UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SURFACE-WATER-QUALITY DATA FROM SELECTED SITES IN WASHINGTON AFFECTED BY MOUNT ST. HELENS ERUPTIONS: MARCH 27 - SEPTEMBER 30, 1980

By Gary L. Turney and John M. Klein

U.S. GEOLOGICAL SURVEY

OPEN-FILE REPORT 81-1007

Tacoma, Washington
1982

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information write to:

U.S. Geological Survey, WRD
1201 Pacific Avenue - Suite 600
Tacoma, Washington 98402-4384

CONTENTS

ILLUSTRATION

TABLE

METRIC (SI) CONVERSION TABLE

Multiply	By	To obtain
feet (ft)	0.3048	meters (m)
miles (mi)	1.609	kilometers (km)
acre-feet (acre-ft)	1233.0	cubic meters (m^3)
tons (short) (2,000 lb)	0.9072	tonnes (t)

SURFACE-WATER-QUALITY DATA FROM SELECTED SITES IN WASHINGTON AFFECTED BY MOUNT ST. HELENS ERUPTIONS: MARCH 27 - SEPTEMBER 30, 1980

By Gary L. Turney and John M. Klein

ABSTRACT

The volcanic eruptions of Mount St. Helens have resulted in the collection of many forms of hydrologic data. Chemical data collected from March 27 to September 30, 1980, to document the effects of the various volcanic events (mudflows, pyroclastic flows, deposition of ash) on the quality of surface water at selected sites in the State of Washington are presented in this report.

INTRODUCTION

The initial eruption of Mount St. Helens on March 27, 1980, prompted the Washington District of the U.S. Geological Survey Water Resources Division to start an intensive water-quality data-collection effort at surrounding stream sites (fig. 1). After the first week of intensive sampling, weekly observations were continued at selected sites. At 8:32 a.m. on May 18, 1980, Mount St. Helens erupted violently. Following an explosive north-trending lateral blast, ash and other volcanic emanations were shot vertically to about 50,000 ft. Immediately north of the volcano, the forest was pyrolyzed and burned. Airborne ash was carried eastward and dispersed over eastern Washington and Idaho. Drainage basins immediately east of the volcano received heavy ash fall, whereas drainage basins to the south and tributaries to the Columbia River received only traces of ash. The North and South Forks Toutle River were devastated by massive mudflows that moved into the lower Cowlitz and Columbia Rivers.

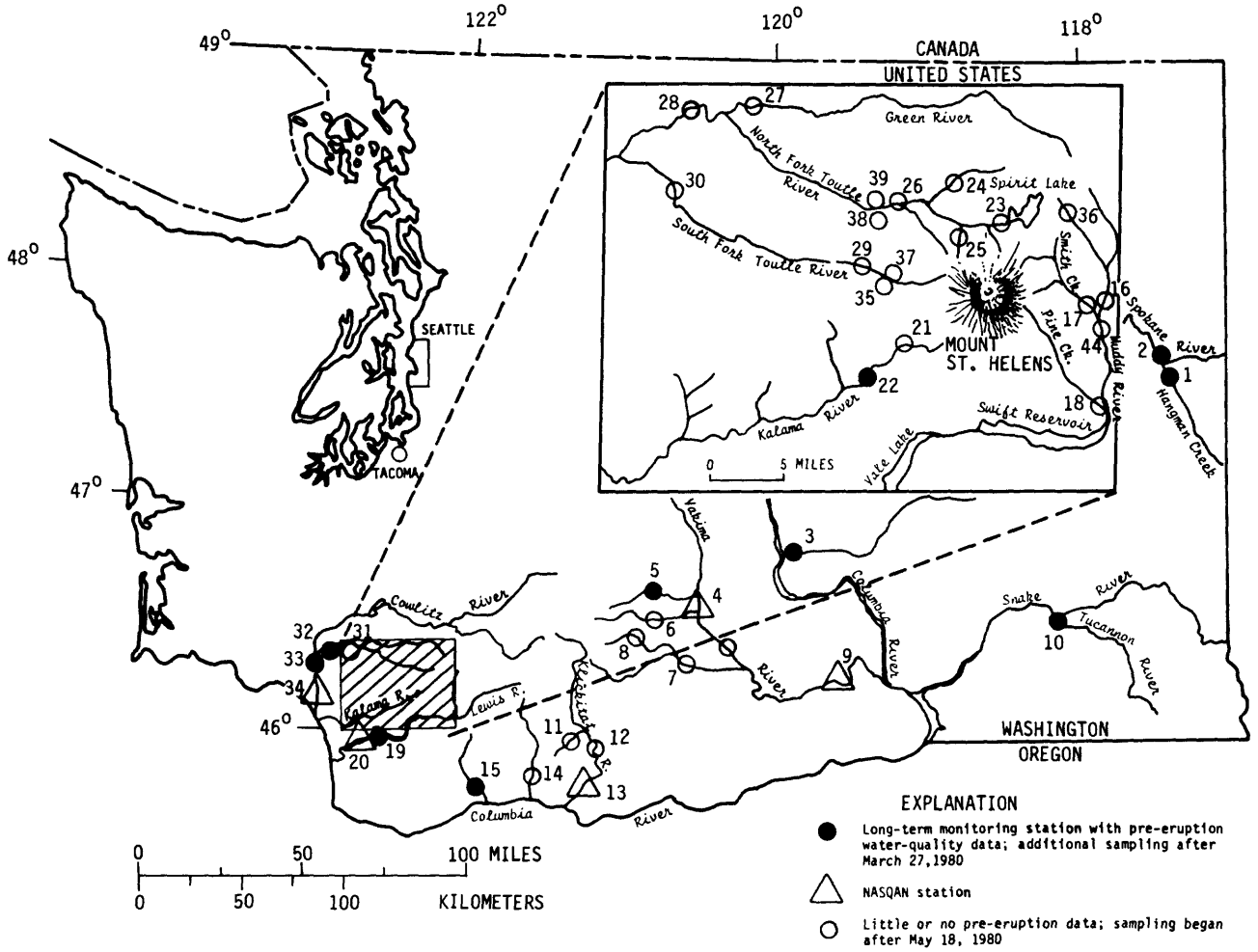
The massive physical alterations caused by the eruption were expected to have marked effects on river-water quality; these have been described by Klein (1981). This report contains the data documenting the magnitude and persistence of those changes (table 1).

ACKNOWLEDGMENTS

The data included in this compilation represent the efforts of technicians from the Geological Survey's Spokane, Pasco, and Tacoma field offices.

METHODS OF DATA COLLECTION

All samples for chemical analysis were collected from stream cross sections using depth-integrating samplers and methods (Guy and Norman, 1970). These sampling techniques assure collection of a sample that is representative of the average chemical conditions in the cross section of the stream at the time of sampling. Water samples for dissolved trace elements and selected major chemical-constituent analyses were filtered through a 0.45-um (micrometer) membrane filter, placed in acid-washed polyethylene bottles, and preserved with double-distilled, analytical-grade nitric acid to prevent chemical precipitation. Unfiltered samples were analyzed for total trace-element concentrations. Both filtered and unfiltered samples for nitrogen and phosphorus analysis were chilled at the time of collection and during shipment to the Geological Survey's National Water Quality Laboratory, Arvada, Colo. Constituents were analyzed by methods described by Skougstad and others (1979).



MOUNT ST. HELENS WATER-QUALITY SITES

1	12424003	Hangman Creek at mouth near Spokane
2	12424200	Spokane at Riverside
3	12472600	Crab Creek near Beverly
4	12500450	Yakima at Union Gap
5	12500500	N.F. Ahtanum Creek near Tampico
6	12501000	S.F. Ahtanum Creek near Tampico
7	12506000	Toppenish Creek near Ft. Simcoe
8	12506300	N.F. Simcoe near Ft. Simcoe (White Swan)
9	12510500	Yakima at Kiona
10	13344520	Tucannon at Powers
11	14110720	Outlet Creek near Glenwood
12	14111500	Klickitat below Glenwood
13	14113000	Klickitat near Pitt
14	14123500	White Salmon near Underwood
15	14128500	Wind River near Carson
16	14216100	Muddy River above Smith Creek
17	14216200	Smith Creek above mouth
18	14216900	Pine Creek at mouth
19	14220200	Lewis at Merwin Dam at Ariel (DOE only)
20	14220500	Lewis at Ariel (NASQAN)
21	14222249	Kalama above Falls
22	14222980	Kalama below Falls
23	14240310	N.F. Toutle near Spirit Lake
24	14240350	Coldwater Creek near Spirit Lake
25	14240440	Castle Creek near Spirit Lake
26	14240460	N.F. Toutle below Elk Creek near Spirit Lake
27	14241000	Green River below Hatchery
28	14241100	N.F. Toutle at Kid Valley
29	14241460	S.F. Toutle below Disappointment Creek
30	142415D0	S.F. Toutle near Toutle
31	14242690	Toutle River at Highway 99 bridge near Castle Rock (USGS)
32	14242700	Toutle near Castle Rock (also I-5 bridge, DOE)
33	14243000	Cowlitz at Castle Rock
34	14244200	Cowlitz at Kelso
35	461219122171900	S.F. Toutle near Disappointment Creek (muddy side)
36	461101122031300	Tributary to Muddy River near headwaters
37	461215122171600	S.F. Toutle near Disappointment Creek (clear side)
38	461758122253100	N.F. Toutle below Debris Dam (left side)
39	461825122250900	N.F. Toutle below Debris Dam (right side)
40	461742122233900	Green Pond #1 on debris dam
41	461743122234300	Red Pond #1 on debris dam
42	461752122240600	Green Pond #2 on debris dam
43	461926122294200	Seepage into creek near N.F. Toutle near Camp Baker
44	461053122030700	Muddy River below Smith Creek

NOTE: sites 40-43 not on map due to uncertainty of location

FIGURE 1.--Location of sampling sites.

DEFINITION OF TERMS

Dissolved refers to the amount of substance present in chemical solution. In practice, however, the term includes all forms of substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable mostly to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment is also expressed in milligrams per liter, and is based on the mass of sediment per liter of water-sediment mixture.

Solute is any natural or artificial substance derived from the atmosphere, vegetation, soil, rocks, or other sources that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-um membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 um membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

REFERENCES

Guy, H. D., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment, chap. C2, bk. 3, Applications of hydraulics: U.S. Geological Survey Techniques of Water-Resources Investigations, 59 p.

Klein, John M., 1981, Some chemical effects of the Mount St. Helens eruption on selected streams in the State of Washington: U.S. Geological Survey Circular 850-E.

Skougstad, V. V., and others, 1979, Methods for determination of inorganic substances in water and fluvial sediments, chap. C2, bk. 5: U.S. Geological Survey Techniques of Water-Resources Investigations, 626 p.

TABLE 1.--Chemical analysis of water from selected stream sampling sites

12424003 - HANGMAN CR. AT MOUTH AT SPOKANE

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)
APR , 1980										
08...	1515	180	7.9	7.4	--	--	--	--	--	--
MAY										
07...	0900	230	8.2	15.2	--	--	--	--	--	--
19...	1355	245	7.6	16.6	120	8.9	--	--	105	4.9
20...	1240	254	8.0	17.8	270	8.7	--	--	105	4.9
21...	1150	191	8.0	17.5	44	9.1	--	--	74	4.9
22...	1125	285	7.4	15.8	--	8.9	--	--	--	--
27...	1300	197	7.2	9.0	2600	9.9	>11000	4800	66	4.9
28...	1240	193	7.8	11.4	--	9.8	--	--	--	--
JUN										
06...	0900	186	8.0	14.3	--	9.4	--	--	--	--
11...	1400	270	8.0	21.6	--	--	--	--	--	--
12...	1245	220	8.0	18.2	68	8.3	180	--	86	9.9
19...	1230	166	7.8	20.1	110	8.2	240	100	60	--
25...	1145	162	8.0	18.5	110	8.4	K650	970	64	--
JUL										
30...	1200	365	8.6	21.6	5.0	12.2	68	84	160	.0
AUG										
26...	1200	373	8.6	17.7	3.5	--	36	17	167	.0
SEP										
23...	1200	360	8.7	13.1	2.2	13.1	130	11	166	.0

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
APR , 1980										
08...	--	--	--	--	--	--	--	--	--	--
MAY										
07...	--	--	--	--	--	--	--	--	--	--
19...	28	8.5	11	3.0	100	3.9	12	5.2	.2	24
20...	28	8.6	11	3.1	98	1.5	16	6.8	.2	24
21...	20	5.9	7.6	1.8	60	.9	9.6	4.1	.1	24
22...	--	--	--	--	--	--	--	--	--	--
27...	18	5.2	9.4	4.0	13	1.3	57	16	.2	20
28...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
12...	23	7.1	8.8	3.4	92	1.4	11	6.1	.1	28
19...	16	5.0	7.8	3.4	49	1.2	13	6.7	.2	--
25...	17	5.4	7.4	5.4	60	.8	13	5.9	.2	--
JUL										
30...	41	14	12	4.9	160	.6	21	9.6	.3	--
AUG										
26...	42	15	12	--	170	.6	20	11	.2	--
SEP										
23...	45	13	13	4.6	160	.5	17	9.6	.2	--

12424003 - HANGMAN CR. AT MOUTH AT SPOKANE

WATER QUALITY DATA

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
APR , 1980									
08...	--	--	--	1.7	--	.150	--	--	--
MAY									
07...	--	--	--	1.1	--	.140	--	--	--
19...	157	152	.21	.58	.58	.160	.070	1.7	.70
20...	161	157	.21	.68	.66	.180	.090	.75	.58
21...	125	109	.17	.68	--	.090	.070	.22	--
22...	--	--	--	--	--	--	--	--	--
27...	127	138	.17	2.2	2.1	.890	.180	8.2	.59
28...	--	--	--	--	--	--	--	--	--
JUN									
06...	--	--	--	--	--	--	--	--	--
11...	--	--	--	1.3	--	.180	--	--	--
12...	--	143	.19	1.0	1.0	.140	.000	.69	.51
19...	125	--	.17	.84	.85	.090	.100	.44	.47
25...	116	--	.15	.63	.63	.120	.040	.88	.56
JUL									
30...	232	--	.31	1.1	1.1	.020	.030	.75	.65
AUG									
26...	240	--	.32	1.5	1.4	.050	.020	.48	.51
SEP									
23...	224	--	.30	1.0	.99	.000	.000	.50	.56

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
APR , 1980									
08...	--	--	--	--	--	.100	--	.050	--
MAY									
07...	--	--	--	--	--	.140	--	.080	--
19...	1.9	1.1	.77	2.4	1.4	.230	.070	--	--
20...	.93	.26	.67	1.6	1.3	.410	.080	--	--
21...	.31	--	--	.99	--	.160	.050	--	--
22...	--	--	--	--	--	--	--	--	--
27...	9.1	8.3	.77	11	2.9	1.700	.040	--	--
28...	--	--	--	--	--	--	--	--	--
JUN									
06...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	.440	--	.090	--
12...	.83	.32	.51	1.8	1.5	.180	.090	--	--
19...	.53	.00	.57	1.3	1.4	.210	.080	--	--
25...	1.0	.40	.60	1.6	1.2	.300	.130	--	--
JUL									
30...	.77	.09	.68	1.8	1.8	.080	.040	--	--
AUG									
26...	.53	.00	.53	2.0	1.9	.030	.040	--	--
SEP									
23...	.50	.00	.56	1.5	1.6	.020	.030	--	4.8

12424003 - HANGMAN CR. AT MOUTH AT SPOKANE

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
MAY , 1980											
19...	500	480	20	--	--	--	4	2	2	100	30
20...	2200	2200	40	--	--	--	4	1	3	100	30
21...	640	590	50	0	0	0	4	2	2	100	70
27...	--	--	40	--	--	--	--	--	--	--	--
JUN											
12...	--	--	0	--	--	0	--	--	3	--	--

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
MAY , 1980										
19...	70	--	60	50	9	1	1	0	0	0
20...	70	--	60	50	10	1	1	0	0	0
21...	30	<1	40	30	10	0	--	<1	0	0
27...	--	--	--	--	20	--	--	--	--	--
JUN										
12...	70	<1	--	--	30	--	--	<1	--	--

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
MAY , 1980										
19...	0	0	0	0	25	17	8	3900	3900	20
20...	0	2	2	0	27	20	7	5100	5100	40
21...	0	0	--	<3	10	--	<10	1400	1400	26
27...	--	--	--	--	--	--	--	--	--	270
JUN										
12...	0	--	--	<3	--	--	<10	--	--	74

12424003 - HANGMAN CR. AT MOUTH AT SPOKANE

WATER QUALITY DATA

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAY , 1980									
19...	12	12	0	10	--	<4	130	110	20
20...	44	42	2	10	6	4	160	130	30
21...	5	--	<10	10	--	<4	70	70	2
JUN									
12...	--	--	54	--	--	<4	--	--	16

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)
MAY , 1980									
19...	.0	.0	.0	--	5	2	3	0	0
20...	.1	.1	.0	--	6	4	2	0	0
21...	.1	.1	.0	<10	5	2	3	0	0
JUN									
12...	--	--	.0	<10	--	--	3	--	--

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAY , 1980								
19...	0	0	0	0	--	--	30	<3
20...	0	0	0	0	--	--	30	<3
21...	0	0	0	0	100	<6.0	20	<3
JUN								
12...	0	--	--	0	130	8.0	--	<3

12424200 - SPOKANE R. AT RIVERSIDE STATE PARK AT SPOK,WA

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)
APR , 1980										
09...	0930	113	7.5	5.5	2.0	12.0	3900	--	45	--
MAY										
19...	1150	74	7.2	12.8	15	10.8	--	--	31	.0
20...	1030	110	7.6	12.6	12	9.9	--	--	47	.0
21...	1030	91	7.8	13.8	7.4	9.9	--	--	37	.0
22...	1030	125	7.7	13.7	--	--	--	--	--	--
27...	1135	79	7.7	11.9	270	11.1	>800	K300	27	.0
28...	1200	65	7.8	12.7	--	11.3	--	--	--	--
JUN										
06...	0815	105	7.7	12.4	--	10.2	--	--	--	--
12...	1040	74	7.7	14.6	1.9	10.5	300	--	28	--
19...	1110	64	7.6	16.2	4.5	10.6	56	K21	25	4.9
25...	0930	100	7.9	17.3	3.8	9.2	76	K21	39	4.9
JUL										
08...	0900	115	7.6	18.0	1.8	9.0	K960	--	47	--
30...	1030	163	8.0	18.8	1.3	9.9	K7	<2	77	.0
AUG										
21...	0845	149	7.7	17.7	1.6	8.5	210	--	63	--
SEP										
22...	0745	137	7.8	13.6	1.2	9.0	480	--	60	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
APR , 1980										
09...	12	3.8	3.2	1.2	32	1.6	13	2.8	--	8.4
MAY										
19...	8.4	2.5	2.0	.8	21	2.1	7.9	.3	.1	8.2
20...	12	4.3	2.6	1.0	37	1.4	18	.7	.1	9.2
21...	9.7	3.2	1.7	.7	34	.8	7.4	1.0	.1	8.8
22...	--	--	--	--	--	--	--	--	--	--
27...	7.4	2.2	2.8	1.0	15	.4	12	3.1	.1	9.5
28...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
12...	8.0	2.1	2.7	.9	27	.8	2.2	2.0	--	8.2
19...	7.1	2.0	1.9	--	21	.8	8.8	1.5	.1	--
25...	10	3.6	2.4	--	36	.7	10	15	.2	--
JUL										
08...	12	4.2	2.6	1.0	43	1.7	8.9	1.8	--	8.1
30...	20	6.7	3.9	1.5	65	1.0	18	1.9	.2	--
AUG										
21...	16	5.7	3.5	1.8	57	1.8	12	3.2	--	8.9
SEP										
22...	15	5.5	3.3	1.3	48	1.0	10	3.9	--	8.3

