE .2 MILES ABOVE THE BURLINGTON NORTHERN RR TRESTLE

Water Years Sampled:

```
5 6                 7                   8                   9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
      X X X X                     X X X X X X X X X X X X X X   X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	10.067	2.928	15	4.033	1.046	15	7.840	1.954	15	12.927	1.187	15	14.800	1.700
PRESS	P25	mmHg	758.487	7.549	15	760.953	6.299	15	759.387	5.036	15	760.107	3.923	15	770.600	743.000
OXYGEN	P300	mg/L	11.267	1.285	15	12.587	0.549	15	12.193	0.773	15	10.647	0.550	15	13.900	8.700
PCTSAT	P301	Percent	98.720	6.927	15	95.747	3.438	15	102.207	6.134	14	100.371	4.104	14	115.800	83.800
FC	P31616	#/100ml	2.867	3.720	15	1.429	0.646	14	5.733	17.786	15	2.533	3.543	15	70.000	1.000K
PH	P400	units	7.315	0.389	13	7.420	0.276	15	7.331	0.253	13	7.173	0.281	15	8.200	6.600
SUSSOL	P530	mg/L	9.467	10.776	15	7.200	7.711	15	4.200	4.395	15	2.147	1.988	15	37.000	1.000K
FLOW	P60	CFS	3680.667	664.030	15	2465.800	1506.279	15	2752.533	1690.823	15	3219.467	1309.973	15	6040.000	47.000
NH3_N	P610	mg/L	0.017	0.014	15	0.013	0.006	15	0.015	0.009	15	0.012	0.004	14	0.060	0.005K
NO2_DIS	P613	mg/L	0.009	0.002	12	0.010	0.000	15	0.010	0.000	15	0.009	0.002	14	0.010	0.002K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	10	0.000	0.000	11	0.000	0.000	12	0.000	0.000	9	******.***	0.000
NO3_N	P620	mg/L	0.055	0.049	2	0.103	0.006	3	0.077	0.032	3	0.033	0.012	3	0.110	0.020
NO2_NO3	P630	mg/L	0.077	0.039	15	0.124	0.017	15	0.092	0.031	15	0.033	0.020	14	0.147	0.006J
TP_P	P665	mg/L	0.018	0.012	13	0.023	0.024	15	0.011	0.004	15	0.010	0.003	14	0.100	0.002K
OP_DIS	P671	mg/L	0.010	0.002	15	0.010	0.000	15	0.010	0.000	15	0.009	0.002	15	0.010	0.001J
COLOR	P80	Pt-Co	20.250	11.983	4	80.500	112.430	2	35.333	46.307	3	7.333	8.505	3	160.000	1.000
TURB	P82079	NTU	8.327	10.583	15	8.733	10.909	15	4.207	3.470	15	1.720	1.041	15	43.000	0.800
COND	P95	umhos	50.000	5.593	15	54.800	5.609	15	55.733	9.520	15	43.533	9.471	15	69.000	33.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 04C070 Name: SAUK R NR ROCKPORT

Class: AA Elevation: 315 River Mile: 7.00

Location:
LOCATED APPROXIMATELY 12 MILES NORTH OF DARRINGTON AND FIVE MILES SOUTH OF ROCKPORT OFF THE SAUK RIVER ROAD ABOUT .3 MILE AT THE BRIDGE ON THE ROAD TO HIDDEN VALLEY RANCH AND CONCRETE, .8 MILE DOWNSTREAM FROM THE CONFLUENCE OF WHITE CREEK AND 1.6 MILES UPSTREAM OF THE GAGE

Water Years Sampled:

5	6											7												8												9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4				
																		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X						

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	5.407	1.813	15	3.500	1.438	15	6.967	1.171	15	11.213	1.387	15	13.800	0.700
PRESS	P25	mmHg	756.733	7.413	15	759.407	6.645	15	757.687	4.743	15	758.920	5.463	15	772.200	740.000
OXYGEN	P300	mg/L	12.433	0.858	15	13.000	0.517	15	12.153	0.756	15	10.847	0.394	15	14.000	10.000
PCTSAT	P301	Percent	98.460	4.543	15	97.740	2.834	15	99.864	5.118	14	98.385	1.583	13	112.600	86.800
FC	P31616	#/100ml	4.786	5.056	14	2.643	2.735	14	6.200	10.255	15	35.929	71.188	14	270.000	1.000K
PH	P400	units	7.469	0.298	13	7.473	0.225	15	7.408	0.325	13	7.433	0.313	15	8.100	6.800
SUSSOL	P530	mg/L	65.133	104.097	15	35.200	92.038	15	29.133	37.675	15	189.960	344.152	15	1300.000	1.000
FLOW	P60	CFS	3805.133	2281.852	15	3602.000	2995.659	15	6635.933	2361.990	15	3266.000	1963.065	15	13000.000	657.000
NH3_N	P610	mg/L	0.011	0.004	15	0.012	0.006	15	0.012	0.006	15	0.012	0.003	13	0.030	0.005K
NO2_DIS	P613	mg/L	0.009	0.002	12	0.010	0.000	15	0.010	0.000	15	0.009	0.002	14	0.010	0.002K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	10	0.000	0.000	11	0.000	0.000	12	0.000	0.000	9	******.***	0.000
NO3_N	P620	mg/L	0.130	0.000	2	0.077	0.021	3	0.040	0.017	3	0.020	0.010	3	0.130	0.010
NO2_NO3	P630	mg/L	0.114	0.045	15	0.104	0.033	15	0.052	0.021	15	0.022	0.010	13	0.210	0.010K
TP_P	P665	mg/L	0.021	0.013	13	0.033	0.046	14	0.025	0.026	15	0.068	0.121	14	0.480	0.006
OP_DIS	P671	mg/L	0.010	0.001	15	0.010	0.000	14	0.010	0.000	15	0.010	0.002	15	0.010	0.004J
COLOR	P80	Pt-Co	8.250	3.686	4	350.500	494.268	2	27.000	32.187	3	37.000	31.177	3	700.000	1.000
TURB	P82079	NTU	7.013	7.438	15	7.547	13.902	15	5.700	5.387	15	18.507	24.316	15	88.000	0.800
COND	P95	umhos	53.133	12.671	15	57.667	10.867	15	41.800	9.260	15	48.600	16.801	15	99.000	27.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 05A070 Name: STILLAGUAMISH R NR SILVANA

Class: A Elevation: 35 River Mile: 11.10

Location:
LOCATED ON THE INTERSTATE 5 BRIDGE JUST NORTH OF THE ARLINGTON-SILVANA EXIT (EXIT 208)

Water Years Sampled:

5	6											7												8												9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4				
X	X	X	X	X	X	X	X	X	X	X	X				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	6.583	2.201	18	4.411	1.704	18	10.106	2.286	18	15.739	2.724	18	20.800	0.500
PRESS	P25	mmHg	764.939	6.913	18	766.106	8.152	18	767.656	4.883	18	766.324	4.208	17	779.800	743.000
OXYGEN	P300	mg/L	11.917	0.980	18	12.628	0.639	18	11.117	0.899	18	9.272	0.766	18	14.000	8.100
PCTSAT	P301	Percent	96.022	4.952	18	96.294	2.637	18	97.112	4.694	17	91.476	3.035	17	107.900	81.200
FC	P31616	#/100ml	80.722	78.497	18	72.833	72.056	18	44.833	43.151	18	181.722	181.578	18	680.000	1.000
PH	P400	units	7.281	0.770	16	7.317	0.479	18	7.394	0.406	16	7.339	0.388	18	9.700	6.000
SUSSOL	P530	mg/L	61.944	70.125	18	96.833	255.133	18	22.778	26.425	18	14.522	27.701	18	1100.000	1.000
FLOW	P60	CFS	4759.778	3213.862	18	4642.778	4769.778	18	3799.444	1660.469	18	1214.833	1284.090	18	18600.000	284.000
NH3_N	P610	mg/L	0.027	0.023	18	0.035	0.020	18	0.015	0.007	18	0.017	0.011	17	0.080	0.010K
NO2_DIS	P613	mg/L	0.009	0.002	15	0.010	0.000	18	0.010	0.000	18	0.010	0.002	18	0.010	0.002K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	10	0.000	0.000	11	0.000	0.000	12	0.000	0.000	8	0.001	0.000
NO3_N	P620	mg/L	0.425	0.021	2	0.237	0.135	3	0.153	0.055	3	0.137	0.038	3	0.440	0.100
NO2_NO3	P630	mg/L	0.330	0.117	18	0.318	0.098	18	0.144	0.046	18	0.126	0.054	17	0.491	0.060
TP_P	P665	mg/L	0.042	0.033	16	0.047	0.054	18	0.023	0.013	18	0.030	0.030	17	0.240	0.010K
OP_DIS	P671	mg/L	0.010	0.001	18	0.011	0.006	18	0.010	0.000	18	0.010	0.002	18	0.036	0.006J
COLOR	P80	Pt-Co	38.500	14.526	4	295.500	416.486	2	30.667	9.815	3	10.000	13.077	3	590.000	1.000
TURB	P82079	NTU	19.061	18.842	18	21.633	34.961	18	8.167	7.522	18	4.089	5.428	18	156.000	0.800
COND	P95	umhos	59.389	24.389	18	53.889	13.341	18	45.833	9.192	18	72.667	19.754	18	127.000	25.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 05A090 Name: SF STILLAGUAMISH @ ARLINGTON

Class: A Elevation: 55 River Mile: 18.20

Location:
AT BRIDGE ON STATE HIGHWAY 530 IN ARLINGTON

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
												X			X				X	X	X	X	X	X	X	X	X	X	X	X			X		

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	6.133	2.308	15	3.853	1.648	15	9.573	2.543	15	14.960	2.478	15	19.900	0.000
PRESS	P25	mmHg	765.140	7.180	15	765.993	5.453	15	765.813	5.106	15	765.733	3.374	15	779.000	751.000
OXYGEN	P300	mg/L	12.260	1.111	15	13.053	0.623	15	11.453	1.031	15	9.733	0.718	15	14.300	8.400
PCTSAT	P301	Percent	97.647	5.990	15	98.107	2.349	15	99.193	5.477	14	94.886	3.674	14	110.100	80.300
FC	P31616	#/100ml	101.000	171.721	14	53.467	99.122	15	21.267	33.752	15	213.467	351.627	15	1200.000	1.000K
PH	P400	units	7.131	0.453	13	7.460	0.282	15	7.338	0.338	13	7.447	0.285	15	8.100	6.400
SUSSOL	P530	mg/L	48.000	85.231	15	209.533	690.010	15	13.067	13.588	15	31.067	99.428	15	2700.000	1.000
FLOW	P60	CFS	2313.571	1775.182	14	3278.667	4987.523	15	1962.857	726.810	14	870.385	1487.152	13	20000.000	100.000
NH3_N	P610	mg/L	0.019	0.011	15	0.025	0.015	15	0.013	0.006	15	0.012	0.005	14	0.060	0.010K
NO2_DIS	P613	mg/L	0.009	0.002	12	0.010	0.001	14	0.010	0.000	15	0.009	0.002	15	0.014	0.002K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	10	0.000	0.000	11	0.000	0.000	12	0.000	0.000	9	******.***	0.000
NO3_N	P620	mg/L	0.340	0.071	2	0.263	0.087	3	0.167	0.100	3	0.110	0.010	3	0.390	0.070
NO2_NO3	P630	mg/L	0.264	0.089	15	0.291	0.109	15	0.120	0.042	15	0.129	0.061	14	0.467	0.060
TP_P	P665	mg/L	0.021	0.013	13	0.060	0.096	15	0.015	0.006	15	0.028	0.063	14	0.370	0.002K
OP_DIS	P671	mg/L	0.010	0.001	15	0.010	0.000	14	0.010	0.000	15	0.009	0.002	15	0.010	0.002J
COLOR	P80	Pt-Co	31.250	8.098	4	206.500	273.650	2	37.667	10.970	3	2.000	1.732	3	400.000	1.000
TURB	P82079	NTU	16.900	23.102	15	49.827	141.764	15	5.540	3.884	15	7.100	15.432	15	560.000	0.400
COND	P95	umhos	48.333	14.979	15	45.867	13.752	15	38.800	6.428	15	61.200	15.676	15	93.000	17.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 05A110 Name: SF STILLY NR GRANITE FALLS

Class: AA Elevation: 290 River Mile: 34.60

Location:
LOCATED 1.5 MILES PAST GRANITE FALLS ON MOUNTAIN LOOP HIGHWAY AT BRIDGE OVER THE SOUTH FORK OF THE STILLAGUAMISH RIVER JUST UPSTREAM FROM THE FISHWAY

Water Years Sampled:

```
5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X X X X X X X             X                             X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	6.567	3.427	3	1.900	1.769	3	8.833	3.863	3	13.000	2.456	3	15.100	0.000
PRESS	P25	mmHg	754.200	3.940	3	754.667	4.826	3	756.067	4.174	3	757.700	1.562	3	760.700	749.800
OXYGEN	P300	mg/L	12.267	1.419	3	13.733	0.702	3	11.400	1.212	3	10.467	0.551	3	14.400	10.100
PCTSAT	P301	Percent	99.900	2.464	3	99.500	0.819	3	97.833	0.961	3	98.933	1.069	3	102.200	96.800
FC	P31616	#/100ml	54.667	32.332	3	3.000	1.732	3	6.333	3.055	3	113.667	80.252	3	160.000	1.000
PH	P400	units	7.300	0.100	3	7.400	0.200	3	7.333	0.416	3	7.567	0.153	3	7.800	7.000
SUSSOL	P530	mg/L	124.667	75.215	3	49.333	64.237	3	8.667	8.963	3	18.667	24.786	3	210.000	1.000
NH3_N	P610	mg/L	0.027	0.012	3	0.021	0.008	3	0.013	0.006	3	0.015	0.007	2	0.038	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	0.139	0.009	3	0.153	0.037	3	0.062	0.021	3	0.059	0.004	2	0.195	0.049
TP_P	P665	mg/L	0.076	0.036	3	0.029	0.033	3	0.012	0.003	3	0.010	0.000	2	0.115	0.010K
OP_DIS	P671	mg/L	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
TURB	P82079	NTU	39.333	13.650	3	17.900	16.838	3	3.900	3.381	3	13.367	18.746	3	55.000	1.800
COND	P95	umhos	32.000	8.185	3	38.000	15.524	3	27.000	6.928	3	47.333	7.234	3	53.000	22.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 05B070 Name: NF STILLAGUAMISH @ CICERO

Class: A Elevation: 110 River Mile: 9.50

Location:
LOCATED AT BRIDGE ON STATE HIGHWAY 530 7.2 MILES NORTHEAST OF ARLINGTON
AT CICERO

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
			X	X	X	X	X	X	X	X	X				X				X	X	X	X	X	X	X	X	X	X	X	X		X			

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	5.973	2.014	15	3.920	1.356	15	8.480	2.312	15	13.827	1.947	15	17.100	1.100
PRESS	P25	mmHg	762.847	6.479	15	764.420	5.639	15	763.067	6.052	15	763.793	3.204	15	776.700	750.000
OXYGEN	P300	mg/L	12.100	0.995	15	12.873	0.584	15	11.767	0.889	15	10.233	0.785	15	14.100	8.900
PCTSAT	P301	Percent	96.307	5.057	15	97.187	2.315	15	99.962	6.391	13	97.921	6.553	14	115.100	81.300
FC	P31616	#/100ml	46.500	65.749	14	32.733	32.484	15	13.929	8.571	14	120.067	205.883	15	830.000	2.000
PH	P400	units	7.238	0.284	13	7.380	0.157	15	7.300	0.268	13	7.707	0.482	15	8.800	6.700
SUSSOL	P530	mg/L	66.667	68.182	15	305.533	915.976	15	31.067	30.695	15	10.167	24.943	15	3600.000	0.500K
FLOW	P60	CFS	2189.933	1352.533	15	3291.400	4607.445	15	1877.000	773.706	15	558.067	474.725	15	18500.000	168.000
NH3_N	P610	mg/L	0.027	0.021	15	0.030	0.043	15	0.018	0.011	15	0.014	0.011	13	0.180	0.005K
NO2_DIS	P613	mg/L	0.009	0.002	12	0.010	0.000	14	0.010	0.000	15	0.009	0.002	15	0.010	0.002K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	10	0.000	0.000	11	0.000	0.000	12	0.000	0.000	9	******.***	0.000
NO3_N	P620	mg/L	0.365	0.049	2	0.230	0.036	3	0.110	0.030	3	0.077	0.040	3	0.400	0.040
NO2_NO3	P630	mg/L	0.268	0.091	15	0.247	0.077	15	0.109	0.025	15	0.085	0.069	14	0.440	0.020
TP_P	P665	mg/L	0.044	0.030	13	0.134	0.310	15	0.032	0.025	15	0.018	0.023	14	1.230	0.006J
OP_DIS	P671	mg/L	0.010	0.001	15	0.011	0.006	14	0.010	0.000	15	0.010	0.001	15	0.030	0.006J
COLOR	P80	Pt-Co	34.500	10.472	4	330.500	465.983	2	36.667	2.309	3	2.000	1.732	3	660.000	1.000
TURB	P82079	NTU	19.540	18.028	15	48.900	120.034	15	10.540	8.306	15	2.787	4.619	15	480.000	0.500
COND	P95	umhos	57.267	21.005	15	54.067	17.560	15	45.267	5.861	15	79.067	16.298	15	118.000	26.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 05B110 Name: NF STILLY NR DARRINGTON

Class: A Elevation: 435 River Mile: 30.00

Location:
LOCATED .9 MILES NORTH OF HIGHWAY 530 AND WHITEHORSE AT BRIDGE ON SWEDE HEAVEN ROAD

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	6.667	2.774	3	3.067	1.501	3	9.033	2.454	3	13.000	1.947	3	14.500	1.600
PRESS	P25	mmHg	753.300	3.487	3	753.100	5.203	3	753.367	4.817	3	755.633	2.053	3	758.400	748.000
OXYGEN	P300	mg/L	11.767	0.862	3	12.933	0.551	3	11.333	0.850	3	10.867	0.737	3	13.500	10.300
PCTSAT	P301	Percent	96.467	0.379	3	96.900	1.054	3	98.433	3.800	3	103.000	3.122	3	105.500	94.600
FC	P31616	#/100ml	88.000	131.670	3	1.000	0.000	3	4.333	4.933	3	15.000	9.849	3	240.000	1.000K
PH	P400	units	7.333	0.208	3	7.433	0.153	3	7.400	0.265	3	7.633	0.208	3	7.800	7.100
SUSSOL	P530	mg/L	12.333	9.504	3	6.333	8.386	3	1.667	0.577	3	1.333	0.577	3	22.000	1.000K
FLOW	P60	CFS	540.000	104.403	3	415.667	254.001	3	418.333	90.046	3	123.000	36.042	3	670.000	88.000
NH3_N	P610	mg/L	0.012	0.003	3	0.019	0.010	3	0.010	0.000	3	0.010	0.000	2	0.030	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	0.146	0.084	3	0.181	0.056	3	0.083	0.003	3	0.072	0.008	2	0.234	0.052
TP_P	P665	mg/L	0.016	0.007	3	0.012	0.004	3	0.010	0.000	3	0.010	0.000	2	0.024	0.010K
OP_DIS	P671	mg/L	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
TURB	P82079	NTU	1.900	0.721	3	1.967	2.804	3	0.500	0.200	3	0.333	0.153	3	5.200	0.200
COND	P95	umhos	30.000	12.490	3	44.333	21.008	3	34.333	4.041	3	59.000	10.149	3	70.000	16.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 07A090 Name: SNOHOMISH R @ SNOHOMISH

Class: A Elevation: 8 River Mile: 12.70

Location:
LOCATED AT BRIDGE ON AVENUE D IN SNOHOMISH, TWO BLOCKS SOUTH OF 2ND STREET (OLD HIGHWAY 2)

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X X X X X X X   X X X     X     X X X X X X X X X X X X X X X X X X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.578	2.208	18	5.233	1.736	18	10.022	2.142	18	16.483	2.351	18	21.300	1.400
ZN	P1094	ug/L	7.846	6.122	13	6.167	3.353	12	9.091	7.327	11	5.889	3.586	9	26.000	1.000K
CD	P1113	ug/L	0.246	0.198	13	0.186	0.054	12	0.173	0.114	12	0.127	0.047	11	0.700	0.100K
PB	P1114	ug/L	1.775	1.221	12	1.117	0.286	12	1.209	0.517	11	1.664	1.122	11	5.000	1.000K
CR	P1118	ug/L	2.433	2.037	13	1.282	1.161	12	1.005	0.330	11	0.880	0.791	11	7.000	0.200K
CU	P1119	ug/L	6.523	5.090	13	3.950	3.929	12	3.150	1.674	12	3.567	1.136	9	20.000	1.000K
PRESS	P25	mmHg	768.044	5.193	18	765.644	4.652	18	764.256	5.280	18	763.947	6.042	17	779.800	748.800
OXYGEN	P300	mg/L	11.583	0.945	18	12.344	0.522	18	11.356	0.952	18	9.622	0.548	18	13.700	8.400
PCTSAT	P301	Percent	95.228	4.652	18	96.244	2.792	18	99.324	5.749	17	97.071	4.481	17	111.700	83.600
FC	P31616	#/100ml	133.118	127.640	17	43.867	34.224	15	70.176	84.503	17	108.611	180.230	18	820.000	1.000
COD	P340	mg/L	9.444	4.531	9	8.125	2.900	8	5.250	2.315	8	10.625	9.956	8	35.000	4.000K
PH	P400	units	7.169	0.470	16	7.228	0.254	18	7.231	0.277	16	7.317	0.257	18	8.100	6.200
SUSSOL	P530	mg/L	26.167	33.983	18	17.278	22.731	18	12.000	12.966	18	5.944	2.980	18	140.000	1.000K
FLOW	P60	CFS	12910.588	11095.230	17	8833.889	4604.567	18	11930.500	4224.371	18	3133.889	1622.464	18	41800.000	850.000J
NH3_N	P610	mg/L	0.028	0.014	18	0.030	0.016	18	0.013	0.005	18	0.018	0.012	17	0.070	0.010K
NO2_DIS	P613	mg/L	0.009	0.002	15	0.010	0.000	17	0.010	0.000	18	0.010	0.002	18	0.010	0.002K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	10	0.000	0.000	11	0.000	0.000	12	0.000	0.000	9	******.***	0.000
NO3_N	P620	mg/L	0.355	0.064	2	0.370	0.115	3	0.113	0.055	3	0.133	0.023	3	0.490	0.060
NO2_NO3	P630	mg/L	0.339	0.200	18	0.364	0.140	18	0.140	0.063	18	0.105	0.040	17	1.010	0.010K
TP_P	P665	mg/L	0.034	0.034	16	0.034	0.034	18	0.016	0.008	18	0.012	0.003	17	0.160	0.010K
OP_DIS	P671	mg/L	0.010	0.001	18	0.010	0.000	17	0.010	0.000	18	0.010	0.002	18	0.011	0.002J
HG	P71900	ug/L	0.065	0.022	12	0.046	0.012	10	0.052	0.019	12	0.062	0.016	9	0.110	0.020K
COLOR	P80	Pt-Co	28.000	13.229	3	21.000	4.000	3	18.000	12.124	3	16.286	11.116	7	38.000	1.000
TURB	P82079	NTU	8.683	12.145	18	5.433	5.751	18	4.218	3.854	17	2.017	1.396	18	51.000	1.000K
HARD	P900	mg/L	18.692	4.906	13	20.667	7.365	12	15.917	4.680	12	22.667	4.141	12	36.000	10.000
COND	P95	umhos	44.278	11.950	18	46.944	9.084	18	33.056	5.418	18	52.444	13.574	18	85.000	23.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 07C070 Name: SKYKOMISH R @ MONROE

Class: A Elevation: 43 River Mile: 25.60

Location:
LOCATED AT THE RAILROAD TRESTLE .5 MILES EAST OF MONROE IN MONROE PARK

Water Years Sampled:

```
5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                      X     X     X X X X X X X X X X X X X X X X X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.814	2.345	14	4.119	1.833	16	8.767	2.120	18	15.028	2.452	18	20.300	0.000
PRESS	P25	mmHg	767.364	7.153	14	764.573	3.804	15	762.628	5.840	18	766.188	14.225	17	817.900	750.600
OXYGEN	P300	mg/L	11.829	0.801	14	12.893	0.557	15	12.056	0.840	18	10.444	0.493	18	14.100	9.700
PCTSAT	P301	Percent	97.950	3.725	14	91.880	25.630	15	102.829	5.348	17	102.671	6.246	17	114.100	0.000
FC	P31616	#/100ml	14.857	10.317	14	4.214	5.846	14	9.056	7.042	18	76.556	169.875	18	730.000	1.000K
PH	P400	units	7.283	0.349	12	7.153	0.259	15	7.138	0.268	16	7.522	0.402	18	8.500	6.600
SUSSOL	P530	mg/L	13.071	22.629	14	8.133	11.070	15	10.611	10.694	18	4.459	2.637	17	76.000	1.000K
FLOW	P60	CFS	5266.429	4636.820	14	4575.000	2743.929	16	6875.556	2412.058	18	2032.222	1278.039	18	15000.000	490.000
NH3_N	P610	mg/L	0.012	0.003	14	0.012	0.006	15	0.013	0.009	18	0.012	0.005	17	0.050	0.005
NO2_DIS	P613	mg/L	0.010	0.000	11	0.010	0.000	14	0.010	0.000	18	0.010	0.002	18	0.010	0.002K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	10	0.000	0.000	11	0.000	0.000	12	0.000	0.000	9	******.***	0.000
NO3_N	P620	mg/L	0.245	0.064	2	0.153	0.042	3	0.060	0.036	3	0.047	0.006	3	0.290	0.030
NO2_NO3	P630	mg/L	0.181	0.078	14	0.181	0.047	15	0.072	0.030	18	0.047	0.023	17	0.280	0.010
TP_P	P665	mg/L	0.016	0.014	12	0.019	0.028	15	0.013	0.005	18	0.012	0.004	17	0.120	0.006J
OP_DIS	P671	mg/L	0.010	0.000	14	0.010	0.001	14	0.010	0.000	18	0.010	0.002	18	0.013	0.003J
COLOR	P80	Pt-Co	15.333	6.658	3	13.000	0.000	3	15.667	2.309	3	13.429	7.208	7	21.000	1.000
TURB	P82079	NTU	4.721	7.413	14	3.320	3.340	15	3.583	2.863	18	1.844	1.261	18	26.000	0.700
COND	P95	umhos	39.857	15.412	14	37.600	8.862	15	28.333	7.071	18	39.500	5.793	18	83.000	18.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 07D050 Name: SNOQUALMIE R NR MONROE

Class: A Elevation: 15 River Mile: 2.70

Location:
LOCATED AT HIGH BRIDGE AT THE SOUTHWEST CORNER OF THE MONROE STATE REFORMATORY HONOR FARM NUMBER 2, NEAR CRESCENT LAKE, APPROXIMATELY THREE MILES SOUTHWEST OF MONROE IN TUALCO VALLEY ON HIGH BRIDGE ROAD

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
																		X															X	X	

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	8.250	2.421	6	5.033	2.255	6	11.717	2.572	6	16.583	3.511	6	21.200	1.700
PRESS	P25	mmHg	762.817	3.887	6	763.867	3.473	6	765.483	3.553	6	765.040	3.735	5	772.200	758.400
OXYGEN	P300	mg/L	11.317	0.722	6	11.933	0.784	6	10.617	0.694	6	9.483	0.571	6	13.100	8.400
PCTSAT	P301	Percent	95.233	2.105	6	92.600	1.290	6	96.567	6.411	6	95.967	7.872	6	111.700	90.500
FC	P31616	#/100ml	80.833	38.670	6	42.667	44.836	6	265.333	296.344	6	73.000	49.169	6	730.000	10.000
PH	P400	units	7.250	0.138	6	7.183	0.232	6	7.250	0.383	6	7.267	0.234	6	8.000	6.900
SUSSOL	P530	mg/L	10.333	11.448	6	8.333	8.238	6	8.167	3.869	6	3.667	1.862	6	33.000	1.000
NH3_N	P610	mg/L	0.026	0.009	6	0.031	0.014	6	0.018	0.008	6	0.014	0.002	5	0.056	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	6	0.012	0.004	5	0.010	0.000	6	0.010	0.000	6	0.018	0.010K
NO2_NO3	P630	mg/L	0.374	0.250	6	0.368	0.090	6	0.215	0.076	6	0.158	0.049	5	0.828	0.105
TP_P	P665	mg/L	0.022	0.008	6	0.016	0.004	6	0.017	0.009	6	0.011	0.002	5	0.036	0.010K
OP_DIS	P671	mg/L	0.010	0.001	6	0.010	0.000	5	0.010	0.000	6	0.010	0.000	6	0.012	0.010K
TURB	P82079	NTU	4.000	4.517	6	2.567	0.914	6	2.717	1.001	6	1.217	0.264	6	13.000	0.700
COND	P95	umhos	62.167	34.167	6	46.833	7.387	6	34.500	6.025	6	55.833	9.239	6	122.000	28.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 08B070 Name: SAMMAMISH R @ BOTHELL

Class: AA Elevation: 15 River Mile: 20.40

Location:
LOCATED IN BOTHELL AT 102ND STREET BRIDGE OVER SAMMAMISH RIVER

Water Years Sampled:

5	6											7												8												9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4				
X	X	X	X	X	X	X	X	X	X	X	X				X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	9.133	2.293	18	6.628	1.656	18	14.172	2.509	18	17.489	2.568	18	20.800	2.600
PRESS	P25	mmHg	762.678	8.186	18	766.311	8.772	18	766.711	5.537	18	767.347	3.990	17	777.700	743.000
OXYGEN	P300	mg/L	9.683	0.919	18	11.217	0.553	18	9.744	1.043	18	8.000	0.920	18	12.700	6.400
PCTSAT	P301	Percent	83.178	5.516	18	90.494	3.452	18	93.159	8.432	17	81.447	8.380	17	113.400	66.200
FC	P31616	#/100ml	331.765	463.176	17	157.167	174.007	18	364.118	397.864	17	542.222	568.823	18	2400.000	8.000K
PH	P400	units	7.300	0.369	16	7.289	0.153	18	7.394	0.134	16	7.333	0.157	18	8.000	6.300
SUSSOL	P530	mg/L	13.833	10.706	18	12.111	9.797	18	7.833	3.130	18	9.167	8.305	18	49.000	3.000
FLOW	P60	CFS	374.694	281.322	18	557.611	251.983	18	336.611	141.986	18	109.083	64.882	18	1000.000	27.000
NH3_N	P610	mg/L	0.049	0.017	18	0.041	0.023	18	0.029	0.019	18	0.048	0.019	16	0.115	0.010K
NO2_DIS	P613	mg/L	0.012	0.006	15	0.010	0.001	18	0.011	0.002	18	0.010	0.001	18	53.000	53.000
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010
NH3_UN	P619	mg/L	0.000	0.000	11	0.000	0.000	12	0.000	0.000	12	0.000	0.000	9	0.001	0.000
NO3_N	P620	mg/L	0.473	0.085	3	0.500	0.160	3	0.280	0.066	3	0.313	0.064	3	0.660	0.220
NO2_NO3	P630	mg/L	0.494	0.150	18	0.595	0.165	18	0.347	0.105	18	0.281	0.074	17	1.000	0.140
TP_P	P665	mg/L	0.053	0.014	16	0.056	0.030	18	0.038	0.010	18	0.056	0.016	17	0.130	0.023
OP_DIS	P671	mg/L	0.023	0.008	18	0.016	0.005	18	0.013	0.005	18	0.025	0.006	18	0.038	0.010K
COLOR	P80	Pt-Co	68.250	30.358	4	69.000	61.652	3	39.333	23.029	3	17.000	25.159	3	140.000	1.000
TURB	P82079	NTU	3.444	1.325	18	5.272	4.607	18	2.856	1.490	18	3.550	1.376	18	22.000	1.700
HARD	P900	mg/L	66.500	19.092	2	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	80.000	53.000
COND	P95	umhos	130.000	18.420	18	118.667	10.117	18	123.500	12.519	18	154.778	27.102	18	241.000	100.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 08C070 Name: CEDAR R @ LOGAN ST/RENTON

Class: A Elevation: 15 River Mile: 1.00

Location:
LOCATED AT THE BRIDGE ON LOGAN STREET IN RENTON ADJACENT TO THE SOUTHEAST CORNER OF THE RENTON AIRPORT

Water Years Sampled:

5	6						7						8						9				
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
X	X	X	X	X	X	X	X					X		X			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	8.194	2.089	18	6.639	1.369	18	11.017	1.762	18	13.989	1.732	18	17.300	3.100
PRESS	P25	mmHg	763.050	8.017	18	766.439	7.827	18	766.128	5.356	18	767.153	4.053	17	777.200	745.000
OXYGEN	P300	mg/L	11.789	0.773	18	12.367	0.510	18	11.628	0.643	18	11.056	0.625	18	13.400	10.000
PCTSAT	P301	Percent	99.150	4.531	18	99.822	3.730	18	103.965	5.003	17	105.594	4.860	17	113.700	91.100
FC	P31616	#/100ml	56.688	103.972	16	53.222	84.616	18	88.500	206.063	18	137.333	70.668	18	900.000	1.000
PH	P400	units	7.494	0.300	16	7.467	0.316	18	7.556	0.159	16	7.733	0.268	18	8.300	6.800
SUSSOL	P530	mg/L	12.889	11.851	18	30.111	55.011	18	8.222	9.046	18	11.411	16.326	18	213.000	1.000
FLOW	P60	CFS	641.611	431.761	18	824.611	787.480	18	595.056	318.823	18	190.056	67.449	18	3570.000	108.000
NH3_N	P610	mg/L	0.027	0.023	17	0.014	0.006	18	0.012	0.004	18	0.013	0.005	16	0.100	0.008
NO2_DIS	P613	mg/L	0.009	0.002	15	0.010	0.000	18	0.010	0.000	18	0.010	0.002	18	26.000	26.000
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	11	0.000	0.000	12	0.000	0.000	12	0.000	0.001	9	0.001	0.000
NO3_N	P620	mg/L	0.310	0.161	3	0.360	0.095	3	0.143	0.040	3	0.153	0.061	3	0.480	0.100
NO2_NO3	P630	mg/L	0.344	0.117	17	0.401	0.091	18	0.212	0.062	18	0.197	0.050	17	0.606	0.117
TP_P	P665	mg/L	0.024	0.010	15	0.028	0.024	18	0.014	0.006	18	0.018	0.008	17	0.110	0.006
OP_DIS	P671	mg/L	0.012	0.005	18	0.010	0.001	18	0.010	0.000	18	0.010	0.003	18	0.030	0.005K
COLOR	P80	Pt-Co	16.500	12.342	4	29.333	32.716	3	8.667	10.786	3	11.333	15.373	3	67.000	1.000
TURB	P82079	NTU	2.522	1.610	18	5.850	9.259	18	2.135	2.795	17	1.683	1.461	18	37.500	0.400
HARD	P900	mg/L	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	26.000	26.000
COND	P95	umhos	68.500	15.644	18	66.889	10.726	18	66.333	8.338	18	88.056	9.058	18	110.000	42.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 09A080 Name: GREEN R @ TUKWILA

Class: A Elevation: 4 River Mile: 12.40

Location:
LOCATED AT THE INTERSECTION ON INTERURBAN AVENUE AT I-405 AND SOUTHCENTER BLVD

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X X X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	8.214	3.069	7	5.722	2.105	9	12.722	2.392	9	17.011	2.660	9	20.800	2.200
ZN	P1094	ug/L	6.500	0.707	2	9.333	10.116	3	8.333	4.509	3	4.000	0.000	2	21.000	3.000V
CD	P1113	ug/L	0.120	0.028	2	0.107	0.012	3	0.100	0.000	3	0.100	0.000	2	0.140	0.100K
PB	P1114	ug/L	1.000	0.000	2	2.200	1.908	3	1.100	0.173	3	1.000	0.000	2	4.400	1.000K
CR	P1118	ug/L	0.980	0.028	2	4.440	6.898	3	0.490	0.096	3	0.425	0.177	2	12.400	0.200K
CU	P1119	ug/L	2.500	0.707	2	9.633	6.615	3	3.533	0.924	3	3.000	0.000	2	17.000	2.000V
PRESS	P25	mmHg	763.286	5.165	7	764.678	8.531	9	767.300	4.957	9	764.650	3.929	8	774.400	752.900
OXYGEN	P300	mg/L	11.200	1.422	7	11.889	0.575	9	9.622	0.438	9	9.122	0.897	9	13.200	8.100
PCTSAT	P301	Percent	93.714	6.262	7	93.900	2.382	9	89.289	2.330	9	93.011	8.128	9	111.200	84.100
FC	P31616	#/100ml	141.857	125.844	7	231.889	316.478	9	41.556	22.810	9	251.556	360.062	9	1200.000	3.000
PH	P400	units	7.386	0.227	7	7.222	0.277	9	7.267	0.173	9	7.311	0.226	9	7.800	6.800
SUSSOL	P530	mg/L	35.286	33.485	7	53.000	103.085	9	12.444	5.570	9	12.778	6.515	9	326.000	5.000
FLOW	P60	CFS	1593.833	1124.775	6	1515.500	937.134	6	918.167	419.552	6	454.833	280.914	6	3420.000	244.000
NH3_N	P610	mg/L	0.029	0.012	7	0.036	0.013	9	0.027	0.013	9	0.034	0.012	8	0.059	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	7	0.010	0.001	9	0.010	0.000	9	0.010	0.000	9	0.014	0.010K
NO2_NO3	P630	mg/L	0.360	0.084	7	0.441	0.116	9	0.355	0.088	9	0.311	0.067	8	0.619	0.179
TP_P	P665	mg/L	0.057	0.038	7	0.050	0.025	9	0.033	0.012	9	0.046	0.015	8	0.135	0.015
OP_DIS	P671	mg/L	0.012	0.004	7	0.016	0.009	9	0.016	0.005	9	0.019	0.005	9	0.031	0.005K
HG	P71900	ug/L	0.045	0.007	2	0.040	0.000	2	0.093	0.092	3	0.000	0.000	0	0.200	0.040K
TURB	P82079	NTU	8.429	7.075	7	15.589	29.877	9	2.567	1.383	9	3.111	0.679	9	94.500	1.400
HARD	P900	mg/L	33.500	16.263	2	22.667	6.658	3	32.667	3.215	3	55.667	5.508	3	62.000	15.000
COND	P95	umhos	69.143	23.227	7	72.444	22.108	9	99.556	19.112	9	134.222	25.307	9	162.000	38.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 09A190 Name: GREEN R @ KANASKAT

Class: AA Elevation: 775 River Mile: 57.60

Location:
LOCATED AT THE CUMBERLAND-PALMER ROAD BRIDGE AT KANASKAT, 1.1 MILES
ABOVE THE FISH HATCHERY AND 4.5 MILES BELOW THE GAGE NEAR BEAR CREEK

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X X                           X   X X X X X X X X X X X X X X X X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.278	2.397	18	4.344	1.770	18	8.944	1.834	18	13.994	1.141	18	16.100	1.700
PRESS	P25	mmHg	746.644	10.852	18	742.733	5.613	18	743.528	8.476	18	743.247	4.958	17	785.000	731.000
OXYGEN	P300	mg/L	11.822	1.006	18	12.656	0.636	18	11.511	0.799	18	10.067	0.443	18	13.600	9.300
PCTSAT	P301	Percent	99.256	5.142	18	99.411	3.850	18	101.047	4.942	17	99.159	2.849	17	111.300	85.900
FC	P31616	#/100ml	20.833	29.754	18	2.625	3.160	16	12.167	23.662	18	22.778	27.955	18	130.000	1.000K
PH	P400	units	7.313	0.600	16	7.467	0.532	18	7.324	0.396	17	7.222	0.351	18	8.500	6.300
SUSSOL	P530	mg/L	12.444	23.380	18	2.722	1.708	18	2.833	2.149	18	2.378	1.123	18	100.000	1.000K
FLOW	P60	CFS	1583.672	1683.803	18	944.500	575.070	18	1077.833	780.418	18	181.222	65.754	18	6100.000	59.700
NH3_N	P610	mg/L	0.011	0.003	18	0.011	0.004	18	0.011	0.002	18	0.016	0.010	17	0.050	0.006
NO2_DIS	P613	mg/L	0.009	0.002	15	0.010	0.000	17	0.010	0.000	18	0.010	0.002	18	0.010	0.002K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	9	0.000	0.000	11	0.000	0.000	12	0.000	0.000	9	0.001	0.000
NO3_N	P620	mg/L	0.165	0.064	2	0.073	0.065	3	0.047	0.012	3	0.037	0.012	3	0.210	0.010K
NO2_NO3	P630	mg/L	0.164	0.084	18	0.152	0.044	18	0.060	0.033	18	0.051	0.013	17	0.330	0.026
TP_P	P665	mg/L	0.017	0.007	16	0.021	0.022	17	0.013	0.004	17	0.010	0.001	17	0.100	0.009J
OP_DIS	P671	mg/L	0.011	0.005	18	0.010	0.002	17	0.010	0.000	17	0.010	0.002	18	0.030	0.003J
COLOR	P80	Pt-Co	9.667	2.887	3	6.667	2.309	3	15.667	4.619	3	12.143	8.611	7	29.000	1.000
TURB	P82079	NTU	3.961	6.058	18	1.506	0.917	18	1.950	1.815	18	1.617	2.384	18	26.000	0.200
COND	P95	umhos	53.944	25.432	18	43.333	6.962	18	42.056	7.207	18	59.778	14.627	18	140.000	30.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 10A070 Name: PUYALLUP R @ MERIDIAN ST

Class: A Elevation: 30 River Mile: 8.30

Location:
LOCATED AT THE BRIDGE IMMEDIATELY NORTH OF PUYALLUP ON MERIDIAN STREET
(STATE HIGHWAY 161)

Water Years Sampled:

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5 6                 7                   8                   9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                      X       X     X X X X X X X X X X X X X X X X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	6.606	2.534	18	5.689	1.851	18	11.339	1.929	18	13.672	1.539	18	16.100	2.000
PRESS	P25	mmHg	768.233	5.887	18	767.356	6.799	18	764.039	5.301	18	765.228	4.599	18	781.300	753.900
OXYGEN	P300	mg/L	12.133	0.977	18	12.329	0.772	17	10.889	0.737	18	10.211	0.532	18	14.600	9.300
PCTSAT	P301	Percent	97.350	4.827	18	97.365	4.328	17	98.353	4.210	17	96.929	4.655	17	111.100	90.200
FC	P31616	#/100ml	240.529	355.829	17	187.389	338.158	18	456.111	826.444	18	322.222	373.658	18	3200.000	13.000
COD	P340	mg/L	7.333	1.871	9	10.667	11.779	9	7.875	5.055	8	6.714	1.604	7	41.000	4.000U
PH	P400	units	7.561	0.390	18	7.294	0.163	18	7.417	0.209	18	7.465	0.226	17	8.800	7.000
SUSSOL	P530	mg/L	75.333	140.327	18	83.944	188.204	18	59.056	111.490	18	212.389	189.074	18	704.000	3.000
FLOW	P60	CFS	3276.611	2960.076	18	4487.222	3200.492	18	3482.222	828.674	18	1996.111	693.416	18	13500.000	636.000
NH3_N	P610	mg/L	0.034	0.018	18	0.034	0.016	18	0.024	0.009	17	0.030	0.014	18	0.080	0.010K
NO2_DIS	P613	mg/L	0.010	0.002	16	0.010	0.000	18	0.010	0.000	17	0.010	0.002	18	30.000	30.000
NO2_N	P615	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.000	14	0.000	0.000	10	0.000	0.000	9	0.001	0.000
NO3_N	P620	mg/L	0.270	0.142	3	0.313	0.068	3	0.085	0.007	2	0.087	0.031	3	0.390	0.060
NO2_NO3	P630	mg/L	0.303	0.171	18	0.385	0.140	18	0.125	0.048	17	0.096	0.030	18	0.691	0.060
TP_P	P665	mg/L	0.076	0.057	18	0.073	0.070	17	0.047	0.039	16	0.152	0.091	18	0.380	0.010K
OP_DIS	P671	mg/L	0.020	0.010	18	0.019	0.008	17	0.015	0.006	17	0.024	0.009	18	0.050	0.010K
COLOR	P80	Pt-Co	37.667	8.505	3	47.667	26.858	3	25.333	7.506	3	486.667	326.548	3	690.000	17.000
TURB	P82079	NTU	16.128	25.131	18	11.772	21.787	18	15.317	31.807	18	71.833	56.570	18	186.000	1.000
COND	P95	umhos	75.722	21.009	18	70.444	10.194	18	61.111	7.226	18	71.556	15.975	18	123.000	41.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 10A110 Name: PUYALLUP R @ ORTING

Class: A Elevation: 200 River Mile: 22.20

Location:
LOCATED AT THE BRIDGE ON THE ORTING-KAPOWSIN ROAD (OLD SOLDIERS HOME ROAD), JUST SOUTHWEST OF ORTING

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X X X   X X X X X X X X X X       X   X X X X X X X X X X X X X   X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	4.800	2.307	15	4.393	1.956	15	8.967	0.993	15	9.853	1.245	15	11.800	0.500
PRESS	P25	mmHg	763.373	3.783	15	762.267	6.582	15	760.427	4.565	15	761.353	4.824	15	772.000	750.800
OXYGEN	P300	mg/L	12.947	1.051	15	12.892	0.633	13	11.873	0.548	15	11.513	0.434	15	15.500	10.900
PCTSAT	P301	Percent	100.007	6.019	15	100.192	4.115	13	102.250	4.994	14	101.086	4.220	14	114.200	88.100
FC	P31616	#/100ml	17.571	21.908	14	10.200	14.800	15	50.333	76.916	15	20.667	17.467	15	266.000	1.000K
PH	P400	units	7.620	0.224	15	7.313	0.256	15	7.453	0.309	15	7.414	0.263	14	8.000	6.800
SUSSOL	P530	mg/L	33.200	48.586	15	122.333	327.455	15	31.867	32.240	15	385.667	326.683	15	1200.000	1.000K
FLOW	P60	CFS	681.467	624.360	15	888.067	777.986	15	746.000	185.722	15	565.933	198.124	15	2910.000	130.000
NH3_N	P610	mg/L	0.013	0.008	15	0.013	0.005	15	0.017	0.011	14	0.014	0.007	15	0.049	0.010K
NO2_DIS	P613	mg/L	0.009	0.002	13	0.010	0.000	15	0.010	0.000	14	0.010	0.002	15	0.011	0.002
NO2_N	P615	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.000	13	0.000	0.000	10	0.000	0.001	9	0.002	0.000
NO3_N	P620	mg/L	0.197	0.100	3	0.160	0.072	3	0.030	0.000	2	0.013	0.006	3	0.300	0.010
NO2_NO3	P630	mg/L	0.193	0.138	15	0.220	0.094	15	0.053	0.029	14	0.031	0.015	15	0.466	0.010K
TP_P	P665	mg/L	0.054	0.047	14	0.065	0.108	14	0.034	0.026	13	0.216	0.100	15	0.415	0.010K
OP_DIS	P671	mg/L	0.010	0.002	14	0.010	0.000	14	0.010	0.000	14	0.011	0.003	15	0.019	0.004
COLOR	P80	Pt-Co	38.667	9.815	3	28.000	23.516	3	17.000	21.932	3	683.333	165.025	3	820.000	1.000
TURB	P82079	NTU	9.240	9.993	15	15.247	39.628	15	9.260	8.478	15	148.600	123.931	15	485.000	1.000
COND	P95	umhos	69.467	16.801	15	59.867	10.696	15	54.000	6.000	15	56.933	12.606	15	99.000	36.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 10B070 Name: CARBON R NR ORTING

Class: A Elevation: 290 River Mile: 18.00

Location:
LOCATED AT THE BRIDGE ON STATE HIGHWAY 162, 2.3 MILES EAST OF ORTING
ABOVE SOUTH PRAIRIE CREEK

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
						X	X					X	X																						X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	4.167	2.801	3	4.133	2.542	3	8.067	1.021	3	10.100	1.212	3	11.200	1.200
PRESS	P25	mmHg	758.967	4.788	3	757.267	5.101	3	761.300	3.736	3	761.467	4.148	3	765.300	752.100
OXYGEN	P300	mg/L	12.433	0.252	3	12.350	0.071	2	11.700	0.265	3	11.433	0.306	3	12.700	11.100
PCTSAT	P301	Percent	95.267	7.191	3	98.400	0.707	2	98.467	0.681	3	100.900	3.242	3	104.400	87.400
FC	P31616	#/100ml	12.333	4.163	3	4.667	3.215	3	12.667	17.673	3	28.000	34.699	3	68.000	1.000
PH	P400	units	7.667	0.058	3	7.200	0.200	3	7.367	0.351	3	7.300	0.283	2	7.700	7.000
SUSSOL	P530	mg/L	83.333	107.918	3	259.333	242.368	3	54.000	73.301	3	100.000	96.814	3	489.000	3.000
FLOW	P60	CFS	533.333	514.328	3	1339.667	1106.937	3	640.667	230.567	3	302.333	164.211	3	2300.000	121.000
NH3_N	P610	mg/L	0.012	0.003	3	0.014	0.007	3	0.031	0.027	3	0.012	0.003	3	0.062	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	0.171	0.144	3	0.159	0.041	3	0.072	0.034	3	0.039	0.022	3	0.289	0.010K
TP_P	P665	mg/L	0.065	0.095	3	0.064	0.049	3	0.053	0.063	3	0.054	0.010	3	0.174	0.010K
OP_DIS	P671	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.011	0.001	3	0.012	0.010K
TURB	P82079	NTU	9.067	8.931	3	30.500	28.831	3	16.733	20.562	3	45.333	26.558	3	76.000	0.500
COND	P95	umhos	37.667	11.846	3	34.667	20.232	3	30.333	6.807	3	39.000	8.660	3	58.000	22.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 10C070 Name: WHITE R @ SUMNER

Class: A Elevation: 50 River Mile: 0.70

Location:
AT BRIDGE ON MAIN STREET IN SUMNER

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                      X X         X X X X X X X X X X X X X   X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.187	3.101	15	5.333	1.684	15	11.920	2.000	15	14.567	3.238	15	18.000	2.800
PRESS	P25	mmHg	767.433	3.491	15	766.067	7.067	15	764.153	4.458	15	764.653	4.680	15	777.000	753.900
OXYGEN	P300	mg/L	11.727	1.152	15	12.314	0.718	14	10.700	0.787	15	9.640	0.747	15	14.300	8.800
PCTSAT	P301	Percent	95.320	4.509	15	96.593	3.912	14	97.971	4.980	14	93.150	7.663	14	108.900	74.300
FC	P31616	#/100ml	147.000	248.249	13	337.200	701.465	15	613.800	1220.348	15	358.867	610.026	15	4600.000	7.000
PH	P400	units	7.667	0.279	15	7.327	0.335	15	7.433	0.232	15	7.343	0.116	14	8.500	6.600
SUSSOL	P530	mg/L	79.000	165.132	14	75.933	159.655	15	29.933	57.204	15	54.733	88.649	15	483.000	2.000
FLOW	P60	CFS	1881.800	2514.306	15	2324.800	1594.627	15	1899.333	496.581	15	1033.867	393.729	15	10500.000	211.000
NH3_N	P610	mg/L	0.038	0.025	15	0.040	0.024	15	0.021	0.010	14	0.027	0.013	15	0.100	0.010K
NO2_DIS	P613	mg/L	0.010	0.002	13	0.010	0.000	15	0.010	0.000	14	0.010	0.002	15	0.012	0.002
NO2_N	P615	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.000	14	0.000	0.000	10	0.000	0.000	9	0.001	0.000
NO3_N	P620	mg/L	0.203	0.150	3	0.257	0.031	3	0.060	0.014	2	0.063	0.032	3	0.360	0.040
NO2_NO3	P630	mg/L	0.290	0.205	15	0.368	0.172	15	0.083	0.050	14	0.066	0.037	15	0.715	0.020
TP_P	P665	mg/L	0.075	0.060	14	0.078	0.074	14	0.030	0.017	13	0.078	0.067	15	0.290	0.010K
OP_DIS	P671	mg/L	0.019	0.014	15	0.020	0.014	14	0.011	0.002	14	0.022	0.010	15	0.060	0.010K
COLOR	P80	Pt-Co	29.000	4.000	3	63.000	44.978	3	12.667	4.509	3	180.000	51.962	3	210.000	8.000
TURB	P82079	NTU	20.193	35.301	15	9.980	15.439	15	6.587	6.095	15	27.247	30.128	15	128.000	1.800
COND	P95	umhos	75.667	19.430	15	70.133	10.176	15	61.000	7.690	15	74.067	14.119	15	122.000	45.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 10C130 Name: WHITE R @ BUCKLEY

Class: A Elevation: 665 River Mile: 23.10

Location:
US HIGHWAY 410 BRIDGE, 1 MILE NORTH OF BUCKLEY

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	5.850	2.192	2	4.333	2.454	3	9.167	1.617	3	11.667	0.896	3	12.700	1.500
PRESS	P25	mmHg	749.533	3.513	3	747.533	4.155	3	751.667	3.980	3	751.400	3.418	3	755.900	743.500
OXYGEN	P300	mg/L	12.100	0.265	3	12.767	0.666	3	11.333	0.351	3	10.833	0.208	3	13.500	10.600
PCTSAT	P301	Percent	93.333	9.192	3	99.567	1.701	3	99.133	1.041	3	100.500	3.966	3	104.900	83.000
FC	P31616	#/100ml	398.667	460.679	3	135.667	102.256	3	604.667	649.358	3	72.667	56.518	3	1300.000	14.000
PH	P400	units	7.633	0.351	3	7.233	0.321	3	7.300	0.265	3	7.300	0.141	2	8.000	7.000
SUSSOL	P530	mg/L	166.667	266.175	3	372.333	367.533	3	35.333	43.247	3	53.667	17.010	3	737.000	2.000
FLOW	P60	CFS	490.667	580.077	3	1828.000	1489.044	3	373.667	405.678	3	295.333	158.450	3	2930.000	131.000
NH3_N	P610	mg/L	0.045	0.049	3	0.025	0.018	3	0.027	0.013	3	0.020	0.006	3	0.102	0.013
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	0.455	0.520	3	0.222	0.103	3	0.132	0.106	3	0.062	0.032	3	1.040	0.031
TP_P	P665	mg/L	0.054	0.038	3	0.142	0.119	3	0.043	0.009	3	0.046	0.005	3	0.240	0.010
OP_DIS	P671	mg/L	0.018	0.013	3	0.010	0.000	3	0.015	0.008	3	0.015	0.005	3	0.033	0.010K
TURB	P82079	NTU	15.267	13.131	3	42.200	41.744	3	11.500	5.220	3	39.667	18.175	3	85.000	1.600
COND	P95	umhos	64.333	17.010	3	44.333	11.930	3	73.667	38.837	3	61.000	8.544	3	117.000	36.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 10F090 Name: SOUTH PRAIRIE CK NR S. PRAIRIE Class: A Elevation: 345 River Mile: 3.80

Location:
LOCATED AT THE FIRST BRIDGE CROSSING ON STATE HIGHWAY 162 WEST OF SOUTH PRAIRIE

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	4.800	2.862	3	4.467	3.009	3	9.867	2.098	3	11.367	0.709	3	12.000	1.000
PRESS	P25	mmHg	757.233	3.844	3	755.033	4.964	3	759.267	4.661	3	759.967	3.951	3	764.300	750.300
OXYGEN	P300	mg/L	12.000	0.346	3	11.800	0.424	2	10.933	0.651	3	10.933	0.306	3	12.200	10.300
PCTSAT	P301	Percent	93.767	8.667	3	95.650	1.909	2	96.100	1.510	3	99.500	1.873	3	102.100	84.800
FC	P31616	#/100ml	54.667	37.072	3	316.667	420.040	3	1142.667	1192.418	3	190.333	217.385	3	2400.000	13.000
PH	P400	units	7.500	0.200	3	7.133	0.321	3	7.433	0.231	3	7.500	0.141	2	7.700	6.900
SUSSOL	P530	mg/L	9.000	11.358	3	55.333	50.203	3	6.000	5.292	3	3.000	1.732	3	100.000	1.000
FLOW	P60	CFS	429.000	411.822	3	1144.667	931.582	3	320.000	95.357	3	132.000	115.469	3	1770.000	45.000
NH3_N	P610	mg/L	0.012	0.002	3	0.023	0.009	3	0.028	0.021	3	0.011	0.002	3	0.052	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	0.691	0.319	3	0.677	0.050	3	0.333	0.064	3	0.380	0.076	3	0.891	0.292
TP_P	P665	mg/L	0.016	0.007	3	0.050	0.039	3	0.021	0.008	3	0.016	0.006	3	0.089	0.010K
OP_DIS	P671	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.001	3	0.011	0.010K
TURB	P82079	NTU	2.667	2.411	3	17.233	16.164	3	2.233	1.429	3	1.100	0.400	3	33.000	0.400
COND	P95	umhos	68.333	23.180	3	48.333	25.736	3	55.667	2.517	3	87.667	27.025	3	108.000	32.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 11A070 Name: NISQUALLY R @ NISQUALLY

Class: A Elevation: 20 River Mile: 3.40

Location:
LOCATED AT THE BRIDGE ON OLD PACIFIC HIGHWAY, .4 MILES DOWNSTREAM FROM THE GAGE

Water Years Sampled:

5 6												7												8												9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4				
														X			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.878	2.822	18	6.133	1.408	18	10.789	1.712	18	14.522	0.921	18	16.400	2.700
ZN	P1094	ug/L	8.500	11.650	12	5.000	2.045	12	5.333	5.211	12	4.700	3.561	10	43.000	1.000K
CD	P1113	ug/L	0.225	0.092	10	0.175	0.045	12	0.254	0.273	12	0.150	0.071	10	1.000	0.100K
PB	P1114	ug/L	1.930	2.837	10	1.636	1.789	11	1.117	0.404	12	1.420	0.835	10	10.000	1.000K
CR	P1118	ug/L	1.128	1.477	9	0.668	0.358	12	0.998	1.050	12	0.878	0.536	10	5.000	0.200V
CU	P1119	ug/L	3.944	1.747	9	3.533	2.355	12	3.383	1.612	12	3.550	0.906	8	10.000	1.000U
PRESS	P25	mmHg	768.311	5.307	18	766.500	7.208	18	764.683	5.281	18	765.422	4.299	18	782.300	752.600
OXYGEN	P300	mg/L	11.817	0.934	18	12.382	0.979	17	11.522	0.828	18	10.422	0.577	18	14.100	9.500
PCTSAT	P301	Percent	97.772	5.072	18	98.906	6.182	17	102.524	5.504	17	100.894	5.763	17	116.500	88.500
FC	P31616	#/100ml	86.412	239.019	17	63.333	151.099	18	19.833	31.472	18	18.500	12.152	18	1000.000	1.000K
COD	P340	mg/L	6.889	2.804	9	8.222	4.994	9	7.625	2.615	8	8.714	8.261	7	27.000	4.000K
PH	P400	units	7.667	0.356	18	7.483	0.350	18	7.600	0.427	18	7.718	0.260	17	8.500	6.600
SUSSOL	P530	mg/L	42.278	71.352	18	25.056	46.890	18	7.167	5.586	18	16.033	23.446	18	312.000	2.000
FLOW	P60	CFS	2127.222	1046.197	18	3093.333	1076.672	18	2070.556	648.641	18	1078.611	220.893	18	5200.000	740.000
NH3_N	P610	mg/L	0.024	0.009	18	0.020	0.013	18	0.012	0.003	17	0.012	0.003	18	0.050	0.010K
NO2_DIS	P613	mg/L	0.010	0.002	16	0.010	0.000	18	0.010	0.000	17	0.010	0.002	18	0.010	0.003
NO2_N	P615	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.000	14	0.000	0.000	10	0.000	0.000	9	0.001	0.000
NO3_N	P620	mg/L	0.243	0.111	3	0.387	0.042	3	0.195	0.049	2	0.113	0.049	3	0.420	0.080
NO2_NO3	P630	mg/L	0.257	0.126	18	0.410	0.092	18	0.209	0.072	17	0.137	0.038	18	0.570	0.080
TP_P	P665	mg/L	0.080	0.100	18	0.050	0.043	18	0.019	0.007	16	0.028	0.024	18	0.410	0.010K
OP_DIS	P671	mg/L	0.010	0.001	18	0.011	0.003	18	0.010	0.000	17	0.010	0.001	18	0.020	0.009
HG	P71900	ug/L	0.064	0.026	12	0.087	0.132	12	0.060	0.028	10	0.053	0.028	9	0.500	0.001K
COLOR	P80	Pt-Co	51.667	16.743	3	71.333	54.976	3	18.000	8.888	3	124.667	84.056	3	200.000	8.000
TURB	P82079	NTU	42.356	82.055	18	12.128	15.571	18	2.783	1.984	18	9.039	12.762	18	325.000	1.000
HARD	P900	mg/L	27.000	4.452	12	24.500	4.056	12	25.083	5.125	12	26.500	1.977	12	39.000	20.000
COND	P95	umhos	66.833	8.549	18	64.222	8.143	18	63.278	5.222	18	68.444	5.216	18	84.000	48.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 11A080 Name: NISQUALLY R @ MCKENNA

Class: A Elevation: 290 River Mile: 21.80

Location:
LOCATED ON HIGHWAY 507 BRIDGE 1.5 MILES SOUTHEAST OF YELM JUST BEFORE ENTERING MCKENNA ON THE PIERCE-THURSTON COUNTY LINE

Water Years Sampled:

5	6							7								8								9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
X	X	X	X	X	X	X	X	X	X	X	X														X	X	X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.150	2.891	6	4.483	1.703	6	8.922	1.561	9	12.511	1.058	9	14.700	2.200
PRESS	P25	mmHg	758.417	5.572	6	756.850	5.741	6	757.567	3.872	9	759.289	3.973	9	766.100	748.500
OXYGEN	P300	mg/L	11.683	1.295	6	12.080	0.618	5	11.378	0.474	9	10.444	0.283	9	14.100	9.800
PCTSAT	P301	Percent	96.100	6.175	6	94.380	1.787	5	98.156	3.039	9	97.600	1.795	9	108.300	91.400
FC	P31616	#/100ml	65.000	54.877	5	94.500	143.926	6	91.444	232.079	9	15.889	10.588	9	710.000	1.000
PH	P400	units	7.567	0.216	6	7.033	0.225	6	7.411	0.293	9	7.525	0.345	8	8.100	6.700
SUSSOL	P530	mg/L	80.333	110.545	6	65.167	120.400	6	8.222	6.667	9	4.356	5.722	9	309.000	1.000
FLOW	P60	CFS	1617.333	735.567	6	1666.000	972.485	6	1304.778	674.027	9	450.778	66.889	9	3080.000	370.000
NH3_N	P610	mg/L	0.035	0.014	6	0.030	0.018	6	0.014	0.004	9	0.011	0.001	9	0.060	0.010K
NO2_DIS	P613	mg/L	0.009	0.003	6	0.010	0.000	6	0.010	0.000	9	0.009	0.003	9	0.010	0.001
NO2_NO3	P630	mg/L	0.327	0.164	6	0.378	0.103	6	0.162	0.058	9	0.081	0.039	9	0.594	0.040
TP_P	P665	mg/L	0.083	0.085	6	0.092	0.091	5	0.016	0.010	9	0.104	0.280	9	0.850	0.010K
OP_DIS	P671	mg/L	0.010	0.001	6	0.010	0.000	5	0.010	0.000	9	0.010	0.001	9	0.011	0.006
TURB	P82079	NTU	53.233	75.214	6	25.150	30.423	6	4.400	2.793	9	5.356	7.820	9	205.000	1.000
COND	P95	umhos	54.333	6.593	6	53.667	8.091	6	56.333	5.339	9	57.333	4.213	9	66.000	42.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 12A070 Name: CHAMBERS CR NR STEILACOOM

Class: A Elevation: 40 River Mile: 0.90

Location:
LOCATED AT CHAMBERS CREEK ROAD BRIDGE, 1.5 MILES NORTHEAST OF STEILACOOM
AT THE HEAD OF CHAMBERS BAY, 2.2 MILES DOWNSTREAM OF GAGE

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
				X	X	X	X	X				X	X			X								X	X	X	X	X	X	X		X			

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	8.887	2.292	15	8.620	2.001	15	14.607	1.606	15	14.553	1.690	15	18.000	5.000
PRESS	P25	mmHg	768.560	3.252	15	766.580	7.360	15	764.987	4.603	15	766.113	4.546	15	778.000	753.900
OXYGEN	P300	mg/L	11.280	1.041	15	11.371	0.633	14	10.133	0.558	15	9.680	1.242	15	13.600	8.600
PCTSAT	P301	Percent	95.573	5.407	15	96.657	4.611	14	98.407	5.424	14	93.271	12.324	14	117.300	77.200
FC	P31616	#/100ml	282.923	585.500	13	596.667	1829.119	15	113.533	244.506	15	155.733	228.946	15	7100.000	3.000K
PH	P400	units	7.627	0.225	15	7.553	0.409	15	7.587	0.264	15	7.643	0.282	14	8.900	6.900
SUSSOL	P530	mg/L	5.933	3.240	15	9.933	4.978	15	5.857	4.786	14	4.373	2.531	15	21.000	1.000K
FLOW	P60	CFS	98.813	63.911	15	140.053	54.811	15	92.933	24.218	15	45.467	11.526	15	255.000	20.200
NH3_N	P610	mg/L	0.062	0.124	15	0.035	0.027	15	0.028	0.010	14	0.035	0.012	15	0.510	0.011
NO2_DIS	P613	mg/L	0.011	0.004	13	0.010	0.000	15	0.010	0.000	14	0.010	0.001	14	0.021	0.008
NO2_N	P615	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.013	0.006	3	0.010	0.010
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.000	14	0.000	0.000	10	0.000	0.000	9	0.001	0.000
NO3_N	P620	mg/L	1.127	0.361	3	1.333	0.321	3	1.100	0.141	2	1.333	0.252	3	1.700	0.780
NO2_NO3	P630	mg/L	1.037	0.272	15	1.279	0.272	14	1.124	0.167	14	1.256	0.162	14	1.780	0.500
TP_P	P665	mg/L	0.085	0.047	15	0.057	0.027	15	0.041	0.015	13	0.057	0.012	15	0.190	0.010K
OP_DIS	P671	mg/L	0.039	0.033	15	0.019	0.009	14	0.018	0.007	14	0.039	0.012	15	0.150	0.010K
COLOR	P80	Pt-Co	30.667	10.599	3	30.667	17.243	3	9.000	6.928	3	71.000	70.873	3	150.000	1.000
TURB	P82079	NTU	1.753	1.090	15	2.133	0.885	15	1.613	0.950	15	3.880	10.551	15	42.000	0.500
COND	P95	umhos	161.000	27.684	15	150.533	18.807	15	160.667	13.610	15	184.333	15.981	15	221.000	109.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 13A060 Name: DESCHUTES R @ E ST BRIDGE

Class: A Elevation: 93 River Mile: 0.60

Location:
LOCATED AT THE BRIDGE ON E STREET, IMMEDIATELY SOUTH OF THE OLYMPIA BREWING COMPANY AND ADJACENT TO THE ENTRANCE OF THE TUMWATER VALLEY GOLF COURSE

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                                        X X X X X X X X X X X X X X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.667	2.281	18	7.422	1.719	18	13.639	2.292	18	16.267	2.534	18	20.500	4.600
ZN	P1094	ug/L	5.444	2.404	9	4.333	1.371	12	7.083	7.292	12	4.000	2.864	11	28.000	1.000K
CD	P1113	ug/L	0.193	0.037	9	0.317	0.501	12	0.203	0.142	12	0.203	0.141	11	1.900	0.100K
PB	P1114	ug/L	1.311	0.584	9	1.182	0.371	11	1.758	2.330	12	1.550	0.824	10	9.100	1.000K
CR	P1118	ug/L	1.210	1.460	9	0.763	0.498	12	0.968	1.311	12	0.670	0.430	10	5.000	0.200K
CU	P1119	ug/L	2.533	1.424	6	2.567	0.998	12	2.925	1.173	12	4.667	3.606	9	14.000	1.000U
PRESS	P25	mmHg	764.317	6.645	18	763.672	5.894	18	760.311	5.734	18	760.539	6.346	18	779.000	748.000
OXYGEN	P300	mg/L	11.617	0.741	18	11.788	0.736	17	10.894	0.919	18	10.922	0.668	18	13.400	9.600
PCTSAT	P301	Percent	96.339	5.935	18	97.706	4.454	17	104.406	8.225	17	110.718	9.199	17	128.900	88.200
FC	P31616	#/100ml	89.313	147.912	16	61.056	90.336	18	144.444	467.105	18	49.059	72.829	17	2000.000	1.000K
COD	P340	mg/L	6.000	2.828	2	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
PH	P400	units	7.550	0.517	18	7.239	0.301	18	7.467	0.281	18	7.800	0.297	18	9.400	6.600
SUSSOL	P530	mg/L	35.444	86.012	18	16.941	24.237	17	5.588	5.063	17	3.767	1.484	18	368.000	1.000K
FLOW	P60	CFS	413.600	399.375	18	716.889	724.924	18	270.611	167.171	18	98.667	29.908	18	3270.000	46.000
NH3_N	P610	mg/L	0.017	0.010	18	0.019	0.011	18	0.018	0.014	17	0.014	0.005	18	0.066	0.009
NO2_DIS	P613	mg/L	0.010	0.001	15	0.010	0.000	18	0.010	0.000	18	0.010	0.001	18	0.010	0.007
NO2_N	P615	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.001	13	0.000	0.000	13	0.000	0.000	10	0.001	0.003	9	0.010	0.000
NO3_N	P620	mg/L	0.493	0.038	3	0.483	0.021	3	0.420	0.028	2	0.473	0.083	3	0.540	0.380
NO2_NO3	P630	mg/L	0.572	0.111	18	0.571	0.095	18	0.503	0.114	17	0.607	0.175	18	0.810	0.010K
TP_P	P665	mg/L	0.043	0.029	18	0.043	0.024	18	0.026	0.012	16	0.026	0.006	18	0.100	0.010K
OP_DIS	P671	mg/L	0.012	0.004	17	0.014	0.005	18	0.011	0.003	18	0.015	0.005	18	0.024	0.010K
HG	P71900	ug/L	0.052	0.012	11	0.086	0.138	11	0.051	0.020	10	0.054	0.028	9	0.500	0.001K
COLOR	P80	Pt-Co	67.000	54.617	3	25.000	22.113	3	21.000	13.000	3	30.667	6.658	3	130.000	8.000
TURB	P82079	NTU	9.947	21.393	17	9.311	13.973	18	1.883	1.578	18	1.506	0.558	17	87.000	0.700
HARD	P900	mg/L	38.909	7.148	11	33.167	5.952	12	38.167	5.408	12	53.583	21.757	12	122.000	25.000
COND	P95	umhos	99.667	24.125	18	82.667	15.068	18	104.833	13.648	18	129.167	11.577	18	160.000	46.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 13A150 Name: DESCHUTES R NR RAINIER

Class: A Elevation: 370 River Mile: 21.61

Location:
LOCATED AT THE BRIDGE BETWEEN RAINIER AND TENINO ON STATE HIGHWAY 507

Water Years Sampled:

5 6										7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
													X			X			X	X	X	X	X	X	X	X	X	X	X	X	X		X		

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	6.753	2.581	15	5.340	1.450	15	11.287	1.979	15	14.153	1.985	15	17.200	2.700
PRESS	P25	mmHg	759.507	5.774	15	758.693	7.147	15	757.207	4.786	15	758.593	5.504	15	773.000	739.900
OXYGEN	P300	mg/L	11.679	1.163	14	11.985	0.678	13	10.633	1.000	15	9.487	0.487	15	14.300	8.600
PCTSAT	P301	Percent	94.436	4.969	14	95.354	4.208	13	96.850	7.103	14	91.557	4.163	14	111.100	86.200
FC	P31616	#/100ml	28.571	32.907	14	24.600	34.056	15	49.333	24.982	15	48.643	27.709	14	130.000	1.000K
PH	P400	units	7.720	0.338	15	7.260	0.383	15	7.507	0.353	15	7.533	0.241	15	8.500	6.600
SUSSOL	P530	mg/L	8.200	12.791	15	10.071	15.838	14	3.857	4.786	14	2.723	1.722	13	63.000	1.000K
FLOW	P60	CFS	247.900	192.069	15	445.867	359.893	15	170.200	116.119	15	49.400	17.146	15	1460.000	28.000
NH3_N	P610	mg/L	0.014	0.007	15	0.017	0.013	15	0.013	0.005	14	0.014	0.006	14	0.060	0.010K
NO2_DIS	P613	mg/L	0.009	0.002	13	0.010	0.000	15	0.010	0.000	15	0.010	0.002	15	0.010	0.003
NO2_N	P615	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.000	13	0.000	0.000	10	0.000	0.000	9	0.001	0.000
NO3_N	P620	mg/L	0.377	0.045	3	0.363	0.038	3	0.325	0.064	2	0.357	0.090	3	0.450	0.270
NO2_NO3	P630	mg/L	0.424	0.145	15	0.444	0.079	15	0.319	0.077	14	0.460	0.089	15	0.813	0.220
TP_P	P665	mg/L	0.032	0.026	15	0.053	0.046	14	0.019	0.007	13	0.022	0.008	14	0.180	0.010K
OP_DIS	P671	mg/L	0.010	0.003	15	0.013	0.005	14	0.010	0.000	14	0.011	0.001	14	0.020	0.007
COLOR	P80	Pt-Co	61.667	42.099	3	31.000	21.633	3	32.333	6.658	3	32.000	12.767	3	110.000	13.000
TURB	P82079	NTU	4.000	5.271	15	6.253	6.297	15	2.240	1.526	15	1.573	0.870	15	22.000	0.700
COND	P95	umhos	92.133	22.437	15	75.933	16.307	15	94.267	18.464	15	130.867	14.147	15	157.000	50.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 16A070 Name: SKOKOMISH R NR POTLATCH

Class: AA Elevation: 60 River Mile: 5.30

Location:
LOCATED AT HIGHWAY 101 BRIDGE ON THE SKOKOMISH RIVER APPROXIMATELY EIGHT MILES NORTH OF SHELTON

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
  X X X X X X X X   X X   X X X       X X X       X X X X X X X X X X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.233	1.160	18	6.167	1.087	18	9.561	1.515	18	10.694	1.049	18	12.900	4.500
PRESS	P25	mmHg	768.633	7.197	18	769.778	6.252	18	766.111	5.963	18	766.972	5.541	18	779.800	752.600
OXYGEN	P300	mg/L	11.412	0.931	17	12.012	0.470	17	11.117	0.785	18	10.089	0.388	18	13.300	8.900
PCTSAT	P301	Percent	92.982	7.152	17	95.512	2.580	17	96.441	4.992	17	89.582	4.595	17	108.100	74.300
FC	P31616	#/100ml	10.882	12.262	17	4.333	3.896	18	24.222	28.548	18	37.444	60.239	18	270.000	1.000K
PH	P400	units	7.422	0.502	18	7.111	0.461	18	7.239	0.457	18	7.441	0.248	17	8.300	6.300
SUSSOL	P530	mg/L	25.056	44.818	18	17.944	32.540	18	11.500	21.016	18	2.189	1.703	18	168.000	1.000K
FLOW	P60	CFS	1677.056	2247.347	18	2071.111	2494.646	18	801.889	656.223	18	228.389	83.719	18	11300.000	107.000
NH3_N	P610	mg/L	0.015	0.006	18	0.014	0.007	18	0.012	0.003	17	0.014	0.005	18	0.030	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	15	0.010	0.000	18	0.010	0.000	18	0.010	0.002	17	0.010	0.003
NO2_N	P615	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.001	13	0.000	0.000	10	0.000	0.000	9	0.003	0.000
NO3_N	P620	mg/L	0.130	0.072	3	0.073	0.025	3	0.040	0.000	2	0.047	0.012	3	0.210	0.040
NO2_NO3	P630	mg/L	0.130	0.035	18	0.108	0.023	18	0.057	0.013	17	0.075	0.025	18	0.209	0.030
TP_P	P665	mg/L	0.031	0.032	18	0.029	0.028	18	0.013	0.004	16	0.014	0.006	17	0.112	0.008
OP_DIS	P671	mg/L	0.011	0.003	17	0.010	0.000	18	0.011	0.002	18	0.010	0.001	17	0.020	0.004
COLOR	P80	Pt-Co	15.333	12.662	3	5.333	2.309	3	12.500	12.021	2	8.333	4.509	3	29.000	4.000
TURB	P82079	NTU	8.744	15.106	18	9.247	14.198	17	3.594	7.512	18	1.044	0.565	18	58.000	0.300
COND	P95	umhos	66.944	13.981	18	59.278	9.916	18	68.056	10.212	18	79.611	9.739	18	112.000	43.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 22A070 Name: HUMPTULIPS R NR HUMPTULIPS

Class: A Elevation: 145 River Mile: 23.60

Location:
LOCATED AT THE BRIDGE ON HIGHWAY 101, JUST SOUTH OF HUMPTULIPS

Water Years Sampled:

5	6										7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
X	X	X	X	X	X	X	X	X	X	X		X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.472	1.977	18	6.439	1.380	18	11.950	2.577	18	15.200	2.745	18	21.000	4.000
PRESS	P25	mmHg	764.239	6.381	18	764.128	6.732	18	762.083	5.360	18	762.900	4.936	18	774.200	749.600
OXYGEN	P300	mg/L	12.000	0.839	17	12.429	0.670	17	11.311	1.016	18	10.372	0.538	18	13.600	9.400
PCTSAT	P301	Percent	97.900	5.640	17	100.247	3.657	17	103.800	6.847	17	101.859	3.511	17	117.100	84.000
FC	P31616	#/100ml	25.824	48.396	17	3.722	3.770	18	13.278	24.994	18	25.389	33.525	18	180.000	1.000K
PH	P400	units	7.400	0.225	18	7.217	0.283	18	7.489	0.336	18	7.553	0.155	17	7.900	6.500
SUSSOL	P530	mg/L	13.889	24.902	18	18.444	25.149	18	7.176	17.664	17	1.878	1.192	18	106.000	0.800
FLOW	P60	CFS	1554.167	1030.911	18	1956.250	1386.511	16	823.889	828.943	18	197.111	129.053	18	5000.000	86.000
NH3_N	P610	mg/L	0.014	0.007	18	0.013	0.006	18	0.013	0.005	17	0.011	0.004	18	0.031	0.008
NO2_DIS	P613	mg/L	0.009	0.002	14	0.010	0.000	15	0.010	0.000	16	0.010	0.002	17	0.010	0.002
NO2_N	P615	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.000	13	0.000	0.000	10	0.000	0.000	9	0.000	0.000
NO3_N	P620	mg/L	0.220	0.072	3	0.117	0.031	3	0.040	0.000	2	0.023	0.006	3	0.300	0.020
NO2_NO3	P630	mg/L	0.211	0.078	18	0.165	0.050	18	0.064	0.036	17	0.058	0.068	18	0.320	0.010
TP_P	P665	mg/L	0.025	0.026	18	0.030	0.026	18	0.014	0.010	16	0.011	0.003	18	0.100	0.004
OP_DIS	P671	mg/L	0.010	0.002	17	0.010	0.001	18	0.010	0.000	18	0.010	0.001	18	0.015	0.002
COLOR	P80	Pt-Co	29.667	14.434	3	6.667	2.309	3	14.500	14.849	2	22.333	17.616	3	42.000	4.000
TURB	P82079	NTU	7.394	11.683	18	9.347	11.564	17	3.628	7.649	18	0.794	0.477	18	47.000	0.300
COND	P95	umhos	55.444	10.717	18	53.000	9.592	18	56.778	7.240	18	71.222	9.897	18	86.000	40.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 22G070 Name: SATSOP R NR SATSOP

Class: A Elevation: 40 River Mile: 2.70

Location:
LOCATED AT THE BRIDGE ON OLD US HIGHWAY 12, ONE MILE WEST OF SATSOP

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
  X X X X X X X X X X X X       X   X X X X X X X X X X X X X X   X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.607	1.790	15	6.180	1.203	15	11.313	1.681	15	14.133	1.805	15	17.900	3.500
PRESS	P25	mmHg	768.120	6.769	15	754.973	53.140	15	764.213	8.129	15	766.400	5.318	15	779.000	564.400
OXYGEN	P300	mg/L	11.879	0.615	14	12.214	0.672	14	11.467	1.023	15	10.340	0.498	15	13.600	9.600
PCTSAT	P301	Percent	97.486	3.895	14	99.850	8.739	14	103.921	7.613	14	98.957	4.275	14	127.200	90.500
FC	P31616	#/100ml	26.143	29.204	14	8.200	7.282	15	20.786	28.671	14	34.600	29.196	15	120.000	1.000
PH	P400	units	7.373	0.219	15	7.180	0.265	15	7.493	0.240	15	7.593	0.270	14	8.200	6.600
SUSSOL	P530	mg/L	19.267	33.371	15	24.400	44.173	15	5.000	6.557	15	4.933	9.779	15	170.000	1.000K
FLOW	P60	CFS	2435.933	2217.075	15	3286.733	2230.000	15	1106.533	803.426	15	360.867	176.566	15	9330.000	190.000
NH3_N	P610	mg/L	0.016	0.008	15	0.016	0.011	15	0.013	0.006	14	0.013	0.006	15	0.050	0.010K
NO2_DIS	P613	mg/L	0.009	0.003	11	0.010	0.000	12	0.010	0.000	13	0.010	0.002	14	0.010	0.001
NO2_N	P615	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.000	13	0.000	0.000	10	0.000	0.000	9	0.000	0.000
NO3_N	P620	mg/L	0.450	0.151	3	0.233	0.059	3	0.070	0.014	2	0.083	0.006	3	0.610	0.060
NO2_NO3	P630	mg/L	0.365	0.138	15	0.329	0.084	15	0.145	0.054	14	0.128	0.078	15	0.598	0.050
TP_P	P665	mg/L	0.033	0.034	15	0.037	0.032	15	0.012	0.005	13	0.011	0.005	14	0.110	0.001
OP_DIS	P671	mg/L	0.010	0.002	14	0.010	0.001	15	0.010	0.000	15	0.010	0.001	15	0.011	0.003
COLOR	P80	Pt-Co	29.333	7.506	3	12.667	4.509	3	16.500	12.021	2	12.667	4.509	3	38.000	8.000
TURB	P82079	NTU	6.253	11.502	15	7.671	12.030	14	1.740	2.864	15	1.213	1.141	15	42.000	0.300
COND	P95	umhos	60.133	10.882	15	50.933	10.430	15	66.133	15.334	15	75.267	7.372	15	116.000	22.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 23A070 Name: CHEHALIS R @ PORTER

Class: A Elevation: 40 River Mile: 33.30

Location:
LOCATED AT THE BRIDGE ON THE SIDE ROAD OFF US HIGHWAY 12 ON THE RIGHT
WHEN ENTERING PORTER FROM THE NORTHWEST

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X X X X X X X X X X X X X   X X X X X X X X X X X X X X X X X X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.833	2.655	18	6.772	1.772	18	14.356	3.292	18	17.350	2.351	18	21.100	3.200
PRESS	P25	mmHg	768.311	6.408	18	768.267	6.717	18	765.722	4.815	18	767.567	4.619	18	779.000	751.800
OXYGEN	P300	mg/L	11.024	0.929	17	11.224	0.844	17	9.744	1.033	18	9.094	0.650	18	12.900	7.700
PCTSAT	P301	Percent	90.018	5.361	17	90.847	5.696	17	93.859	6.224	17	92.241	7.772	17	108.500	76.900
FC	P31616	#/100ml	143.882	309.055	17	82.278	82.639	18	32.111	26.185	18	20.944	11.011	18	1300.000	1.000K
COD	P340	mg/L	11.778	3.833	9	7.375	1.996	8	9.875	2.642	8	9.000	2.769	7	17.000	5.000K
PH	P400	units	7.394	0.290	18	7.139	0.291	18	7.372	0.205	18	7.576	0.256	17	8.100	6.600
SUSSOL	P530	mg/L	15.000	22.659	18	21.778	21.929	18	6.611	4.996	18	3.744	1.958	18	88.000	1.000
FLOW	P60	CFS	5533.500	9531.950	18	7762.778	5258.953	18	1818.389	1536.764	18	438.278	139.891	18	42000.000	202.000
NH3_N	P610	mg/L	0.027	0.010	18	0.033	0.012	18	0.023	0.012	17	0.024	0.014	18	0.061	0.010K
NO2_DIS	P613	mg/L	0.010	0.001	14	0.010	0.000	15	0.010	0.000	16	0.010	0.001	18	0.010	0.006
NO2_N	P615	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.000	13	0.000	0.000	10	0.000	0.000	9	0.001	0.000
NO3_N	P620	mg/L	0.713	0.140	3	0.590	0.046	3	0.380	0.085	2	0.337	0.042	3	0.850	0.290
NO2_NO3	P630	mg/L	0.900	0.386	18	0.852	0.109	18	0.529	0.098	17	0.439	0.135	18	2.130	0.150
TP_P	P665	mg/L	0.079	0.042	18	0.058	0.028	18	0.040	0.009	15	0.054	0.022	18	0.190	0.020
OP_DIS	P671	mg/L	0.032	0.019	17	0.016	0.007	18	0.018	0.005	17	0.032	0.017	18	0.079	0.010K
COLOR	P80	Pt-Co	64.000	6.557	3	39.000	17.776	3	27.500	9.192	2	32.333	20.033	3	71.000	17.000
TURB	P82079	NTU	7.367	13.910	18	9.712	8.541	17	2.922	2.126	18	1.356	0.471	18	60.500	0.900
COND	P95	umhos	93.056	19.892	18	72.833	10.246	18	90.000	12.059	18	110.278	10.626	18	127.000	53.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 23A120 Name: CHEHALIS R @ CENTRALIA

Class: A Elevation: 170 River Mile: 67.50

Location:
LOCATED AT THE BRIDGE ON MELLEN STREET, IMMEDIATELY WEST OF CENTRALIA,
6 MILE ABOVE THE CONFLUENCE WITH THE SKOOKUMCHUCK RIVER

Water Years Sampled:

```
5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                                        X X X X X X X X X X X X   X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.800	3.112	15	6.073	1.865	15	14.407	3.333	15	18.947	2.656	15	22.600	2.600
PRESS	P25	mmHg	759.393	11.228	15	760.880	6.455	15	759.007	5.642	15	758.840	6.422	15	776.000	724.900
OXYGEN	P300	mg/L	10.620	1.594	15	11.821	0.706	14	9.660	1.089	15	7.473	1.723	15	13.000	3.600
PCTSAT	P301	Percent	88.287	8.321	15	95.229	4.161	14	93.729	6.868	14	82.736	17.286	14	127.300	59.700
FC	P31616	#/100ml	147.000	201.628	14	74.133	95.699	15	103.067	231.416	15	24.000	20.234	15	880.000	2.000
PH	P400	units	7.420	0.425	15	7.287	0.374	15	7.300	0.273	15	7.453	0.402	15	8.700	6.300
SUSSOL	P530	mg/L	21.733	32.086	15	16.500	14.416	14	4.857	4.294	14	2.714	1.267	14	109.000	1.000
FLOW	P60	CFS	3020.933	4248.138	15	3766.667	3794.734	15	975.133	928.702	15	161.067	98.697	15	16800.000	72.000
NH3_N	P610	mg/L	0.037	0.019	15	0.028	0.012	15	0.044	0.016	13	0.106	0.137	15	0.577	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	11	0.010	0.000	11	0.010	0.000	13	0.012	0.003	15	0.018	0.010K
NO2_N	P615	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.013	0.006	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.000	13	0.000	0.000	10	0.001	0.002	9	0.007	0.000
NO3_N	P620	mg/L	0.693	0.177	3	0.657	0.040	3	0.130	0.042	2	0.127	0.040	3	0.810	0.090
NO2_NO3	P630	mg/L	0.656	0.396	15	0.738	0.146	15	0.308	0.115	14	0.191	0.075	15	1.120	0.040
TP_P	P665	mg/L	0.069	0.041	15	0.052	0.031	15	0.040	0.008	11	0.147	0.074	14	0.379	0.024
OP_DIS	P671	mg/L	0.028	0.030	13	0.013	0.005	15	0.022	0.007	13	0.114	0.069	15	0.337	0.010K
COLOR	P80	Pt-Co	67.000	23.259	3	34.667	6.658	3	25.000	0.000	3	63.000	19.313	3	92.000	25.000
TURB	P82079	NTU	7.686	11.982	14	8.320	8.456	15	3.340	2.249	15	1.767	0.694	15	36.000	1.000
COND	P95	umhos	86.067	25.839	15	68.267	10.010	15	83.867	13.169	15	121.467	18.423	15	155.000	52.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 23A160 Name: CHEHALIS R @ DRYAD