12424200 - SPOKANE R. AT RIVERSIDE STATE PARK AT SPOK,WA

WATER QUALITY DATA

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
APR , 1980										
09...	71	63	.09	0	.40	--	.260	--	.54	--
MAY										
19...	44	43	.06	--	.18	.18	.130	.030	.20	.23
20...	63	70	.08	--	.07	.00	.010	.000	.65	.62
21...	54	53	.07	--	.18	.15	.060	--	.49	--
22...	--	--	--	--	--	--	--	--	--	--
27...	40	47	.05	--	.31	.30	.200	.070	3.5	.59
28...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
12...	51	42	.06	6	.15	--	.090	--	.48	--
19...	42	--	.05	--	.10	.10	.040	.030	.53	.32
25...	54	--	.07	--	.18	.20	.030	.040	.34	.25
JUL										
08...	68	64	.09	0	.21	--	.000	--	.43	--
30...	91	--	.12	--	.59	.62	.100	.100	.68	.72
AUG										
21...	89	85	.12	4	.62	--	.350	--	2.6	--
SEP										
22...	90	76	.12	7	.33	--	.000	--	.37	--

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
APR , 1980									
09...	.80	--	--	1.2	--	.050	--	.000	2.2
MAY									
19...	.33	.07	.26	.51	.44	.060	.010	--	--
20...	.66	.04	.62	.73	.62	.040	.010	--	--
21...	.55	.02	.53	.73	.68	.050	--	--	--
22...	--	--	--	--	--	--	--	--	--
27...	3.7	3.0	.66	4.0	.96	.290	.020	--	--
28...	--	--	--	--	--	--	--	--	--
JUN									
06...	--	--	--	--	--	--	--	--	--
12...	.57	--	--	.72	--	.030	--	.010	2.1
19...	.57	.22	.35	.67	.45	.040	.010	--	--
25...	.37	.08	.29	.55	.49	.050	.010	--	--
JUL									
08...	.43	--	--	.64	--	.030	--	.020	2.1
30...	.78	.00	.82	1.3	1.4	.060	.030	--	--
AUG									
21...	3.0	--	--	3.6	--	.030	--	.010	3.9
SEP									
22...	.37	--	--	.70	--	.040	--	.010	2.7

12424200 - SPOKANE R. AT RIVERSIDE STATE PARK AT SPOK,WA

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
APR , 1980												
09...	--	--	--	--	--	--	--	--	1	--	--	20
MAY												
19...	950	920	30	--	--	--	2	0	2	0	0	30
20...	280	250	30	--	--	--	2	1	1	0	0	30
21...	20	0	40	0	0	0	2	1	1	0	0	10
27...	--	--	70	--	--	--	--	--	--	--	--	--
JUN												
12...	--	--	--	--	--	--	1	--	--	--	--	--
JUL												
08...	--	--	--	--	--	--	--	--	2	--	--	20
AUG												
21...	--	--	--	--	--	--	--	--	5	--	--	20
SEP												
22...	--	--	--	--	--	--	1	--	--	--	--	--

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
APR , 1980												
09...	--	--	--	--	--	--	1	--	--	0	--	--
MAY												
19...	--	30	30	0	1	1	0	0	0	0	0	0
20...	--	50	20	30	1	1	0	0	0	0	0	0
21...	<1	2	0	4	1	--	<1	0	0	0	0	--
27...	--	--	--	0	--	--	--	--	--	--	--	--
JUN												
12...	--	--	--	--	2	--	--	0	--	--	--	--
JUL												
08...	--	--	--	--	--	--	<1	--	--	0	--	--
AUG												
21...	--	--	--	--	--	--	<1	--	--	10	--	--
SEP												
22...	--	--	--	--	1	--	--	0	--	--	--	--

12424200 - SPOKANE R. AT RIVERSIDE STATE PARK AT SPOK.WA

WATER QUALITY DATA

DATE	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)
APR . 1980												
09...	--	--	--	2	--	--	--	--	--	0	--	--
MAY												
19...	0	12	8	4	730	710	20	29	29	0	0	--
20...	0	6	4	2	380	360	20	9	6	3	0	--
21...	<3	5	--	<10	40	20	23	0	--	<10	0	0
27...	--	--	--	--	--	--	130	--	--	--	--	--
JUN												
12...	--	6	--	--	110	--	--	9	--	--	--	--
JUL												
08...	--	--	--	2	--	--	--	--	--	0	--	--
AUG												
21...	--	--	--	1	--	--	--	--	--	4	--	--
SEP												
22...	--	8	--	--	90	--	--	8	--	--	--	--

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
APR . 1980											
09...	--	--	--	--	.8	--	--	--	--	--	--
MAY											
19...	<4	40	30	7	.0	.0	.0	--	7	4	3
20...	<4	20	10	6	.0	.0	.0	--	5	3	2
21...	5	10	6	4	.1	.1	.0	<10	3	0	5
27...	--	--	--	--	--	--	--	--	--	--	--
JUN											
12...	--	--	--	--	.1	--	--	--	--	--	--
JUL											
08...	--	--	--	--	.0	--	--	--	--	--	--
AUG											
21...	--	--	--	--	.1	--	--	--	--	--	--
SEP											
22...	--	--	--	--	.1	--	--	--	--	--	--

12424200 - SPOKANE R. AT RIVERSIDE STATE PARK AT SPOK,WA

WATER QUALITY DATA

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
APR											
09...	--	--	0	--	--	0	--	--	--	--	140
MAY											
19...	0	0	0	0	0	0	--	--	160	70	90
20...	0	0	0	0	0	0	--	--	110	30	80
21...	0	0	0	0	0	0	32	<6.0	40	10	28
27...	--	--	--	--	--	--	--	--	--	--	--
JUN											
12...	0	--	--	--	--	--	--	--	120	--	--
JUL											
08...	--	--	0	--	--	0	--	--	--	--	70
AUG											
21...	--	--	0	--	--	0	--	--	--	--	50
SEP											
22...	0	--	--	--	--	--	--	--	100	--	--

12472600 - CRAB CR NR BEVERLY, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
APR , 1980												
14...	1200	760	8.5	15.5	--	--	223	--	43	28	88	12
MAY												
12...	1225	650	8.2	19.2	--	--	196	--	39	24	64	9.0
29...	1115	715	8.0	21.0	23	9.4	211	14	43	25	71	10
JUN												
06...	1020	615	8.0	16.4	13	9.4	184	9.9	39	21	56	8.7
10...	1130	603	8.3	18.4	20	8.9	188	--	39	22	54	8.5
16...	1310	625	8.4	22.2	--	--	179	--	37	21	57	9.0
17...	1050	540	7.8	18.8	3.0	8.8	186	--	38	22	63	10
24...	1130	600	8.5	19.4	42	--	188	--	39	22	57	7.9
JUL												
21...	1100	607	8.0	24.3	40	7.5	184	--	39	21	52	8.4
AUG												
19...	1030	665	8.5	17.0	25	9.1	207	.0	43	24	57	7.9
SEP												
15...	1215	880	8.3	19.2	9.2	7.0	235	.0	46	29	110	19

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
APR , 1980												
14...	240	1.2	120	36	--	--	--	--	--	1.6	--	.020
MAY												
12...	220	2.2	87	26	--	--	--	--	--	1.3	--	.040
29...	220	3.4	91	28	.0	23	440	423	.59	1.2	1.2	.040
JUN												
06...	200	3.1	74	25	.5	20	370	365	.50	1.3	1.3	.070
10...	190	1.5	74	21	.5	21	365	355	.49	1.4	1.5	.020
16...	210	1.3	78	23	--	--	--	--	--	1.6	--	.000
17...	210	5.2	82	25	.1	21	403	388	.54	1.3	1.4	.010
24...	190	.9	79	22	.5	21	375	363	.51	1.4	1.4	.040
JUL												
21...	200	1.1	76	22	.8	23	381	363	.51	1.8	2.0	.000
AUG												
19...	210	1.0	82	22	.6	26	392	389	.53	2.2	2.3	.000
SEP												
15...	260	2.0	140	45	.6	29	654	575	.88	2.0	2.0	.030

12472600 - CRAB CR NR BEVERLY, WASH.

WATER QUALITY DATA

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)
APR . 1980											
14...	--	1.2	--	1.3	--	--	2.9	--	.200	--	.050
MAY											
12...	--	2.0	--	2.1	--	--	3.4	--	.160	--	.070
29...	.000	.59	.43	.63	.20	.43	1.8	1.6	.100	.060	--
JUN											
06...	.000	.93	.80	1.0	.20	.80	2.3	2.1	.210	.030	--
10...	.000	1.0	.43	1.1	.61	.49	2.5	2.0	.170	.030	--
16...	--	1.0	--	1.0	--	--	2.6	--	.140	--	.030
17...	.040	1.0	.73	1.1	.33	.77	2.4	2.2	.210	.050	--
24...	.030	1.0	1.3	1.1	.00	1.4	2.5	2.8	.190	.080	--
JUL											
21...	.000	2.7	1.9	2.7	.80	1.9	4.5	3.9	.200	.030	--
AUG											
19...	.000	.99	.96	.99	.03	.96	3.1	3.3	.110	.060	--
SEP											
15...	.020	1.4	1.3	1.5	.10	1.4	3.5	3.4	.230	.160	--

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
APR . 1980											
14...	--	--	--	--	--	--	--	--	8	--	--
MAY											
12...	--	--	--	--	--	--	--	--	5	--	--
29...	--	--	0	0	0	0	7	0	7	100	50
JUN											
06...	290	270	20	0	0	0	7	1	6	100	50
10...	1200	1200	50	0	0	0	6	0	6	100	50
16...	--	--	--	--	--	--	--	--	5	--	--
17...	1100	1100	10	--	--	--	7	1	6	0	0
24...	1600	1600	30	--	--	--	6	0	6	100	50
JUL											
21...	100	100	0	--	--	--	7	0	7	100	50
AUG											
19...	540	520	20	--	--	--	6	0	6	100	40
SEP											
15...	260	250	10	--	--	--	8	1	7	100	30

12472600 - CRAB CR NR BEVERLY, WASH.

WATER QUALITY DATA

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, TOTAL RECOV-ERABLE (UG/L AS B)	BORON, SUS-PENDED RECOV-ERABLE (UG/L AS B)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)
APR , 1980											
14...	60	--	--	--	--	--	<1	--	--	20	--
MAY											
12...	40	--	--	--	--	--	<1	--	--	0	--
29...	50	<1	60	10	50	0	<1	0	0	0	0
JUN											
06...	50	<1	70	40	30	0	<1	0	0	0	0
10...	50	<1	60	0	80	0	<1	0	0	0	0
16...	50	--	--	--	--	--	<1	--	--	0	--
17...	50	<1	70	10	60	0	<1	30	30	0	1
24...	50	<1	80	20	60	0	<1	0	0	0	2
JUL											
21...	50	<1	60	10	50	0	<1	0	0	10	0
AUG											
19...	60	<1	90	30	60	0	<1	0	0	0	0
SEP											
15...	70	<1	90	20	70	0	<1	0	0	0	0

DATE	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)
APR , 1980											
14...	--	--	4	--	--	--	--	--	37	--	--
MAY											
12...	--	--	2	--	--	--	--	--	27	--	--
29...	<3	9	<10	820	810	15	6	--	<10	10	2
JUN											
06...	<3	10	<10	2400	2400	11	8	--	<10	10	0
10...	<3	12	<10	2400	2400	15	4	--	<10	10	1
16...	--	--	5	--	--	--	--	--	0	--	--
17...	<3	8	<10	2600	2600	24	8	8	0	0	0
24...	<3	11	<10	2400	2400	12	4	4	0	10	3
JUL											
21...	<3	17	<10	3100	--	<10	8	0	<10	10	0
AUG											
19...	<3	12	<10	1400	1400	12	7	6	1	10	3
SEP											
15...	<3	14	<10	810	760	48	8	--	<10	10	0

12472600 - CRAB CR NR BEVERLY, WASH.

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
APR , 1980											
14...	--	--	--	--	.3	--	--	--	--	--	--
MAY											
12...	--	--	--	--	.2	--	--	--	--	--	--
29...	8	60	60	4	.1	.0	.1	<10	7	4	3
JUN											
06...	10	110	110	5	.3	.1	.2	<10	6	4	2
10...	9	110	100	11	.2	.0	.2	13	0	0	7
16...	--	--	--	--	.1	--	--	--	--	--	--
17...	6	90	80	12	.0	.0	.1	<10	26	24	2
24...	7	120	110	6	.1	.0	.2	<10	6	6	0
JUL											
21...	13	140	140	3	.1	.1	.0	<10	8	2	6
AUG											
19...	7	70	70	3	.7	.0	.7	11	3	1	2
SEP											
15...	12	50	40	9	.2	.1	.1	<10	8	7	1

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
APR , 1980											
14...	--	--	1	--	--	0	--	--	--	--	10
MAY											
12...	--	--	1	--	--	0	--	--	--	--	<3
29...	1	0	1	0	0	0	320	13	20	10	8
JUN											
06...	1	0	1	0	0	0	290	11	40	--	<3
10...	1	1	0	0	0	0	290	14	30	--	<3
16...	--	--	1	--	--	0	--	--	--	--	<3
17...	1	0	1	0	0	0	300	18	60	50	8
24...	1	0	1	0	0	0	300	15	20	--	<3
JUL											
21...	0	0	1	0	0	0	300	19	50	--	<3
AUG											
19...	1	0	1	1	1	0	340	16	10	--	<3
SEP											
15...	1	0	1	0	0	0	370	15	30	--	<3

12500450 - YAKIMA R ABV AHTANUM CR AT UNION GAP, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
APR , 1980											
24...	1300	90	7.8	11.0	22	10.8	120	16	31	--	8.1
MAY											
15...	1045	93	7.8	10.1	5.6	11.1	140	340	35	--	9.0
19...	1515	113	6.8	11.7	100	10.2	--	--	41	.0	11
20...	0930	95	6.8	10.8	35	10.2	--	--	37	.0	9.9
22...	1215	89	6.8	11.5	14	11.1	--	--	31	9.9	8.1
23...	0830	97	7.2	8.8	13	10.8	--	--	33	.0	8.5
27...	1600	110	8.0	11.0	7.5	11.2	2800	930	43	9.9	11
JUN											
04...	0945	106	8.3	10.4	2.0	10.7	100	44	39	9.9	10
13...	1020	103	7.6	11.6	3.6	--	500	57	37	--	9.5
20...	1310	100	--	15.8	11	10.0	7100	1100	37	--	9.5
26...	1100	112	7.7	12.6	16	10.3	68000	--	40	--	9.9
JUL											
22...	1445	100	--	19.9	5.9	9.4	22000	1000	38	--	9.6
AUG											
21...	1400	122	8.4	18.6	7.0	10.4	98	38	41	.0	10
SEP											
16...	1045	132	--	16.4	2.6	9.8	220	33	51	.0	12

12500450 - YAKIMA R ABV AHTANUM CR AT UNION GAP, WASH.

WATER QUALITY DATA

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
APR , 1980										
24...	2.8	3.4	.8	32	.8	1.5	1.6	.1	16	52
MAY										
15...	3.1	4.4	.9	34	.8	10	2.1	.1	17	64
19...	3.4	4.9	1.1	33	8.3	7.2	3.1	.1	15	67
20...	3.2	4.5	.9	37	9.3	5.4	2.4	.1	15	64
22...	2.8	4.0	.9	31	7.8	--	2.8	.1	14	62
23...	2.9	4.1	.8	34	3.4	5.0	3.3	.1	14	68
27...	3.8	5.2	1.1	41	.6	3.1	3.0	.2	16	72
JUN										
04...	3.4	4.8	1.0	40	.3	2.5	2.1	.9	15	69
13...	3.3	4.8	1.0	41	1.6	5.9	4.8	.1	14	70
20...	3.3	4.7	1.0	35	--	6.6	2.7	.3	15	68
26...	3.8	4.7	1.1	42	1.3	19	1.5	.0	15	64
JUL										
22...	3.5	4.9	1.1	46	--	3.5	2.9	.1	14	71
AUG										
21...	4.1	5.3	1.1	34	.2	11	3.4	.1	14	69
SEP										
16...	5.1	6.6	1.7	49	--	6.3	4.0	.1	17	83

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
APR , 1980										
24...	53	.07	.09	.12	.120	.130	.57	.30	.69	.26
MAY										
15...	67	.08	.15	--	.060	.120	.32	.29	.38	.00
19...	65	.09	.18	.18	.070	.070	.46	.31	.53	.15
20...	63	.08	.23	.03	.120	.060	1.9	1.5	2.1	.50
22...	--	.08	.12	.10	.000	.120	.46	.36	.46	.00
23...	59	.09	.08	.09	.020	.150	.60	.24	.62	.23
27...	68	.09	.21	.19	.090	.120	.33	.26	.42	.04
JUN										
04...	63	.09	.14	.13	.010	.000	.40	--	.41	--
13...	68	.09	.14	.14	.000	.040	.61	.14	.61	.43
20...	64	.09	.13	.19	.280	.130	.13	.32	.41	.00
26...	80	.08	.18	--	.050	.080	.52	.34	.57	.15
JUL										
22...	67	.09	.17	.15	.070	.040	.65	.35	.72	.33
AUG										
21...	69	.09	.12	.11	.030	.040	.55	.37	.58	.17
SEP										
16...	82	.11	.18	.16	.040	.030	.45	.38	.49	.08

12500450 - YAKIMA R ABV AHTANUM CR AT UNION GAP, WASH.

WATER QUALITY DATA

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE TOTAL (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
APR , 1980										
24...	.43	.78	.55	.130	.030	--	--	--	3.5	1.2
MAY										
15...	.41	.53	--	.070	.050	--	--	2.5	--	--
19...	.38	.71	.56	.160	.040	--	--	--	--	--
20...	1.6	2.3	1.6	.130	.050	--	--	--	--	--
22...	.48	.58	.58	.090	.190	--	--	--	--	--
23...	.39	.70	.48	.070	.150	--	--	--	--	--
27...	.38	.63	.57	.080	.040	--	--	--	--	--
JUN										
04...	--	.55	--	.040	.020	--	--	--	--	--
13...	.18	.75	.32	.050	.040	--	--	--	2.9	--
20...	.45	.54	.64	.050	.040	--	--	--	--	--
26...	.42	.75	--	.090	.080	--	--	--	--	--
JUL										
22...	.39	.89	.54	.110	.060	--	.080	--	2.4	.4
AUG										
21...	.41	.70	.52	.080	.070	.030	.030	3.8	--	--
SEP										
16...	.41	.67	.57	.090	.070	.060	.050	1.7	--	--

12500450 - YAKIMA R ABV AHTANUM CR AT UNION GAP, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
APR , 1980												
24...	--	--	--	--	--	--	1	0	1	200	200	6
MAY												
19...	680	630	50	--	--	--	3	2	1	0	0	20
20...	990	940	50	--	--	--	2	1	1	0	0	20
22...	250	160	90	0	0	0	1	0	1	0	0	5
23...	260	120	140	0	0	0	2	1	1	0	0	5
27...	750	710	40	0	0	0	2	1	1	0	0	10
JUN												
04...	290	190	100	--	--	0	3	1	2	0	0	10
13...	190	150	40	0	0	0	2	1	1	0	0	10
20...	360	330	30	--	--	--	2	1	1	0	0	20
26...	1000	970	30	--	--	--	2	0	2	0	0	20
JUL												
22...	1400	1400	30	--	--	--	2	0	2	100	80	20
AUG												
21...	750	730	20	--	--	--	2	0	2	0	0	20
SEP												
16...	260	250	10	--	--	--	2	0	2	0	0	20

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)
APR , 1980											
24...	--	--	--	--	0	<1	20	20	0	2	<3
MAY											
19...	--	10	0	10	0	<1	0	0	0	0	<3
20...	--	9	9	0	0	<1	0	0	0	0	<3
22...	<1	9	5	4	1	<1	0	0	0	0	<3
23...	<1	20	10	10	1	<1	0	0	0	0	<3
27...	<1	20	0	30	0	<1	0	0	0	0	<3
JUN											
04...	<1	20	0	20	1	<1	0	0	0	0	<3
13...	<1	40	20	20	0	<1	0	0	0	0	<3
20...	<1	60	30	30	1	<1	0	0	0	0	<3
26...	<1	40	0	40	0	<1	0	0	0	3	<3
JUL											
22...	--	40	40	0	0	<1	0	0	0	4	<3
AUG											
21...	--	70	0	70	0	<1	10	10	0	0	<3
SEP											
16...	2	50	30	20	1	<1	0	0	0	0	<3

12500450 - YAKIMA R ABV AHTANUM CR AT UNION GAP, WASH.

WATER QUALITY DATA

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)
APR , 1980											
24...	10	7	3	5900	5800	100	4	2	2	--	--
MAY											
19...	12	9	3	3200	3200	30	3	3	0	0	--
20...	13	10	3	1800	1800	40	0	0	0	0	--
22...	6	--	<10	1100	1000	65	2	--	<10	0	0
23...	8	--	<10	1000	910	88	0	0	0	0	--
27...	26	8	18	710	670	40	97	83	14	0	--
JUN											
04...	7	--	<10	540	520	22	15	--	<10	0	--
13...	5	--	<10	950	910	41	0	0	0	0	--
20...	5	--	<10	1300	1300	39	2	1	1	0	--
26...	6	--	<10	1700	1700	41	3	0	0	0	--
JUL											
22...	17	16	1	1400	1300	60	4	1	3	0	--
AUG											
21...	8	6	2	960	930	30	7	4	3	0	--
SEP											
16...	9	--	<10	520	470	48	5	--	<10	10	4

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
APR , 1980											
24...	--	470	430	40	.1	.0	.1	--	18	18	0
MAY											
19...	<4	70	50	20	.1	.1	.0	--	6	5	1
20...	<4	40	30	10	.6	.6	.0	--	4	3	1
22...	4	40	30	6	.0	.0	.0	<10	5	2	3
23...	<4	40	30	8	.0	.0	.0	<10	4	0	4
27...	<4	20	7	13	.2	.0	.3	<10	8	4	4
JUN											
04...	<4	30	20	12	.2	.0	.2	<10	21	18	3
13...	<4	40	30	13	.1	.0	.3	<10	2	0	2
20...	<4	50	40	15	.3	.3	.0	<10	6	4	2
26...	<4	70	60	12	.5	.4	.1	<10	6	6	0
JUL											
22...	<4	40	30	10	.2	.1	.1	--	6	3	3
AUG											
21...	<4	30	20	10	.4	.2	.2	--	6	3	3
SEP											
16...	6	20	7	13	.5	.4	.1	<10	6	6	0

12500450 - YAKIMA R ABV AHTANUM CR AT UNION GAP, WASH.

WATER QUALITY DATA

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
APR , 1980											
24...	0	0	0	0	0	0	--	--	40	--	<3
MAY											
19...	0	0	0	0	0	0	--	--	20	--	<3
20...	0	0	0	0	0	0	--	--	30	--	<3
22...	0	0	0	0	0	0	37	<6.0	30	--	<3
23...	0	0	0	0	0	0	38	<6.0	30	--	<3
27...	0	0	0	0	0	0	49	<6.0	40	30	9
JUN											
04...	0	0	0	0	0	0	46	<6.0	30	30	3
13...	0	0	0	0	0	0	45	<6.0	30	--	<3
20...	0	0	0	0	0	0	45	<6.0	40	30	10
26...	0	0	0	1	1	0	49	<6.0	30	--	<3
JUL											
22...	0	0	0	0	0	0	--	--	30	--	<3
AUG											
21...	0	0	0	0	0	0	--	--	10	3	7
SEP											
16...	0	0	0	0	0	0	64	6.0	20	20	4

12500500 - NORTH FORK AHTANUM CREEK NEAR TAMPICO, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR , 1980												
29...	1200	86	7.4	4.4	4.9	11.2	34	4.9	8.0	3.5	4.1	2.2
30...	1515	86	7.4	6.5	4.9	10.8	35	4.9	8.1	3.6	4.0	2.2
MAY												
18...	1930	141	6.4	6.6	340	9.6	44	4.9	12	3.5	8.0	2.8
19...	1740	80	6.7	7.6	45	11.4	28	.0	7.1	2.7	3.7	1.9
22...	1530	73	6.6	7.9	18	10.7	27	.0	6.5	2.7	3.3	1.7
28...	0930	71	7.5	5.8	8.9	11.5	26	9.9	6.6	2.4	3.2	1.7
JUN												
03...	1615	73	8.0	7.8	5.0	10.3	24	9.9	6.0	2.3	3.0	1.7
10...	1520	60	7.8	10.4	5.1	10.0	24	--	5.9	2.3	3.0	1.8
18...	0950	58	7.7	8.0	9.8	10.7	22	--	5.5	2.1	2.6	1.6
24...	1525	68	7.5	8.8	6.0	--	23	--	5.5	2.3	2.7	1.5
JUL												
24...	1015	80	7.1	12.0	2.4	9.4	30	--	7.0	3.1	3.4	2.1
AUG												
19...	1015	64	7.7	9.6	5.2	9.9	30	9.9	7.2	3.1	3.7	2.2
SEP												
15...	1630	88	--	14.0	8.4	9.2	35	.0	8.4	3.6	4.0	2.5

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR , 1980											
29...	39	2.4	.8	.8	.1	40	85	83	.11	.03	.02
30...	40	2.5	1.0	.7	.1	40	94	84	.12	.08	.08
MAY											
18...	21	13	25	11	.2	29	109	104	.14	.05	.04
19...	23	7.2	7.4	3.2	.1	31	70	71	.09	.10	.07
22...	24	9.5	7.5	3.7	.1	28	69	68	.09	.00	.02
28...	26	1.3	3.6	3.2	.1	32	72	68	.09	.06	.04
JUN											
03...	26	.4	7.4	1.8	.0	30	69	67	.09	.01	.00
10...	25	.6	1.5	1.9	.1	28	57	59	.07	.00	.00
18...	26	.8	.7	1.5	.3	27	61	57	.08	.01	.03
24...	29	1.4	4.6	.9	.1	29	59	64	.08	.03	.02
JUL											
24...	39	4.9	3.1	.9	.1	34	80	77	.10	.00	.00
AUG											
19...	33	1.0	8.6	3.1	.1	34	75	82	.10	.00	.00
SEP											
15...	41	--	4.1	2.7	.1	35	96	85	.13	.00	.00

12500500 - NORTH FORK AHTANUM CREEK NEAR TAMPICO, WASH.

WATER QUALITY DATA

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
MAR , 1980											
29...	.010	.010	.34	.31	.35	.03	.32	.38	.34	.060	.050
30...	.010	.010	1.1	.45	1.2	.74	.46	1.2	.54	.060	.050
MAY											
18...	.080	.080	2.6	2.7	2.7	.00	2.8	2.7	2.8	.720	.040
19...	.150	.130	1.6	1.4	1.8	.20	1.6	1.9	1.7	.150	.040
22...	.060	.060	.33	.37	.39	.00	.43	.39	.45	.080	.190
28...	.010	.020	.47	.24	.48	.22	.26	.54	.30	.060	.030
JUN											
03...	.010	.040	.34	--	.35	--	--	.36	--	.040	.030
10...	.000	.020	1.0	.32	1.0	.66	.34	1.0	.34	.050	.010
18...	.020	.040	.28	.24	.30	.02	.28	.31	.31	.030	.030
24...	.040	.030	.24	.25	.28	.00	.28	.31	.30	.050	.060
JUL											
24...	.000	.000	.50	.29	.50	.21	.29	.50	.29	.060	.050
AUG											
19...	.000	.000	.42	.26	.42	.16	.26	.42	.26	.060	.060
SEP											
15...	.020	.000	.62	.25	.64	.39	.25	.64	.25	.080	.050

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ANTI-MONY, TOTAL (UG/L AS SB)	ANTI-MONY, SUS-PENDED TOTAL (UG/L AS SB)	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)
MAR , 1980												
29...	580	460	120	--	--	--	0	0	2	0	0	20
30...	470	330	140	--	--	--	1	0	2	0	0	20
MAY												
18...	16000	16000	60	--	--	--	4	2	2	100	80	20
19...	2200	2100	110	--	--	--	2	1	1	100	80	20
22...	450	370	80	0	0	0	0	0	0	0	0	5
28...	400	350	50	0	0	0	2	1	1	0	0	10
JUN												
03...	370	320	50	0	0	0	1	0	1	0	0	10
10...	570	510	60	0	0	0	1	0	1	0	0	10
18...	410	380	30	--	--	--	1	0	1	0	0	10
24...	860	840	20	--	--	--	1	0	1	0	0	10
JUL												
24...	220	210	10	--	--	--	2	0	2	0	0	20
AUG												
19...	380	340	40	--	--	--	1	0	1	0	0	20
SEP												
15...	370	350	20	--	--	--	1	0	1	100	90	10

12500500 - NORTH FORK AHTANUM CREEK NEAR TAMPICO, WASH.

WATER QUALITY DATA

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
MAR , 1980												
29...	--	60	50	9	0	0	<1	0	0	0	1	0
30...	--	60	50	10	0	0	<1	20	20	0	1	0
MAY												
18...	--	20	0	20	0	--	<1	0	0	0	8	--
19...	--	7	0	8	0	0	1	0	0	0	1	--
22...	<1	10	6	4	1	0	1	0	0	0	0	--
28...	<1	10	0	20	0	--	<1	0	0	0	0	--
JUN												
03...	<1	10	6	4	0	--	<1	0	0	0	0	--
10...	<1	30	10	20	0	--	<1	0	0	0	0	--
18...	<1	40	10	30	0	--	<1	0	0	0	0	--
24...	<1	30	0	30	0	--	<1	0	0	0	0	--
JUL												
24...	<1	20	20	0	0	--	<1	0	0	0	2	--
AUG												
19...	<1	40	0	60	0	0	1	10	10	0	0	--
SEP												
15...	<1	80	60	20	0	--	<1	10	10	0	0	--

DATE	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)
MAR , 1980												
29...	<3	5	1	4	610	370	240	0	0	0	0	0
30...	<3	2	0	4	600	430	170	2	2	0	0	0
MAY												
18...	<3	90	83	7	17000	17000	50	7	6	1	20	10
19...	<3	19	16	3	4600	4500	60	4	4	0	0	--
22...	<3	8	--	<10	2300	2200	62	2	2	0	0	--
28...	<3	8	--	<10	920	840	85	12	--	<10	0	--
JUN												
03...	<3	5	--	<10	1000	960	40	3	--	<10	0	--
10...	<3	5	--	<10	830	750	84	7	0	13	0	--
18...	<3	4	--	<10	1100	1000	52	0	0	--	0	--
24...	<3	8	--	<10	870	810	62	1	1	0	0	--
JUL												
24...	<3	38	--	<10	690	570	120	8	0	<10	0	--
AUG												
19...	<3	7	--	<10	500	380	120	5	0	<10	0	--
SEP												
15...	<3	6	--	<10	980	830	150	2	--	<10	0	--

12500500 - NORTH FORK AHTANUM CREEK NEAR TAMPICO, WASH.

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAR , 1980											
29...	<4	20	10	6	1.3	1.3	.0	--	0	0	2
30...	<4	20	10	7	.1	.1	.0	--	0	0	2
MAY											
18...	7	360	290	70	.3	.3	.0	--	15	14	1
19...	<4	80	70	10	.2	.2	.0	--	9	8	1
22...	<4	50	50	5	.1	.1	.0	<10	8	0	8
28...	<4	20	10	8	.2	.0	.3	<10	11	9	2
JUN											
03...	<4	30	20	14	.1	.0	.2	<10	6	4	2
10...	<4	20	10	10	.3	.0	.5	<10	0	0	7
18...	<4	50	40	10	.0	.0	.0	<10	4	3	1
24...	<4	30	20	7	.4	.2	.2	<10	7	7	0
JUL											
24...	<4	30	10	19	.2	.0	.2	<10	4	2	2
AUG											
19...	<4	20	4	16	.4	.2	.2	<10	7	5	2
SEP											
15...	<4	30	20	15	.1	.0	.5	<10	1	1	0

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980											
29...	0	0	0	0	0	0	--	--	20	10	7
30...	0	0	0	0	0	0	--	--	10	5	5
MAY											
18...	1	1	0	0	0	0	--	--	80	--	<3
19...	0	0	0	0	0	0	--	--	30	20	10
22...	0	0	0	1	1	0	31	<6.0	30	20	6
28...	0	0	0	0	0	0	29	<6.0	30	20	11
JUN											
03...	0	0	0	0	0	0	27	<6.0	10	--	<3
10...	0	0	0	0	0	0	28	<6.0	20	--	<3
18...	0	0	0	0	0	0	27	<6.0	20	--	<3
24...	0	0	0	0	0	0	27	<6.0	10	--	<3
JUL											
24...	0	0	0	0	0	0	32	8.0	80	80	4
AUG											
19...	0	0	0	1	1	0	34	<6.0	90	90	4
SEP											
15...	0	0	0	0	0	0	38	7.0	30	--	<3

12501000 - SO FK AHTANUM CR AT CONRAD RNCH N TAMPICO, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR , 1980												
29...	1430	78	7.4	5.4	4.5	11.2	33	4.9	7.5	3.5	3.6	2.2
30...	1620	83	7.3	6.0	5.0	11.1	33	4.9	7.6	3.5	3.6	2.3
MAY												
18...	2015	108	6.3	6.6	280	8.7	38	.0	9.8	3.3	5.9	2.5
19...	1900	79	6.8	7.6	75	10.4	30	.0	7.3	3.0	3.7	1.9
22...	1615	69	6.5	7.9	12	10.9	24	4.9	5.8	2.4	2.8	1.7
28...	1100	68	7.8	6.8	4.5	11.4	25	4.9	6.2	2.5	2.8	1.7
JUN												
11...	1050	60	7.6	8.4	4.1	10.8	25	4.9	6.1	2.6	3.0	1.8

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR , 1980											
29...	38	2.4	1.6	.9	.1	42	89	84	.12	.03	.03
30...	38	3.0	.9	.5	.1	43	89	84	.12	.02	.02
MAY											
18...	21	16	16	7.6	.1	33	94	91	.12	.09	.05
19...	29	7.3	7.0	2.8	.1	33	75	76	.10	.02	.03
22...	23	11	3.8	1.8	.1	31	68	63	.09	.00	.00
28...	30	.7	.3	1.0	.1	34	69	66	.09	.01	.04
JUN											
11...	25	.9	.5	1.3	.1	31	65	61	.08	.00	--

12501000 - SO FK AHTANUM CR AT CONRAD RNCH N TAMPICO, WASH.

WATER QUALITY DATA

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
MAR , 1980											
29...	.030	.030	.29	.24	.32	.05	.27	.35	.30	.070	.060
30...	.010	.010	.32	.22	.33	.10	.23	.35	.25	.070	.060
MAY											
18...	.100	.100	2.7	1.0	2.8	1.7	1.1	2.8	1.2	.520	.040
19...	.080	.040	3.1	1.4	3.2	1.7	1.5	3.2	1.5	.110	.040
22...	.000	--	1.0	--	1.0	.32	.68	1.0	.68	.060	--
28...	.010	.000	.35	.35	.36	.01	.35	.37	.39	.040	.040
JUN											
11...	.000	.000	.34	.20	.34	.14	.20	.34	--	.050	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAR , 1980												
29...	440	370	70	--	--	--	1	0	2	0	0	20
30...	510	420	90	--	--	--	1	0	2	0	0	20
MAY												
18...	500	460	40	--	--	--	4	2	2	0	0	10
19...	1300	1300	50	--	--	--	2	1	1	0	0	10
22...	180	180	0	0	0	0	0	0	0	0	0	4
28...	480	480	0	0	0	0	1	0	1	0	0	20
JUN												
11...	210	170	40	0	0	0	1	0	1	0	0	10

12501000 - SO FK AHTANUM CR AT CONRAD RNCH N TAMPICO, WASH.

WATER QUALITY DATA

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
MAR , 1980												
29...	--	80	70	7	0	0	<1	20	20	0	1	0
30...	--	50	20	30	0	0	<1	20	20	0	1	0
MAY												
18...	--	10	0	10	0	--	<1	0	0	0	3	--
19...	--	7	0	10	1	--	<1	0	0	0	0	--
22...	<1	20	20	0	1	--	<1	0	0	0	0	--
28...	<1	6	0	20	0	--	<1	0	0	0	0	--
JUN												
11...	<1	30	10	20	0	--	<1	0	0	0	0	--

DATE	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)
MAR , 1980												
29...	<3	3	1	2	620	410	210	1	1	0	0	0
30...	<3	3	0	3	640	450	190	0	0	0	0	0
MAY												
18...	<3	38	33	5	7100	7000	60	3	3	0	10	--
19...	<3	10	8	2	1900	1800	70	3	2	1	0	--
22...	<3	9	--	<10	840	800	40	5	--	<10	0	--
28...	<3	5	--	<10	570	490	84	5	--	<10	0	--
JUN												
11...	<3	3	--	<10	470	370	100	5	5	0	0	--

12501000 - SO FK AHTANUM CR AT CONRAD RNCH N TAMPICO, WASH.

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAR , 1980											
29...	<4	30	10	20	.0	.0	.0	--	0	0	2
30...	<4	20	10	10	.1	.1	.0	--	1	0	2
MAY											
18...	<4	150	110	40	.7	.7	.0	--	8	4	4
19...	<4	40	20	20	.1	.1	.0	--	6	5	1
22...	<4	40	30	6	.1	.1	.0	<10	7	3	4
28...	<4	20	10	10	1.5	1.2	.3	<10	4	1	3
JUN											
11...	<4	20	2	18	.1	.0	.1	<10	6	4	2

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980											
29...	0	0	0	0	0	0	--	--	20	20	4
30...	0	0	0	0	0	0	--	--	20	20	5
MAY											
18...	0	0	0	0	0	0	--	--	30	30	3
19...	0	0	0	0	0	0	--	--	30	--	<3
22...	0	0	0	0	0	0	26	<6.0	20	--	<3
28...	0	0	0	0	0	0	27	<6.0	20	--	<3
JUN											
11...	0	0	0	0	0	0	28	<6.0	10	--	<3

12506000 - TOPPENISH CREEK NEAR FORT SIMCOE, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR , 1980												
30...	1000	77	7.4	3.8	2.7	12.4	34	4.9	7.7	3.6	3.5	1.4
MAY												
19...	1145	98	6.7	9.8	23	10.6	40	.0	9.6	4.0	4.4	1.6
20...	1400	89	6.8	12.0	6.0	10.3	38	.0	8.9	4.0	4.0	1.5
23...	1115	105	7.5	9.6	3.7	10.9	38	4.9	8.5	4.1	4.1	1.6
28...	1645	101	8.0	12.4	2.9	10.1	40	4.9	9.3	4.2	4.1	1.6
JUN												
03...	1130	98	7.9	9.6	1.4	10.2	42	9.9	9.8	4.4	4.3	1.6
12...	1430	110	7.9	13.6	1.3	9.6	42	4.9	9.5	4.5	4.6	1.8
18...	1400	113	--	--	--	9.3	--	--	--	--	--	--
25...	1605	117	8.0	14.2	4.3	--	44	--	10	4.8	4.6	1.9
JUL												
24...	1400	126	7.9	21.1	1.1	8.1	52	--	12	5.4	5.5	2.2
AUG												
19...	1440	133	8.2	18.6	2.8	9.4	52	.0	12	5.4	5.7	2.4
SEP												
16...	1500	132	--	17.2	1.6	9.3	53	.0	12	5.8	6.0	2.3

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR , 1980											
30...	39	2.4	1.4	.7	.1	34	78	76	.10	.03	.01
MAY											
19...	40	12	5.8	2.1	.1	32	83	83	.11	.07	.06
20...	41	10	3.5	1.2	.1	32	77	80	.10	.01	.03
23...	41	2.0	1.0	7.3	.1	24	78	75	.10	.00	.04
28...	45	.7	.5	.9	.1	34	86	82	.11	.02	.01
JUN											
03...	48	.9	2.2	.9	.1	35	77	87	.10	.01	.02
12...	57	1.1	2.0	1.9	.2	35	98	94	.13	.03	--
18...	--	--	--	--	--	--	--	--	--	--	--
25...	56	.8	1.4	.5	.1	34	82	91	.11	.02	.01
JUL											
24...	65	1.3	5.3	1.8	.2	37	103	109	.14	.00	.00
AUG											
19...	57	.5	5.2	1.0	.1	35	103	102	.14	.00	.00
SEP											
16...	65	--	3.8	1.8	.1	37	121	108	.16	.00	.00

12506000 - TOPPENISH CREEK NEAR FORT SIMCOE, WASH.