Class: A Elevation: 288 River Mile: 101.70

Location:
LOCATED AT THE BRIDGE LEAVING DRYAD ON THE SOUTHEAST AND APPROXIMATELY
1.5 MILES EAST OF DOTY

Water Years Sampled:

5	6						7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
X	X	X	X	X	X	X	X												X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.394	2.453	18	6.833	2.086	18	13.428	3.595	18	17.294	3.226	18	24.500	2.200
PRESS	P25	mmHg	758.261	6.095	18	759.056	7.300	18	756.561	6.635	18	756.300	5.924	18	772.900	742.200
OXYGEN	P300	mg/L	12.059	1.052	17	12.425	0.638	16	11.422	1.127	18	10.106	0.594	18	14.000	8.900
PCTSAT	P301	Percent	99.335	4.992	17	102.875	4.091	16	109.176	7.581	17	104.365	6.287	17	125.100	86.800
FC	P31616	#/100ml	47.882	39.387	17	44.556	60.497	18	44.389	65.525	18	52.444	83.426	18	380.000	2.000
PH	P400	units	7.439	0.281	18	7.267	0.322	18	7.717	0.482	18	7.700	0.261	18	8.700	6.400
SUSSOL	P530	mg/L	9.000	20.094	18	24.471	55.556	17	3.471	3.693	17	2.556	1.617	18	192.000	1.000K
FLOW	P60	CFS	862.056	824.448	18	1701.063	1885.252	16	398.235	408.507	17	65.444	32.399	18	6980.000	17.000
NH3_N	P610	mg/L	0.012	0.005	18	0.013	0.005	18	0.013	0.006	17	0.013	0.005	18	0.030	0.010K
NO2_DIS	P613	mg/L	0.010	0.002	14	0.010	0.000	15	0.010	0.000	16	0.010	0.002	17	0.010	0.003
NO2_N	P615	mg/L	0.010	0.000	2	0.040	0.052	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.000	13	0.000	0.000	10	0.000	0.000	9	0.001	0.000
NO3_N	P620	mg/L	0.533	0.190	3	0.390	0.026	3	0.115	0.007	2	0.027	0.012	3	0.720	0.020
NO2_NO3	P630	mg/L	0.487	0.300	18	0.499	0.149	18	0.201	0.081	17	0.069	0.048	18	0.959	0.010K
TP_P	P665	mg/L	0.028	0.029	18	0.044	0.048	18	0.017	0.007	16	0.018	0.006	18	0.173	0.010K
OP_DIS	P671	mg/L	0.010	0.002	17	0.010	0.001	18	0.010	0.000	18	0.010	0.000	18	0.014	0.002
COLOR	P80	Pt-Co	46.000	33.719	3	18.333	2.309	3	25.000	5.657	2	58.667	7.506	3	83.000	17.000
TURB	P82079	NTU	2.911	4.860	18	8.353	14.432	17	1.428	0.878	18	1.383	0.387	18	42.000	0.700
COND	P95	umhos	68.944	11.090	18	60.389	8.283	18	67.412	7.246	17	82.000	7.079	18	96.000	40.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 23B050 Name: NEWAUKUM @ MOUTH

Class: A Elevation: 160 River Mile: 0.15

Location:
LOCATED AT THE ROAD BRIDGE AT THE MOUTH OF THE NEWAUKUM RIVER JUST WEST OF CHEHALIS

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.967	3.907	3	6.467	3.197	3	12.933	3.675	3	15.633	1.716	3	17.200	3.000
PRESS	P25	mmHg	761.733	2.050	3	761.567	7.865	3	762.000	2.427	3	765.133	1.823	3	767.300	752.600
OXYGEN	P300	mg/L	11.100	0.889	3	12.000	1.200	3	10.067	0.737	3	9.467	0.666	3	13.200	8.700
PCTSAT	P301	Percent	92.767	2.669	3	96.633	1.701	3	94.300	1.709	3	93.767	4.149	3	97.900	89.300
FC	P31616	#/100ml	464.000	382.581	3	53.667	75.049	3	274.333	412.195	3	81.667	33.650	3	760.000	4.000
PH	P400	units	7.167	0.351	3	7.233	0.208	3	7.300	0.100	3	7.233	0.208	3	7.500	6.800
SUSSOL	P530	mg/L	72.667	18.610	3	12.000	10.817	3	17.000	19.925	3	4.333	2.309	3	90.000	3.000
FLOW	P60	CFS	1089.667	901.743	3	568.000	512.902	3	586.000	601.501	3	113.667	82.209	3	1640.000	49.000
NH3_N	P610	mg/L	0.025	0.010	3	0.019	0.010	3	0.020	0.012	3	0.012	0.003	3	0.033	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	0.958	0.839	3	0.786	0.281	3	0.360	0.199	3	0.135	0.159	3	1.620	0.014
TP_P	P665	mg/L	0.038	0.023	3	0.025	0.014	3	0.028	0.022	3	0.018	0.004	3	0.053	0.010K
OP_DIS	P671	mg/L	0.011	0.002	3	0.011	0.001	3	0.012	0.003	3	0.010	0.001	3	0.015	0.010K
TURB	P82079	NTU	17.633	16.553	3	5.667	4.646	3	6.200	6.762	3	2.033	0.569	3	34.000	0.900
COND	P95	umhos	73.333	31.565	3	58.667	10.017	3	54.667	18.148	3	81.000	10.817	3	109.000	34.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 23D055 Name: SKOOKUMCHUCK R @ CENTRALIA

Class: A Elevation: 41 River Mile: 2.30

Location:
LOCATED AT STATE HIGHWAY 507 BRIDGE

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	8.333	3.711	3	6.567	2.248	3	13.600	3.219	3	15.633	1.940	3	16.900	4.100
PRESS	P25	mmHg	761.600	1.493	3	760.867	8.364	3	760.700	3.800	3	763.000	1.609	3	766.800	751.300
OXYGEN	P300	mg/L	10.467	0.862	3	11.700	0.889	3	9.833	0.702	3	9.967	0.777	3	12.700	9.100
PCTSAT	P301	Percent	88.467	6.701	3	94.767	1.650	3	93.667	2.542	3	99.100	8.029	3	108.000	81.700
FC	P31616	#/100ml	139.333	200.186	3	18.000	22.539	3	143.667	115.327	3	21.333	5.686	3	370.000	4.000
PH	P400	units	7.000	0.265	3	7.200	0.100	3	7.167	0.058	3	7.433	0.351	3	7.800	6.700
SUSSOL	P530	mg/L	17.667	22.143	3	6.667	5.033	3	8.000	6.928	3	3.000	0.000	3	43.000	2.000
FLOW	P60	CFS	259.667	171.797	3	250.667	128.877	3	363.000	379.380	3	98.667	27.791	3	800.000	77.000
NH3_N	P610	mg/L	0.046	0.024	3	0.027	0.011	3	0.024	0.008	3	0.014	0.003	3	0.072	0.011
NO2_DIS	P613	mg/L	0.010	0.001	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.011	0.010K
NO2_NO3	P630	mg/L	0.864	0.668	3	0.737	0.223	3	0.378	0.066	3	0.286	0.102	3	1.480	0.154
TP_P	P665	mg/L	0.039	0.025	3	0.033	0.010	3	0.031	0.008	3	0.022	0.007	3	0.067	0.016
OP_DIS	P671	mg/L	0.010	0.000	3	0.011	0.001	3	0.013	0.003	3	0.013	0.005	3	0.018	0.010K
TURB	P82079	NTU	15.733	19.458	3	7.133	5.090	3	6.000	4.331	3	2.000	0.265	3	38.000	1.700
COND	P95	umhos	177.667	108.969	3	110.333	10.214	3	85.333	14.048	3	69.000	8.000	3	300.000	61.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 23E070 Name: BLACK RIVER @ MOON ROAD BRIDGE Class: A Elevation: 90 River Mile: 7.10

Location:
LOCATED AT THE BRIDGE 6.7 MILES WEST OF I-5 (WEST OF ROCHESTER) AND .6 MILES NORTH ON MOON ROAD.

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.933	2.790	6	6.317	2.215	6	13.667	1.949	6	16.656	1.878	9	19.700	3.300
ZN	P1094	ug/L	5.333	0.577	3	6.333	4.041	3	0.000	0.000	0	6.500	4.359	4	13.000	4.000K
CD	P1113	ug/L	0.000	0.000	0	0.110	0.017	3	0.100	0.000	3	0.110	0.020	4	0.140	0.100K
PB	P1114	ug/L	0.000	0.000	0	1.150	0.212	2	1.000	0.000	2	1.000	0.000	4	1.300	1.000K
CR	P1118	ug/L	0.000	0.000	0	0.663	0.006	3	0.635	0.007	2	0.805	0.813	4	2.000	0.200K
CU	P1119	ug/L	0.000	0.000	0	2.767	1.328	3	3.000	0.000	3	3.500	1.000	4	5.000	2.000K
PRESS	P25	mmHg	763.567	3.524	6	764.467	6.026	6	764.200	4.340	6	764.633	3.454	9	771.100	753.900
OXYGEN	P300	mg/L	8.883	1.452	6	10.000	1.190	5	8.717	0.741	6	8.122	1.438	9	11.300	6.700
PCTSAT	P301	Percent	74.033	10.928	6	81.500	8.018	5	83.100	8.877	6	82.222	14.086	9	107.000	58.700
FC	P31616	#/100ml	186.500	246.483	4	311.667	476.599	6	45.000	42.956	6	76.111	166.666	9	1200.000	5.000
PH	P400	units	7.150	0.362	6	7.183	0.343	6	7.033	0.137	6	7.322	0.130	9	7.700	6.500
SUSSOL	P530	mg/L	4.833	3.371	6	3.833	2.041	6	4.000	2.608	6	1.711	0.895	9	9.000	1.000K
NH3_N	P610	mg/L	0.050	0.038	6	0.053	0.048	6	0.021	0.012	6	0.015	0.006	9	0.140	0.010K
NO2_DIS	P613	mg/L	0.016	0.014	5	0.010	0.001	6	0.010	0.000	6	0.009	0.002	9	0.041	0.003
NO2_NO3	P630	mg/L	0.834	0.088	6	0.829	0.209	6	0.734	0.133	6	0.835	0.165	9	1.160	0.540
TP_P	P665	mg/L	0.074	0.053	6	0.056	0.035	6	0.039	0.008	5	0.031	0.014	9	0.168	0.003
OP_DIS	P671	mg/L	0.037	0.040	5	0.029	0.019	6	0.021	0.002	5	0.017	0.007	9	0.108	0.007
HG	P71900	ug/L	0.058	0.031	3	0.040	0.000	3	0.160	0.208	3	0.028	0.018	4	0.400	0.001K
TURB	P82079	NTU	4.600	5.128	5	2.133	0.513	6	2.067	0.505	6	0.978	0.249	9	13.000	0.600
HARD	P900	mg/L	26.500	16.263	2	26.667	3.215	3	33.333	4.041	3	43.400	4.393	5	51.000	15.000
COND	P95	umhos	82.500	23.407	6	71.333	11.325	6	85.000	12.696	6	109.111	7.474	9	125.000	53.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 23F070 Name: MILL CK NR BORDEAUX

Class: A Elevation: 270 River Mile: 0.02

Location:
LOCATED AT THE BRIDGE AT THE START OF ROAD D5000, 2.5 MILES UP THE BORDEAUX ROAD

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	8.600	2.261	3	6.967	1.457	3	10.933	1.762	3	13.500	2.095	3	15.300	5.300
PRESS	P25	mmHg	748.367	20.077	3	758.500	8.089	3	758.133	4.466	3	760.300	1.931	3	764.500	725.200
OXYGEN	P300	mg/L	11.200	0.624	3	11.700	0.600	3	10.833	0.416	3	10.333	0.306	3	12.300	10.000
PCTSAT	P301	Percent	97.033	2.829	3	96.167	1.193	3	97.800	1.179	3	98.600	5.444	3	104.800	94.600
FC	P31616	#/100ml	4.667	4.041	3	69.000	113.477	3	47.000	17.692	3	49.333	29.366	3	200.000	1.000K
PH	P400	units	7.433	0.153	3	7.300	0.100	3	7.433	0.153	3	7.500	0.173	3	7.600	7.200
SUSSOL	P530	mg/L	8.333	7.095	3	85.667	117.117	3	14.000	7.810	3	9.333	4.041	3	220.000	2.000
FLOW	P60	CFS	9.500	10.607	2	22.600	20.226	3	6.933	4.460	3	1.800	0.917	3	44.000	1.000
NH3_N	P610	mg/L	0.010	0.000	3	0.015	0.006	3	0.013	0.003	3	0.011	0.001	3	0.022	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	0.532	0.163	3	0.375	0.125	3	0.250	0.092	3	0.368	0.052	3	0.692	0.165
TP_P	P665	mg/L	0.028	0.002	3	0.085	0.088	3	0.039	0.013	3	0.028	0.002	3	0.186	0.026
OP_DIS	P671	mg/L	0.013	0.006	3	0.014	0.003	3	0.017	0.002	3	0.017	0.005	3	0.021	0.010K
TURB	P82079	NTU	4.567	2.401	3	22.333	24.583	3	6.500	3.900	3	4.433	1.620	3	50.000	2.200
COND	P95	umhos	58.667	21.221	3	40.667	7.506	3	44.667	6.658	3	69.333	5.508	3	83.000	33.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 26B070 Name: COWLITZ R @ KELSO