WATER QUALITY DATA

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
MAR. 1980											
30...	.010	.010	.47	.36	.48	.11	.37	.51	.38	.050	.040
MAY											
19...	.100	.080	.90	.43	1.0	.49	.51	1.0	.57	.060	.040
20...	.100	.100	2.4	1.9	2.5	.50	2.0	2.5	2.0	.070	.040
23...	.150	--	.80	--	.95	.01	.94	.95	.98	.210	--
28...	.030	.020	.32	.35	.35	.00	.37	.37	.38	.060	.040
JUN											
03...	.030	.020	.64	--	.67	--	--	.68	--	.040	.030
12...	.000	.020	.61	.49	.61	.10	.51	.64	--	.050	.010
18...	--	--	--	--	--	--	--	--	--	--	--
25...	.010	.010	1.6	.75	1.7	.94	.76	1.7	.77	.060	.080
JUL											
24...	.000	.000	.94	.28	.94	.66	.28	.94	.28	.060	.050
AUG											
19...	.000	.010	.36	.38	.36	.00	.39	.36	.39	.070	.070
SEP											
16...	.000	.000	.31	.32	.31	.00	.32	.31	.32	.060	.050

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAR. 1980												
30...	280	180	100	--	--	--	1	0	2	100	80	20
MAY												
19...	570	540	30	--	--	--	1	0	1	0	0	10
20...	460	440	20	--	--	--	1	0	1	0	0	10
23...	110	30	80	0	0	0	3	3	0	0	0	6
28...	160	150	10	0	0	0	6	5	1	0	0	20
JUN												
03...	150	150	0	0	0	0	0	0	1	0	0	10
12...	200	150	50	0	0	0	0	0	1	0	0	10
25...	410	400	10	--	--	--	1	0	1	0	0	10
JUL												
24...	140	130	10	--	--	--	2	0	2	0	0	20
AUG												
19...	260	250	10	--	--	--	0	0	1	0	0	20
SEP												
16...	110	90	20	--	--	--	0	0	1	0	0	10

12506000 - TOPPENISH CREEK NEAR FORT SIMCOE, WASH.

WATER QUALITY DATA

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
MAR , 1980												
30...	--	70	70	2	0	0	<1	20	20	0	1	0
MAY												
19...	--	9	1	8	0	--	<1	0	0	0	0	--
20...	--	7	0	8	1	--	<1	0	0	0	0	--
23...	<1	10	0	10	1	0	2	0	0	0	0	--
28...	<1	20	0	20	0	--	<1	0	0	0	0	--
JUN												
03...	<1	10	0	20	0	--	<1	0	0	0	0	--
12...	<1	40	10	30	0	--	<1	0	0	0	0	--
25...	<1	30	0	30	0	--	<1	0	0	0	0	--
JUL												
24...	<1	30	30	2	0	--	<1	0	0	10	2	0
AUG												
19...	<1	40	0	50	0	--	<1	10	10	0	0	--
SEP												
16...	<1	30	20	9	0	--	<1	10	10	0	0	--

DATE	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)
MAR , 1980												
30...	<3	3	0	3	340	210	130	0	0	0	0	0
MAY												
19...	<3	7	6	1	1400	1300	110	3	3	0	0	--
20...	<3	5	3	2	870	730	140	2	1	1	0	--
23...	<3	19	3	16	610	520	93	4	4	0	0	--
28...	<3	5	--	<10	630	440	190	7	--	<10	0	--
JUN												
03...	<3	5	--	<10	450	260	190	4	--	<10	0	--
12...	<3	3	--	<10	690	450	240	4	--	<10	0	--
25...	<3	4	--	<10	1000	740	260	3	3	0	0	--
JUL												
24...	3	67	--	<10	750	270	480	9	0	<10	0	--
AUG												
19...	<3	10	--	<10	890	400	490	5	0	<10	0	--
SEP												
16...	<3	4	--	<10	1000	470	530	2	--	<10	10	5

12506000 - TOPPENISH CREEK NEAR FORT SIMCOE, WASH.

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAR , 1980											
30...	<4	20	10	10	.1	.1	.0	--	0	0	2
MAY											
19...	<4	50	30	20	.6	.6	.0	--	6	5	1
20...	<4	30	10	20	.1	.0	.7	--	4	2	2
23...	<4	50	20	28	.2	.1	.1	<10	4	0	11
28...	<4	20	4	16	.3	.0	.3	<10	4	0	4
JUN											
03...	<4	30	10	20	.0	.0	.2	<10	5	2	3
12...	<4	30	10	19	.0	.0	.2	<10	2	1	1
25...	<4	50	30	18	.0	.0	.1	<10	3	3	0
JUL											
24...	<4	30	10	20	.1	.0	.3	<10	6	6	0
AUG											
19...	<4	30	10	17	.1	.0	.2	<10	7	6	1
SEP											
16...	5	30	10	17	.5	.5	.0	<10	0	0	0

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980											
30...	0	0	0	0	0	0	--	--	10	4	6
MAY											
19...	0	0	0	0	0	0	--	--	10	--	<3
20...	0	0	0	0	0	0	--	--	10	--	<3
23...	0	0	0	1	1	0	48	<6.0	30	4	26
28...	0	0	0	0	0	0	49	<6.0	20	20	3
JUN											
03...	0	0	0	0	0	0	51	<6.0	30	20	7
12...	0	0	0	0	0	0	56	<6.0	30	--	<3
25...	0	0	0	0	0	0	57	<6.0	10	--	<3
JUL											
24...	0	0	0	0	0	0	63	10	40	--	<3
AUG											
19...	0	0	0	0	0	0	66	<6.0	10	--	<3
SEP											
16...	0	0	0	0	0	0	67	<6.0	20	--	<3

12506300 - N.F. SIMCOE CR NR FORT SIMCOE

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR , 1980												
30...	1300	100	7.6	5.4	3.1	11.6	42	4.9	9.4	4.5	4.6	2.6
MAY												
19...	0930	140	6.9	9.3	45	9.8	55	.0	13	5.5	6.6	3.3
20...	1145	122	6.8	11.6	1.0	10.6	48	.0	11	5.2	5.9	3.2
23...	1300	118	7.4	10.8	7.3	9.9	45	.0	10	4.9	5.9	3.0
28...	1430	140	8.0	13.5	5.4	9.9	48	9.9	11	5.2	5.8	3.2
JUN												
12...	1050	138	8.0	11.8	5.1	10.2	50	4.9	11	5.6	6.3	3.4

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR , 1980											
30...	49	1.9	1.1	.7	.1	44	103	96	.14	.02	.01
MAY											
19...	60	12	1.5	4.2	.1	42	114	113	.15	.07	.06
20...	48	12	5.4	2.4	.1	43	107	105	.14	.04	.05
23...	47	2.9	3.7	5.3	.1	35	106	96	.14	.00	.00
28...	58	.9	.9	1.6	.0	44	109	107	.14	.10	.03
JUN											
12...	67	1.0	.8	.8	.1	45	104	113	.14	.01	--

12506300 - N.F. SIMCOE CR NR FORT SIMCOE

WATER QUALITY DATA

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
MAR , 1980											
30...	.030	.030	.25	.19	.28	.06	.22	.30	.23	.070	.060
MAY											
19...	.100	.130	2.9	.45	3.0	2.4	.58	3.0	.64	.130	.060
20...	.100	.120	1.9	1.3	2.0	.50	1.5	2.0	1.6	.090	.060
23...	.070	.090	.37	.27	.44	.08	.36	.44	.36	.060	--
28...	.010	.040	.27	.22	.28	.02	.26	.38	.29	.070	.040
JUN											
12...	.000	.000	.40	.27	.40	.13	.27	.41	--	.070	.010

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAR , 1980												
30...	400	320	80	--	--	--	1	0	2	0	0	20
MAY												
19...	1500	1400	80	--	--	--	2	0	2	0	0	20
20...	830	770	60	--	--	--	1	0	1	0	0	20
23...	130	10	120	0	0	0	0	0	0	0	0	8
28...	560	520	40	0	0	0	6	5	1	0	0	20
JUN												
12...	210	180	30	0	0	0	1	0	1	0	0	20

12506300 - N.F. SIMCOE CR NR FORT SIMCOE

WATER QUALITY DATA

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
MAR , 1980												
30...	--	60	40	20	0	0	<1	20	20	0	1	0
MAY												
19...	--	10	0	10	0	--	<1	0	0	0	0	--
20...	--	2	0	10	0	--	<1	20	20	0	0	--
23...	<1	10	6	4	1	--	<1	0	0	0	0	--
28...	<1	10	0	10	0	--	<1	0	0	0	0	--
JUN												
12...	<1	40	20	20	0	--	<1	0	0	0	0	--

DATE	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)
MAR , 1980												
30...	<3	3	0	4	510	370	140	1	1	0	0	0
MAY												
19...	<3	12	8	4	2500	2400	60	2	0	3	10	--
20...	<3	8	6	2	1400	1300	70	2	2	0	0	--
23...	<3	8	--	<10	630	540	86	3	3	0	10	5
28...	<3	5	--	<10	590	490	100	5	--	<10	0	--
JUN												
12...	<3	4	--	<10	870	750	120	8	8	0	10	--

12506300 - N.F. SIMCOE CR NR FORT SIMCOE

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAR , 1980											
30...	<4	20	10	7	.1	.1	.0	--	0	0	2
MAY											
19...	<4	60	40	20	.6	.2	.4	--	6	4	2
20...	<4	20	10	10	.0	.0	.0	--	21	20	1
23...	5	30	30	4	.1	.1	.0	<10	4	0	5
28...	<4	20	10	10	1.0	.6	.4	<10	5	3	2
JUN											
12...	<4	40	20	22	.2	.0	.2	<10	4	1	3

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980											
30...	0	0	0	0	0	0	--	--	20	10	6
MAY											
19...	0	0	0	0	0	0	--	--	20	--	<3
20...	0	0	0	0	0	0	--	--	30	--	<3
23...	0	0	0	0	0	0	39	8.0	30	20	13
28...	0	0	0	0	0	0	40	<6.0	20	--	<3
JUN											
12...	0	0	0	0	0	0	44	9.0	20	--	<3

12510500 - YAKIMA RIVER AT KIONA, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
APR , 1980											
16...	1330	148	--	12.8	14	9.8	100	--	56	--	14
MAY											
06...	1500	124	--	15.6	21	9.6	310	110	50	--	13
21...	1630	185	7.9	17.4	63	9.1	570	--	67	4.9	17
30...	1330	218	7.8	17.4	9.4	10.1	260	47	87	9.9	22
JUN											
06...	1115	245	8.4	16.5	7.9	9.7	54	31	88	14	22
12...	1300	269	8.3	18.0	5.7	9.7	120	28	96	--	24
19...	1145	216	7.8	20.3	130	7.9	830	920	73	--	19
25...	1215	240	8.2	18.7	18	9.2	K1000	--	85	--	22
JUL											
24...	1100	306	8.4	23.6	7.3	8.6	100	390	116	--	30
AUG											
11...	1400	313	8.6	23.0	3.5	9.0	55	19	114	--	29
SEP											
09...	1510	319	8.6	20.6	6.9	10.4	200	--	114	.0	29

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
APR , 1980											
16...	5.2	7.4	1.8	60	--	5.8	3.2	.1	21	98	94
MAY											
06...	4.4	6.5	1.4	50	--	5.0	2.6	.1	19	100	82
21...	6.0	9.3	2.0	53	1.0	15	12	.2	20	124	114
30...	7.8	12	2.3	84	2.1	16	13	.1	23	143	147
JUN											
06...	8.1	12	2.5	100	.6	13	5.3	.2	21	148	144
12...	8.9	15	1.3	110	.8	14	5.4	.1	20	156	155
19...	6.4	11	2.6	83	2.0	13	5.4	.2	21	128	129
25...	7.5	12	2.5	91	.9	13	5.4	.2	22	148	139
JUL											
24...	10	17	3.5	120	.7	34	5.2	.2	24	190	196
AUG											
11...	10	16	3.2	120	.4	21	7.1	.3	22	190	181
SEP											
09...	10	17	3.5	120	.4	19	7.5	.3	24	198	183

12510500 - YAKIMA RIVER AT KIONA, WASH.

WATER QUALITY DATA

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
APR , 1980										
16...	.13	113	.30	.33	.040	.040	1.5	1.4	1.6	.10
MAY										
06...	.13	113	.36	.41	.060	.030	.55	.42	.61	.16
21...	.16	16	.76	.74	.040	.060	.50	.42	.54	.06
30...	.19	--	1.0	.95	.060	.060	.42	.32	.48	.10
JUN										
06...	.20	--	.96	.96	.030	.000	.79	.38	.82	.44
12...	.21	18	1.1	1.1	.000	.000	.59	.36	.59	.23
19...	.17	--	.98	.99	.030	.000	.97	.51	1.0	.49
25...	.20	--	.84	.97	.000	.000	1.8	.37	1.8	1.4
JUL										
24...	.25	15	1.6	1.7	.000	.000	1.5	.87	1.5	.63
AUG										
11...	.25	13	1.5	1.6	.000	.000	.87	.53	.87	.34
SEP										
09...	.26	8	1.7	1.8	.000	.010	1.3	.67	1.3	.62

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
APR , 1980										
16...	1.5	1.9	1.8	.190	.050	--	--	--	4.4	1.0
MAY										
06...	.45	.97	.86	.160	.050	--	--	--	--	--
21...	.48	1.3	1.2	.180	.070	--	--	4.6	--	--
30...	.38	1.4	1.3	.110	.060	--	--	--	--	--
JUN										
06...	.38	1.7	1.3	.080	.060	--	--	--	--	--
12...	.36	1.6	1.5	.090	.010	--	--	8.7	--	--
19...	.51	1.9	1.5	.400	.080	--	--	--	--	--
25...	.37	2.6	1.3	.150	.080	--	--	--	--	--
JUL										
24...	.87	3.1	2.6	.140	.100	--	--	--	2.3	.5
AUG										
11...	.53	2.3	2.1	.130	.130	.070	.080	4.0	--	--
SEP										
09...	.68	3.0	2.5	.090	.110	.090	.090	3.4	--	--

12510500 - YAKIMA RIVER AT KIONA, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
APR , 1980												
16...	--	--	--	--	--	--	2	1	1	100	80	20
MAY												
21...	600	440	160	0	0	0	2	0	2	0	0	20
30...	930	730	200	0	0	0	2	0	2	0	0	30
JUN												
06...	420	370	50	0	0	0	3	0	3	0	0	30
12...	460	410	50	0	0	0	3	0	3	0	0	30
19...	10000	9900	60	--	--	--	2	0	3	100	80	20
25...	760	750	10	--	--	--	3	0	3	0	0	30
JUL												
24...	--	--	--	--	--	--	5	1	4	100	60	40
AUG												
11...	280	270	10	--	--	--	4	0	4	0	0	40
SEP												
09...	250	230	20	--	--	--	3	1	2	0	0	40

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
APR , 1980												
16...	--	--	--	--	0	0	1	0	0	0	0	--
MAY												
21...	<1	30	20	7	0	0	1	0	0	0	5	5
30...	<1	40	10	30	0	--	<1	0	0	0	0	--
JUN												
06...	<1	30	0	40	0	--	<1	0	0	0	0	--
12...	<1	40	10	30	0	--	<1	0	0	0	0	--
19...	<1	30	10	20	0	0	1	10	10	0	8	--
25...	<1	30	10	20	0	--	<1	0	0	0	2	--
JUL												
24...	<1	--	--	--	0	--	<1	20	10	10	2	--
AUG												
11...	--	60	10	50	1	0	1	0	0	0	3	--
SEP												
09...	--	70	70	0	1	0	1	10	10	0	0	--

12510500 - YAKIMA RIVER AT KIONA, WASH.

WATER QUALITY DATA

DATE	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)
APR , 1980												
16...	<3	9	6	3	4400	4400	40	4	1	3	--	--
MAY												
21...	0	11	9	2	2700	2700	30	4	4	0	0	0
30...	<3	7	--	<10	1000	980	18	4	--	<10	0	--
JUN												
06...	<3	6	--	<10	810	760	46	3	--	<10	10	5
12...	<3	5	--	<10	910	880	27	6	6	0	0	--
19...	<3	23	--	<10	18000	18000	110	4	0	10	0	0
25...	<3	7	--	<10	1500	1500	38	3	0	<10	0	0
JUL												
24...	<3	13	8	5	1000	990	10	6	3	3	--	--
AUG												
11...	<3	8	5	3	960	940	20	3	3	0	0	--
SEP												
09...	<3	8	5	3	700	680	20	4	4	0	0	0

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
APR , 1980											
16...	--	120	110	10	.0	.0	.1	--	5	5	0
MAY											
21...	7	80	70	10	.3	.1	.2	<10	9	9	0
30...	<4	40	30	6	.7	.2	.5	<10	5	2	3
JUN											
06...	5	50	40	13	.2	.1	.1	<10	7	7	0
12...	<4	60	60	5	.1	.0	.2	<10	5	1	4
19...	7	420	420	4	.2	.2	.0	<10	11	11	0
25...	6	70	70	5	.0	.0	.0	<10	5	5	0
JUL											
24...	<4	50	40	8	.1	.0	.2	<10	17	7	10
AUG											
11...	<4	60	50	7	.8	.5	.3	--	3	3	0
SEP											
09...	5	50	40	8	.5	.0	.5	--	2	2	0

12510500 - YAKIMA RIVER AT KIONA, WASH.

WATER QUALITY DATA

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
APR , 1980											
16...	0	0	0	1	1	0	--	--	30	--	<3
MAY											
21...	0	0	0	0	0	0	76	9.0	30	20	10
30...	0	0	0	0	0	0	100	<6.0	20	--	<3
JUN											
06...	0	0	0	0	0	0	110	8.0	20	--	<3
12...	0	0	0	0	0	0	120	7.0	30	--	<3
19...	0	0	0	0	0	0	92	<6.0	60	--	<3
25...	0	0	0	0	0	0	110	<6.0	140	--	<3
JUL											
24...	0	0	0	0	0	0	140	<6.0	30	--	<3
AUG											
11...	0	0	0	2	2	0	--	--	20	--	<3
SEP											
09...	0	0	0	0	0	0	--	--	30	--	<3

13344520 - TUCANNON R AT POWERS

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR , 1980												
25...	1150	150	7.0	8.8	--	--	--	--	--	--	--	--
APR												
22...	1200	120	7.1	12.2	--	--	--	--	--	--	--	--
MAY												
29...	1010	110	6.9	14.4	--	--	--	--	--	--	--	--
29...	1640	101	8.2	18.5	1.6	9.2	43	4.9	11	3.9	4.6	2.3
JUN												
13...	1145	103	7.8	14.4	5.4	10.2	40	4.9	9.9	3.8	3.8	2.5
24...	1000	160	7.0	15.7	--	--	--	--	--	--	--	--
26...	1115	124	8.2	16.6	15	10.0	52	--	13	4.9	4.7	2.8

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
MAR , 1980												
25...	--	--	--	--	--	--	--	--	--	.55	--	.100
APR												
22...	--	--	--	--	--	--	--	--	--	.28	--	.000
MAY												
29...	--	--	--	--	--	--	--	--	--	.14	--	.010
29...	52	.5	.1	.9	.1	38	88	92	.12	.23	.06	.070
JUN												
13...	28	.7	.1	12	.1	37	92	86	.12	.09	.13	.000
24...	--	--	--	--	--	--	--	--	--	.13	--	.030
26...	60	.6	6.0	1.0	.1	38	96	107	.13	.04	.07	.030

13344520 - TUCANNON R AT POWERS

WATER QUALITY DATA

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)
MAR , 1980											
25...	--	--	--	--	--	--	--	--	.120	--	.070
APR											
22...	--	--	--	--	--	--	--	--	.240	--	.080
MAY											
29...	--	--	--	--	--	--	--	--	.070	--	.080
29...	.060	.79	.32	.86	.48	.38	1.0	.44	.060	.060	--
JUN											
13...	.000	.78	.47	.78	.31	.47	.87	.60	.160	.030	--
24...	--	--	--	--	--	--	--	--	.090	--	.070
26...	.030	.88	.33	.91	.55	.36	.95	.43	.160	.090	--

13344520 - TUCANNON R AT POWERS

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)
MAY , 1980										
29...	340	290	50	0	0	0	2	0	2	0
JUN										
13...	500	470	30	0	0	0	1	0	1	100
26...	480	460	20	--	--	--	2	0	2	0

DATE	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
MAY , 1980									
29...	0	20	<1	30	10	20	0	<1	0
JUN									
13...	80	20	<1	50	10	40	0	<1	0
26...	0	20	<1	30	0	30	0	<1	10

DATE	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
MAY , 1980									
29...	0	0	0	<3	5	<10	610	550	61
JUN									
13...	0	0	0	<3	12	<10	2800	2800	46
26...	10	0	3	<3	6	<10	2200	2200	35

13344520 - TUCANNON R AT POWERS

WATER QUALITY DATA

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAY , 1980								
29...	2	--	<10	0	<4	30	20	7
JUN								
13...	8	--	<10	0	<4	90	80	13
26...	4	4	0	10	<4	70	60	14

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)
MAY , 1980									
29...	.1	.0	.2	<10	5	3	2	0	0
JUN									
13...	.6	.1	.5	<10	14	10	4	0	0
26...	.0	.0	.0	<10	14	14	0	0	0

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAY , 1980								
29...	0	0	0	0	39	<6.0	20	<3
JUN								
13...	0	0	0	0	40	8.0	20	<3
26...	0	0	0	0	49	12	70	<3

14110720 - OUTLET CR NR GLENWOOD,WASH

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR , 1980												
29...	1145	53	6.5	6.7	3.1	9.8	21	9.9	5.0	2.3	3.0	1.0
30...	1645	52	6.2	7.4	2.7	11.0	21	4.9	5.0	2.3	3.0	.9
APR												
09...	1200	53	6.4	9.8	4.2	9.0	23	4.9	5.1	2.5	3.1	1.0
MAY												
19...	1155	56	7.4	14.3	4.0	9.0	24	.0	5.4	2.6	2.6	.6
29...	1530	57	7.6	15.7	1.3	9.2	22	9.9	5.3	2.3	2.7	.6
JUN												
10...	1245	58	7.4	20.0	1.6	8.9	25	--	5.6	2.7	2.9	.6

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR , 1980											
29...	23	11	1.0	1.0	.0	25	65	52	.08	.01	.03
30...	23	23	1.4	.9	.0	25	65	52	.08	.01	.00
APR											
09...	25	15	3.8	1.5	.1	23	59	55	.08	.08	.03
MAY											
19...	24	1.5	1.5	.2	.0	23	56	50	.07	.11	.07
29...	27	1.0	1.3	.4	.1	22	57	51	.07	.01	.02
JUN											
10...	30	1.8	1.3	.4	.0	19	55	51	.07	.02	.01

14110720 - OUTLET CR NR GLENWOOD,WASH

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAR , 1980												
29...	250	210	40	--	--	--	2	1	1	0	0	20
30...	270	230	40	--	--	--	2	1	1	100	80	20
APR												
09...	350	310	40	--	--	--	0	0	1	0	0	10
MAY												
19...	140	110	30	--	--	--	1	0	1	0	0	20
29...	80	60	20	0	0	0	1	0	1	0	0	20
JUN												
10...	90	90	0	0	0	0	1	0	1	0	0	10

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
MAR , 1980											
29...	.000	.000	--	.59	--	--	.59	--	.62	.030	.030
30...	.000	.000	.88	.84	.88	.04	.84	.89	.84	.020	.020
APR											
09...	.020	.040	.71	.74	.73	.00	.78	.81	.81	.040	.040
MAY											
19...	.060	.010	2.4	1.8	2.5	.60	1.9	2.6	2.0	.050	.030
29...	.060	.040	.76	.57	.82	.21	.61	.83	.63	.030	.020
JUN											
10...	.000	.020	.79	.41	.79	.36	.43	.81	.44	.040	.030

14110720 - OUTLET CR NR GLENWOOD,WASH

WATER QUALITY DATA

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
MAR , 1980												
29...	--	30	20	8	0	0	<1	0	0	0	1	0
30...	--	60	50	10	0	0	<1	0	0	0	1	0
APR												
09...	--	90	70	20	0	0	<1	0	0	0	3	0
MAY												
19...	--	10	0	30	0	0	2	0	0	0	0	--
29...	<1	30	0	30	1	--	<1	0	0	0	0	--
JUN												
10...	<1	50	30	20	0	--	<1	0	0	0	0	--

DATE	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)
MAR , 1980												
29...	<3	7	3	4	350	180	170	3	3	0	0	0
30...	<3	6	4	2	280	140	140	6	6	0	0	0
APR												
09...	<3	4	3	1	390	240	150	3	2	1	0	0
MAY												
19...	<3	4	3	1	800	420	380	1	1	0	0	--
29...	<3	6	--	<10	650	180	470	7	--	<10	0	--
JUN												
10...	<3	3	--	<10	810	310	500	7	--	<10	0	--

14110720 - OUTLET CR NR GLENWOOD,WASH

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAR , 1980											
29...	<4	20	10	10	.1	.1	.0	--	7	5	2
30...	<4	20	10	10	.0	.0	.0	--	4	4	0
APR											
09...	<4	20	10	10	.0	.0	.0	--	1	1	0
MAY											
19...	<4	50	30	20	.4	.4	.0	--	3	1	2
29...	<4	20	0	20	2.1	1.6	.5	<10	5	1	4
JUN											
10...	<4	50	20	26	.2	.1	.1	<10	0	0	5

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980											
29...	0	0	0	0	0	0	--	--	10	6	4
30...	0	0	0	0	0	0	--	--	40	40	<3
APR											
09...	0	0	0	0	0	0	--	--	10	7	<3
MAY											
19...	0	0	0	0	0	0	--	--	60	60	5
29...	0	0	0	0	0	0	41	<6.0	20	20	4
JUN											
10...	0	0	0	0	0	0	46	<6.0	20	--	<3

14111500 - KLICKITAT R BLW GLENWOOD

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR , 1980												
29...	1330	64	7.2	6.4	3.0	12.2	26	9.9	5.8	2.9	3.3	1.2
30...	1530	61	7.1	6.9	3.1	12.2	26	4.9	5.8	2.8	3.4	1.2
APR												
09...	1515	62	6.8	7.4	11	--	23	4.9	5.3	2.5	3.1	1.1
MAY												
19...	1330	85	7.1	9.9	130	10.2	27	.0	7.0	2.5	4.6	1.5
29...	1330	65	7.8	10.5	1.9	--	23	9.9	5.6	2.3	3.3	1.3
JUN												
10...	1015	63	7.9	9.7	2.2	11.4	23	--	5.3	2.4	3.3	1.1

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR , 1980											
29...	28	2.8	.9	.8	.0	30	67	61	.09	.03	.02
30...	29	3.6	.8	.6	.0	30	63	62	.08	.04	.02
APR											
09...	27	6.8	2.5	1.2	.1	28	64	60	.08	.09	.04
MAY											
19...	24	3.0	9.2	4.2	.1	23	65	66	.08	.05	.08
29...	25	.6	1.6	1.6	.1	26	60	56	.08	.02	.03
JUN											
10...	27	.5	4.6	1.3	.0	24	53	58	.07	.00	.01

14111500 - KLICKITAT R BLW GLENWOOD

WATER QUALITY DATA

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
MAR , 1980											
29...	.000	.000	.40	.38	.40	.02	.38	.43	.40	.040	.040
30...	.000	.000	.46	.33	.46	.13	.33	.50	.35	.040	.020
APR											
09...	.020	.000	.51	.65	.53	.00	.65	.62	.69	.080	.050
MAY											
19...	.080	.100	1.1	.20	1.2	.90	.30	1.2	.38	.110	.030
29...	.010	.010	.24	.25	.25	.00	.26	.27	.29	.030	.020
JUN											
10...	.000	.000	.31	.18	.31	.13	.18	.31	.19	.030	.020

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAR , 1980												
29...	380	300	80	--	--	--	1	0	1	0	0	10
30...	190	110	80	--	--	--	1	0	1	0	0	10
APR												
09...	1900	1800	100	--	--	--	0	0	1	100	90	10
MAY												
19...	660	610	50	--	--	--	2	0	2	0	0	10
29...	510	470	40	0	0	0	1	0	1	0	0	10
JUN												
10...	230	180	50	0	0	0	1	0	1	0	0	10

14111500 - KLICKITAT R BLW GLENWOOD

WATER QUALITY DATA

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
MAR , 1980												
29...	--	80	70	8	0	0	3	20	20	0	1	0
30...	--	50	40	6	0	0	<1	20	20	0	1	0
APR												
09...	--	140	130	10	0	0	<1	0	0	0	5	2
MAY												
19...	--	20	0	20	1	0	4	0	0	0	0	--
29...	<1	10	0	20	0	--	<1	0	0	0	0	--
JUN												
10...	<1	30	10	20	1	--	<1	0	0	0	0	--

DATE	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)
MAR , 1980												
29...	<3	8	6	2	290	180	110	15	15	0	0	0
30...	<3	6	4	2	250	130	120	5	5	0	0	--
APR												
09...	<3	5	3	2	1900	1800	130	6	2	4	0	0
MAY												
19...	<3	33	29	4	3400	3400	50	12	12	0	0	--
29...	<3	12	--	<10	340	300	39	76	--	<10	0	--
JUN												
10...	<3	3	--	<10	280	240	38	5	5	0	0	--

14111500 - KLICKITAT R BLW GLENWOOD

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAR , 1980											
29...	<4	10	7	3	.0	.0	.0	--	14	12	2
30...	--	0	0	4	.0	.0	.0	--	4	4	0
APR											
09...	<4	40	40	5	.0	.0	.1	--	2	2	0
MAY											
19...	<4	60	40	20	.7	.6	.1	--	7	4	3
29...	<4	0	0	2	.3	.0	.3	<10	6	1	5
JUN											
10...	<4	10	8	2	.2	.0	.5	<10	0	0	1

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980											
29...	0	0	0	0	0	0	--	--	10	4	6
30...	0	0	0	0	0	0	--	--	40	40	4
APR											
09...	0	0	0	0	0	0	--	--	70	70	<3
MAY											
19...	0	0	0	0	0	0	--	--	40	--	<3
29...	0	0	0	0	0	0	32	<6.0	40	40	5
JUN											
10...	0	0	0	0	0	0	31	<6.0	10	--	<3

14113000 - KLICKITAT RIVER NEAR PITT, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
MAR , 1980											
29...	1600	73	7.1	7.8	4.1	12.4	--	--	27	4.9	6.2
30...	1330	70	6.6	7.0	4.1	13.0	--	--	28	9.9	6.1
31...	1600	70	6.8	7.0	3.2	12.6	--	--	28	4.9	6.4
APR											
07...	1440	65	7.6	7.3	3.9	12.4	3	2	27	.0	6.1
MAY											
13...	1615	56	7.4	12.8	4.0	10.5	3	3	19	4.9	4.5
18...	2015	58	7.6	11.8	3.5	10.0	--	--	21	.0	5.0
19...	1700	90	7.6	12.0	170	9.4	--	--	33	.0	8.1
20...	1800	77	7.6	12.2	22	9.7	--	--	28	.0	6.7
29...	0945	75	7.8	9.8	2.6	--	--	--	24	9.9	6.0
JUN											
03...	1600	66	8.0	12.5	1.7	10.0	--	--	24	9.9	5.7
09...	1630	67	8.1	15.2	1.5	9.4	3	3	25	--	5.8
17...	0945	67	7.6	12.8	70	10.0	--	--	24	--	5.7
23...	1700	65	7.9	15.6	10	10.2	--	--	23	--	5.6
JUL											
17...	1500	73	7.7	14.2	11	10.2	3	1	25	4.9	6.0
AUG											
13...	1715	76	7.7	18.6	15	9.3	40	32	28	4.9	6.1
SEP											
17...	0945	94	7.9	12.3	7.6	9.9	18	35	29	.0	6.7

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)
MAR , 1980										
29...	2.9	3.6	1.3	30	3.7	1.3	1.0	.1	30	71
30...	3.1	3.5	1.2	30	11	2.7	1.0	.1	30	74
31...	3.1	3.6	1.3	30	7.5	1.4	.9	.1	31	78
APR										
07...	2.9	3.6	1.1	30	1.1	2.5	1.1	.1	29	72
MAY										
13...	2.0	2.6	1.0	21	1.3	.9	.7	.1	22	47
18...	2.3	3.0	1.0	22	.8	1.1	1.0	.1	24	51
19...	3.1	5.4	1.6	26	1.0	11	5.3	.1	25	71
20...	2.8	4.1	1.3	27	1.0	6.7	2.6	.1	25	60
29...	2.3	3.7	1.3	27	.6	6.1	1.6	.1	27	62
JUN										
03...	2.4	3.5	1.3	33	.5	1.6	.3	.1	25	76
09...	2.6	3.5	1.4	23	.2	6.5	1.3	.1	25	55
17...	2.6	3.4	1.3	25	.9	3.0	1.8	.1	24	69
23...	2.4	3.4	1.5	31	.6	2.0	1.5	.1	26	60
JUL										
17...	2.5	4.0	1.6	43	1.3	1.1	.7	.2	27	66
AUG										
13...	3.1	3.9	1.5	31	.9	7.3	.8	.1	29	66
SEP										
17...	3.2	4.3	1.7	34	.6	.7	2.2	.1	30	110

14113000 - KLICKITAT RIVER NEAR PITT, WASH.

WATER QUALITY DATA

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
MAR , 1980										
29...	64	.09	.20	.20	.100	.040	.44	.29	.54	.21
30...	65	.10	.60	.18	.060	.020	.33	.30	.39	.07
31...	66	.10	.20	.17	.000	.000	.25	.30	.25	.00
APR										
07...	64	.09	.11	.08	.020	.000	.55	.59	.57	.00
MAY										
13...	46	.06	.03	--	.010	.000	.27	--	.28	--
18...	51	.06	.02	.02	.080	.120	2.8	1.9	2.9	.80
19...	75	.09	.06	.06	.080	.080	3.3	2.9	3.4	.40
20...	65	.08	.03	.03	.080	.100	2.0	1.8	2.1	.20
29...	64	.08	.02	.05	.010	.000	.23	.27	.24	.00
JUN										
03...	59	.10	.01	--	.000	--	.23	--	.23	.10
09...	60	.07	.00	.01	.000	.000	.61	.14	.61	.47
17...	57	.09	.04	.07	.150	.040	.49	--	.64	--
23...	61	.08	.01	.00	.000	.010	1.0	.26	1.0	.73
JUL										
17...	69	.09	.07	.00	.010	.030	.75	.32	.76	.41
AUG										
13...	70	.09	.00	.00	.070	.030	.17	.19	.24	.02
SEP										
17...	69	.15	.00	.00	.000	.000	.33	.37	.33	.00

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE TOTAL (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
MAR , 1980										
29...	.33	.74	.53	.060	.040	--	--	--	--	--
30...	.32	1.1	.50	.060	.040	--	--	--	--	--
31...	.30	.45	.47	.050	.030	--	--	--	--	--
APR										
07...	.59	.68	.67	.040	.050	--	--	--	1.9	.1
MAY										
13...	--	.31	--	.040	.030	--	--	--	--	--
18...	2.1	2.9	2.1	.040	.030	--	--	--	--	--
19...	3.0	3.4	3.1	.250	.030	--	--	--	--	--
20...	1.9	2.1	1.9	.080	.040	--	--	--	--	--
29...	.27	.26	.32	.030	.020	--	--	--	--	--
JUN										
03...	.13	.24	--	.040	.030	--	--	--	--	--
09...	.14	.61	.15	.080	.020	--	--	3.0	--	--
17...	--	.68	--	.040	.020	--	--	--	--	--
23...	.27	1.0	.27	.060	.040	--	--	--	--	--
JUL										
17...	.35	.83	.35	.090	.050	--	--	--	1.3	--
AUG										
13...	.22	.24	.22	.060	.030	.020	.010	1.3	--	--
SEP										
17...	.37	.33	.37	.060	.040	.020	.020	3.5	--	--

14113000 - KLICKITAT RIVER NEAR PITT, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAR , 1980												
29...	480	360	120	--	--	--	1	0	1	200	200	10
30...	650	530	120	--	--	--	1	0	1	0	0	10
31...	360	240	120	--	--	--	1	0	1	100	90	10
APR												
07...	410	340	70	--	--	--	0	0	1	100	90	9
MAY												
13...	620	580	40	--	--	--	1	0	1	--	--	9
18...	500	460	40	--	--	--	1	0	1	0	0	20
19...	3100	3000	70	--	--	--	2	0	2	0	0	10
20...	820	780	40	--	--	--	1	0	1	0	0	10
29...	640	610	30	0	0	0	1	0	1	0	0	20
JUN												
03...	360	320	40	0	0	0	1	0	2	0	0	10
09...	220	150	70	0	0	0	1	0	1	0	0	10
17...	270	250	20	--	--	--	1	0	2	0	0	10
23...	440	400	40	--	--	--	1	0	1	0	0	20
JUL												
17...	310	280	30	--	--	--	2	0	2	0	0	10
AUG												
13...	700	670	30	--	--	--	1	0	1	0	0	10
SEP												
17...	250	220	30	--	--	--	0	0	1	0	0	10

14113000 - KLICKITAT RIVER NEAR PITT, WASH.