Class: A Elevation: 5 River Mile: 4.90

Location:
LOCATED IN KELSO AT THE ALLEN (MAIN) STREET BRIDGE CROSSING THE COWLITZ

Water Years Sampled:

```
5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
  X X X X X X X         X X   X     X X X   X X X X X X X X X X X X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	8.456	1.989	18	6.506	1.645	18	11.161	2.501	18	14.389	2.075	18	19.000	3.800
PRESS	P25	mmHg	765.706	11.596	18	767.589	6.338	18	765.411	5.929	18	765.144	5.242	18	783.000	724.400
OXYGEN	P300	mg/L	11.529	0.757	17	11.935	0.604	17	11.139	0.810	18	10.189	0.369	18	13.200	9.300
PCTSAT	P301	Percent	96.800	4.664	17	96.253	3.758	17	99.947	4.615	17	98.447	3.117	17	110.800	88.500
FC	P31616	#/100ml	48.294	69.493	17	32.444	76.717	18	16.833	13.561	18	22.111	13.159	18	330.000	2.000
COD	P340	mg/L	8.556	3.206	9	7.111	4.014	9	8.375	2.825	8	6.143	1.952	7	16.000	4.000K
PH	P400	units	7.467	0.289	18	7.244	0.324	18	7.394	0.390	18	7.533	0.243	18	8.000	6.400
SUSSOL	P530	mg/L	96.833	183.005	18	59.000	58.676	18	32.444	37.014	18	13.144	15.118	18	794.000	2.000
FLOW	P60	CFS	10470.714	8163.892	14	11066.250	5531.336	16	8056.000	2774.948	10	3501.667	621.077	6	32600.000	950.000
NH3_N	P610	mg/L	0.017	0.009	18	0.022	0.012	18	0.017	0.008	17	0.011	0.003	18	0.050	0.010K
NO2_DIS	P613	mg/L	0.010	0.002	14	0.010	0.000	15	0.010	0.000	16	0.010	0.002	18	0.010	0.003
NO2_N	P615	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.000	13	0.000	0.000	10	0.000	0.000	9	0.000	0.000
NO3_N	P620	mg/L	0.163	0.012	3	0.290	0.020	3	0.080	0.014	2	0.030	0.010	3	0.310	0.020
NO2_NO3	P630	mg/L	0.190	0.150	18	0.287	0.123	18	0.109	0.056	17	0.048	0.011	18	0.627	0.020
TP_P	P665	mg/L	0.053	0.047	18	0.071	0.075	18	0.027	0.019	16	0.016	0.009	18	0.339	0.007
OP_DIS	P671	mg/L	0.010	0.001	17	0.010	0.000	18	0.010	0.000	18	0.010	0.001	18	0.011	0.004
COLOR	P80	Pt-Co	47.333	21.502	3	36.333	10.599	3	14.333	12.220	3	36.333	13.429	3	71.000	1.000
TURB	P82079	NTU	20.124	32.796	17	17.272	11.635	18	7.917	6.736	18	3.244	4.731	18	130.000	1.000K
COND	P95	umhos	99.944	24.400	18	92.500	11.779	18	106.222	19.696	18	126.722	16.827	18	171.000	60.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 31A070 Name: COLUMBIA R @ UMATILLA

Class: A Elevation: 240 River Mile: 290.50

Location:
LOCATED BELOW MCNARY DAM UNDER THE UMATILLA INTERSTATE BRIDGE

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
									X							X	X	X	X	X												X	X	X	X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	11.943	4.054	7	3.244	1.792	9	11.189	2.889	9	19.089	1.612	9	20.800	0.800
ZN	P1094	ug/L	7.000	4.359	3	6.000	1.633	4	7.000	2.646	3	5.667	2.082	3	12.000	4.000K
CD	P1113	ug/L	0.100	0.000	3	0.197	0.167	3	0.000	0.000	0	0.000	0.000	0	0.390	0.100K
PB	P1114	ug/L	1.000	0.000	3	1.000	0.000	3	0.000	0.000	0	0.000	0.000	0	1.000	1.000K
CR	P1118	ug/L	0.733	0.664	3	0.277	0.068	3	0.000	0.000	0	0.000	0.000	0	1.500	0.200K
CU	P1119	ug/L	2.667	0.577	3	2.250	0.500	4	0.000	0.000	0	0.000	0.000	0	3.000	2.000K
PRESS	P25	mmHg	763.700	3.455	7	758.500	9.437	8	755.211	5.677	9	754.744	3.733	9	768.900	738.600
OXYGEN	P300	mg/L	10.500	0.726	7	13.311	0.827	9	12.400	0.667	9	9.822	0.567	9	14.400	8.900
PCTSAT	P301	Percent	95.986	3.584	7	99.556	3.617	9	112.989	4.714	9	105.889	5.715	9	117.500	90.500
FC	P31616	#/100ml	92.000	151.566	7	9.111	12.574	9	3.444	2.698	9	34.333	92.186	9	400.000	1.000K
PH	P400	units	8.014	0.324	7	7.867	0.371	9	8.133	0.269	9	8.222	0.367	9	8.800	7.500
SUSSOL	P530	mg/L	5.143	1.345	7	46.333	130.376	9	7.111	1.453	9	7.222	2.108	9	394.000	2.000
FLOW	P60	CFS	141742.857	54680.858	7	155522.222	47584.918	9	196000.000	46901.493	9	126355.556	54986.933	9	300000.000	62900.000
NH3_N	P610	mg/L	0.017	0.005	7	0.012	0.005	9	0.015	0.006	9	0.017	0.009	9	0.036	0.004
NO2_DIS	P613	mg/L	0.010	0.000	7	0.010	0.000	9	0.009	0.003	9	0.010	0.000	9	0.010	0.001
NO2_NO3	P630	mg/L	0.165	0.094	7	0.287	0.132	9	0.186	0.166	9	0.029	0.021	9	0.577	0.010K
TP_P	P665	mg/L	0.028	0.008	7	0.023	0.007	9	0.025	0.008	9	0.020	0.006	9	0.042	0.010K
OP_DIS	P671	mg/L	0.018	0.014	7	0.016	0.006	9	0.011	0.004	9	0.014	0.009	9	0.047	0.005
HG	P71900	ug/L	0.047	0.006	3	0.044	0.005	5	0.053	0.023	3	0.181	0.129	3	0.300	0.040K
TURB	P82079	NTU	2.643	1.966	7	1.422	0.547	9	3.322	1.597	9	2.478	0.703	9	6.900	0.500
HARD	P900	mg/L	67.667	9.866	3	74.750	3.594	4	64.000	6.083	3	58.333	5.686	3	80.000	52.000
COND	P95	umhos	157.571	13.113	7	175.222	24.833	9	143.111	19.965	9	130.444	11.337	9	232.000	110.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 32A070 Name: WALLA WALLA R NR TOUCHET

Class: B Elevation: 370 River Mile: 15.30

Location:
LOCATED AT A PRIVATE BRIDGE THREE RIVER MILES UPSTREAM FROM US HIGHWAY
12 BRIDGE NEAR REESE

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
X	X	X	X	X	X	X						X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	10.150	5.294	18	4.600	2.873	17	13.889	4.812	18	22.728	3.037	18	28.400	0.000
PRESS	P25	mmHg	757.939	4.920	18	756.488	8.554	16	752.856	4.440	18	750.206	4.502	18	774.000	736.100
OXYGEN	P300	mg/L	12.361	1.488	18	12.581	1.369	16	10.628	1.342	18	11.335	2.230	17	15.600	8.000
PCTSAT	P301	Percent	110.206	22.155	18	96.794	5.283	16	102.029	6.952	17	129.013	26.703	16	190.900	85.000
FC	P31616	#/100ml	67.941	111.814	17	130.235	179.699	17	223.167	156.039	18	91.294	73.728	17	700.000	1.000
COD	P340	mg/L	9.000	7.071	2	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
PH	P400	units	8.189	0.331	18	7.700	0.296	17	7.939	0.235	18	8.478	0.378	18	9.000	7.200
SUSSOL	P530	mg/L	34.667	34.154	18	234.059	465.818	17	175.389	285.424	18	33.556	21.939	18	1800.000	4.000
FLOW	P60	CFS	143.600	219.302	18	727.529	380.430	17	792.333	599.999	18	23.328	19.295	18	1950.000	0.000L
NH3_N	P610	mg/L	0.027	0.016	18	0.051	0.036	17	0.036	0.025	17	0.029	0.022	18	0.160	0.010K
NO2_DIS	P613	mg/L	0.013	0.006	15	0.010	0.000	14	0.010	0.002	15	0.012	0.006	14	0.030	0.006
NO2_N	P615	mg/L	0.017	0.012	3	0.010	0.000	3	0.015	0.007	2	0.017	0.006	3	0.030	0.010
NH3_UN	P619	mg/L	0.001	0.001	13	0.000	0.000	12	0.001	0.002	11	0.005	0.003	9	0.011	0.000
NO3_N	P620	mg/L	1.115	0.403	2	1.013	0.441	3	0.637	0.271	3	0.260	0.305	3	1.500	0.170
NO2_NO3	P630	mg/L	0.692	0.391	15	1.018	0.325	14	0.522	0.183	15	0.429	0.424	15	1.800	0.010K
TP_P	P665	mg/L	0.110	0.047	14	0.185	0.108	17	0.146	0.054	17	0.128	0.045	18	0.500	0.010K
OP_DIS	P671	mg/L	0.058	0.037	17	0.096	0.020	17	0.066	0.014	18	0.056	0.040	17	0.140	0.010K
COLOR	P80	Pt-Co	30.429	9.554	7	32.333	26.858	3	44.714	47.923	7	31.167	5.879	6	63.000	4.000
TURB	P82079	NTU	10.811	12.711	18	28.229	43.487	17	16.106	13.194	18	12.488	11.542	17	174.000	1.000
COND	P95	umhos	318.722	178.403	18	146.765	21.574	17	150.000	60.164	18	485.444	151.718	18	825.000	80.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 32C110 Name: MILL CR @ TAUSICK WAY

Class: A Elevation: 1140 River Mile: 10.00

Location:
LOCATED ON THE EAST END OF WALLA WALLA NEAR THE AIRPORT ON TAUSICK WAY
.25 MILES FROM HIGHWAY 12 (TWO BLOCKS TO THE BRIDGE).

Water Years Sampled:

5 6										7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
													X		X																				X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	9.367	4.950	3	2.367	1.677	3	10.333	4.917	3	21.700	1.323	3	23.200	1.300
PRESS	P25	mmHg	739.733	2.318	3	738.400	6.788	2	730.600	2.330	3	730.433	1.504	3	743.200	728.000
OXYGEN	P300	mg/L	12.333	0.737	3	13.533	0.702	3	11.000	0.781	3	11.833	1.644	3	14.200	10.100
PCTSAT	P301	Percent	110.433	16.226	3	101.967	3.075	3	101.333	3.853	3	138.700	18.822	3	159.200	97.900
FC	P31616	#/100ml	24.333	7.095	3	6.000	7.000	3	85.000	108.586	3	20.333	15.177	3	210.000	1.000K
PH	P400	units	8.267	0.569	3	8.233	0.493	3	8.233	0.709	3	9.067	0.289	3	9.400	7.600
SUSSOL	P530	mg/L	4.333	2.309	3	3.667	0.577	3	10.000	5.000	3	5.000	2.646	3	15.000	3.000
FLOW	P60	CFS	38.400	50.007	3	54.667	28.024	3	213.667	147.555	3	1.033	1.443	3	312.000	0.200
NH3_N	P610	mg/L	0.029	0.031	3	0.010	0.001	3	0.016	0.005	3	0.019	0.008	3	0.065	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	0.150	0.093	3	0.332	0.173	3	0.184	0.048	3	0.228	0.150	3	0.530	0.059
TP_P	P665	mg/L	0.033	0.011	3	0.034	0.011	3	0.036	0.006	3	0.041	0.013	3	0.054	0.022
OP_DIS	P671	mg/L	0.021	0.010	3	0.032	0.013	3	0.022	0.004	3	0.027	0.010	3	0.046	0.012
TURB	P82079	NTU	2.533	2.146	3	3.333	2.409	3	5.100	2.646	3	1.967	0.723	3	7.100	1.100
COND	P95	umhos	82.333	7.767	3	67.000	5.000	3	59.000	13.000	3	91.667	3.055	3	95.000	51.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 33A050 Name: SNAKE R NR PASCO

Class: A Elevation: 330 River Mile: 2.20

Location:
LOCATED AT THE BRIDGE ON US HIGHWAY 12/395 NEAR BURBANK AT HOOD PARK

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
  X X X X X X X   X         X                               X X X X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	12.043	4.008	7	3.422	1.549	9	11.589	3.011	9	19.778	1.990	9	22.600	1.600
PRESS	P25	mmHg	753.814	13.061	7	756.322	9.311	9	750.633	2.980	9	748.778	9.928	9	765.300	725.200
OXYGEN	P300	mg/L	9.714	1.202	7	12.478	0.583	9	11.333	0.987	9	8.822	0.916	9	13.400	7.500
PCTSAT	P301	Percent	89.914	5.136	7	94.056	1.380	9	104.833	8.549	9	97.044	8.337	9	119.800	83.100
FC	P31616	#/100ml	2.429	1.902	7	8.667	9.327	9	33.889	62.114	9	29.778	32.824	9	190.000	1.000K
COD	P340	mg/L	9.143	5.543	21	19.500	13.435	2	10.500	0.707	2	11.667	4.041	3	29.000	7.000
PH	P400	units	8.029	0.125	7	8.100	0.250	9	7.656	0.357	9	7.922	0.387	9	8.500	6.900
SUSSOL	P530	mg/L	4.429	1.988	7	9.111	9.752	9	14.778	7.902	9	13.222	11.670	9	30.000	2.000
FLOW	P60	CFS	29028.571	10630.415	7	35233.333	17580.671	9	65866.667	28174.767	9	25088.889	18964.008	9	103000.000	9000.000
NH3_N	P610	mg/L	0.016	0.005	7	0.022	0.012	9	0.023	0.009	9	0.022	0.015	9	0.052	0.010K
NO2_DIS	P613	mg/L	0.012	0.006	7	0.010	0.001	9	0.012	0.007	9	0.011	0.001	9	0.028	0.004
NO2_N	P615	mg/L	0.012	0.004	17	0.013	0.007	14	0.010	0.000	12	0.010	0.000	13	0.000	0.000
NH3_UN	P619	mg/L	0.000	0.001	19	0.000	0.000	19	0.001	0.004	17	0.001	0.001	15	0.000	0.000
NO3_N	P620	mg/L	0.638	0.144	13	0.809	0.148	14	0.380	0.389	13	0.163	0.085	10	0.000	0.000
NO2_NO3	P630	mg/L	0.370	0.173	7	0.814	0.302	9	0.638	0.371	9	0.469	0.520	9	1.390	0.081
TP_P	P665	mg/L	0.054	0.009	7	0.063	0.027	9	0.069	0.036	9	0.056	0.044	9	0.141	0.021
OP_DIS	P671	mg/L	0.041	0.008	7	0.047	0.017	9	0.045	0.028	9	0.034	0.034	9	0.098	0.010K
COLOR	P80	Pt-Co	21.571	6.294	7	37.667	17.507	9	36.000	23.551	7	22.333	2.066	6	0.000	0.000
TURB	P82079	NTU	1.786	0.241	7	4.011	2.552	9	6.778	2.323	9	4.456	2.593	9	12.000	1.100
COND	P95	umhos	288.429	59.668	7	281.444	40.780	9	168.556	92.767	9	148.111	35.786	9	400.000	79.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 34A070 Name: PALOUSE R @ HOOPER

Class: B Elevation: 1060 River Mile: 19.50

Location:
LOCATED IN "DOWNTOWN" HOOPER NEAR TRAIN TRACKS AT BRIDGE ON OLD HIGHWAY 26

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X X X X X X X X X X X     X X X X X X X X X X X X X X X X X X X X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.094	4.210	18	3.343	2.307	14	12.833	4.633	18	19.650	3.041	18	24.300	0.000
ZN	P1094	ug/L	39.636	75.652	11	129.778	224.141	9	13.000	12.195	12	8.700	6.945	10	718.000	2.000K
CD	P1113	ug/L	0.170	0.048	10	0.599	0.802	8	0.214	0.120	10	0.153	0.060	10	2.390	0.100K
PB	P1114	ug/L	1.180	0.374	10	25.188	50.227	8	1.711	1.484	9	1.790	1.101	10	148.000	1.000K
CR	P1118	ug/L	1.453	1.359	9	6.987	6.096	7	3.156	3.497	10	1.197	0.982	10	19.000	0.200J
CU	P1119	ug/L	23.000	47.459	11	52.222	95.818	9	5.000	4.946	10	4.200	2.057	9	303.000	1.000K
PRESS	P25	mmHg	739.856	5.547	18	737.038	5.982	13	736.722	3.503	18	734.783	4.741	18	751.100	729.000
OXYGEN	P300	mg/L	11.489	1.619	18	12.107	2.058	14	10.367	1.450	18	8.465	0.865	17	15.500	6.500
PCTSAT	P301	Percent	96.200	7.497	18	93.286	14.036	14	99.259	7.882	17	94.213	6.596	16	113.100	48.400
FC	P31616	#/100ml	96.500	93.736	16	169.818	323.986	11	127.176	172.538	17	117.222	75.116	18	1100.000	1.000
COD	P340	mg/L	49.455	106.418	11	120.250	240.975	8	21.917	13.621	12	21.727	7.417	11	710.000	8.000
PH	P400	units	8.394	0.357	18	7.879	0.222	14	8.261	0.554	18	8.700	0.297	18	9.700	7.600
SUSSOL	P530	mg/L	68.778	164.510	18	1389.154	3636.937	13	114.944	164.864	18	42.941	39.611	17	13100.000	2.000
FLOW	P60	CFS	93.056	63.171	18	1253.214	1597.371	14	767.722	764.853	18	52.000	33.415	18	5010.000	12.000
NH3_N	P610	mg/L	0.158	0.464	18	0.103	0.107	13	0.052	0.054	17	0.046	0.075	17	2.000	0.009
NO2_DIS	P613	mg/L	0.013	0.008	15	0.018	0.006	12	0.014	0.007	15	0.013	0.011	14	0.050	0.007
NO2_N	P615	mg/L	0.013	0.006	3	0.023	0.015	3	0.010	0.000	2	0.013	0.006	3	0.020	0.010K
NH3_UN	P619	mg/L	0.006	0.013	11	0.001	0.001	9	0.002	0.002	12	0.004	0.003	9	0.046	0.000
NO3_N	P620	mg/L	2.650	2.051	2	3.633	1.607	3	0.907	0.519	3	0.060	0.087	3	4.800	0.160
NO2_NO3	P630	mg/L	1.360	1.081	15	3.407	0.922	12	1.218	0.901	15	0.279	0.470	15	5.040	0.010K
TP_P	P665	mg/L	0.212	0.100	15	0.265	0.139	14	0.165	0.115	16	0.164	0.074	18	0.605	0.010K
OP_DIS	P671	mg/L	0.166	0.109	17	0.150	0.060	14	0.100	0.057	18	0.087	0.059	18	0.386	0.010K
HG	P71900	ug/L	0.068	0.024	11	0.076	0.070	9	0.058	0.014	8	0.062	0.017	10	0.220	0.020K
COLOR	P80	Pt-Co	73.286	48.462	7	104.500	106.773	2	26.333	4.619	3	130.000	0.000	2	180.000	21.000
TURB	P82079	NTU	28.850	62.592	18	209.500	384.473	14	28.422	35.896	18	15.956	15.360	18	1400.000	1.200
HARD	P900	mg/L	120.417	27.231	12	74.667	23.297	9	66.917	16.957	12	120.250	17.337	12	153.000	31.000
COND	P95	umhos	321.278	62.542	18	208.286	58.992	14	192.667	54.785	18	316.389	43.221	18	410.000	91.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 34A170 Name: PALOUSE R @ PALOUSE

Class: A Elevation: 2090 River Mile: 121.20

Location:
LOCATED AT THE EASTERLY MOST BRIDGE IN PALOUSE NEAR THE GRAVEL PIT, .4 MILE EAST OF THE INTERSECTION OF STATE HIGHWAYS 6, 27, AND 272 ON STATE HIGHWAY 6 -- STATION MOVED 10/01/90 TO THE HIGHWAY 27 BRIDGE ENTERING TOWN FROM THE SOUTH. THE PREVIOUS BRIDGE LOCATION IS CLOSED WITH NO ACCESS.

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
																X																	X	X	X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	4.817	4.014	6	1.700	2.548	5	12.450	7.063	6	18.967	3.647	6	23.700	0.000
PRESS	P25	mmHg	706.517	4.886	6	704.500	4.918	4	711.483	24.250	6	701.800	2.467	6	760.700	697.500
OXYGEN	P300	mg/L	11.933	1.268	6	12.580	1.190	5	11.250	1.421	6	9.583	0.331	6	14.000	9.000
PCTSAT	P301	Percent	99.217	3.312	6	96.940	5.076	5	112.767	24.852	6	111.133	9.428	6	154.400	83.700
FC	P31616	#/100ml	103.833	187.843	6	12.500	7.853	4	602.000	1273.718	6	45.667	29.364	6	3200.000	2.000
PH	P400	units	7.867	0.175	6	7.780	0.192	5	8.100	0.329	6	8.633	0.361	6	9.200	7.500
SUSSOL	P530	mg/L	2.667	1.366	6	7.800	4.324	5	115.833	252.090	6	14.500	26.749	6	630.000	1.000K
FLOW	P60	CFS	30.500	21.164	6	174.600	135.375	5	435.167	594.822	6	19.833	15.484	6	1280.000	6.000
NH3_N	P610	mg/L	0.015	0.006	6	0.026	0.012	5	0.023	0.032	6	0.014	0.005	6	0.089	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	6	0.010	0.000	5	0.010	0.000	6	0.010	0.000	6	0.010	0.010K
NO2_NO3	P630	mg/L	0.112	0.183	6	0.847	0.816	5	0.195	0.325	6	0.206	0.477	6	2.240	0.010K
TP_P	P665	mg/L	0.040	0.014	6	0.058	0.017	5	0.066	0.053	6	0.039	0.029	6	0.162	0.010K
OP_DIS	P671	mg/L	0.019	0.008	6	0.027	0.008	5	0.027	0.020	6	0.043	0.049	6	0.141	0.010K
TURB	P82079	NTU	4.633	3.031	6	11.560	3.559	5	40.283	78.468	6	10.317	20.915	6	200.000	1.100
COND	P95	umhos	89.667	18.949	6	83.600	28.492	5	63.500	15.476	6	76.167	13.075	6	125.000	35.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 35A150 Name: SNAKE R @ INTERSTATE BR

Class: A Elevation: 705 River Mile: 139.60

Location:
LOCATED AT THE WASHINGTON-IDAHO INTERSTATE BRIDGE ON U S HIGHWAY 12 AT CLARKSTON

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
			X	X	X	X	X		X	X																						X	X	X	X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	10.357	4.955	7	3.200	1.710	9	11.956	2.749	9	19.711	2.482	9	23.700	1.200
PRESS	P25	mmHg	749.700	3.834	7	747.313	5.925	8	742.778	6.618	9	740.033	5.800	9	754.900	730.000
OXYGEN	P300	mg/L	10.771	1.402	7	12.922	0.812	9	10.478	0.687	9	9.044	0.477	9	13.900	8.100
PCTSAT	P301	Percent	96.157	2.579	7	98.033	2.111	9	98.711	3.241	9	100.678	3.996	9	106.600	93.200
FC	P31616	#/100ml	2.857	1.952	7	3.667	4.123	9	19.625	15.033	8	6.111	6.585	9	44.000	1.000K
CHL	P32211	ug/L	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	2.233	1.721	3	4.200	1.000J
PHEO	P32218	ug/L	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.720	0.416	3	6.300	0.470
PH	P400	units	8.286	0.069	7	8.278	0.319	9	8.222	0.299	9	8.389	0.169	9	8.900	7.700
SUSSOL	P530	mg/L	3.429	1.813	7	3.667	1.803	9	13.444	7.860	9	6.111	4.014	9	25.000	1.000
FLOW	P60	CFS	15257.143	1778.442	7	19285.714	5038.660	7	44833.333	24641.429	9	21767.778	8656.304	9	87100.000	9410.000
TPN	P600	mg/L	0.708	0.118	3	1.230	0.108	3	0.833	0.494	3	0.419	0.139	3	1.360	0.275
NH3_N	P610	mg/L	0.013	0.006	7	0.018	0.009	9	0.022	0.022	9	0.016	0.008	9	0.079	0.007
NO2_DIS	P613	mg/L	0.010	0.000	7	0.010	0.001	9	0.009	0.002	9	0.010	0.000	9	0.013	0.004
NO2_NO3	P630	mg/L	0.645	0.157	7	1.019	0.109	9	0.455	0.264	9	0.249	0.092	9	1.140	0.125
TP_P	P665	mg/L	0.062	0.016	7	0.063	0.018	8	0.051	0.032	9	0.035	0.008	9	0.128	0.021
OP_DIS	P671	mg/L	0.047	0.015	7	0.044	0.013	9	0.029	0.023	9	0.022	0.008	9	0.082	0.010K
TURB	P82079	NTU	1.343	0.305	7	2.233	1.568	9	5.811	6.816	9	2.289	1.397	9	23.000	0.700
COND	P95	umhos	380.857	32.059	7	372.556	44.472	9	203.111	69.380	9	249.444	69.311	9	425.000	123.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 35C070 Name: GRANDE RONDE R NR ANATONE Class: A Elevation: 850 River Mile: 2.80

Location:
LOCATED .8 MILE ABOVE THE USGS GAGE (PUBLISHED AS GRANDE RONDE RIVER AT ZINDEL) AND 2.7 MILES UPSTREAM FROM ROGERSBURG AT THE FIRST MAJOR BRIDGE CROSSING THE RIVER

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X X X X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	6.967	6.161	3	0.433	0.666	3	8.200	2.425	3	18.200	1.709	3	20.000	0.000
PRESS	P25	mmHg	751.000	9.315	3	750.000	4.551	3	743.633	2.608	3	743.467	5.312	3	760.000	740.400
OXYGEN	P300	mg/L	11.833	2.003	3	13.833	0.208	3	11.233	0.351	3	8.767	0.306	3	14.000	8.500
PCTSAT	P301	Percent	96.833	2.411	3	97.033	0.252	3	97.067	2.515	3	94.300	1.559	3	99.100	92.500
FC	P31616	#/100ml	44.000	45.177	3	5.667	3.786	3	94.667	74.198	3	5.667	3.055	3	160.000	3.000
PH	P400	units	8.167	0.115	3	8.067	0.115	3	7.300	0.361	3	8.133	0.058	3	8.300	6.900
SUSSOL	P530	mg/L	12.000	12.124	3	5.000	1.732	3	47.667	23.029	3	5.667	0.577	3	73.000	3.000
FLOW	P60	CFS	893.333	185.047	3	1046.667	35.119	3	11406.667	3167.986	3	1648.333	1033.324	3	14900.000	743.000
NH3_N	P610	mg/L	0.010	0.000	3	0.011	0.001	3	0.021	0.011	3	0.011	0.001	3	0.031	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	0.038	0.029	3	0.168	0.044	3	0.122	0.081	3	0.010	0.000	3	0.219	0.010K
TP_P	P665	mg/L	0.031	0.012	3	0.020	0.009	3	0.079	0.021	3	0.019	0.004	3	0.097	0.010K
OP_DIS	P671	mg/L	0.018	0.014	3	0.010	0.001	3	0.031	0.011	3	0.011	0.002	3	0.043	0.010K
TURB	P82079	NTU	3.200	2.458	3	3.100	0.954	3	18.667	3.512	3	1.900	0.200	3	22.000	1.400
COND	P95	umhos	135.667	9.713	3	116.667	12.342	3	56.000	4.583	3	108.000	30.790	3	144.000	52.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 35D070 Name: ASOTIN CR @ ASOTIN

Class: A Elevation: 760 River Mile: 0.40

Location:
LOCATED AT THE BRIDGE ON SECOND STREET ON THE SECOND BRIDGE FROM THE MOUTH OF ASOTIN CREEK

Water Years Sampled:

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5 6                 7                   8                   9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                                      X                           X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.367	3.592	3	2.000	1.559	3	8.000	3.700	3	14.833	1.550	3	16.600	0.200
PRESS	P25	mmHg	754.367	9.252	3	753.367	3.828	3	746.000	2.427	3	743.200	1.562	3	763.500	742.200
OXYGEN	P300	mg/L	11.667	1.106	3	13.567	0.643	3	11.467	0.643	3	9.867	0.231	3	14.300	9.600
PCTSAT	P301	Percent	97.000	2.128	3	98.800	1.249	3	98.100	3.740	3	99.100	1.015	3	102.400	94.700
FC	P31616	#/100ml	51.000	52.849	3	124.667	91.664	3	628.333	929.870	3	164.000	74.081	3	1700.000	8.000
PH	P400	units	8.100	0.100	3	8.133	0.058	3	7.733	0.153	3	8.300	0.100	3	8.400	7.600
SUSSOL	P530	mg/L	6.667	4.726	3	8.000	2.000	3	380.000	632.202	3	14.667	9.292	3	1110.000	3.000
FLOW	P60	CFS	34.000	4.000	3	31.667	2.887	3	268.000	194.548	3	30.000	8.000	3	460.000	22.000
NH3_N	P610	mg/L	0.010	0.000	3	0.010	0.000	3	0.014	0.005	3	0.010	0.001	3	0.020	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	0.060	0.086	3	0.233	0.038	3	0.158	0.089	3	0.087	0.038	3	0.276	0.010K
TP_P	P665	mg/L	0.043	0.007	3	0.049	0.008	3	0.075	0.035	3	0.054	0.004	3	0.109	0.037
OP_DIS	P671	mg/L	0.026	0.014	3	0.044	0.002	3	0.058	0.022	3	0.044	0.003	3	0.083	0.010K
TURB	P82079	NTU	1.267	1.079	3	1.700	1.054	3	95.300	151.379	3	3.067	0.416	3	270.000	0.500
COND	P95	umhos	124.333	5.508	3	114.333	2.887	3	91.000	11.533	3	114.333	5.508	3	128.000	78.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 35E070 Name: CLEARWATER R @ US12/95

Class: A Elevation: 723 River Mile: 1.10

Location:
LOCATED AT THE US12/95 BRIDGE IN LEWISTON, IDAHO

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.833	5.372	3	1.800	0.889	3	8.467	3.308	3	14.533	3.553	3	18.000	1.100
PRESS	P25	mmHg	754.967	9.058	3	754.133	3.907	3	746.867	2.419	3	743.900	1.825	3	763.800	742.700
OXYGEN	P300	mg/L	11.367	1.779	3	13.567	0.115	3	11.133	0.404	3	9.633	0.907	3	13.700	8.600
PCTSAT	P301	Percent	94.767	3.147	3	98.267	1.976	3	96.300	3.740	3	95.633	4.248	3	100.600	91.800
FC	P31616	#/100ml	9.000	5.292	3	38.333	36.611	3	242.667	268.480	3	40.000	29.513	3	540.000	3.000
CHL	P32211	ug/L	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	1.087	0.540	3	4.600	0.680J
PHEO	P32218	ug/L	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.720	0.330	3	5.000	0.500
PH	P400	units	7.667	0.058	3	7.967	0.153	3	7.733	0.252	3	7.800	0.265	3	8.100	7.500
FLOW	P60	CFS	4083.333	807.857	3	3406.667	295.691	3	32233.333	12123.256	3	17040.000	12407.691	3	42100.000	3150.000
TPN	P600	mg/L	0.114	0.031	3	0.202	0.123	3	0.518	0.058	3	0.130	0.018	3	0.575	0.095
NH3_N	P610	mg/L	0.010	0.000	2	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.010	0.010K
NO2_DIS	P613	mg/L	0.000	0.000	0	0.000	0.000	0	0.010	0.000	2	0.000	0.000	0	0.010	0.010K
NO2_NO3	P630	mg/L	0.010	0.000	2	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.010	0.010K
TP_P	P665	mg/L	0.011	0.001	3	0.012	0.002	3	0.049	0.012	3	0.010	0.000	3	0.060	0.010K