WATER QUALITY DATA

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
MAR , 1980												
29...	--	50	50	4	0	0	<1	0	0	0	2	0
30...	--	100	90	8	0	0	<1	0	0	0	2	0
31...	--	60	60	2	0	0	<1	0	0	0	1	0
APR												
07...	--	90	0	90	0	0	<1	0	0	0	3	0
MAY												
13...	--	60	50	10	0	--	<1	0	0	0	0	--
18...	--	9	0	20	0	0	1	0	0	0	0	--
19...	--	10	0	20	1	--	<1	0	0	0	1	--
20...	--	20	10	10	1	--	<1	0	0	0	0	--
29...	<1	20	0	20	0	--	<1	0	0	0	0	--
JUN												
03...	<1	30	0	30	0	--	<1	0	0	0	0	--
09...	<1	50	40	6	0	--	<1	0	0	0	0	--
17...	<1	20	0	40	1	0	1	0	0	0	0	--
23...	<1	20	10	9	1	0	1	0	0	0	0	--
JUL												
17...	--	20	0	20	0	--	<1	0	0	0	0	--
AUG												
13...	--	120	10	110	0	--	<1	10	10	0	1	--
SEP												
17...	<1	20	0	20	1	--	<1	10	10	0	0	--

14113000 - KLICKITAT RIVER NEAR PITT, WASH.

WATER QUALITY DATA

DATE	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)
MAR , 1980												
29...	<3	8	6	2	580	440	140	12	12	0	0	0
30...	<3	9	7	2	720	590	130	10	10	0	0	0
31...	<3	5	2	3	320	180	140	4	4	0	0	0
APR												
07...	<3	2	1	1	540	430	110	4	4	0	0	0
MAY												
13...	<3	4	1	3	850	790	60	4	4	0	0	--
18...	<3	7	3	4	680	600	80	3	3	0	0	0
19...	<3	21	18	3	4200	4100	70	3	3	0	0	0
20...	<3	11	8	3	1100	1000	60	5	4	1	0	0
29...	<3	5	--	<10	500	450	47	9	--	<10	0	--
JUN												
03...	<3	4	--	<10	350	300	51	5	--	<10	0	--
09...	<3	4	--	<10	450	410	41	2	2	0	0	--
17...	<3	4	--	<10	480	440	43	1	0	10	0	--
23...	<3	8	--	<10	510	460	55	3	0	<10	0	0
JUL												
17...	<3	20	18	2	20	0	30	7	7	0	10	--
AUG												
13...	<3	18	15	3	950	880	70	2	0	4	0	0
SEP												
17...	<3	10	--	<10	820	780	43	3	--	<10	10	5

14113000 - KLICKITAT RIVER NEAR PITT, WASH.

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAR , 1980											
29...	<4	20	20	5	.0	.0	.0	--	7	7	0
30...	<4	30	20	7	.0	.0	.0	--	5	3	2
31...	<4	20	10	6	.0	.0	.0	--	3	2	1
APR											
07...	<4	10	6	4	.2	.2	.0	--	2	2	0
MAY											
13...	<4	20	20	3	.8	.4	.4	--	2	0	3
18...	5	40	20	20	.1	.0	.7	--	5	3	2
19...	8	90	80	10	.1	.1	.0	--	6	5	1
20...	8	30	20	7	.1	.0	.1	--	4	4	0
29...	<4	0	0	3	.4	.0	.5	<10	5	1	4
JUN											
03...	<4	10	7	3	.1	.0	.1	<10	5	5	0
09...	<4	10	6	4	2.4	1.1	1.3	<10	3	2	1
17...	<4	0	0	4	.0	.0	.1	<10	2	0	2
23...	5	40	40	4	.0	.0	.0	<10	6	6	0
JUL											
17...	<4	20	0	20	.1	.0	.3	--	4	1	3
AUG											
13...	6	20	20	4	.4	.0	.5	--	2	2	0
SEP											
17...	5	20	1	19	.1	.0	.1	<10	7	7	0

14113000 - KLICKITAT RIVER NEAR PITT, WASH.

WATER QUALITY DATA

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
MAR , 1980											
29...	0	0	0	0	0	0	--	--	30	30	<3
30...	0	0	0	0	0	0	--	--	30	30	<3
31...	0	0	0	0	0	0	--	--	20	20	5
APR											
07...	0	0	0	0	0	0	--	--	20	20	<3
MAY											
13...	0	0	0	0	0	0	--	--	10	5	5
18...	0	0	0	0	0	0	--	--	90	90	4
19...	0	0	0	0	0	0	--	--	100	--	<3
20...	0	0	0	0	0	0	--	--	20	--	<3
29...	0	0	0	0	0	0	35	<6.0	20	--	<3
JUN											
03...	0	0	0	0	0	0	34	<6.0	20	--	<3
09...	0	0	0	0	0	0	34	<6.0	20	--	<3
17...	0	0	0	0	0	0	35	8.0	30	--	<3
23...	0	0	0	0	0	0	34	<6.0	50	--	<3
JUL											
17...	0	0	0	0	0	0	--	--	0	0	10
AUG											
13...	0	0	0	0	0	0	--	--	30	--	<3
SEP											
17...	0	0	0	0	0	0	40	<6.0	30	20	7

14123500 - WHITE SALMON R NR UNDERWOOD, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR , 1980												
28...	1730	52	6.8	6.8	1.8	12.3	--	21	4.9	5.0	2.2	3.2
29...	1750	52	6.3	6.8	1.5	10.3	--	21	4.9	4.9	2.3	3.1
30...	0900	56	6.3	6.3	1.7	12.0	--	23	4.9	5.5	2.4	3.2
31...	1045	53	6.7	6.6	1.4	12.4	--	21	4.9	5.1	2.2	3.2
APR												
08...	0945	53	7.0	6.8	1.2	12.2	11	20	4.9	4.9	2.1	3.3
MAY												
14...	1000	53	7.3	9.7	1.2	11.3	21	18	.0	4.3	1.9	2.9
19...	0900	60	7.9	9.9	3.0	10.2	--	20	.0	4.7	2.2	3.0
20...	1130	53	7.4	9.4	--	10.4	--	--	--	--	--	--
29...	1845	61	7.8	9.6	.90	11.6	--	21	9.9	4.9	2.2	3.2
JUN												
11...	1015	54	7.5	9.7	.70	11.0	39	21	--	4.7	2.3	3.2

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR , 1980												
28...	1.2	23	5.7	.9	.8	.0	28	60	55	.08	.18	.14
29...	1.2	22	17	1.2	.8	.0	28	58	54	.07	.14	.16
30...	1.3	25	19	1.2	1.1	.0	28	65	57	.08	.14	.16
31...	1.2	21	6.6	1.0	.8	.0	28	59	54	.08	.45	.18
APR												
08...	1.1	22	3.4	1.6	1.0	.1	27	55	54	.07	.13	.11
MAY												
14...	1.0	20	1.5	.5	.8	.1	24	52	47	.07	.09	--
19...	1.1	23	.4	2.2	.4	.1	25	52	52	.07	.09	.08
20...	--	--	--	--	--	--	--	--	--	--	--	--
29...	1.2	25	.6	.7	.6	.1	27	57	55	.07	.09	.08
JUN												
11...	1.2	24	1.2	2.4	.5	.1	25	58	53	.07	.08	.10

14123500 - WHITE SALMON R NR UNDERWOOD, WASH.

WATER QUALITY DATA

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)
MAR , 1980												
28...	.040	.000	.31	.25	.35	.10	.25	.53	.39	.040	.050	--
29...	.000	.000	.49	.40	.49	.09	.40	.63	.56	.050	.030	--
30...	.000	.020	.29	.24	.29	.03	.26	.43	.42	.040	.040	--
31...	.000	.000	.16	.18	.16	.00	.18	.61	.36	.040	.040	--
APR												
08...	.020	.000	.40	.33	.42	.09	.33	.55	.44	.040	.040	.030
MAY												
14...	.000	.000	.43	.24	.43	.19	.24	.52	--	.030	.020	.030
19...	.080	.100	2.2	2.2	2.3	.00	2.3	2.3	2.4	.040	.040	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
29...	.010	.040	.24	.16	.25	.05	.20	.34	.28	.030	.030	--
JUN												
11...	.000	.020	.87	.33	.87	.52	.35	.95	.45	.030	.030	--

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAR , 1980												
28...	150	110	40	--	--	--	1	0	1	100	90	10
29...	140	100	40	--	--	--	1	0	1	0	0	9
30...	140	100	40	--	--	--	1	0	1	100	90	10
31...	160	120	40	--	--	--	0	0	0	0	0	8
APR												
08...	130	110	20	--	--	--	0	0	1	0	0	8
MAY												
14...	280	250	30	--	--	--	1	0	1	0	0	10
19...	200	170	30	--	--	--	1	0	1	0	0	10
29...	150	140	10	0	0	0	6	5	1	0	0	10
JUN												
11...	70	50	20	0	0	0	1	0	1	0	0	10

14123500 - WHITE SALMON R NR UNDERWOOD, WASH.

WATER QUALITY DATA

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
MAR , 1980												
28...	--	40	40	0	0	0	<1	20	20	0	1	0
29...	--	20	20	4	0	0	<1	0	0	0	1	0
30...	--	40	40	0	0	0	<1	0	0	0	1	0
31...	--	90	90	0	0	0	<1	0	0	0	2	0
APR												
08...	--	50	40	9	0	0	<1	0	0	0	3	0
MAY												
14...	--	50	40	7	0	0	1	0	0	0	0	--
19...	--	2	0	6	1	--	<1	0	0	0	0	--
29...	<1	30	10	20	0	--	<1	0	0	0	0	--
JUN												
11...	<1	30	10	20	0	--	<1	0	0	0	0	--

DATE	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)
MAR , 1980												
28...	<3	5	1	4	200	100	100	5	5	0	10	6
29...	<3	3	0	3	210	110	100	0	0	0	0	0
30...	<3	5	2	3	180	60	120	4	4	0	0	0
31...	<3	9	6	3	180	80	100	30	30	0	0	0
APR												
08...	<3	2	2	0	160	80	80	3	3	0	0	0
MAY												
14...	<3	9	7	2	290	220	70	5	5	0	0	--
19...	<3	5	3	2	260	170	90	5	5	0	0	--
29...	<3	14	--	<10	150	80	74	27	--	<10	0	--
JUN												
11...	<3	3	--	<10	190	110	85	5	5	0	0	--

14123500 - WHITE SALMON R NR UNDERWOOD, WASH.

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAR , 1980											
28...	<4	10	1	9	.0	.0	.0	--	2	1	1
29...	<4	10	2	8	.0	.0	.0	--	2	0	2
30...	<4	10	1	9	.0	.0	.0	--	2	0	2
31...	<4	10	2	8	.0	.0	.0	--	10	8	2
APR											
08...	<4	0	0	7	.0	.0	.0	--	1	1	0
MAY											
14...	<4	10	2	8	.7	.3	.4	--	3	0	3
19...	<4	0	0	10	.7	.6	.1	--	5	3	2
29...	<4	10	1	9	.2	.0	.3	<10	5	0	17
JUN											
11...	<4	10	1	9	.2	.0	.4	<10	0	0	0

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980											
28...	0	0	0	0	0	0	--	--	10	7	<3
29...	0	0	0	0	0	0	--	--	10	7	<3
30...	0	0	0	0	0	0	--	--	10	0	10
31...	0	0	0	0	0	0	--	--	30	20	6
APR											
08...	0	0	0	0	0	0	--	--	0	0	<3
MAY											
14...	0	0	0	0	0	0	--	--	20	--	<3
19...	0	0	0	0	0	0	--	--	20	10	6
29...	0	0	0	0	0	0	22	<6.0	30	10	18
JUN											
11...	0	0	0	0	0	0	22	<6.0	10	--	<3

14128500 - WIND RIVER NEAR CARSON, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR , 1980												
28...	1515	38	6.9	6.4	1.1	13.1	--	13	4.9	3.9	.9	2.6
30...	1045	35	5.9	5.0	1.4	13.6	--	13	4.9	4.0	.9	2.8
31...	1315	35	6.2	6.1	.80	13.3	--	12	4.9	3.9	.7	2.6
APR												
08...	1430	35	6.6	6.7	1.5	13.9	<1	13	4.9	3.9	.8	2.6
MAY												
14...	1500	45	7.2	9.9	.50	11.5	3	14	.0	4.1	1.0	2.9
20...	0915	44	7.3	9.9	1.8	11.1	--	15	.0	4.5	1.1	3.3
30...	1030	50	7.8	9.0	.70	--	--	16	9.9	4.8	1.1	3.3
JUN												
04...	1730	46	7.5	11.2	.90	11.3	--	16	4.9	4.6	1.2	3.1
10...	1715	49	7.6	13.2	.50	10.7	1	16	--	4.6	1.3	3.4
17...	1430	47	7.4	13.1	1.1	10.5	--	16	--	4.6	1.2	3.4
24...	1045	53	7.8	11.2	.90	11.2	--	17	--	4.8	1.3	3.6
JUL												
16...	1030	41	7.9	14.4	.50	10.4	--	17	--	5.2	1.2	4.3
AUG												
14...	1040	64	7.4	14.0	1.5	10.5	--	19	.0	5.5	1.5	4.7
SEP												
16...	0900	57	7.8	12.0	.10	10.8	--	20	.0	5.6	1.5	4.8

14128500 - WIND RIVER NEAR CARSON, WASH.

WATER QUALITY DATA

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR , 1980												
28...	.3	16	3.2	.8	1.2	.0	16	45	35	.06	.02	.02
30...	.3	13	26	1.0	1.2	.0	16	45	34	.06	.02	.02
31...	.3	16	16	1.2	1.2	.0	16	39	35	.05	.37	.02
APR												
08...	.3	14	5.5	1.4	1.3	.0	15	38	33	.05	.02	.01
MAY												
14...	.4	16	1.6	1.9	1.9	.1	16	36	37	.04	.03	--
20...	.4	20	1.5	.7	1.7	.1	17	39	41	.05	.04	.02
30...	.4	21	.5	1.3	2.0	.1	17	42	42	.05	.01	.01
JUN												
04...	.4	25	1.2	2.2	2.1	.1	17	40	45	.05	.02	.02
10...	.4	16	.6	1.3	2.2	.0	17	30	39	.04	.00	.01
17...	.4	18	1.1	.4	1.8	.1	17	46	39	.06	.00	.03
24...	.4	24	.6	.6	5.3	.1	18	45	48	.06	.02	.00
JUL												
16...	.6	18	.3	1.0	3.2	.1	19	69	45	.09	.07	.01
AUG												
14...	.6	25	1.5	2.6	3.7	.1	21	55	54	.07	.00	.00
SEP												
16...	.7	25	.6	.9	4.1	.1	20	53	52	.07	.00	.00

14128500 - WIND RIVER NEAR CARSON, WASH.

WATER QUALITY DATA

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)
MAR , 1980												
28...	.000	.020	.35	.36	.35	.00	.38	.37	.40	.030	.020	--
30...	.000	.000	.23	.21	.23	.02	.21	.25	.23	.030	.020	--
31...	.000	.000	.22	.26	.22	.00	.26	.59	.28	.030	.040	--
APR												
08...	.000	.000	.35	.34	.35	.01	.34	.37	.35	.050	.030	--
MAY												
14...	.000	.000	.18	.32	.18	.00	.32	.21	--	.020	.010	.010
20...	.080	.100	1.7	1.3	1.8	.40	1.4	1.8	1.4	.030	.020	--
30...	.010	.040	.30	.25	.31	.02	.29	.32	.30	.020	.010	--
JUN												
04...	.000	.000	.19	.21	.19	.00	.21	.21	.23	.030	.020	--
10...	.000	.000	.64	.19	.64	.45	.19	.64	.20	.030	.020	.010
17...	.100	.040	.25	.27	.35	.04	.31	.35	.34	.020	.020	--
24...	.000	.000	1.9	.23	1.9	1.7	.23	1.9	.23	.030	.040	--
JUL												
16...	.030	.030	.36	.34	.39	.02	.37	.46	.38	.070	.030	--
AUG												
14...	.070	.030	.18	.23	.25	.00	.26	.25	.26	.030	.020	--
SEP												
16...	.000	.020	.69	.47	.69	.20	.49	.69	.49	.030	.030	--

14128500 - WIND RIVER NEAR CARSON, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAR , 1980												
28...	150	120	30	--	--	--	1	0	1	0	0	7
30...	180	160	20	--	--	--	1	1	0	100	90	8
31...	200	180	20	--	--	--	1	1	0	200	200	4
APR												
08...	160	140	20	--	--	--	0	0	1	0	0	6
MAY												
14...	200	170	30	--	--	--	1	0	1	0	0	8
20...	160	140	20	--	--	--	1	0	2	0	0	20
30...	180	180	0	0	0	0	2	0	2	0	0	20
JUN												
04...	120	90	30	0	0	0	1	0	1	0	0	10
10...	90	40	50	0	0	0	1	0	1	0	0	8
17...	120	110	10	--	--	--	1	0	2	0	0	7
24...	100	50	50	--	--	--	2	1	1	0	0	8
JUL												
16...	150	120	30	--	--	--	2	0	2	0	0	10
AUG												
14...	140	140	0	--	--	--	2	1	1	100	90	10
SEP												
16...	70	50	20	--	--	--	1	0	1	0	0	9

14128500 - WIND RIVER NEAR CARSON, WASH.

WATER QUALITY DATA

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
MAR , 1980												
28...	--	50	40	10	0	0	<1	0	0	0	6	3
30...	--	30	20	10	0	0	<1	0	0	0	1	0
31...	--	50	40	10	0	0	<1	20	20	0	1	0
APR												
08...	--	120	110	6	0	0	<1	0	0	0	3	0
MAY												
14...	--	50	30	20	0	--	<1	0	0	0	0	--
20...	--	710	680	30	0	--	<1	0	0	0	0	--
30...	<1	30	0	30	0	--	<1	0	0	0	0	--
JUN												
04...	<1	40	20	20	0	--	<1	0	0	0	0	--
10...	<1	60	30	30	0	--	<1	0	0	0	0	--
17...	<1	40	0	50	0	--	<1	0	0	0	0	--
24...	<1	30	0	30	0	--	<1	0	0	0	0	--
JUL												
16...	<1	60	10	50	0	--	<1	10	0	10	0	--
AUG												
14...	<1	140	10	130	0	--	<1	10	0	10	1	--
SEP												
16...	<1	80	30	50	0	--	<1	0	0	0	0	--

14128500 - WIND RIVER NEAR CARSON, WASH.

WATER QUALITY DATA

DATE	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)
MAR , 1980												
28...	<3	3	0	4	140	120	20	2	2	0	0	0
30...	<3	2	0	3	110	90	20	0	0	0	0	0
31...	<3	8	6	2	160	140	20	12	12	0	0	0
APR												
08...	<3	3	2	1	110	90	20	4	4	0	0	0
MAY												
14...	<3	5	3	2	210	200	10	3	3	0	0	--
20...	<3	5	4	1	160	150	10	10	10	0	0	0
30...	<3	32	2	30	80	70	12	24	--	<10	0	--
JUN												
04...	<3	5	--	<10	90	70	16	5	--	<10	0	--
10...	<3	4	--	<10	110	100	10	8	--	<10	0	--
17...	<3	3	--	<10	100	90	11	2	2	0	0	--
24...	<3	4	--	<10	120	110	12	0	0	<10	0	0
JUL												
16...	<3	7	--	<10	20	--	<10	7	0	<10	10	--
AUG												
14...	<3	4	--	<10	90	--	<10	0	0	--	0	--
SEP												
16...	<3	4	--	<10	70	50	17	2	--	<10	10	5

14128500 - WIND RIVER NEAR CARSON, WASH.

WATER QUALITY DATA

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAR . 1980											
28...	<4	20	20	2	.0	.0	.0	--	1	1	0
30...	20	20	20	3	.0	.0	.0	--	0	0	2
31...	<4	10	8	2	.1	.1	.0	--	4	3	1
APR											
08...	<4	0	0	3	.0	.0	.0	--	2	2	0
MAY											
14...	<4	0	0	2	.5	.1	.4	--	3	0	3
20...	5	10	9	1	.3	.3	.0	--	7	6	1
30...	<4	0	0	2	.2	.0	.4	<10	3	1	2
JUN											
04...	<4	10	8	2	.1	.1	.0	<10	5	4	1
10...	<4	10	8	2	.1	.0	.2	<10	0	0	4
17...	<4	0	0	1	.0	.0	.1	<10	12	8	4
24...	5	30	20	9	.0	.0	.1	<10	0	0	4
JUL											
16...	<4	10	8	2	1.6	.1	1.5	<10	19	16	3
AUG											
14...	<4	0	0	2	.4	.0	.4	<10	3	3	0
SEP											
16...	5	30	30	3	.2	.0	.2	<10	4	4	0

14128500 - WIND RIVER NEAR CARSON, WASH.

WATER QUALITY DATA

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
MAR , 1980											
28...	0	0	0	0	0	0	--	--	10	6	4
30...	0	0	0	0	0	0	--	--	10	7	3
31...	0	0	0	0	0	0	--	--	20	20	<3
APR											
08...	0	0	0	0	0	0	--	--	40	30	6
MAY											
14...	0	0	0	0	0	0	--	--	20	--	<3
20...	0	0	0	0	0	0	--	--	20	--	<3
30...	0	0	0	0	0	0	16	<6.0	20	10	10
JUN											
04...	0	0	0	0	0	0	17	<6.0	40	--	<3
10...	0	0	0	0	0	0	16	<6.0	30	--	<3
17...	0	0	0	0	0	0	16	<6.0	50	--	<3
24...	0	0	0	0	0	0	17	<6.0	40	--	<3
JUL											
16...	0	0	0	0	0	0	17	<6.0	10	6	4
AUG											
14...	0	0	0	0	0	0	20	<6.0	20	--	<3
SEP											
16...	0	0	0	0	0	0	19	<6.0	20	20	5

14216100 - MUDDY RIVER ABOVE SMITH CREEK NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR , 1980												
29...	1615	77	7.5	4.4	2.6	11.8	19	4.9	4.4	2.0	7.7	.9
30...	1140	82	7.3	4.5	1.7	11.9	18	4.9	4.3	1.8	7.8	.9
APR												
18...	1030	79	7.7	5.8	--	11.8	--	--	--	--	--	--
MAY												
07...	1100	71	7.2	6.4	--	11.1	--	--	--	--	--	--
JUL												
29...	0835	81	7.0	6.4	66	10.7	19	.0	4.6	2.0	8.4	1.2

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
MAR , 1980												
29...	24	1.2	2.5	5.4	.4	27	66	64	.09	.03	.02	.010
30...	24	1.9	3.2	4.5	.4	28	66	65	.09	.02	.02	.010
APR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
29...	31	4.9	6.6	2.6	.5	28	66	72	.09	.04	.06	.010

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
MAR , 1980												
29...	.010	.20	.21	.21	.00	.22	.24	.24	.060	.060	--	--
30...	.010	.38	.11	.39	.27	.12	.41	.14	.060	.070	--	--
APR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
29...	.000	.40	.38	.41	.03	.38	.45	.44	.330	.060	7.0	.4

14216100 - MUDDY RIVER ABOVE SMITH CREEK NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOV. (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)
MAR , 1980										
29...	440	430	10	4	1	3	100	90	10	--
30...	360	340	20	3	0	4	100	90	10	--
JUL										
29...	6400	6400	10	4	1	3	100	90	10	<1

DATE	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)
MAR , 1980									
29...	80	30	50	0	0	<1	20	20	0
30...	100	50	50	0	0	<1	20	20	0
JUL									
29...	110	50	60	0	--	<1	10	0	10

DATE	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
MAR , 1980									
29...	1	0	<3	2	0	2	140	130	<10
30...	1	0	<3	3	0	3	90	80	<10
JUL									
29...	6	--	<3	35	--	<10	6800	--	<10

14216100 - MUDDY RIVER ABOVE SMITH CREEK NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR , 1980									
29...	0	0	0	20	0	20	10	6	4
30...	3	3	0	20	0	20	20	10	6
JUL									
29...	6	0	<10	20	0	24	130	120	12

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)
MAR , 1980									
29...	.0	.0	.0	--	0	0	2	0	0
30...	.0	.0	.0	--	0	0	2	0	0
JUL									
29...	.0	.0	.0	<10	15	14	1	0	0

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980									
29...	0	0	0	0	--	--	10	0	10
30...	0	0	0	0	--	--	10	3	7
JUL									
29...	0	0	0	0	21	20	70	60	7

14216200 - SMITH CREEK AT MOUTH NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR , 1980												
29...	1500	69	7.0	5.0	16	12.0	22	4.9	6.9	1.2	3.8	.5
30...	1045	70	7.5	4.5	2.8	12.0	21	4.9	6.7	1.1	3.8	.5
APR												
18...	1115	37	7.4	8.0	--	11.9	--	--	--	--	--	--
MAY												
07...	1015	37	7.7	5.6	--	11.2	--	--	--	--	--	--
JUL												
29...	0920	731	7.5	13.8	1400	8.8	204	19	60	13	76	8.0

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR , 1980											
29...	17	2.7	5.0	5.3	.1	14	50	47	.06	.04	.04
30...	20	1.0	1.7	4.2	.0	15	53	45	.07	.06	.04
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
29...	200	10	67	61	.3	28	591	443	.80	.00	.02

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
MAR , 1980											
29...	.010	.010	1.0	.46	1.1	.63	.47	1.1	.51	.070	.020
30...	.030	.030	.34	.27	.37	.07	.30	.43	.34	.030	.010
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
29...	.040	.010	2.1	1.2	2.2	.90	1.3	2.2	1.3	2.500	.020

14216200 - SMITH CREEK AT MOUTH NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)
MAR , 1980										
29...	1900	1900	20	2	0	2	0	0	20	--
30...	400	380	20	2	0	2	0	0	10	--
JUL										
29...	11000	11000	30	8	4	4	0	0	50	<1

DATE	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)
MAR , 1980									
29...	100	50	50	0	0	<1	0	0	0
30...	100	50	50	0	0	<1	0	0	0
JUL									
29...	330	0	470	0	0	1	20	20	0

DATE	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
MAR , 1980									
29...	1	0	<3	6	4	2	1300	1000	290
30...	1	0	<3	3	0	3	550	180	370
JUL									
29...	22	--	<3	150	--	<10	43000	38000	5200

14216200 - SMITH CREEK AT MOUTH NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR , 1980									
29...	2	2	0	10	4	6	60	60	4
30...	0	0	0	10	4	6	40	0	40
JUL									
29...	12	0	<10	80	20	58	4700	900	3800

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)
MAR , 1980									
29...	.0	.0	.0	--	2	0	2	0	0
30...	.0	.0	.0	--	1	0	2	0	0
JUL									
29...	.1	.1	.0	<10	40	37	3	1	1

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980									
29...	0	0	0	0	--	--	20	20	3
30...	0	0	0	0	--	--	40	30	8
JUL									
29...	0	10	10	0	320	<6.0	130	--	<3

14216900 - PINE CREEK AT MOUTH NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR , 1980												
29...	1715	78	7.3	4.6	.70	12.5	16	4.9	3.8	1.6	7.3	1.2
30...	0930	79	7.3	4.7	2.1	11.9	15	4.9	3.9	1.5	7.7	1.2
APR												
18...	1315	44	7.8	11.0	--	11.8	--	--	--	--	--	--
MAY												
07...	1300	58	8.0	10.4	--	10.2	--	--	--	--	--	--
JUN												
06...	1505	113	7.7	9.2	320	11.0	24	9.9	5.8	2.3	14	3.1
JUL												
29...	1015	112	7.3	8.9	9.4	10.2	22	--	5.2	2.4	12	1.9

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
MAR , 1980												
29...	21	1.6	3.1	3.7	.2	28	67	61	.09	.02	.02	.010
30...	23	1.8	2.9	3.9	.2	29	68	64	.09	.03	.02	.010
APR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
06...	28	.8	8.3	11	.4	35	108	97	.14	.07	.02	.180
JUL												
29...	39	3.1	6.3	3.9	.5	40	95	95	.12	.02	.03	.000

14216900 - PINE CREEK AT MOUTH NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
MAR , 1980												
29...	.010	.42	.40	.43	.02	.41	.45	.43	.060	.060	--	--
30...	.010	.48	--	.49	--	--	.52	--	.070	.060	--	--
APR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
06...	.010	.14	.31	.32	.00	.32	.39	.34	1.400	.070	--	--
JUL												
29...	.000	.50	.49	.50	.01	.49	.52	.52	.170	.090	2.4	.4

14216900 - PINE CREEK AT MOUTH NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
MAR , 1980											
29...	140	120	20	--	--	--	2	0	2	100	90
30...	440	430	10	--	--	--	2	0	2	0	0
JUN											
06...	910	490	420	0	0	0	8	5	3	100	90
JUL											
29...	570	560	10	--	--	--	4	2	2	0	0

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
MAR , 1980										
29...	10	--	150	100	50	0	0	<1	0	0
30...	10	--	120	80	40	0	0	<1	20	20
JUN										
06...	8	<1	130	30	100	1	--	<1	0	0
JUL										
29...	8	<1	110	20	90	0	--	<1	10	0

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
MAR , 1980										
29...	0	1	0	<3	3	0	4	90	70	20
30...	0	1	0	<3	4	2	2	170	160	10
JUN										
06...	0	7	--	<3	75	--	<10	14000	14000	45
JUL										
29...	10	4	--	<3	17	--	<10	770	680	86

14216900 - PINE CREEK AT MOUTH NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR , 1980									
29...	2	2	0	10	0	20	10	7	3
30...	0	0	0	20	0	20	10	8	2
JUN									
06...	8	8	0	40	20	25	390	330	59
JUL									
29...	8	0	<10	30	0	31	60	20	44

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)
MAR , 1980									
29...	.1	.1	.0	--	1	0	3	0	0
30...	.0	.0	.0	--	0	0	2	0	0
JUN									
06...	.2	.2	.0	<10	28	28	0	0	0
JUL									
29...	.0	.0	.0	<10	10	7	3	0	0

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980									
29...	0	0	0	0	--	--	20	10	7
30...	0	0	0	0	--	--	10	6	4
JUN									
06...	0	0	0	0	38	11	140	--	<3
JUL									
29...	0	0	0	0	36	14	50	--	<3

14220200 - LEWIS R AT MERWIN DAM AT ARIEL, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)
APR , 1980										
23...	0945	39	7.4	6.6	11	3.4	.7	2.9	.5	15
MAY										
28...	0900	39	7.0	9.2	13	3.8	.9	2.8	.4	16
JUN										
24...	0840	40	7.4	10.0	13	4.0	.8	2.6	.4	17

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)
APR , 1980										
23...	.9	1.6	1.4	.00	.000	--	--	--	.020	.000
MAY										
28...	2.5	1.6	.5	.03	.110	--	--	--	.010	.010
JUN										
24...	1.0	2.7	1.3	.18	.040	.31	.35	.53	.030	.010

DATE	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
APR , 1980										
23...	1	5	<1	0	1	0	.1	0	0	<3
MAY										
28...	0	7	0	0	3	0	.1	0	0	20
JUN										
24...	1	5	<1	0	1	0	.1	0	0	6

14220500 - LEWIS RIVER AT ARIEL, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)
APR , 1980										
17...	1000	42	6.6	6.1	1.0	12.4	<1	<1	11	--
MAY										
19...	1700	37	7.3	9.4	1.0	11.5	--	--	12	4.9
22...	1045	39	7.2	8.0	--	--	--	--	--	--
28...	1630	31	7.2	9.8	3.4	11.0	--	--	11	.0
JUN										
11...	1100	41	7.3	9.8	2.2	11.1	1	<1	13	4.9
18...	1030	35	7.1	10.4	1.5	10.8	--	--	12	--
25...	1430	37	7.0	10.5	1.2	10.8	5	1	11	--
JUL										
18...	0900	34	7.9	10.6	2.0	10.8	<1	1	12	4.9
AUG										
21...	1030	41	6.8	11.3	2.5	8.8	<1	<1	12	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
APR , 1980										
17...	3.3	.8	2.3	.4	14	5.5	4.2	1.0	.1	13
MAY										
19...	3.5	.9	2.5	.4	12	.9	4.3	4.2	.1	14
22...	--	--	--	--	--	--	--	--	--	--
28...	3.5	.5	2.6	.5	15	1.5	1.2	1.1	.0	15
JUN										
11...	4.0	.8	2.6	.5	25	1.9	.9	1.0	.0	15
18...	3.6	.8	2.6	.5	7	.8	1.9	1.8	.2	15
25...	3.3	.7	2.5	.4	17	2.7	1.0	.7	.0	14
JUL										
18...	3.6	.8	2.6	.5	18	.3	1.0	1.7	.2	15
AUG										
21...	3.7	.8	2.6	.6	8	2.0	3.7	1.9	.1	14

14220500 - LEWIS RIVER AT ARIEL, WASH.

WATER QUALITY DATA

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
APR , 1980									
17...	34	33	.04	.10	.10	.000	.020	.71	.41
MAY									
19...	30	37	.04	.06	.04	.190	.120	.91	.41
22...	--	--	--	--	--	--	--	--	--
28...	30	33	.04	.05	.06	.030	.040	2.3	1.7
JUN									
11...	29	39	.03	.05	.03	.090	.060	.37	.25
18...	40	30	.05	.05	.00	.040	.000	.42	.35
25...	26	32	.03	.00	.00	.000	.000	.84	.37
JUL									
18...	34	36	.04	.02	.02	.000	.000	.89	.53
AUG									
21...	35	32	.04	.01	.03	.010	.000	.30	.29

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
APR , 1980									
17...	.71	.28	.43	.81	.53	.040	.020	1.1	.1
MAY									
19...	1.1	.57	.53	1.1	.57	.070	.000	--	--
22...	--	--	--	--	--	--	--	--	--
28...	2.4	.60	1.8	2.4	1.9	.040	.010	--	--
JUN									
11...	.46	.15	.31	.51	.34	.020	.010	2.2	.2
18...	.46	.11	.35	.51	.35	.010	.010	.8	.1
25...	.84	.47	.37	.84	.37	.050	.030	1.0	--
JUL									
18...	.89	.36	.53	.91	.55	.020	.020	1.4	.1
AUG									
21...	.31	.02	.29	.32	.32	.020	.020	.0	.1

14220500 - LEWIS RIVER AT ARIEL, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
APR , 1980												
17...	--	--	--	--	--	--	1	0	1	0	0	<2
MAY												
19...	220	190	30	--	--	--	2	1	1	0	0	10
28...	100	40	60	0	0	0	2	0	2	0	--	<2
JUN												
11...	280	260	20	--	--	--	2	0	2	100	90	10
18...	300	250	50	--	--	--	1	0	2	0	0	10
25...	190	160	30	--	--	--	2	1	1	0	0	10
JUL												
18...	80	60	20	--	--	--	1	0	1	0	0	10
AUG												
21...	--	--	--	--	--	--	0	0	4	0	0	10

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
APR , 1980												
17...	--	--	--	--	0	0	2	0	0	0	0	0
MAY												
19...	--	30	30	0	0	0	0	0	0	0	0	0
28...	<1	30	10	20	1	--	<1	0	0	0	4	--
JUN												
11...	--	30	20	7	0	--	<1	0	0	0	1	--
18...	--	40	10	30	1	0	2	0	0	0	0	--
25...	--	40	10	30	0	--	<1	0	0	0	0	--
JUL												
18...	<1	20	0	40	0	--	<1	0	0	0	0	--
AUG												
21...	--	--	--	--	0	--	<1	10	10	0	0	--

14220500 - LEWIS RIVER AT ARIEL, WASH.

WATER QUALITY DATA

DATE	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)
APR , 1980												
17...	<3	5	2	3	80	70	10	9	6	3	--	--
MAY												
19...	0	6	4	2	130	110	20	8	7	1	0	--
28...	<3	31	--	<10	280	--	<10	20	--	<10	0	--
JUN												
11...	<3	23	18	5	170	--	<10	22	22	0	0	--
18...	<3	6	4	2	240	190	50	4	2	2	0	--
25...	<3	4	3	1	120	100	20	4	2	2	0	0
JUL												
18...	<3	11	--	<10	130	--	<10	28	0	36	10	--
AUG												
21...	<3	10	9	1	130	120	10	23	20	3	--	--

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
APR , 1980											
17...	--	10	7	3	.1	.1	.0	--	5	4	1
MAY											
19...	<4	10	3	7	.0	.0	.0	--	3	1	2
28...	<4	10	8	2	.0	.0	.0	<10	4	0	5
JUN											
11...	<4	30	20	10	.0	.0	.0	--	13	13	0
18...	<4	20	10	10	.0	--	--	--	3	0	3
25...	6	10	5	5	.1	.1	.0	--	0	0	0
JUL											
18...	<4	20	9	11	.0	.0	.0	<10	2	0	3
AUG											
21...	--	20	20	5	.1	.1	.0	--	2	1	1

14220500 - LEWIS RIVER AT ARIEL, WASH.