OP_DIS	P671	mg/L	0.000	0.000	0	0.000	0.000	0	0.012	0.003	2	0.000	0.000	0	0.014	0.010K
TURB	P82079	NTU	1.033	0.115	3	1.933	1.332	3	20.333	8.622	3	1.600	0.557	3	28.000	0.800
COND	P95	umhos	37.667	5.686	3	42.333	3.055	3	30.667	10.214	3	29.667	9.074	3	45.000	19.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 37A090 Name: YAKIMA R @ KIONA

Class: A Elevation: 460 River Mile: 29.80

Location:
LOCATED .1 MILE NORTHWEST OF HIGHWAY 12 AND KIONA AND SOUTHEAST OF BENTON CITY

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X X X       X X X X X X X X X X X X X X X X X X X X X X X X X X X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	9.717	4.488	18	4.367	2.509	18	14.661	3.390	18	20.572	2.912	18	25.400	0.000
PRESS	P25	mmHg	752.689	8.160	18	753.639	8.404	18	751.500	4.046	18	750.739	4.930	18	774.000	726.900
OXYGEN	P300	mg/L	11.656	1.383	18	13.228	1.701	18	10.583	1.656	18	9.600	1.095	18	16.800	7.400
PCTSAT	P301	Percent	102.350	7.682	18	102.167	10.118	18	103.476	12.645	17	106.929	14.561	17	131.500	84.900
FC	P31616	#/100ml	46.118	34.905	17	17.000	16.091	16	38.889	32.293	18	60.375	31.644	16	140.000	1.000K
COD	P340	mg/L	7.444	2.877	9	9.333	3.041	9	13.889	3.586	9	12.222	4.116	9	20.000	4.000K
PH	P400	units	8.156	0.324	18	7.956	0.309	18	8.178	0.335	18	8.244	0.257	18	8.900	7.400
SUSSOL	P530	mg/L	17.611	19.452	18	15.222	16.050	18	37.056	27.690	18	22.944	9.674	18	98.000	1.000K
FLOW	P60	CFS	2284.444	1940.246	18	4343.333	6823.923	18	2801.111	1181.688	18	1484.000	410.109	18	31280.000	836.000
NH3_N	P610	mg/L	0.034	0.023	18	0.069	0.054	18	0.021	0.010	17	0.022	0.010	18	0.209	0.006
NO2_DIS	P613	mg/L	0.016	0.006	15	0.013	0.004	15	0.010	0.001	15	0.015	0.005	14	0.030	0.008
NO2_N	P615	mg/L	0.023	0.012	3	0.010	0.000	3	0.010	0.000	2	0.020	0.000	3	0.030	0.010
NH3_UN	P619	mg/L	0.001	0.001	13	0.001	0.001	12	0.001	0.002	11	0.002	0.001	9	0.004	0.000
NO3_N	P620	mg/L	1.300	0.000	2	0.877	0.577	3	0.597	0.289	3	1.300	0.100	3	1.500	0.360
NO2_NO3	P630	mg/L	1.284	0.314	15	0.944	0.379	15	0.536	0.253	15	0.880	0.407	15	1.750	0.065
TP_P	P665	mg/L	0.103	0.015	15	0.108	0.044	18	0.090	0.037	17	0.107	0.042	18	0.216	0.017
OP_DIS	P671	mg/L	0.077	0.015	17	0.066	0.024	18	0.040	0.015	18	0.061	0.024	17	0.120	0.010K
COLOR	P80	Pt-Co	17.571	5.381	7	14.333	2.309	3	24.714	15.283	7	19.667	3.266	6	25.000	1.000
TURB	P82079	NTU	4.000	4.419	18	4.367	3.113	18	7.583	4.133	18	6.171	2.953	17	21.000	1.000
COND	P95	umhos	276.278	53.414	18	219.111	47.564	18	193.444	30.471	18	268.111	28.471	18	350.000	109.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 37A095 Name: YAKIMA 2 MI BLW PROSSER

Class: A Elevation: 590 River Mile: 44.90

Location:
BANK SAMPLE FROM LEVEE D/S OF DAM AT PROSSER (OFF OF BUNNS ROAD)

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	11.700	3.253	2	5.450	0.495	2	15.600	1.697	2	18.800	2.128	3	21.100	5.100
PRESS	P25	mmHg	749.550	3.889	2	748.950	7.707	2	752.167	2.899	3	750.833	2.702	3	755.400	743.500
OXYGEN	P300	mg/L	10.950	0.212	2	12.250	0.778	2	11.100	0.600	3	8.533	0.981	3	12.800	7.400
PCTSAT	P301	Percent	101.900	5.940	2	98.350	6.010	2	100.100	20.506	3	92.300	13.947	3	115.400	76.500
FC	P31616	#/100ml	28.500	6.364	2	0.000	0.000	0	40.000	18.083	3	85.000	44.441	3	120.000	10.000
PH	P400	units	8.050	0.071	2	7.900	0.141	2	8.100	0.141	2	8.167	0.252	3	8.400	7.800
FLOW	P60	CFS	1072.500	703.571	2	977.000	371.938	2	1424.333	1408.244	3	458.333	379.956	3	3.300	3.300
COND	P95	umhos	270.500	28.991	2	233.500	38.891	2	194.000	35.355	2	271.667	39.929	3	300.000	169.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 37A100 Name: YAKIMA BELOW PROSSER

Class: A Elevation: 610 River Mile: 47.00

Location:
GRANT AVE. BRIDGE IN PROSSER. ~900 FT BELOW DAM.

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	8.333	5.873	3	3.367	2.937	3	13.533	4.140	3	19.900	2.551	3	22.400	0.000
PRESS	P25	mmHg	745.633	4.521	3	749.300	6.409	3	750.467	2.650	3	750.500	2.944	3	753.900	741.900
OXYGEN	P300	mg/L	11.567	1.818	3	12.700	0.964	3	10.333	0.764	3	9.467	0.379	3	13.800	9.200
PCTSAT	P301	Percent	98.833	1.850	3	96.267	1.343	3	99.633	3.669	3	104.400	9.224	3	114.700	95.300
FC	P31616	#/100ml	28.000	9.849	3	48.500	40.305	2	61.000	32.234	3	80.667	32.960	3	110.000	17.000
PH	P400	units	8.000	0.200	3	8.200	0.000	3	7.700	0.794	3	8.300	0.361	3	8.600	6.800
FLOW	P60	CFS	885.667	593.487	3	1114.667	355.000	3	1424.333	1408.244	3	458.333	379.956	3	3050.000	213.000
TPN	P600	mg/L	1.717	0.095	3	1.770	0.322	3	1.054	0.353	3	1.450	0.226	3	2.130	0.731J
TP_P	P665	mg/L	0.079	0.012	3	0.132	0.047	3	0.101	0.019	3	0.112	0.004	3	0.187	0.067
TURB	P82079	NTU	4.033	1.242	3	12.467	16.070	3	10.100	4.279	3	9.300	2.862	3	31.000	2.400
COND	P95	umhos	265.333	13.429	3	234.000	49.518	3	170.000	39.585	3	239.333	43.936	3	1.320	1.320

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 37A170 Name: YAKIMA R NR TOPPENISH

Class: A Elevation: 760 River Mile: 93.00

Location:
LOCATED AT THE BRIDGE ON STATE HIGHWAY 22 TWO MILES NORTH OF TOPPENISH

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
												X			X	X																		X	

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	5.250	5.869	2	3.333	3.350	3	11.500	3.365	3	16.767	1.415	3	18.400	0.000
PRESS	P25	mmHg	742.850	4.879	2	745.067	6.466	3	747.033	2.732	3	744.500	2.095	3	749.300	737.600
OXYGEN	P300	mg/L	14.100	1.697	2	13.100	0.900	3	11.567	0.651	3	9.667	0.115	3	15.300	9.600
PCTSAT	P301	Percent	112.300	1.980	2	99.767	2.223	3	107.267	3.763	3	100.933	4.398	3	113.700	97.200
FC	P31616	#/100ml	16.500	9.192	2	20.000	4.243	2	32.333	14.364	3	37.667	19.009	3	57.000	10.000
PH	P400	units	8.250	0.071	2	8.067	0.208	3	7.967	0.289	3	8.033	0.153	3	8.300	7.800
SUSSOL	P530	mg/L	7.000	2.828	2	12.667	2.309	3	9.667	5.033	3	13.000	3.606	3	17.000	5.000
FLOW	P60	CFS	1010.500	112.430	2	1150.000	210.000	3	1222.333	1239.145	3	494.000	132.917	3	2650.000	407.000
NH3_N	P610	mg/L	0.042	0.002	2	0.060	0.031	3	0.012	0.004	3	0.012	0.002	3	0.088	0.010K
NO2_DIS	P613	mg/L	0.022	0.004	2	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.024	0.010K
NO2_NO3	P630	mg/L	0.451	0.037	2	0.505	0.166	3	0.110	0.067	3	0.161	0.040	3	0.696	0.042
TP_P	P665	mg/L	0.059	0.011	2	0.068	0.010	3	0.027	0.010	3	0.043	0.014	3	0.079	0.017
OP_DIS	P671	mg/L	0.040	0.018	2	0.044	0.025	3	0.014	0.005	3	0.019	0.010	3	0.069	0.010K
TURB	P82079	NTU	2.000	0.000	2	2.033	0.231	3	3.400	1.587	3	5.500	2.629	3	8.500	1.900
COND	P95	umhos	182.000	28.284	2	147.333	16.166	3	105.667	6.658	3	107.000	3.464	3	202.000	98.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 39C070 Name: WILSON CR @ THRALL

Class: A Elevation: 1420 River Mile: 0.40

Location:
STATION LOCATED APPROX 4.5 MILES SOUTH OF ELLENSBURG AND 1 MILE SOUTH OF THRALL AT WILSON CR. BRIDGE CROSSING ON HIGHWAY 97

Water Years Sampled:

5	6						7						8						9				
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
							X	X	X	X	X			X		X									X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	9.233	3.902	3	4.600	1.539	3	11.633	4.148	3	13.867	2.122	3	16.300	2.900
PRESS	P25	mmHg	723.400	3.740	3	725.833	5.265	3	727.200	4.915	3	727.200	1.670	3	730.800	719.800
OXYGEN	P300	mg/L	11.733	0.666	3	12.433	0.513	3	11.400	0.656	3	10.467	0.289	3	13.000	10.300
PCTSAT	P301	Percent	107.033	10.650	3	100.900	6.239	3	109.000	7.357	3	105.333	3.911	3	119.200	95.100
FC	P31616	#/100ml	63.667	35.445	3	31.000	0.000	2	126.667	98.658	3	326.667	65.064	3	390.000	23.000
PH	P400	units	8.200	0.100	3	7.967	0.208	3	8.200	0.173	3	8.067	0.115	3	8.400	7.800
SUSSOL	P530	mg/L	24.000	15.875	3	32.333	14.364	3	37.000	5.196	3	35.667	16.258	3	54.000	12.000
FLOW	P60	CFS	111.500	19.092	2	119.667	22.143	3	263.333	90.738	3	346.667	15.275	3	360.000	98.000
NH3_N	P610	mg/L	0.027	0.005	3	0.115	0.096	3	0.032	0.017	3	0.059	0.080	3	0.225	0.010
NO2_DIS	P613	mg/L	0.010	0.000	3	0.011	0.002	3	0.010	0.000	3	0.025	0.024	3	0.052	0.010K
NO2_NO3	P630	mg/L	1.183	0.196	3	1.132	0.153	3	0.791	0.107	3	0.896	0.316	3	1.400	0.618
TP_P	P665	mg/L	0.122	0.004	3	0.160	0.094	3	0.133	0.068	3	0.150	0.027	3	0.269	0.087
OP_DIS	P671	mg/L	0.097	0.007	3	0.126	0.055	3	0.106	0.055	3	0.119	0.023	3	0.190	0.073
TURB	P82079	NTU	5.067	2.386	3	6.867	3.745	3	7.533	0.473	3	8.567	1.185	3	11.000	2.400
COND	P95	umhos	328.667	20.744	3	313.333	12.423	3	207.333	14.572	3	238.667	16.623	3	351.000	192.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 45A070 Name: WENATCHEE R @ WENATCHEE

Class: A Elevation: 600 River Mile: 1.10

Location:
LOCATED 1.1 MILES FROM THE MOUTH OF THE WENATCHEE RIVER, 1.5 MILES NORTH OF WENATCHEE AT THE BRIDGE CROSSING HIGHWAYS 2-97

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
  X X X X X X X X   X X   X     X X   X X X X X X X X X X X X X X X X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.241	3.762	17	3.420	2.040	15	9.217	2.211	18	16.888	2.483	17	21.200	0.000
PRESS	P25	mmHg	746.259	5.364	17	741.427	14.682	15	742.222	4.498	18	740.561	4.713	18	757.700	693.000
OXYGEN	P300	mg/L	13.235	1.062	17	14.280	1.403	15	12.556	1.296	18	10.650	0.748	18	17.000	9.500
PCTSAT	P301	Percent	111.059	9.141	17	109.547	8.109	15	111.059	9.375	17	109.829	10.592	17	134.500	84.600
FC	P31616	#/100ml	9.353	11.768	17	11.600	31.085	15	6.250	10.123	16	24.824	31.319	17	130.000	1.000K
COD	P340	mg/L	7.200	2.251	10	5.750	1.982	8	7.889	2.934	9	5.333	1.118	9	12.000	4.000K
PH	P400	units	7.976	0.608	17	8.053	0.496	15	7.812	0.660	17	8.044	0.678	18	9.400	6.800
SUSSOL	P530	mg/L	11.588	23.577	17	6.200	8.670	15	10.611	12.195	18	3.438	1.672	16	98.000	1.000K
FLOW	P60	CFS	2906.882	5375.348	17	1544.933	670.274	15	6148.333	2820.933	18	1803.889	1841.305	18	22700.000	316.000
NH3_N	P610	mg/L	0.011	0.002	17	0.011	0.002	15	0.012	0.005	17	0.014	0.008	18	0.040	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	14	0.010	0.000	12	0.010	0.000	15	0.010	0.000	15	0.010	0.010K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.001	0.001	12	0.000	0.001	9	0.001	0.001	8	0.002	0.002	10	0.008	0.000
NO3_N	P620	mg/L	0.167	0.055	3	0.107	0.057	3	0.060	0.028	2	0.185	0.120	2	0.270	0.040
NO2_NO3	P630	mg/L	0.137	0.081	14	0.099	0.041	12	0.045	0.020	15	0.148	0.085	15	0.297	0.010K
TP_P	P665	mg/L	0.014	0.005	15	0.021	0.019	15	0.013	0.006	17	0.011	0.003	18	0.080	0.010K
OP_DIS	P671	mg/L	0.010	0.000	17	0.010	0.000	15	0.010	0.000	18	0.010	0.000	18	0.010	0.010K
COLOR	P80	Pt-Co	14.000	4.041	7	14.500	14.849	2	15.000	19.799	2	12.000	19.053	3	34.000	1.000
TURB	P82079	NTU	3.459	8.702	17	1.500	2.131	15	1.683	1.294	18	1.065	0.540	17	37.000	0.300
COND	P95	umhos	72.059	27.245	17	70.933	12.953	15	48.778	18.300	18	61.500	16.885	18	125.000	28.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 45A110 Name: WENATCHEE R NR LEAVENWORTH

Class: AA Elevation: 1665 River Mile: 35.60

Location:
LOCATED AT THE UPPER END OF TUMWATER CANYON ON THE US HIGHWAY 2 BRIDGE
AT TUMWATER CAMPGROUND

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                                        X X X X X X X X X X X X X X X X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	6.372	3.299	18	2.339	1.458	18	7.278	2.031	18	14.633	2.459	18	19.200	0.000
PRESS	P25	mmHg	718.889	6.772	18	721.133	6.878	18	716.517	4.119	18	718.161	6.492	18	735.000	704.000
OXYGEN	P300	mg/L	11.828	1.424	18	13.211	0.724	18	11.856	0.924	18	9.841	0.456	17	14.900	8.600
PCTSAT	P301	Percent	100.656	7.993	18	101.444	4.416	18	103.794	6.686	17	102.294	4.748	16	120.800	74.100
FC	P31616	#/100ml	2.944	2.711	18	1.176	0.728	17	2.235	2.728	17	3.111	2.518	18	11.000	1.000K
PH	P400	units	7.482	0.636	17	7.422	0.566	18	7.535	0.676	17	7.522	0.472	18	8.600	6.000
SUSSOL	P530	mg/L	4.833	6.653	18	5.833	8.577	18	7.444	8.713	18	2.353	1.057	17	36.000	1.000K
FLOW	P60	CFS	1722.944	2683.489	18	1157.889	612.460	18	4716.667	2217.696	18	1520.000	1534.304	18	11300.000	248.000
NH3_N	P610	mg/L	0.010	0.001	18	0.011	0.003	18	0.010	0.001	17	0.012	0.006	18	0.030	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	14	0.009	0.002	15	0.010	0.000	15	0.010	0.000	15	0.010	0.001K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	12	0.000	0.000	12	0.000	0.000	8	0.000	0.001	10	0.003	0.000
NO3_N	P620	mg/L	0.030	0.028	2	0.043	0.006	3	0.045	0.007	2	0.015	0.007	2	0.050	0.010K
NO2_NO3	P630	mg/L	0.030	0.019	15	0.055	0.025	15	0.055	0.018	15	0.012	0.005	15	0.139	0.010K
TP_P	P665	mg/L	0.011	0.003	16	0.015	0.017	18	0.012	0.003	17	0.010	0.002	18	0.080	0.002K
OP_DIS	P671	mg/L	0.010	0.000	17	0.010	0.001	18	0.010	0.000	18	0.010	0.000	17	0.010	0.004
COLOR	P80	Pt-Co	4.000	0.000	2	6.667	2.309	3	5.000	6.928	3	15.000	19.799	2	29.000	1.000
TURB	P82079	NTU	1.240	0.789	18	1.011	0.661	18	1.383	0.782	18	0.959	0.414	17	3.400	0.020
COND	P95	umhos	41.722	14.041	18	39.111	7.307	18	34.444	9.660	18	39.944	12.139	18	85.000	20.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 45B070 Name: ICICLE CR NR LEAVENWORTH Class: A Elevation: 1125 River Mile: 2.50

Location:
LOCATED AT THE BRIDGE BELOW THE LEAVENWORTH NATIONAL FISH HATCHERY
APPROXIMATELY 1.5 MILES SOUTH OF LEAVENWORTH

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	4.267	5.046	3	1.767	0.874	3	7.367	1.626	3	13.700	3.148	3	17.200	0.500
PRESS	P25	mmHg	730.167	9.339	3	735.500	5.103	3	732.400	5.205	3	726.867	7.240	3	740.700	718.800
OXYGEN	P300	mg/L	12.900	1.229	3	13.433	0.306	3	11.767	0.723	3	11.067	0.666	3	13.800	10.500
PCTSAT	P301	Percent	102.300	3.387	3	99.633	1.258	3	101.100	2.406	3	110.767	3.868	3	113.000	98.300
FC	P31616	#/100ml	1.333	0.577	3	1.333	0.577	3	2.333	2.309	3	8.667	9.866	3	20.000	1.000K
PH	P400	units	7.867	0.153	3	7.633	0.115	3	7.650	0.212	2	7.933	0.153	3	8.100	7.500
SUSSOL	P530	mg/L	2.667	2.082	3	3.333	2.082	3	8.000	10.392	3	1.667	1.155	3	20.000	1.000
FLOW	P60	CFS	132.000	41.509	3	147.000	22.605	3	1087.333	814.573	3	103.000	83.361	3	2000.000	35.000
NH3_N	P610	mg/L	0.015	0.008	3	0.016	0.002	3	0.010	0.000	3	0.019	0.011	3	0.031	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	0.032	0.023	3	0.063	0.023	3	0.040	0.036	3	0.025	0.014	3	0.082	0.010K
TP_P	P665	mg/L	0.011	0.002	3	0.011	0.001	3	0.011	0.002	3	0.011	0.001	3	0.014	0.010K
OP_DIS	P671	mg/L	0.010	0.000	2	0.010	0.000	3	0.012	0.004	3	0.011	0.002	3	0.017	0.010K
TURB	P82079	NTU	0.367	0.115	3	0.333	0.153	3	1.067	1.415	3	0.500	0.265	3	2.700	0.200
COND	P95	umhos	46.667	10.214	3	47.333	4.933	3	31.000	9.539	3	37.667	18.877	3	54.000	17.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 47B070 Name: COLUMBIA R @ CHELAN STATION Class: A Elevation: 925 River Mile: 504.10

Location:
LOCATED ON THE US HIGHWAY 97 BRIDGE AT CHELAN STATION NEAR CHELAN FALLS ON THE CHELAN/DOUGLAS COUNTY LINE

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	12.100	3.312	4	2.950	1.930	6	8.450	3.571	6	17.483	2.185	6	20.700	1.500
PRESS	P25	mmHg	740.325	9.195	4	746.683	4.055	6	740.450	4.459	6	741.517	2.513	6	753.400	732.500
OXYGEN	P300	mg/L	10.200	1.189	4	13.050	0.464	6	12.200	0.996	6	9.683	0.426	6	13.500	9.200
PCTSAT	P301	Percent	96.500	7.619	4	98.517	6.880	6	106.100	3.753	6	102.917	4.314	6	112.100	89.500
FC	P31616	#/100ml	2.000	1.414	4	1.000	0.000	6	1.833	1.329	6	1.333	0.516	6	4.000	1.000K
PH	P400	units	8.250	0.129	4	8.250	0.339	6	8.100	0.297	6	8.050	0.207	6	8.600	7.600
SUSSOL	P530	mg/L	2.250	0.957	4	2.000	0.632	6	4.000	2.757	6	2.333	1.033	6	8.000	1.000K
FLOW	P60	CFS	121600.000	20616.498	4	154916.667	35094.753	6	152683.333	41129.085	6	131416.667	33561.550	6	205000.000	81300.000
NH3_N	P610	mg/L	0.010	0.000	4	0.013	0.005	6	0.015	0.009	6	0.012	0.002	6	0.033	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	6	0.010	0.000	6	0.010	0.000	6	0.010	0.010K
NO2_NO3	P630	mg/L	0.090	0.019	4	0.142	0.023	6	0.119	0.093	6	0.047	0.015	6	0.294	0.033
TP_P	P665	mg/L	0.015	0.006	4	0.019	0.009	6	0.013	0.003	6	0.014	0.005	6	0.030	0.010K
OP_DIS	P671	mg/L	0.013	0.006	3	0.010	0.000	6	0.010	0.000	6	0.011	0.002	6	0.020	0.010K
TURB	P82079	NTU	0.775	0.171	4	0.833	0.408	6	1.783	1.398	6	0.800	0.395	6	4.200	0.400
COND	P95	umhos	129.250	16.721	4	138.500	11.692	6	131.167	17.151	6	126.500	6.656	6	157.000	111.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 48A070 Name: METHOW R NR PATEROS

Class: A Elevation: 870 River Mile: 5.00

Location:
LOCATED 5 MILES FROM THE MOUTH OF THE METHOW RIVER, 3.6 MILES FROM THE JUNCTION OF HIGHWAYS 153 AND 97 AT THE BRIDGE ON HIGHWAY 153 NORTHWEST OF PATEROS

Water Years Sampled:

5	6						7									8												9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
X	X	X	X	X	X	X							X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	5.450	3.746	18	3.573	2.763	15	10.144	2.228	18	15.594	2.599	18	19.800	-0.100
PRESS	P25	mmHg	738.506	7.460	18	740.613	7.244	15	736.928	6.333	18	735.283	5.552	18	756.000	720.000
OXYGEN	P300	mg/L	12.667	1.309	18	13.340	1.398	15	11.300	0.659	18	9.972	0.511	18	17.300	9.000
PCTSAT	P301	Percent	102.367	4.879	18	102.687	5.321	15	102.888	5.432	17	102.871	3.836	17	119.000	88.100
FC	P31616	#/100ml	1.833	1.425	18	1.067	0.258	15	14.611	20.109	18	7.667	7.460	18	65.000	1.000K
PH	P400	units	8.150	0.301	18	8.280	0.451	15	8.028	0.265	18	8.333	0.423	18	9.500	7.100
SUSSOL	P530	mg/L	2.111	1.451	18	4.467	6.978	15	14.500	16.999	18	3.056	2.960	18	68.000	1.000K
FLOW	P60	CFS	500.833	386.734	18	401.800	127.720	15	3300.222	2351.249	18	924.167	818.905	18	8300.000	253.000
NH3_N	P610	mg/L	0.010	0.000	18	0.011	0.003	15	0.011	0.002	17	0.012	0.005	17	0.030	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	14	0.009	0.002	13	0.010	0.000	15	0.010	0.000	15	0.010	0.002
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	12	0.001	0.001	9	0.000	0.001	8	0.001	0.000	10	0.003	0.000
NO3_N	P620	mg/L	0.230	0.000	2	0.207	0.032	3	0.065	0.049	2	0.205	0.106	2	0.280	0.030
NO2_NO3	P630	mg/L	0.181	0.056	15	0.181	0.061	13	0.053	0.030	15	0.116	0.064	15	0.280	0.018
TP_P	P665	mg/L	0.011	0.003	16	0.017	0.018	15	0.013	0.008	17	0.010	0.001	18	0.070	0.002K
OP_DIS	P671	mg/L	0.010	0.000	17	0.010	0.002	15	0.010	0.000	18	0.010	0.000	18	0.010	0.003
COLOR	P80	Pt-Co	4.000	0.000	2	4.000	0.000	2	3.333	4.041	3	11.000	14.142	2	21.000	1.000
TURB	P82079	NTU	1.033	1.028	18	1.560	2.392	15	2.533	2.988	18	0.778	0.328	18	12.000	0.300
COND	P95	umhos	176.056	41.748	18	175.867	14.362	15	103.944	37.106	18	144.333	36.771	18	300.000	64.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 48A140 Name: METHOW R @ TWISP

Class: A Elevation: 1552 River Mile: 39.40

Location:
THE INTERSECTION WITH WAGNER RD (GAGE HOUSE .5 MILE UP WAGNER RD).
THIS STATION WAS ACTIVATED 881001 IN LIEU OF STATION 48A130. THIS SITE
WAS NOT USED PREVIOUSLY DUE TO A WARM OUTFALL FROM THE NOW DEFUNCT PINE
MILL APPROXIMATELY 100-150 FEET UPSTREAM.

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                                                          X X X   X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	4.625	2.438	12	2.967	2.123	12	7.108	1.410	12	12.483	1.864	12	15.500	0.000
PRESS	P25	mmHg	717.925	5.465	12	722.900	4.551	12	719.875	4.983	12	720.258	3.567	12	730.500	710.400
OXYGEN	P300	mg/L	12.525	0.851	12	12.767	0.604	12	11.533	0.470	12	10.008	0.728	12	14.100	7.900
PCTSAT	P301	Percent	102.408	4.544	12	99.442	3.673	12	99.936	2.194	11	98.827	9.546	11	111.700	71.400
FC	P31616	#/100ml	3.833	4.064	12	1.917	1.832	12	16.667	20.415	12	12.000	13.115	12	68.000	1.000K
PH	P400	units	8.100	0.252	12	8.433	0.419	12	7.917	0.289	12	8.067	0.368	12	8.900	7.300
SUSSOL	P530	mg/L	1.917	1.621	12	1.667	0.778	12	12.417	13.641	12	1.750	1.215	12	39.000	1.000K
FLOW	P60	CFS	544.667	475.619	12	314.000	123.441	11	3456.167	2450.125	12	1022.750	938.553	12	7600.000	193.000
NH3_N	P610	mg/L	0.011	0.003	12	0.011	0.002	12	0.011	0.001	12	0.014	0.010	12	0.040	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	11	0.010	0.002	12	0.010	0.000	12	0.010	0.000	12	0.010	0.004
NH3_UN	P619	mg/L	0.000	0.000	3	0.000	0.000	0	0.000	0.000	2	0.000	0.000	0	0.001	0.000
NO2_NO3	P630	mg/L	0.123	0.039	12	0.122	0.026	12	0.053	0.033	12	0.094	0.057	12	0.210	0.016
TP_P	P665	mg/L	0.010	0.000	10	0.015	0.021	12	0.013	0.006	12	0.011	0.003	12	0.080	0.002K
OP_DIS	P671	mg/L	0.010	0.000	11	0.009	0.002	12	0.010	0.000	12	0.010	0.000	12	0.010	0.002
TURB	P82079	NTU	0.792	0.337	12	1.000	1.061	12	2.442	2.872	12	0.583	0.361	12	10.000	0.200
COND	P95	umhos	133.083	24.733	12	141.833	9.183	12	94.750	34.275	12	124.250	26.506	12	175.000	60.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 49A070 Name: OKANOGAN R @ MALOTT

Class: A Elevation: 780 River Mile: 17.00

Location:
LOCATED AT THE MALOTT BRIDGE CROSSING THE OKANOGAN RIVER, JUST WEST OF HIGHWAY 97

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                  X X X X   X     X X   X X X X X X X X X X X X X X X X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	6.306	4.546	18	2.927	2.616	11	12.117	3.019	18	19.422	2.722	18	24.900	-0.100
PRESS	P25	mmHg	741.817	7.211	18	743.800	3.713	11	740.344	5.851	18	739.689	4.903	18	752.300	725.000
OXYGEN	P300	mg/L	11.750	1.701	18	12.500	1.281	11	10.322	0.632	18	8.494	0.754	18	14.500	7.300
PCTSAT	P301	Percent	96.100	6.981	18	94.218	5.312	11	97.588	4.361	17	94.053	4.544	17	115.200	80.200
FC	P31616	#/100ml	19.882	34.652	17	3.400	2.547	10	38.944	34.278	18	36.333	21.379	18	150.000	1.000K
PH	P400	units	8.078	0.296	18	8.373	0.265	11	8.033	0.214	18	8.211	0.325	18	8.800	7.100
SUSSOL	P530	mg/L	29.944	94.610	18	27.000	61.303	11	53.833	66.920	18	11.056	10.361	18	405.000	1.000K
FLOW	P60	CFS	1700.389	2177.448	18	1668.909	1333.836	11	6265.000	5158.096	18	2439.722	2073.867	18	16800.000	348.000
NH3_N	P610	mg/L	0.016	0.015	18	0.017	0.021	11	0.015	0.011	17	0.014	0.008	18	0.080	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	14	0.010	0.000	10	0.010	0.000	15	0.010	0.000	15	0.010	0.010K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	12	0.001	0.001	6	0.000	0.001	8	0.001	0.000	10	0.002	0.000
NO3_N	P620	mg/L	0.035	0.021	2	0.043	0.021	3	0.030	0.014	2	0.025	0.021	2	0.060	0.010K
NO2_NO3	P630	mg/L	0.055	0.029	15	0.067	0.044	10	0.017	0.010	15	0.021	0.013	15	0.170	0.010K
TP_P	P665	mg/L	0.034	0.054	16	0.073	0.165	11	0.049	0.052	17	0.020	0.008	18	0.571	0.010K
OP_DIS	P671	mg/L	0.010	0.000	17	0.025	0.051	11	0.010	0.000	18	0.010	0.000	18	0.180	0.010K
COLOR	P80	Pt-Co	6.000	2.828	2	24.000	20.704	4	10.333	8.327	3	15.000	19.799	2	46.000	1.000
TURB	P82079	NTU	12.650	41.288	18	9.155	24.174	11	9.839	12.232	18	1.672	0.813	18	176.000	0.800
COND	P95	umhos	246.611	75.120	18	264.000	36.368	11	155.611	64.533	18	226.333	55.342	18	360.000	86.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 49A190 Name: OKANOGAN R @ OROVILLE

Class: A Elevation: 1040 River Mile: 78.00

Location:
LOCATED AT THE BRIDGE ON CHERRY (BRIDGE ST.) STREET ALSO KNOWN AS THE OROVILLE-CHESAW HIGHWAY

Water Years Sampled:

5	6						7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
	X	X	X	X	X	X	X										X	X		X	X	X	X	X	X	X	X	X	X	X	X		X			

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	9.207	4.384	15	2.133	1.625	15	13.400	4.326	15	20.867	1.881	15	24.800	0.000
PRESS	P25	mmHg	739.627	7.425	15	743.620	5.133	15	739.307	5.805	15	738.007	5.926	15	756.000	722.000
OXYGEN	P300	mg/L	10.433	1.256	15	13.713	0.886	15	11.027	1.283	15	9.057	0.807	14	15.400	7.800
PCTSAT	P301	Percent	92.160	6.484	15	101.860	9.582	15	105.343	5.901	14	104.208	12.348	13	130.400	80.000
FC	P31616	#/100ml	12.154	21.675	13	3.091	3.208	11	5.000	5.323	13	14.308	17.499	13	80.000	1.000K
PH	P400	units	8.300	0.424	15	8.427	0.310	15	8.600	0.230	15	8.573	0.234	15	9.400	7.500
SUSSOL	P530	mg/L	4.400	2.324	15	96.733	360.542	15	4.733	1.534	15	4.267	1.870	15	1400.000	1.000
FLOW	P60	CFS	270.000	126.591	15	413.933	444.843	15	955.000	960.941	15	878.667	710.410	15	3400.000	58.000
NH3_N	P610	mg/L	0.016	0.007	14	0.013	0.008	15	0.012	0.006	14	0.017	0.017	15	0.070	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	11	0.009	0.002	12	0.010	0.000	12	0.010	0.000	12	0.010	0.002
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.010
NH3_UN	P619	mg/L	0.001	0.001	12	0.001	0.001	12	0.002	0.001	8	0.002	0.003	10	0.010	0.000
NO3_N	P620	mg/L	0.020	0.014	2	0.023	0.023	3	0.020	0.000	2	0.010	0.000	2	0.050	0.010K
NO2_NO3	P630	mg/L	0.045	0.037	11	0.075	0.027	12	0.016	0.017	12	0.010	0.000	12	0.110	0.010K
TP_P	P665	mg/L	0.024	0.008	12	0.020	0.020	15	0.015	0.006	14	0.015	0.005	15	0.090	0.002
OP_DIS	P671	mg/L	0.010	0.000	14	0.010	0.000	13	0.010	0.000	15	0.010	0.000	15	0.010	0.010K
COLOR	P80	Pt-Co	12.500	6.364	2	14.333	2.309	3	7.333	6.028	3	9.000	11.314	2	17.000	1.000
TURB	P82079	NTU	1.727	1.584	15	1.167	0.598	15	1.513	0.463	15	1.800	0.861	15	7.000	0.600
COND	P95	umhos	288.533	24.272	15	294.200	17.981	15	291.000	24.536	15	275.467	59.565	15	480.000	228.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 49B070 Name: SIMILKAMEEN R @ OROVILLE

Class: A Elevation: 960 River Mile: 5.00

Location:
LOCATED .2 MILES WEST OF HIGHWAY 97 AT THE BRIDGE ON 12TH AVENUE
(WANNACUT LAKE ROAD) IN OROVILLE

Water Years Sampled:

5	6						7									8												9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
	X	X	X	X	X	X										X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	5.544	4.093	18	2.471	2.350	14	10.261	3.170	18	17.117	2.811	18	22.400	-0.200
PRESS	P25	mmHg	739.422	6.923	18	741.871	5.340	14	738.511	5.994	18	738.244	5.662	18	755.000	722.000
OXYGEN	P300	mg/L	12.611	1.713	18	13.543	1.322	14	11.767	0.822	18	9.544	0.699	18	17.000	8.400
PCTSAT	P301	Percent	101.678	6.710	18	101.186	5.080	14	106.671	4.696	17	100.988	3.227	17	117.100	82.200
FC	P31616	#/100ml	3.688	6.681	16	1.692	1.974	13	15.882	17.011	17	12.813	13.080	16	58.000	1.000K
PH	P400	units	8.133	0.461	18	8.450	0.524	14	8.211	0.389	18	8.328	0.339	18	9.100	7.100
SUSSOL	P530	mg/L	19.278	50.729	18	5.500	8.055	14	43.167	64.644	18	5.944	7.696	18	248.000	1.000K
FLOW	P60	CFS	1363.444	1924.880	18	889.167	573.006	12	5046.944	3661.826	18	1651.722	1612.830	18	12500.000	195.000
NH3_N	P610	mg/L	0.013	0.010	18	0.011	0.003	14	0.015	0.016	17	0.012	0.006	18	0.074	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	14	0.010	0.000	12	0.010	0.000	15	0.010	0.000	15	0.010	0.010K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	12	0.001	0.001	7	0.001	0.001	8	0.001	0.001	10	0.003	0.000
NO3_N	P620	mg/L	0.025	0.021	2	0.010	0.000	3	0.025	0.007	2	0.010	0.000	2	0.040	0.010K
NO2_NO3	P630	mg/L	0.024	0.017	15	0.028	0.020	12	0.014	0.009	15	0.011	0.003	15	0.070	0.010K
TP_P	P665	mg/L	0.025	0.042	16	0.019	0.020	14	0.028	0.032	17	0.012	0.005	18	0.180	0.009
OP_DIS	P671	mg/L	0.010	0.000	17	0.010	0.000	14	0.010	0.000	18	0.010	0.000	18	0.010	0.010K
COLOR	P80	Pt-Co	4.000	0.000	2	19.857	12.602	7	15.333	10.599	3	21.500	28.991	2	80.000	1.000
TURB	P82079	NTU	5.856	17.107	18	1.679	1.874	14	8.122	11.148	18	1.789	0.902	18	74.000	0.600
COND	P95	umhos	176.056	44.798	18	195.143	21.300	14	122.667	45.293	18	167.278	36.146	18	240.000	80.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 51A070 Name: NESPELEM R @ NESPELEM

Class: A Elevation: 1815 River Mile: 5.40

Location:
LOCATED AT THE BRIDGE ON STATE HIGHWAY 155, IMMEDIATELY WEST OF THE TOWN OF NESPELEM

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                                        X X X X X X X X X X X   X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	5.407	1.717	15	3.157	1.628	14	10.127	2.788	15	12.280	1.287	15	14.100	0.000
PRESS	P25	mmHg	718.053	7.271	15	721.114	5.344	14	716.187	5.245	15	712.900	7.337	15	730.000	698.000
OXYGEN	P300	mg/L	11.233	1.306	15	12.236	0.903	14	10.347	0.760	15	9.880	0.850	15	14.200	8.400
PCTSAT	P301	Percent	93.687	7.732	15	96.071	6.400	14	96.493	6.438	14	97.050	8.302	14	111.700	77.500
FC	P31616	#/100ml	75.000	67.417	15	48.429	39.531	14	50.857	38.654	14	130.200	123.696	15	350.000	4.000
PH	P400	units	7.960	0.307	15	8.036	0.332	14	7.907	0.228	15	8.053	0.479	15	9.200	7.300
SUSSOL	P530	mg/L	4.867	3.777	15	6.500	3.590	14	11.067	13.987	15	3.267	1.710	15	58.000	1.000K
FLOW	P60	CFS	11.333	3.994	15	16.154	10.761	13	73.733	41.004	15	14.073	7.213	15	145.000	4.000
NH3_N	P610	mg/L	0.013	0.004	15	0.012	0.004	13	0.014	0.007	14	0.014	0.007	15	0.031	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	12	0.009	0.003	11	0.010	0.000	12	0.010	0.000	12	0.010	0.001K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	14	0.000	0.000	12	0.000	0.000	8	0.001	0.001	10	0.002	0.000
NO3_N	P620	mg/L	0.210	0.128	3	0.103	0.006	3	0.065	0.021	2	0.180	0.028	2	0.350	0.050
NO2_NO3	P630	mg/L	0.348	0.326	12	0.311	0.139	10	0.083	0.035	12	0.107	0.046	12	1.350	0.032
TP_P	P665	mg/L	0.037	0.015	12	0.041	0.025	13	0.025	0.009	14	0.029	0.009	15	0.110	0.010K
OP_DIS	P671	mg/L	0.023	0.006	15	0.018	0.006	14	0.012	0.004	15	0.016	0.006	15	0.032	0.010K
COLOR	P80	Pt-Co	13.000	0.000	3	19.000	2.828	2	25.500	12.021	2	17.333	28.290	3	50.000	1.000
TURB	P82079	NTU	1.187	0.677	15	1.621	0.789	14	2.347	2.245	15	1.233	0.358	15	10.000	0.400
COND	P95	umhos	215.867	29.301	15	195.000	27.087	14	128.267	22.883	15	212.571	35.914	14	250.000	86.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 52A070 Name: SANPOIL R @ KELLER

Class: AA Elevation: 1360 River Mile: 11.70

Location:
LOCATED 11.7 MILES FROM THE MOUTH OF THE SANPOIL RIVER, .4 MILES ABOVE JACK CREEK AND .4 MILES NORTHWEST OF KELLER AT THE BRIDGE ON THE SILVER CREEK ROAD

Water Years Sampled:

5	6											7												8												9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4				
	X	X	X	X	X	X							X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X						

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	3.773	2.915	15	1.538	1.749	13	10.100	3.630	15	14.980	2.028	15	18.000	-0.100
PRESS	P25	mmHg	730.007	6.587	15	731.500	5.288	13	722.680	5.858	15	723.400	5.942	15	740.000	710.000
OXYGEN	P300	mg/L	12.640	1.227	15	13.423	1.117	13	10.740	0.899	15	9.880	0.688	15	15.500	8.800
PCTSAT	P301	Percent	99.287	6.413	15	99.415	5.215	13	99.329	5.534	14	102.236	6.648	14	114.100	84.500
FC	P31616	#/100ml	11.333	7.480	15	3.308	2.658	13	15.000	11.563	15	28.600	33.615	15	130.000	1.000K
PH	P400	units	8.067	0.379	15	8.092	0.411	13	8.107	0.252	15	8.307	0.294	15	8.900	7.200
SUSSOL	P530	mg/L	2.600	1.404	15	4.769	5.510	13	23.200	18.701	15	4.600	3.481	15	70.000	1.000K
FLOW	P60	CFS	47.214	34.843	14	149.231	76.781	13	416.533	222.230	15	81.333	69.980	15	890.000	11.000
NH3_N	P610	mg/L	0.010	0.000	15	0.012	0.004	13	0.013	0.005	14	0.015	0.011	15	0.040	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	12	0.009	0.003	10	0.010	0.000	12	0.010	0.000	12	0.010	0.001K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	13	0.000	0.000	12	0.001	0.001	8	0.001	0.001	10	0.002	0.000
NO3_N	P620	mg/L	0.040	0.052	3	0.073	0.055	3	0.050	0.057	2	0.010	0.000	2	0.110	0.010K
NO2_NO3	P630	mg/L	0.013	0.010	12	0.206	0.551	10	0.036	0.032	12	0.012	0.007	12	1.770	0.010K
TP_P	P665	mg/L	0.027	0.007	13	0.046	0.034	13	0.052	0.015	14	0.031	0.013	15	0.125	0.010
OP_DIS	P671	mg/L	0.017	0.006	15	0.024	0.015	13	0.024	0.006	15	0.019	0.008	15	0.070	0.010K
COLOR	P80	Pt-Co	12.500	6.364	2	23.000	21.213	2	19.000	8.485	2	7.667	11.547	3	76.000	1.000
TURB	P82079	NTU	1.013	0.589	15	1.677	1.397	13	4.960	3.640	15	1.420	0.826	15	13.000	0.400
COND	P95	umhos	195.600	23.366	15	183.231	23.735	13	142.733	22.749	15	199.000	19.454	14	223.000	91.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 52A190 Name: SANPOIL R ABV REPUBLIC

Class: AA Elevation: 2414 River Mile: 59.50

Location:
LOCATED AT THE PRIVATE BRIDGE OFF STATE HIGHWAY 20, 1.6 MILES EAST OF THE JUNCTION OF STATE HIGHWAYS 20 AND 21 IN REPUBLIC AND DOWNSTREAM FROM THE CONFLUENCE OF O'BRIEN CREEK

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
																	X																		X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	2.233	0.850	3	0.967	0.651	3	7.267	4.805	3	10.933	2.122	3	12.400	0.300
PRESS	P25	mmHg	706.967	3.675	3	709.600	2.621	3	704.600	1.732	3	712.000	7.793	3	720.900	702.600
OXYGEN	P300	mg/L	11.867	0.208	3	12.200	0.100	3	11.633	2.919	3	10.100	0.819	3	15.000	9.400
PCTSAT	P301	Percent	92.833	2.650	3	91.867	1.986	3	102.033	13.232	3	97.100	2.615	3	117.100	89.700
FC	P31616	#/100ml	4.333	2.517	3	22.000	35.511	3	71.667	50.836	3	33.000	17.436	3	110.000	1.000K
PH	P400	units	7.800	0.100	3	7.633	0.153	3	8.200	0.529	3	8.067	0.416	3	8.800	7.500
SUSSOL	P530	mg/L	2.333	1.155	3	5.667	4.726	3	54.333	77.694	3	5.667	2.082	3	144.000	1.000K
FLOW	P60	CFS	3.333	3.329	3	2.433	0.503	3	62.000	46.776	3	27.400	8.528	3	116.000	0.500
NH3_N	P610	mg/L	0.016	0.007	3	0.097	0.136	3	0.012	0.003	3	0.016	0.011	3	0.254	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	0.070	0.067	3	0.201	0.034	3	0.105	0.097	3	0.026	0.014	3	0.240	0.010K
TP_P	P665	mg/L	0.043	0.003	3	0.065	0.035	3	0.118	0.113	3	0.045	0.002	3	0.247	0.035
OP_DIS	P671	mg/L	0.032	0.002	3	0.045	0.020	3	0.036	0.016	3	0.032	0.005	3	0.068	0.023
TURB	P82079	NTU	0.533	0.153	3	0.900	0.436	3	11.167	14.671	3	1.400	0.000	3	28.000	0.400
COND	P95	umhos	182.667	32.083	3	183.333	24.705	3	126.000	27.495	3	172.667	4.163	3	216.000	96.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 53A070 Name: COLUMBIA R @ GRAND COULEE

Class: AA Elevation: 950 River Mile: 596.00

Location:
LOCATED AT THE COULEE DAM BRIDGE .5 MILES BELOW GRAND COULEE DAM

Water Years Sampled:

5	6									7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
													X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X		

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	13.607	3.218	14	2.550	1.066	12	8.767	3.197	12	17.200	1.583	12	19.300	1.000
PRESS	P25	mmHg	740.086	8.218	14	741.517	4.681	12	733.450	5.120	12	731.942	5.784	12	757.900	722.000
OXYGEN	P300	mg/L	9.293	0.888	14	12.800	0.721	12	12.125	0.938	12	9.258	0.784	12	14.100	7.600
PCTSAT	P301	Percent	90.821	4.018	14	96.217	6.011	12	106.945	5.590	11	98.764	6.240	11	117.100	81.000
FC	P31616	#/100ml	1.000	0.000	14	1.167	0.577	12	1.000	0.000	12	1.000	0.000	11	3.000	1.000K
PH	P400	units	7.636	0.457	14	7.842	0.550	12	8.025	0.234	12	7.942	0.131	12	8.500	6.800
SUSSOL	P530	mg/L	2.500	1.743	14	2.000	1.206	12	2.583	1.676	12	1.455	0.688	11	6.000	1.000K
FLOW	P60	CFS	139700.000	30596.229	14	147558.333	30592.021	12	143416.667	51557.291	12	105075.000	19617.252	12	218000.000	53800.000
NH3_N	P610	mg/L	0.010	0.001	14	0.014	0.007	12	0.020	0.007	11	0.020	0.011	12	0.040	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	11	0.009	0.003	9	0.010	0.000	9	0.010	0.000	9	0.010	0.001K
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.000	0.000	14	0.000	0.000	12	0.000	0.001	8	0.000	0.000	10	0.001	0.000
NO3_N	P620	mg/L	0.093	0.012	3	0.093	0.029	3	0.075	0.049	2	0.060	0.028	2	0.110	0.040
NO2_NO3	P630	mg/L	0.086	0.011	11	0.134	0.016	9	0.099	0.086	9	0.057	0.036	9	0.290	0.020
TP_P	P665	mg/L	0.019	0.007	12	0.027	0.025	11	0.019	0.012	11	0.014	0.005	11	0.100	0.010K
OP_DIS	P671	mg/L	0.016	0.008	14	0.035	0.065	12	0.011	0.003	12	0.012	0.004	12	0.240	0.010K
COLOR	P80	Pt-Co	5.333	2.309	3	9.000	11.314	2	9.000	11.314	2	13.333	21.362	3	38.000	1.000
TURB	P82079	NTU	0.807	0.308	14	1.233	0.837	12	1.317	0.860	12	0.825	0.209	12	3.000	0.300
COND	P95	umhos	127.500	16.556	14	143.333	12.242	12	140.667	29.604	12	127.455	8.641	11	210.000	80.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 54A050 Name: SPOKANE R @ MOUTH

Class: A Elevation: 129 River Mile: 1.70

Location:
LOCATED ON THE STATE HIGHWAY 25 BRIDGE AT THE MOUTH OF THE SPOKANE RIVER
ADJACENT TO FORT SPOKANE ON THE LINCOLN/STEVENS COUNTY LINE

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                                                                X X X X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	11.729	3.907	7	3.175	1.955	8	11.311	4.738	9	21.011	1.153	9	23.000	0.900J
ZN	P1094	ug/L	0.000	0.000	0	72.000	16.971	2	53.667	8.386	3	17.333	5.508	3	84.000	11.000P
CR	P1118	ug/L	0.000	0.000	0	0.385	0.021	2	0.000	0.000	0	0.000	0.000	0	0.450	0.360P
PRESS	P25	mmHg	734.314	3.908	7	733.257	4.799	7	726.911	3.114	9	725.600	1.412	9	738.100	721.600
OXYGEN	P300	mg/L	9.157	1.204	7	12.263	0.873	8	11.933	1.213	9	8.867	0.539	9	14.100	7.800
PCTSAT	P301	Percent	86.414	6.058	7	94.900	7.845	8	112.756	7.435	9	103.378	6.912	9	125.000	81.400
FC	P31616	#/100ml	1.714	1.890	7	1.500	1.414	8	1.111	0.333	9	1.125	0.354	8	6.000	1.000K
PH	P400	units	7.829	0.206	7	7.738	0.250	8	8.156	0.328	9	8.211	0.209	9	8.600	7.300
SUSSOL	P530	mg/L	2.143	0.900	7	3.125	1.246	8	5.000	3.536	9	1.889	0.782	9	12.000	1.000K
NH3_N	P610	mg/L	0.023	0.021	7	0.031	0.024	8	0.023	0.017	9	0.015	0.007	9	0.084	0.010K
NO2_DIS	P613	mg/L	0.015	0.006	7	0.011	0.003	8	0.009	0.002	9	0.010	0.001	9	0.023	0.003
NO2_NO3	P630	mg/L	0.360	0.129	7	0.402	0.150	8	0.264	0.315	9	0.207	0.091	9	1.040	0.038
TP_P	P665	mg/L	0.014	0.004	7	0.026	0.014	8	0.019	0.014	9	0.011	0.003	9	0.052	0.010K
OP_DIS	P671	mg/L	0.012	0.004	7	0.018	0.009	8	0.012	0.005	9	0.010	0.000	9	0.035	0.010K
HG	P71900	ug/L	0.000	0.000	0	0.040	0.000	2	0.040	0.000	3	0.184	0.125	3	0.300	0.040K
TURB	P82079	NTU	0.829	0.256	7	2.588	2.705	8	3.189	3.308	9	1.244	0.581	9	11.000	0.500
HARD	P900	mg/L	0.000	0.000	0	42.500	10.607	2	35.667	7.024	3	49.333	6.506	3	74.000	29.000
COND	P95	umhos	163.857	19.878	7	128.750	22.154	8	93.667	15.058	9	120.444	20.255	9	186.000	65.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 54A120 Name: SPOKANE R @ RIVERSIDE STATE PK Class: A Elevation: 1640 River Mile: 66.00

Location:
LOCATED IN SPOKANE AT RIVERSIDE STATE PARK ON THE WOODEN, SWINGING, FOOT BRIDGE

Water Years Sampled:

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5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                                X X X X X X X X X X X X X X X X X X X X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	9.750	2.911	18	4.006	1.210	18	9.800	4.319	18	16.922	1.551	18	19.200	1.000
ZN	P1094	ug/L	64.750	36.688	12	91.000	20.489	12	90.083	31.237	12	34.700	13.833	10	143.000	9.000J
CD	P1113	ug/L	0.209	0.047	9	0.398	0.187	12	0.617	0.237	10	0.214	0.083	9	1.100	0.100K
PB	P1114	ug/L	1.467	0.454	12	4.933	6.569	12	2.600	1.544	7	1.650	0.562	10	24.300	1.000U
CR	P1118	ug/L	1.032	1.274	12	2.392	5.622	11	1.189	1.716	10	0.687	0.355	9	19.300	0.200K
CU	P1119	ug/L	4.117	2.991	12	6.567	10.222	12	2.700	1.889	10	3.333	1.414	9	36.000	1.000U
PRESS	P25	mmHg	719.017	9.597	18	720.524	7.718	17	717.378	4.365	18	715.835	9.025	17	735.000	692.400
OXYGEN	P300	mg/L	11.494	1.237	18	13.350	0.801	18	12.839	1.588	18	10.094	0.433	18	15.300	7.800
PCTSAT	P301	Percent	106.294	8.834	18	107.400	7.273	18	118.647	5.747	17	109.794	3.732	17	131.800	77.400
FC	P31616	#/100ml	124.833	362.256	18	153.250	384.023	16	16.588	21.619	17	18.778	24.211	18	1533.000	1.000K
COD	P340	mg/L	14.273	26.507	11	17.818	23.566	11	8.500	4.442	12	6.600	3.098	10	94.000	2.000K
PH	P400	units	8.172	0.369	18	7.750	0.349	18	8.012	0.406	17	8.344	0.204	18	8.700	7.100
SUSSOL	P530	mg/L	2.222	1.114	18	89.941	293.228	17	11.167	21.097	18	2.824	1.468	17	1200.000	1.000K
FLOW	P60	CFS	3228.889	3347.510	18	5510.000	4108.415	18	12107.222	5800.183	18	1869.167	1263.417	18	24100.000	302.000
NH3_N	P610	mg/L	0.134	0.121	18	0.111	0.082	17	0.056	0.033	17	0.213	0.233	17	0.654	0.010K
NO2_DIS	P613	mg/L	0.022	0.031	15	0.010	0.000	15	0.010	0.003	15	0.017	0.013	14	0.130	0.002
NO2_N	P615	mg/L	0.010	0.000	3	0.013	0.006	3	0.010	0.000	2	0.013	0.006	3	0.010	0.010K
NH3_UN	P619	mg/L	0.003	0.006	13	0.001	0.001	13	0.000	0.000	10	0.011	0.013	9	0.043	0.000
NO3_N	P620	mg/L	0.355	0.021	2	0.503	0.337	3	0.110	0.042	2	0.933	0.289	3	0.820	0.080
NO2_NO3	P630	mg/L	0.428	0.182	15	0.604	0.418	14	0.201	0.123	15	0.776	0.279	15	1.800	0.060
TP_P	P665	mg/L	0.045	0.027	15	0.081	0.052	18	0.026	0.015	17	0.029	0.015	18	0.200	0.010K
OP_DIS	P671	mg/L	0.035	0.027	17	0.056	0.029	18	0.013	0.006	18	0.015	0.007	18	0.100	0.010K
HG	P71900	ug/L	0.058	0.015	11	0.050	0.024	11	0.061	0.017	9	0.063	0.018	9	0.110	0.020K
COLOR	P80	Pt-Co	10.143	5.581	7	22.000	24.249	3	7.667	11.547	3	27.000	2.828	2	50.000	1.000
TURB	P82079	NTU	1.633	2.840	18	22.694	52.517	18	3.322	4.469	18	1.117	0.416	18	210.000	0.500
HARD	P900	mg/L	59.833	16.711	12	49.083	11.859	12	31.833	6.562	12	84.917	23.306	12	121.000	22.000
COND	P95	umhos	127.944	34.637	18	133.611	93.811	18	77.111	14.046	18	188.444	51.943	18	497.000	59.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 56A070 Name: HANGMAN CR @ MOUTH

Class: A Elevation: 1720 River Mile: 0.60

Location:
LOCATED AT THE MOUTH OF HANGMAN CREEK AT RIVERSIDE AVENUE BRIDGE IN SPOKANE

Water Years Sampled:

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5 6                 7                   8                   9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
                                X       X X X X X X X X X X X X X   X
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VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	7.300	4.677	15	2.058	2.151	12	13.507	4.870	15	20.600	2.401	15	24.800	-0.100
PRESS	P25	mmHg	718.680	7.864	15	718.017	8.282	12	716.493	4.535	15	714.647	5.517	15	731.000	705.000
OXYGEN	P300	mg/L	13.580	1.332	15	12.575	1.074	12	10.647	1.080	15	12.173	1.684	15	15.900	8.800
PCTSAT	P301	Percent	119.513	21.731	15	96.200	5.913	12	106.200	9.709	14	141.064	21.288	14	173.900	80.600
FC	P31616	#/100ml	45.667	102.946	15	160.000	215.833	11	133.143	255.539	14	120.667	166.917	15	960.000	3.000K
PH	P400	units	8.427	0.369	15	7.558	0.320	12	8.136	0.429	14	8.687	0.213	15	9.000	7.000
SUSSOL	P530	mg/L	8.133	5.854	15	372.727	729.120	11	92.133	224.759	15	11.143	11.694	14	1980.000	2.000
FLOW	P60	CFS	17.393	18.011	15	715.833	1013.196	12	366.133	657.170	15	11.367	6.278	15	2850.000	1.000
NH3_N	P610	mg/L	0.021	0.023	15	0.103	0.074	11	0.034	0.022	14	0.037	0.047	14	0.250	0.010K
NO2_DIS	P613	mg/L	0.011	0.003	12	0.018	0.008	10	0.012	0.007	12	0.017	0.010	11	0.040	0.004
NO2_N	P615	mg/L	0.013	0.006	3	0.023	0.012	3	0.010	0.000	2	0.027	0.012	3	0.020	0.010
NH3_UN	P619	mg/L	0.001	0.001	13	0.001	0.001	12	0.002	0.002	11	0.024	0.055	9	0.170	0.000
NO3_N	P620	mg/L	2.915	2.949	2	5.667	2.532	3	0.420	0.286	3	0.670	0.551	3	7.600	0.100
NO2_NO3	P630	mg/L	1.005	0.980	12	4.733	2.028	10	1.169	1.040	12	0.784	0.357	12	9.100	0.185
TP_P	P665	mg/L	0.052	0.043	13	0.228	0.143	12	0.103	0.076	14	0.078	0.075	15	0.540	0.010K
OP_DIS	P671	mg/L	0.032	0.018	15	0.083	0.021	12	0.040	0.023	15	0.033	0.027	15	0.112	0.010K
COLOR	P80	Pt-Co	86.714	73.086	7	82.000	84.870	3	22.333	15.044	3	56.500	9.192	2	180.000	8.000
TURB	P82079	NTU	5.313	9.359	15	110.875	128.135	12	25.713	39.903	15	9.773	19.578	15	395.000	0.800
COND	P95	umhos	329.467	52.168	15	183.417	74.254	12	186.667	50.021	15	355.867	49.954	15	445.000	90.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 57A150 Name: SPOKANE R @ STATELINE BR

Class: A Elevation: 1980 River Mile: 96.00

Location:
LOCATED AT THE BRIDGE ON STATELINE VILLAGE ROAD, .1 MILE WEST OF THE WASHINGTON-IDAHO BORDER, 0.1 MILE NORTH OF I-90.

Water Years Sampled:

5	6						7							8							9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
X	X	X	X	X	X	X				X	X	X		X			X						X	X	X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	8.943	3.677	7	2.378	1.398	9	9.678	4.825	9	19.356	2.135	9	22.600	0.800
ZN	P1094	ug/L	103.000	2.828	2	110.250	13.150	4	115.000	20.518	3	68.333	2.082	3	135.000	66.000
CD	P1113	ug/L	0.395	0.092	2	0.540	0.239	4	0.000	0.000	0	0.000	0.000	0	0.740	0.210V
PB	P1114	ug/L	0.000	0.000	0	3.400	1.643	4	0.000	0.000	0	0.000	0.000	0	4.600	1.000K
CR	P1118	ug/L	0.000	0.000	0	0.240	0.045	4	0.000	0.000	0	0.000	0.000	0	0.490	0.200K
CU	P1119	ug/L	0.000	0.000	0	2.475	0.550	4	0.000	0.000	0	0.000	0.000	0	3.000	2.000K
PRESS	P25	mmHg	717.943	3.446	7	715.063	4.704	8	712.000	3.908	9	711.778	2.203	9	721.100	703.600
OXYGEN	P300	mg/L	10.086	1.358	7	12.289	0.509	9	11.222	1.491	9	7.711	0.481	9	13.400	7.000
PCTSAT	P301	Percent	91.257	6.799	7	95.433	4.202	9	103.856	6.002	9	88.578	2.794	9	115.300	84.100
FC	P31616	#/100ml	4.286	4.751	7	4.444	7.828	9	4.667	2.784	9	90.625	218.012	8	630.000	1.000K
PH	P400	units	7.500	0.374	7	7.544	0.500	9	7.456	0.343	9	7.622	0.254	9	8.400	6.900
SUSSOL	P530	mg/L	1.714	0.756	7	1.333	0.500	9	2.778	1.093	9	2.444	1.590	9	6.000	1.000K
FLOW	P60	CFS	4141.429	5085.153	7	5971.111	5013.957	9	10012.222	5891.305	9	1747.000	1527.097	9	18600.000	237.000
NH3_N	P610	mg/L	0.018	0.008	7	0.025	0.013	9	0.016	0.016	9	0.016	0.006	9	0.059	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	7	0.010	0.000	9	0.009	0.003	9	0.010	0.000	9	0.012	0.001
NO2_NO3	P630	mg/L	0.025	0.008	7	0.043	0.019	9	0.024	0.017	9	0.048	0.063	9	0.212	0.010K
TP_P	P665	mg/L	0.013	0.003	7	0.014	0.004	8	0.012	0.002	9	0.015	0.006	9	0.025	0.010K
OP_DIS	P671	mg/L	0.010	0.000	7	0.011	0.001	9	0.009	0.003	9	0.010	0.000	9	0.013	0.001
HG	P71900	ug/L	0.050	0.000	2	0.048	0.014	5	0.063	0.040	3	0.182	0.128	3	0.300	0.040K
TURB	P82079	NTU	1.000	0.277	7	1.444	1.038	9	1.478	0.703	9	1.444	0.559	9	3.800	0.500
HARD	P900	mg/L	21.667	2.082	3	22.750	0.500	4	22.667	0.577	3	20.333	0.577	3	24.000	20.000
COND	P95	umhos	57.714	9.142	7	53.778	3.898	9	53.556	10.584	9	52.111	5.555	9	76.000	41.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 61A070 Name: COLUMBIA R @ NORTHPORT

Class: AA Elevation: 1280 River Mile: 735.10

Location:
LOCATED AT THE BRIDGE CROSSING THE COLUMBIA RIVER ON STATE HIGHWAY 25,
IMMEDIATELY NORTHEAST OF NORTHPORT

Water Years Sampled:

```
5 6                 7                 8                 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X X X X X X X X X X X X X X X X X X X X X X X X X X X X X         X X X X
```

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	8.971	3.540	7	3.125	1.491	8	8.344	3.333	9	16.678	0.916	9	17.900	1.100J
ZN	P1094	ug/L	10.200	0.837	5	16.875	9.265	8	25.150	21.785	8	10.300	2.880	8	64.000	5.400P
CD	P1113	ug/L	0.178	0.075	5	0.180	0.118	7	0.176	0.122	7	0.198	0.106	6	0.440	0.100K
PB	P1114	ug/L	1.980	1.348	5	3.271	3.052	7	1.733	1.209	6	2.171	0.439	7	9.400	0.000P
CR	P1118	ug/L	0.410	0.187	5	0.421	0.143	7	0.367	0.184	7	0.380	0.367	7	1.200	0.200K
CU	P1119	ug/L	4.520	2.477	5	3.913	2.059	8	4.471	3.739	7	3.586	1.001	7	12.000	0.000P
PRESS	P25	mmHg	734.657	4.303	7	733.086	5.183	7	726.856	3.627	9	726.000	2.461	9	738.400	718.800
OXYGEN	P300	mg/L	11.686	1.431	7	13.100	0.450	8	12.211	0.395	9	10.256	0.475	9	13.700	9.500
PCTSAT	P301	Percent	103.486	6.578	7	101.438	7.353	8	108.400	7.434	9	109.633	4.412	9	120.100	89.400
FC	P31616	#/100ml	7.714	6.824	7	19.750	48.234	8	2.667	2.000	9	12.500	9.517	8	139.000	1.000K
CHL	P32211	ug/L	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	1.033	0.114	3	1.160	0.140
PHEO	P32218	ug/L	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	1.590	0.807	3	2.740	0.960
PH	P400	units	7.914	0.254	7	7.775	0.292	8	8.013	0.196	8	8.078	0.259	9	8.400	7.200
SUSSOL	P530	mg/L	2.143	0.900	7	1.750	0.463	8	3.111	1.965	9	2.222	0.833	9	7.000	1.000K
FLOW	P60	CFS	86800.000	14423.592	7	82662.500	40216.839	8	80366.667	58825.207	9	87455.556	33747.708	9	198000.000	11400.000
NH3_N	P610	mg/L	0.030	0.025	7	0.022	0.013	8	0.023	0.022	9	0.017	0.009	9	0.085	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	7	0.010	0.000	8	0.009	0.003	9	0.010	0.001	9	0.012	0.001
NO2_NO3	P630	mg/L	0.070	0.019	7	0.115	0.015	8	0.078	0.025	9	0.053	0.016	9	0.135	0.031
TP_P	P665	mg/L	0.021	0.007	7	0.020	0.007	8	0.018	0.011	9	0.023	0.020	8	0.069	0.010K
OP_DIS	P671	mg/L	0.013	0.006	7	0.017	0.008	8	0.013	0.009	9	0.016	0.015	9	0.056	0.005
HG	P71900	ug/L	0.070	0.021	5	0.048	0.005	8	0.073	0.064	9	0.095	0.091	9	0.300	0.040K
TURB	P82079	NTU	0.786	0.273	7	1.150	0.885	8	1.089	0.476	9	1.367	0.500	9	3.000	0.400
HARD	P900	mg/L	70.667	1.211	6	67.429	19.415	7	66.667	4.528	9	64.000	3.428	9	79.000	24.000
COND	P95	umhos	141.429	10.261	7	144.375	15.901	8	134.333	17.154	9	123.444	10.113	9	162.000	110.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 61B070 Name: DEEP CK NR MOUTH

Class: AA Elevation: 1435 River Mile: 1.00

Location:
LOCATED AT WOODED TRESTLE BRIDGE ON WANETA ROAD ABOUT 2 MILES NORTH OF NORTHPORT

Water Years Sampled:
5 6 7 8 9
9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4
X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	3.167	2.627	3	0.650	0.919	2	9.167	3.700	3	14.767	0.896	3	15.800	0.000
PRESS	P25	mmHg	735.067	2.550	3	733.800	3.536	2	727.567	0.404	3	725.267	1.617	3	737.600	723.400
OXYGEN	P300	mg/L	12.967	1.069	3	13.650	0.212	2	10.933	0.862	3	9.467	0.153	3	14.200	9.300
PCTSAT	P301	Percent	99.767	1.234	3	98.550	0.495	2	98.600	1.800	3	97.400	0.520	3	100.800	96.800
FC	P31616	#/100ml	6.333	2.309	3	2.500	2.121	2	18.333	23.965	3	33.333	10.693	3	46.000	1.000K
PH	P400	units	8.600	0.000	3	8.650	0.071	2	8.367	0.058	3	8.567	0.058	3	8.700	8.300
SUSSOL	P530	mg/L	2.000	1.000	3	3.500	0.707	2	31.000	22.650	3	5.333	4.041	3	55.000	1.000
FLOW	P60	CFS	29.200	34.861	3	8.600	9.899	2	133.233	83.457	3	54.667	22.324	3	228.000	1.600
NH3_N	P610	mg/L	0.012	0.004	3	0.010	0.000	2	0.014	0.006	3	0.010	0.000	3	0.021	0.010K
NO2_DIS	P613	mg/L	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
NO2_NO3	P630	mg/L	0.027	0.029	3	0.083	0.019	2	0.045	0.038	3	0.012	0.003	3	0.096	0.010K
TP_P	P665	mg/L	0.011	0.002	3	0.013	0.001	2	0.024	0.014	3	0.012	0.004	3	0.037	0.010K
OP_DIS	P671	mg/L	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.000	3	0.010	0.010K
TURB	P82079	NTU	0.433	0.153	3	0.550	0.354	2	5.667	3.544	3	1.600	0.520	3	8.100	0.300
COND	P95	umhos	318.000	41.581	3	330.000	2.828	2	255.000	29.597	3	290.333	17.214	3	343.000	235.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

REPORT CREATION DATE: 94/09/28

QUARTERLY DATA SUMMARY--SIX YEAR AVERAGE

Station Number: 62A150 Name: PEND OREILLE R @ NEWPORT

Class: A Elevation: 2030 River Mile: 88.20

Location:
LOCATED IN BONNER COUNTY, IDAHO AT THE BRIDGE ON U S HIGHWAY 2, JUST EAST OF NEWPORT

Water Years Sampled:

5	6						7										8										9			
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
X	X	X	X	X	X	X	X											X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

VARIABLE	P-CODE	UNITS	---OCTOBER-DECEMBER---			-----JANUARY-MARCH----			------APRIL-JUNE------			----JULY-SEPTEMBER----			-----SIX YEAR------	
			MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MEAN	STD. DEV.	N	MAX	MIN
TEMP	P10	C	9.217	4.225	18	2.125	1.538	16	9.733	3.731	18	19.022	2.024	18	22.200	-0.100
PRESS	P25	mmHg	713.067	6.094	18	711.400	9.740	15	708.422	6.357	18	709.339	5.762	18	727.000	692.000
OXYGEN	P300	mg/L	10.261	1.281	18	12.744	0.750	16	11.572	1.120	18	9.078	0.472	18	14.800	6.800
PCTSAT	P301	Percent	93.978	6.618	18	98.756	4.891	16	108.018	6.051	17	104.118	4.577	17	119.800	71.900
FC	P31616	#/100ml	1.556	1.199	18	1.688	1.662	16	2.118	1.728	17	4.941	10.311	17	44.000	1.000K
PH	P400	units	8.011	0.285	18	7.800	0.294	16	8.018	0.230	17	8.383	0.179	18	8.600	7.300
SUSSOL	P530	mg/L	3.000	2.497	18	6.533	7.405	15	5.278	2.697	18	2.412	0.795	17	26.000	1.000K
FLOW	P60	CFS	22316.667	4145.763	18	16638.125	6442.675	16	29688.333	19662.065	18	18440.000	11391.328	18	75600.000	2980.000
NH3_N	P610	mg/L	0.011	0.004	18	0.012	0.005	14	0.010	0.002	17	0.011	0.002	17	0.027	0.004
NO2_DIS	P613	mg/L	0.009	0.002	15	0.010	0.000	13	0.009	0.002	15	0.010	0.000	14	0.010	0.001
NO2_N	P615	mg/L	0.010	0.000	3	0.010	0.000	3	0.010	0.000	2	0.010	0.000	3	0.010	0.010K
NH3_UN	P619	mg/L	0.001	0.003	14	0.000	0.000	12	0.000	0.000	11	0.001	0.001	9	0.011	0.000
NO3_N	P620	mg/L	0.013	0.006	3	0.023	0.012	3	0.013	0.006	3	0.010	0.000	3	0.030	0.010K
NO2_NO3	P630	mg/L	0.012	0.005	15	0.039	0.018	13	0.014	0.006	15	0.010	0.000	15	0.070	0.010K
TP_P	P665	mg/L	0.014	0.016	16	0.018	0.020	15	0.012	0.004	17	0.012	0.004	18	0.090	0.006
OP_DIS	P671	mg/L	0.010	0.003	18	0.010	0.001	16	0.010	0.002	18	0.010	0.000	18	0.020	0.002
COLOR	P80	Pt-Co	8.143	4.337	7	9.000	11.314	2	8.667	8.021	3	23.000	28.355	3	55.000	1.000
TURB	P82079	NTU	1.022	0.286	18	1.581	1.124	16	2.039	0.581	18	1.183	0.381	18	5.500	0.400
HARD	P900	mg/L	0.000	0.000	0	0.000	0.000	0	29.000	1.414	2	0.000	0.000	0	85.000	85.000
COND	P95	umhos	163.389	21.955	18	166.500	13.789	16	146.389	19.370	18	150.111	10.676	18	85.000	85.000

Summary statistics should be used with caution because variables may not be normally distributed. Values at the detection limit were replaced with 1/2 the detection limit.

APPENDIX D

Wateryear 1993 Field Quality Control Sample Results

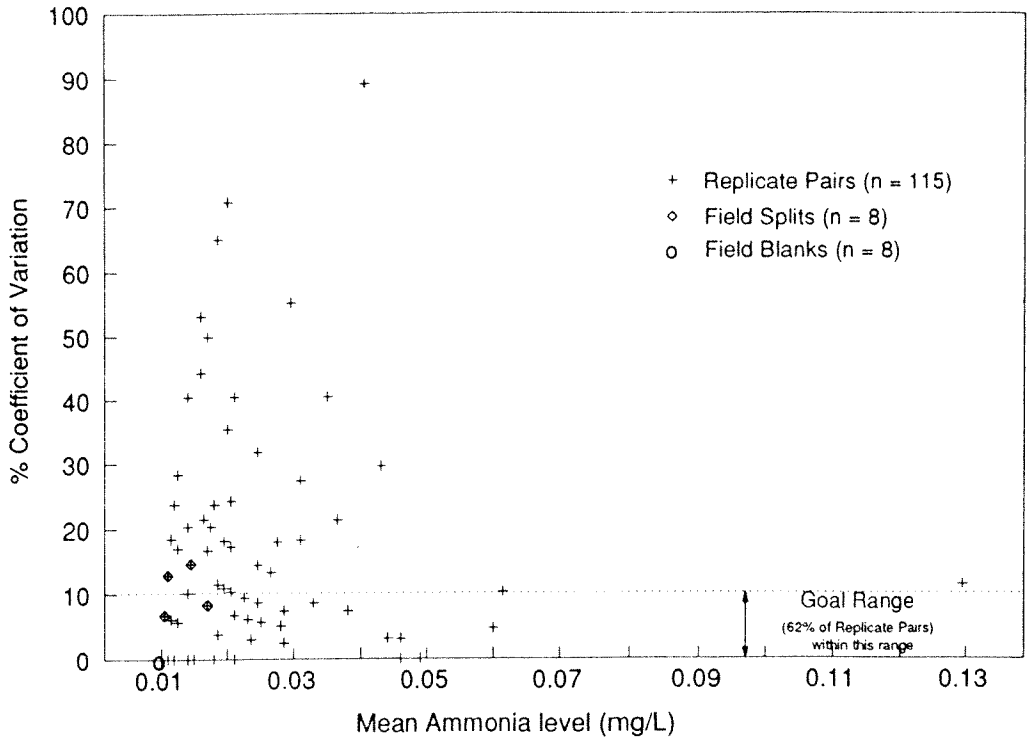

Figure D1. Field quality control samples for ammonia.

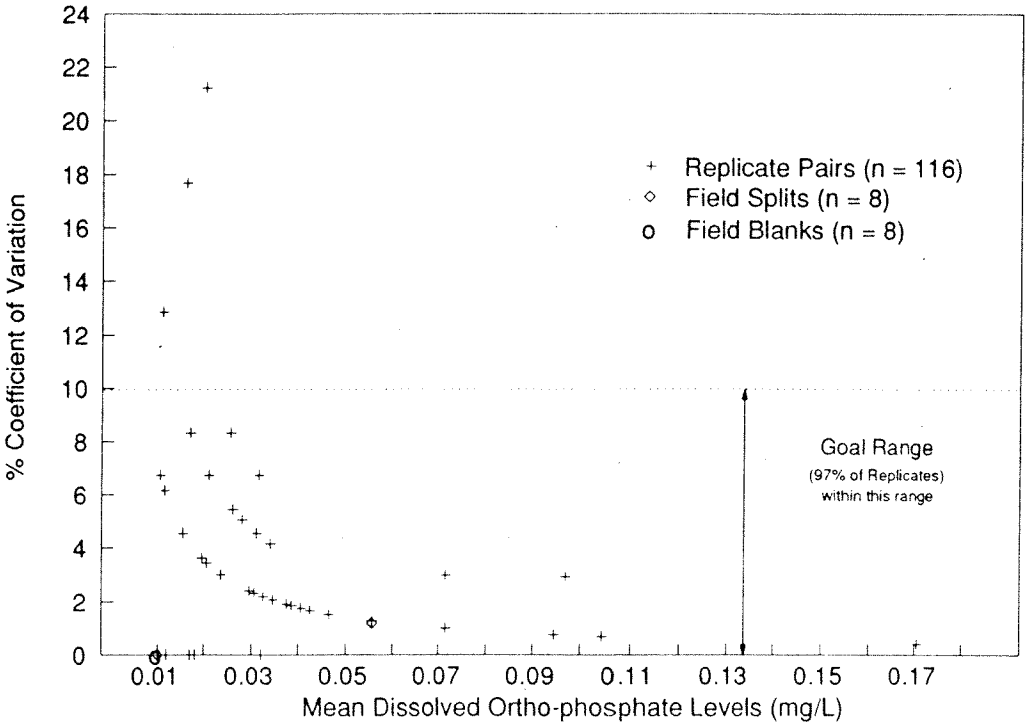

Figure D2. Field quality control samples for dissolved ortho-phosphate.

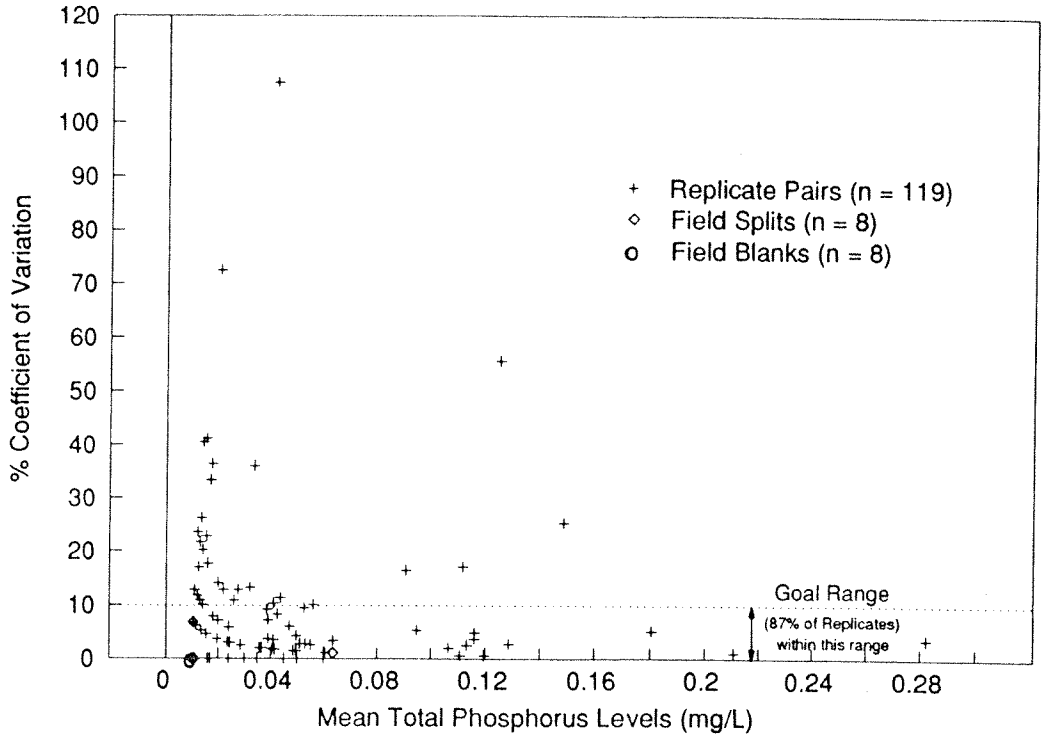

Figure D3. Field quality control samples for total phosphorus.

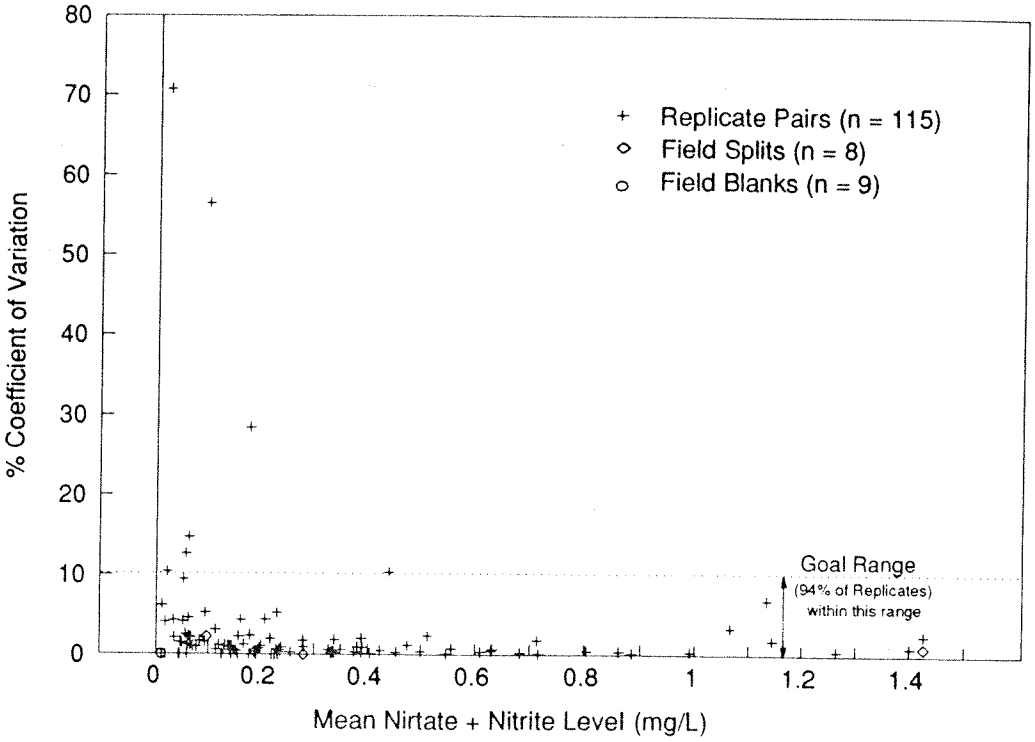

Figure D4. Field quality control samples for nitrate + nitrite.

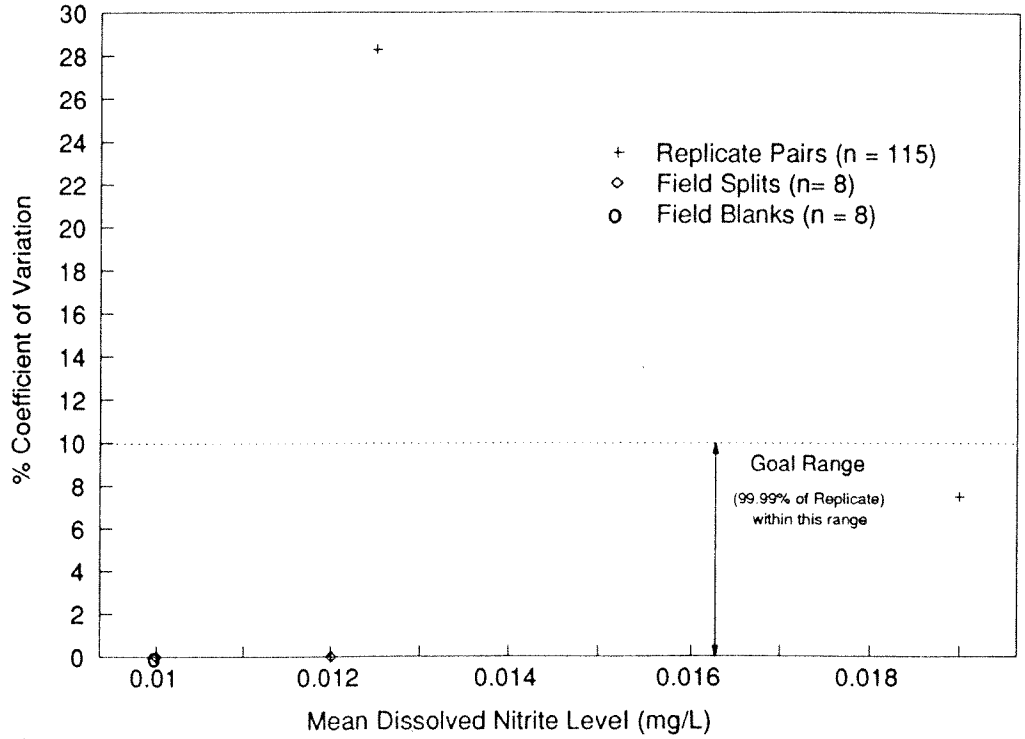

Figure D5. Field quality control samples for dissolved nitrite.

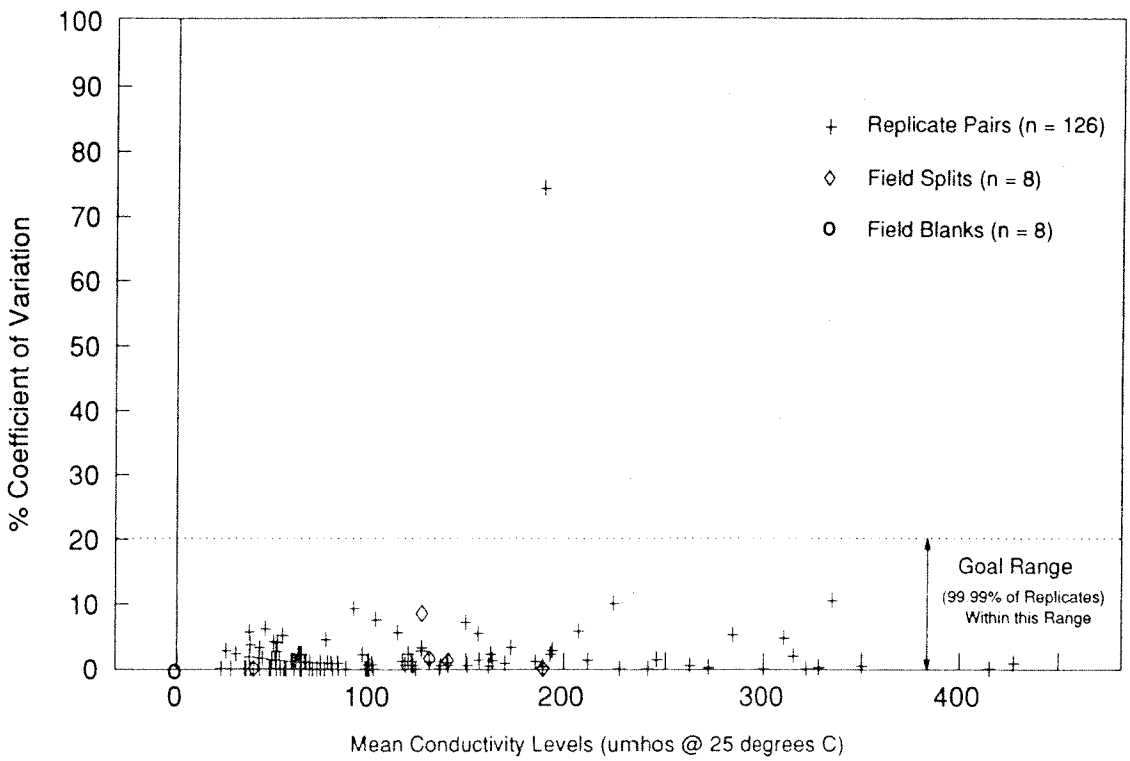

Figure D6. Field quality control samples for specific conductivity.

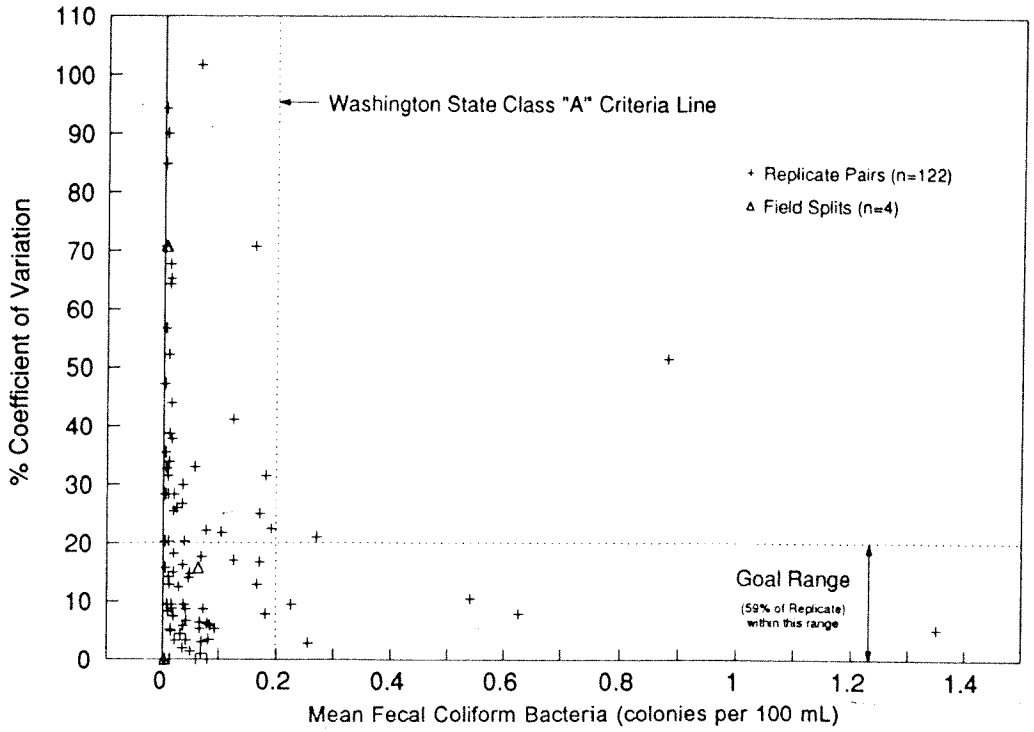

Figure D7. Field quality control samples for fecal coliform bacteria.

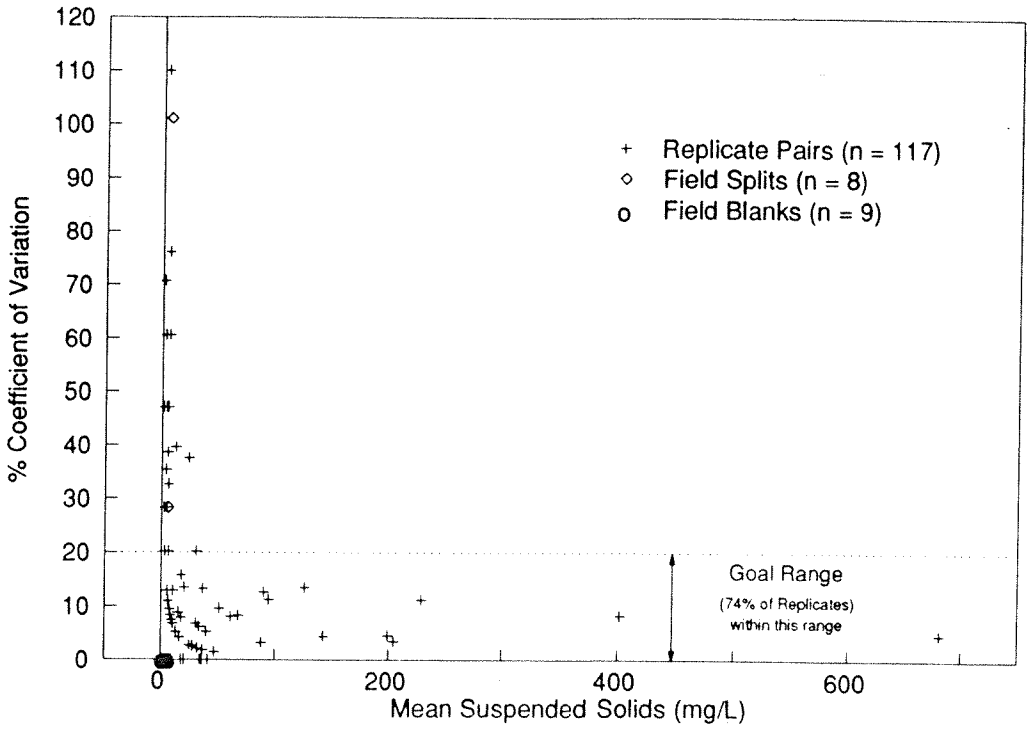

Figure D8. Field quality control samples for total suspended solids.

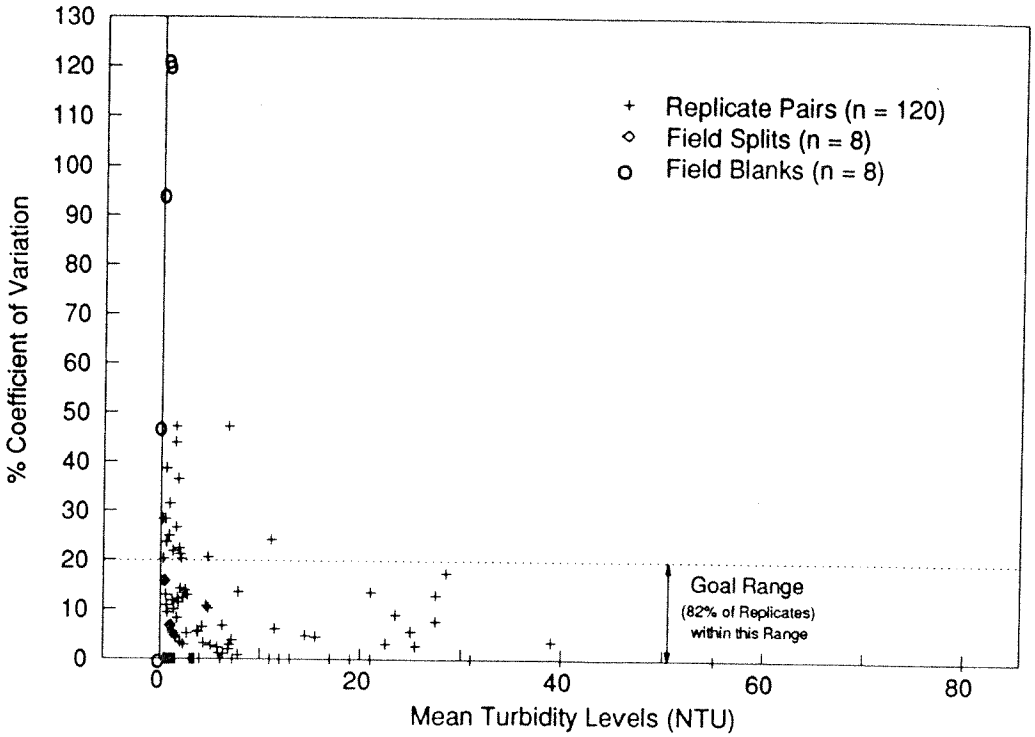

Figure D9. Field quality control samples for turbidity.

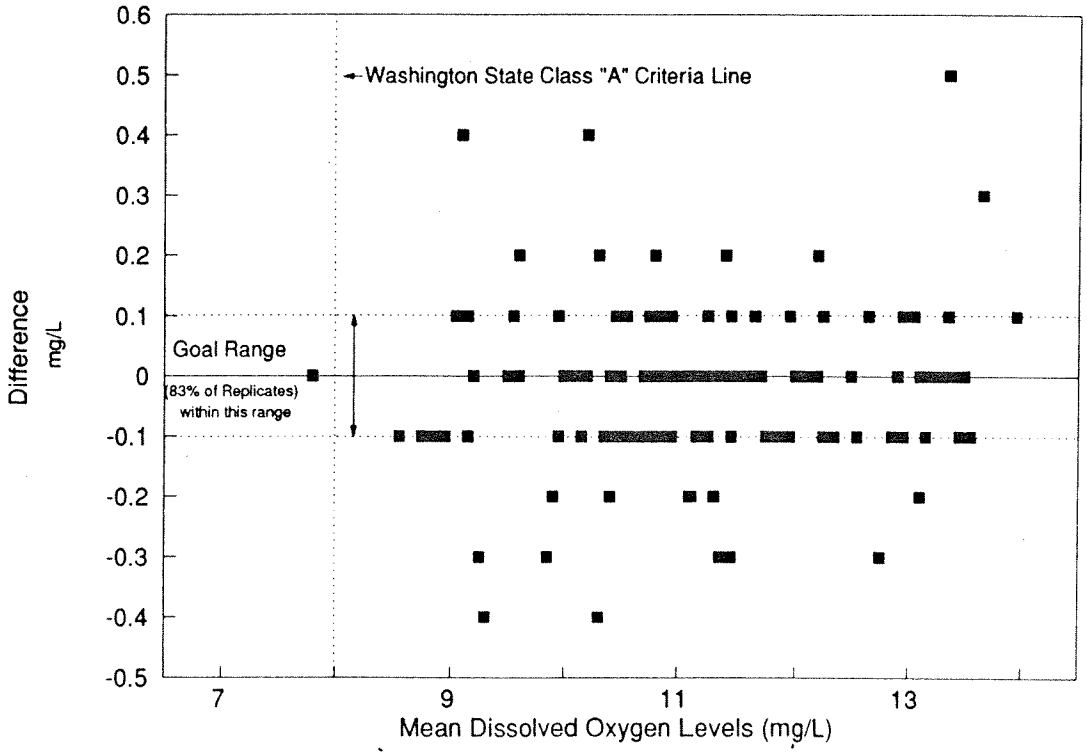

Figure D10. Field quality control samples for dissolved oxygen.

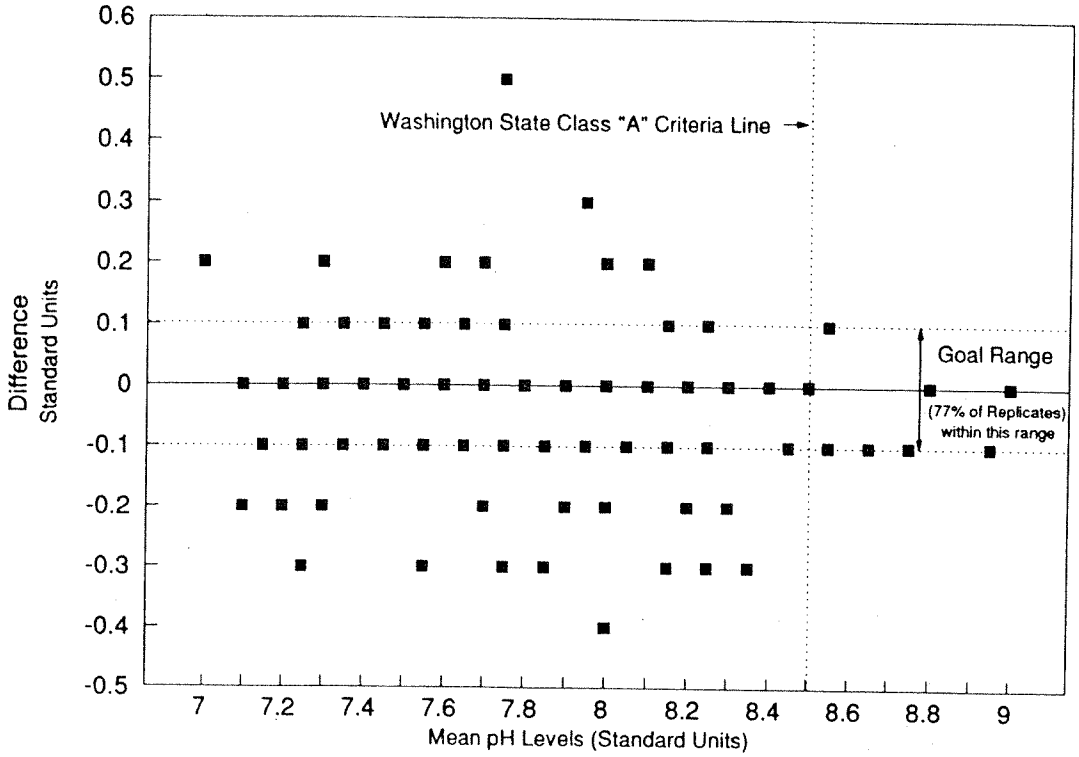

Figure D11. Field quality control samples for pH.

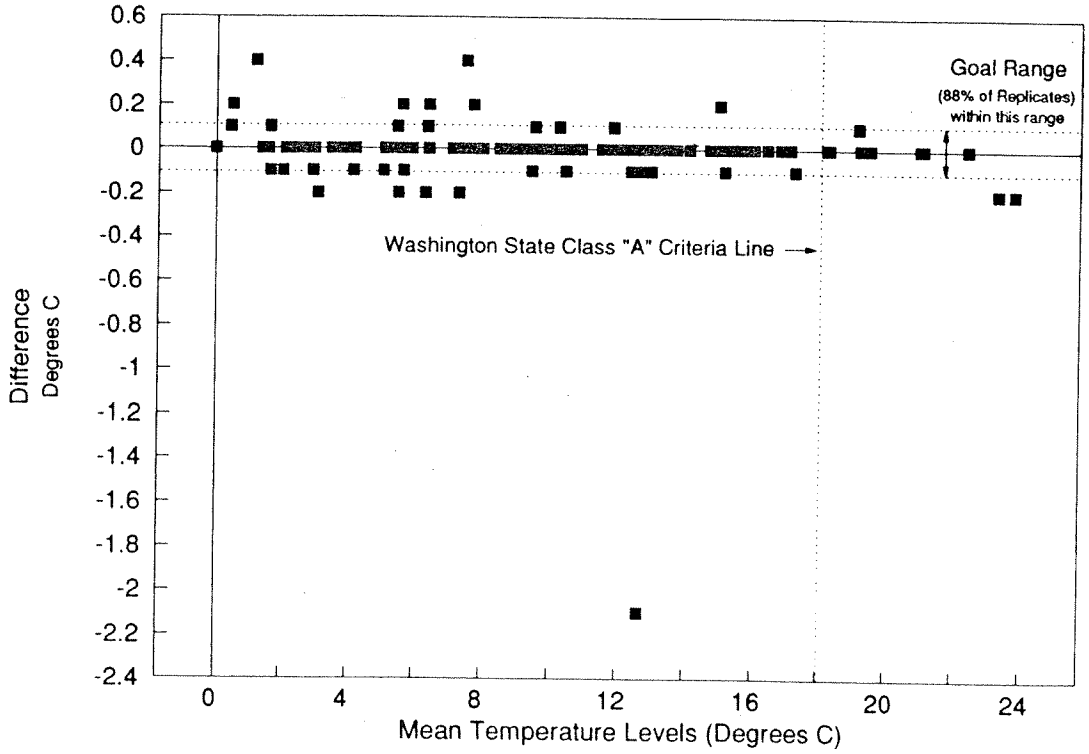

Figure D12. Field quality control samples for temperature.