WATER QUALITY DATA

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
APR , 1980											
17...	0	0	0	0	0	0	--	--	30	20	10
MAY											
19...	0	0	0	0	0	0	--	--	20	10	10
28...	0	0	0	0	0	0	16	<6.0	70	40	34
JUN											
11...	0	0	0	0	0	0	--	--	90	80	10
18...	0	0	0	0	0	0	--	--	120	100	20
25...	0	0	0	0	0	0	--	--	20	10	9
JUL											
18...	0	0	0	0	0	1	17	<6.0	50	40	9
AUG											
21...	0	0	0	0	0	0	--	--	50	40	10

14222749 - KALAMA R ABOVE FOSSIL CR NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR, 1980											
30...	1630	38	6.9	4.7	.60	10	4.9	3.0	.7	3.5	.6

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR, 1980											
30...	18	3.6	.9	1.0	.1	21	39	41	.05	.03	.03

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
MAR, 1980											
30...	.010	.010	.29	.28	.30	.01	.29	.33	.32	.060	.060

14222749 - KALAMA R ABOVE FOSSIL CR NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOV. (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAR , 1980									
30...	160	140	20	2	0	3	100	90	10

DATE	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)
MAR , 1980									
30...	50	50	2	0	0	<1	0	0	0

DATE	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
MAR , 1980									
30...	1	0	<3	2	0	3	80	60	20

14222749 - KALAMA R ABOVE FOSSIL CR NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)
MAR , 1980												
30...	0	0	0	0	0	5	10	8	2	.0	.0	.0

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980												
30...	1	0	2	0	0	0	0	0	0	10	6	4

14222980 - KALAMA RIVER BELOW FALLS NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)
APR , 1980										
18...	1515	28	7.3	8.5	--	12.4	--	--	--	--
MAY										
07...	1600	33	--	8.0	--	10.8	--	--	--	--
21...	1625	47	7.3	7.8	4.4	--	--	--	12	4.9
JUN										
06...	1640	40	7.3	7.0	16	11.2	--	--	11	4.9
11...	1530	46	6.8	7.2	10	11.2	--	--	12	4.9
16...	1430	43	7.1	6.9	30	10.9	--	--	11	4.9
26...	1100	44	7.1	7.0	23	11.2	--	--	13	4.9
JUL										
23...	1600	47	6.5	9.4	2.8	10.4	2	5	13	.0
AUG										
21...	1600	48	6.9	8.0	230	10.3	1	10	13	.0

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
APR , 1980										
18...	--	--	--	--	--	--	--	--	--	--
MAY										
07...	--	--	--	--	--	--	--	--	--	--
21...	3.4	.8	3.5	.5	13	1.0	1.8	2.9	.1	19
JUN										
06...	3.4	.7	3.6	.5	16	1.2	1.4	1.6	.1	19
11...	3.7	.8	3.7	.5	16	4.0	.8	.8	.1	20
16...	3.3	.8	3.4	.5	13	1.6	.8	5.5	.2	19
26...	3.6	1.0	4.1	.5	26	3.2	2.1	1.1	.1	20
JUL										
23...	3.6	1.1	4.0	.7	16	8.0	6.5	1.6	.3	22
AUG										
21...	3.9	1.0	4.3	.7	16	3.2	3.4	2.1	.2	23

14222980 - KALAMA RIVER BELOW FALLS NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
APR , 1980									
18...	--	--	--	--	--	--	--	--	--
MAY									
07...	--	--	--	--	--	--	--	--	--
21...	42	40	.05	.03	.06	.060	.100	1.6	.36
JUN									
06...	42	40	.05	.03	.01	.040	.010	.24	.24
11...	46	40	.06	.08	.05	.100	.120	1.6	.12
16...	48	41	.06	.00	.01	.000	.000	.47	.28
26...	35	48	.04	.00	.02	.000	.010	.33	.27
JUL									
23...	42	49	.05	.03	.06	.000	.000	.68	.26
AUG									
21...	46	48	.06	.00	.00	.000	.000	.59	.30

14222980 - KALAMA RIVER BELOW FALLS NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
APR , 1980									
18...	--	--	--	--	--	--	--	--	--
MAY									
07...	--	--	--	--	--	--	--	--	--
21...	1.7	1.2	.46	1.7	.52	.100	.030	--	--
JUN									
06...	.28	.03	.25	.31	.26	.120	.020	--	--
11...	1.7	1.5	.24	1.7	.29	.050	.020	1.6	--
16...	.47	.19	.28	.47	.29	.170	.020	3.8	.7
26...	.33	.05	.28	.33	.30	.140	.050	.5	--
JUL									
23...	.68	.42	.26	.71	.32	.040	.030	1.4	.8
AUG									
21...	.59	.29	.30	.59	.30	.050	.040	3.0	.1

14222980 - KALAMA RIVER BELOW FALLS NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAY , 1980												
21...	250	80	170	0	0	0	0	0	1	0	0	4
JUN												
06...	100	70	30	0	0	0	2	1	1	0	0	6
11...	460	380	80	0	0	0	2	0	2	0	0	8
16...	460	430	30	--	--	--	1	0	2	0	--	<2
26...	3100	3000	60	--	--	--	2	0	2	0	0	20
JUL												
23...	550	540	10	--	--	--	1	0	1	0	--	<2
AUG												
21...	260	240	20	--	--	--	1	0	1	0	0	10

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)
MAY , 1980											
21...	<1	30	30	0	0	<1	0	0	0	0	<3
JUN											
06...	<1	460	430	30	1	<1	50	50	0	1	<3
11...	<1	20	20	0	1	<1	0	0	0	0	<3
16...	<1	40	40	0	1	<1	10	10	0	0	<3
26...	--	40	10	30	0	<1	10	10	0	2	<3
JUL											
23...	<1	70	0	70	0	<1	10	10	0	4	<3
AUG											
21...	<1	70	0	70	0	<1	30	30	0	0	<3

14222980 - KALAMA RIVER BELOW FALLS NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)
MAY , 1980											
21...	8	--	<10	230	200	26	6	--	<10	0	--
JUN											
06...	11	--	<10	790	--	<10	5	5	0	10	6
11...	7	--	<10	250	--	<10	6	6	0	10	--
16...	12	--	<10	2000	--	<10	10	10	0	0	0
26...	9	7	2	1400	1400	20	3	1	2	0	0
JUL											
23...	8	--	<10	290	--	<10	12	--	<10	0	--
AUG											
21...	7	--	<10	80	--	<10	7	0	<10	10	--

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAY , 1980											
21...	<4	0	0	3	.1	.1	.0	<10	5	2	3
JUN											
06...	4	20	20	3	.0	.0	.0	<10	38	38	0
11...	<4	20	6	14	.1	.1	.0	<10	13	8	5
16...	5	0	0	5	.0	.0	.0	<10	14	12	2
26...	7	40	30	9	.0	.0	.0	--	5	5	0
JUL											
23...	<4	10	--	<1	.0	.0	.0	<10	12	8	4
AUG											
21...	<4	0	0	0	.1	.1	.0	<10	1	0	5

14222980 - KALAMA RIVER BELOW FALLS NEAR COUGAR, WASH.

WATER QUALITY DATA

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
MAY , 1980											
21...	0	0	0	0	0	0	13	6.0	30	--	<3
JUN											
06...	0	0	0	0	0	0	13	<6.0	60	--	<3
11...	0	0	0	0	0	0	13	<6.0	40	30	6
16...	0	0	0	0	0	0	12	<6.0	140	140	5
26...	0	0	0	0	0	0	--	--	40	20	20
JUL											
23...	0	0	0	0	0	0	13	8.0	40	40	5
AUG											
21...	0	0	0	2	2	0	15	9.0	20	9	11

14240310 - NF TOUTLE R AT OUTFLOW OF SPIRIT LAKE, WASH

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR , 1980												
28...	1600	30	7.1	2.6	1.8	11.2	9	4.9	2.8	.6	2.0	.6
APR												
19...	1045	22	7.6	5.0	--	--	--	--	--	--	--	--
MAY												
06...	1045	29	7.0	7.2	--	10.6	--	--	--	--	--	--

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR , 1980											
28...	9	1.1	.6	1.5	.1	12	33	25	.04	.06	.06
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
MAR , 1980											
28...	.140	.120	.80	.59	.94	.23	.71	1.0	.77	.030	.020
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	--	--	--	--	--	--	--	--	--	--	--

14240310 - NF TOUTLE R AT OUTFLOW OF SPIRIT LAKE, WASH

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAR , 1980									
28...	200	190	10	1	1	0	0	0	10

DATE	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)
MAR , 1980									
28...	70	70	0	0	0	2	20	20	0

DATE	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
MAR , 1980									
28...	4	1	<3	9	2	7	70	60	<10

14240310 - NF TOUTLE R AT OUTFLOW OF SPIRIT LAKE, WASH

WATER QUALITY DATA

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)
MAR , 1980												
28...	19	19	0	0	0	<4	20	10	6	.1	.1	.0

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980												
28...	1	0	4	0	0	0	0	0	0	40	10	30

14240350 - COLDWATER CREEK NEAR SPIRIT LAKE, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
JUN , 1980												
06...	1400	345	6.9	8.9	730	10.2	98	19	31	5.1	24	5.4
JUL												
28...	1340	463	7.0	25.2	40	7.8	146	14	43	9.2	39	6.2

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
JUN , 1980												
06...	31	6.2	62	35	.2	14	249	197	.33	.02	.01	.320
JUL												
28...	75	11	82	52	.2	18	400	303	.54	.01	.00	.000

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
JUN , 1980												
06...	.110	.68	.21	1.0	.68	.32	1.0	.33	2.600	.020	--	--
JUL												
28...	.000	.85	.67	.85	.18	.67	.86	.67	.630	.020	1100	5.2

14240350 - COLDWATER CREEK NEAR SPIRIT LAKE, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)
JUN , 1980										
06...	910	850	60	0	0	0	14	11	3	100
JUL										
28...	7100	7100	50	--	--	--	20	9	11	100

DATE	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
JUN , 1980										
06...	80	20	<1	100	60	40	0	<1	10	10
JUL										
28...	70	30	<1	150	0	220	0	<1	10	0

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
JUN , 1980									
06...	0	23	--	<3	75	<10	41000	41000	370
JUL									
28...	10	14	8	6	35	<10	19000	14000	4700

14240350 - COLDWATER CREEK NEAR SPIRIT LAKE, WASH.

WATER QUALITY DATA

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN , 1980									
06...	20	--	<10	50	30	21	2300	900	1400
JUL									
28...	13	0	<10	30	5	25	3400	300	3100

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)
JUN , 1980									
06...	.1	.1	.0	<10	65	59	6	1	1
JUL									
28...	.1	.1	.0	<10	19	16	3	0	0

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN , 1980									
06...	0	0	0	0	140	<6.0	120	--	<3
JUL									
28...	0	7	7	0	210	<6.0	60	60	5

14240440 - CASTLE CR TWO MILES ABV MOUTH NR SPIRIT LK, WA

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
JUL , 1980												
29...	1400	109	7.4	22.4	10	7.0	32	.0	8.9	2.5	8.6	3.1

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
JUL , 1980												
29...	34	2.1	17	4.0	.3	34	101	101	.13	.00	.00	.000

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
JUL , 1980												
29...	.010	.67	.46	.67	.20	.47	.67	.47	.160	.070	7.7	1.7

14240440 - CASTLE CR TWO MILES ABV MOUTH NR SPIRIT LK, WA

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
JUL , 1980								
29...	310	290	20	1	0	2	0	0

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
JUL , 1980									
29...	10	<1	70	30	40	0	<1	0	0

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
JUL , 1980								
29...	0	4	<3	13	<10	4200	2300	1900

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
JUL , 1980									
29...	6	0	<10	20	0	22	460	20	440

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
JUL , 1980									
29...	.0	.0	.0	<10	20	16	4	0	0

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
JUL , 1980								
29...	0	4	4	0	42	<6.0	10	<3

14240460 - NF TOUTLE R BELOW ELK CR NR SPIRIT LAKE, WASH

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR , 1980												
28...	1730	77	7.7	5.2	1.0	11.6	19	4.9	5.1	1.6	6.4	.8
APR												
19...	0945	52	7.5	8.0	--	13.8	--	--	--	--	--	--
MAY												
06...	1300	54	7.4	8.0	--	10.3	--	--	--	--	--	--

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR , 1980											
28...	21	.6	2.7	5.9	.2	22	59	57	.08	.04	.04
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
MAR , 1980											
28...	.010	.010	.76	.50	.77	.26	.51	.81	.55	.040	.040
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	--	--	--	--	--	--	--	--	--	--	--

14240460 - NF TOUTLE R BELOW ELK CR NR SPIRIT LAKE, WASH

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAR , 1980									
28...	200	180	20	2	1	1	100	90	10

DATE	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)
MAR , 1980									
28...	110	70	40	0	0	1	20	20	0

DATE	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
MAR , 1980									
28...	1	0	<3	10	7	3	170	140	30

14240460 - NF TOUTLE R BELOW ELK CR NR SPIRIT LAKE, WASH

WATER QUALITY DATA

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)
MAR , 1980												
28...	3	3	0	10	0	10	20	10	7	.1	.1	.0

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980												
28...	8	5	3	0	0	0	0	0	0	40	30	10

14241000 - GREEN R NR TOUTLE, WASH.

WATER QUALITY DATA

DATE	TIME	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SILICA, DISSOLVED (MG/L AS SIO2)
JUN , 1980							
19...	2000	19.4	52	16	2.9	11	13

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)
JUN , 1980							
19...	.03	.660	.54	1.2	1.2	1.600	1.400

DATE	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
JUN , 1980								
19...	1	10	<1	<1	<3	<10	270	15

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
JUN , 1980								
19...	10	410	.3	<10	0	90	<6.0	12

14241100 - N.F. TOUTLE RIVER AT KID VALLEY, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
JUN , 1980										
06...	1030	225	7.5	8.9	400	--	66	9.9	20	4.0
19...	1710	200	--	19.4	--	--	57	--	17	3.7
JUL										
30...	1145	175	7.3	17.0	33	9.0	51	4.9	15	3.5

DATE	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)
JUN , 1980									
06...	16	2.6	25	1.2	45	24	.1	16	155
19...	13	--	--	--	--	--	--	16	--
JUL									
30...	12	1.8	34	2.7	34	15	.2	20	121

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)
JUN , 1980									
06...	144	.21	.02	.00	.160	.010	.52	.23	.68
19...	--	--	--	.08	--	.940	--	.46	--
JUL									
30...	123	.16	.01	.01	.000	.000	.64	.33	.64

DATE	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
JUN , 1980									
06...	.44	.24	.70	.24	1.400	.010	--	--	--
19...	--	1.4	--	1.5	--	1.500	2.100	--	--
JUL									
30...	.31	.33	.65	.34	.320	.020	--	2.7	3.5

14241100 - N.F. TOUTLE RIVER AT KID VALLEY, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)
JUN , 1980										
06...	910	800	110	0	0	0	5	3	2	100
19...	--	--	--	--	--	--	--	--	1	--
JUL										
30...	1100	1100	30	--	--	--	4	1	3	100

DATE	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
JUN , 1980										
06...	90	10	<1	80	40	40	0	<1	10	10
19...	--	20	<1	--	--	--	--	1	--	--
JUL										
30...	80	20	<1	70	20	50	0	<1	10	10

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
JUN , 1980									
06...	0	9	--	<3	50	<10	17000	17000	150
19...	--	--	--	<3	--	<10	--	--	260
JUL									
30...	0	5	1	4	20	<10	5200	4500	720

14241100 - N.F. TOUTLE RIVER AT KID VALLEY, WASH.

WATER QUALITY DATA

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN , 1980									
06...	5	5	0	20	10	10	970	410	560
19...	--	--	45	--	--	7	--	--	270
JUL									
30...	9	0	<10	0	0	6	470	80	390

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)
JUN , 1980									
06...	.2	.2	.0	<10	22	19	3	0	0
19...	--	--	.0	<10	--	--	--	--	--
JUL									
30...	.0	.0	.0	<10	10	7	3	0	0

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN , 1980									
06...	0	0	0	0	110	<6.0	210	--	<3
19...	0	--	--	--	93	<6.0	--	--	14
JUL									
30...	0	0	0	0	84	<6.0	70	70	3

14241460 - SF TOUTLE R BLW DISAPPNTMENT CR NR SPIRIT LK, WA

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
MAR , 1980												
29...	0830	47	7.8	3.7	1.5	12.3	14	4.9	4.1	1.0	3.2	.6
APR												
19...	0800	32	8.1	8.4	--	11.3	--	--	--	--	--	--
MAY												
06...	1500	45	7.7	9.6	--	10.1	--	--	--	--	--	--
JUN												
06...	1550	92	7.6	8.9	21	10.8	23	4.9	6.8	1.6	7.6	1.6

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
MAR , 1980											
29...	19	.4	1.6	2.1	.1	19	45	43	.06	.06	.06
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	25	.9	5.9	6.1	.1	23	76	68	.10	.01	.02

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
MAR , 1980											
29...	.010	.010	.25	.25	.26	.00	.26	.32	.32	.030	.020
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	.040	.010	.28	.25	.32	.06	.26	.33	.28	.080	.010

14241460 - SF TOUTLE R BLW DISAPPNTMENT CR NR SPIRIT LK, WA

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
MAR , 1980											
29...	510	480	30	--	--	--	0	0	0	200	200
JUN											
06...	100	60	40	0	0	0	2	1	1	0	0

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
MAR , 1980										
29...	10	--	90	70	20	0	0	<1	0	0
JUN										
06...	8	<1	50	0	70	0	--	<1	0	0

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
MAR , 1980										
29...	0	1	0	<3	4	0	6	560	460	100
JUN										
06...	0	1	--	<3	8	--	<10	1200	990	210

14241460 - SF TOUTLE R BLW DISAPPNTMENT CR NR SPIRIT LK, WA

WATER QUALITY DATA

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR , 1980									
29...	54	54	0	0	0	5	30	10	20
JUN									
06...	6	6	0	10	2	8	150	40	110

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)
MAR , 1980									
29...	.1	.1	.0	--	0	0	2	0	0
JUN									
06...	.1	.1	.0	<10	6	6	0	0	0

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR , 1980									
29...	0	0	0	0	--	--	20	20	4
JUN									
06...	0	0	0	0	33	<6.0	250	--	<3

14241500 - SOUTH FORK TOUTLE RIVER AT TOUTLE, WASH.

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUL , 1980										
30...	1045	120	100	7.2	14.8	1200	10.0	31	4.9	8.8

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
JUL , 1980										
30...	2.3	7.3	1.5	26	2.6	8.2	11	.3	23	78

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
JUL , 1980									
30...	78	.10	25.2	.02	.04	.020	.000	2.0	.39

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
JUL , 1980									
30...	2.1	1.7	.39	2.1	.43	6.000	.040	20	3.3

14241500 - SOUTH FORK TOUTLE RIVER AT TOUTLE, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
JUL , 1980								
30...	49000	49000	110	9	7	2	200	200

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
JUL , 1980									
30...	7	<1	120	100	20	0	<1	20	20

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
JUL , 1980								
30...	0	22	<3	310	<10	36000	36000	47

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
JUL , 1980									
30...	20	0	<10	40	30	10	880	750	130

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
JUL , 1980									
30...	.1	.1	.0	<10	42	39	3	0	0

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
JUL , 1980								
30...	0	0	0	0	38	<6.0	100	<3

14242690 - TOUTLE R AT HIWAY 99 BRIDGE NR CASTLE ROCK, WA.

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
MAR , 1980										
29...	1100	1950	49	7.8	7.5	230	12.0	--	--	14
APR										
19...	1330	2820	35	7.8	10.9	--	--	--	--	--
MAY										
06...	1645	1910	59	7.8	11.6	--	10.7	--	--	--
20...	1000	--	560	7.2	15.0	5600	--	--	--	141
22...	1230	760	310	7.3	11.4	--	--	--	--	174
25...	1630	--	254	7.4	10.8	500	--	--	--	64
27...	1600	--	290	7.3	11.4	1700	--	--	--	74
29...	1500	930	228	7.5	12.6	820	--	--	--	63
JUN										
05...	1300	--	174	7.4	11.3	880	9.8	--	--	50
10...	1315	--	165	7.3	14.8	820	6.7	--	--	47
19...	1215	800	171	7.5	15.8	660	9.0	--	--	47
24...	1430	--	155	7.4	16.0	370	9.2	K6200	27	45
JUL										
22...	1100	--	147	7.4	21.4	--	8.2	K56	220	44
AUG										
20...	1045	--	150	7.4	16.5	650	11.6	K220	K44	46

DATE	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
MAR , 1980										
29...	4.9	3.8	1.2	3.6	.5	14	.3	1.0	7.2	.1
APR										
19...	--	--	--	--	--	--	--	--	--	--
MAY										
06...	--	--	--	--	--	--	--	--	--	--
20...	19	43	8.1	49	8.0	39	3.9	140	54	.3
22...	--	40	18	24	5.5	--	--	--	--	--
25...	9.9	19	4.0	17	3.8	--	--	50	24	.0
27...	9.9	22	4.6	19	3.9	24	1.9	64	27	.2
29...	4.9	19	3.9	15	2.9	18	.9	54	18	.1
JUN										
05...	9.9	15	3.1	12	2.3	21	1.3	33	21	.2
10...	9.9	14	3.0	11	2.1	16	1.2	27	27	.1
19...	--	14	3.1	11	2.0	19	.9	25	14	.2
24...	4.9	13	3.1	9.7	1.8	33	2.0	25	7.7	.1
JUL										
22...	4.9	13	3.0	11	2.4	20	1.2	19	25	.2
AUG										
20...	9.9	13	3.4	10	1.9	32	2.0	22	11	.2

14242690 - TOUTLE R AT HIWAY 99 BRIDGE NR CASTLE ROCK, WA.

WATER QUALITY DATA

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
MAR , 1980										
29...	16	45	42	.06	237	.25	.16	.030	.010	.29
APR										
19...	--	--	--	--	--	--	--	--	--	--
MAY										
06...	--	--	--	--	--	--	--	--	--	--
20...	22	386	350	.52	--	.02	.06	.090	.060	10
22...	45	--	--	--	--	--	--	--	--	--
25...	18	159	138	.21	--	.00	.07	.000	--	1.3
27...	15	185	171	.25	--	.09	.10	.490	.030	2.7
29...	18	149	143	.20	374	.06	.03	.310	.010	2.3
JUN										
05...	16	128	116	.17	--	.02	.01	.300	.010	.90
10...	17	112	112	.15	--	.07	.10	.250	.100	1.1
19...	17	115	98	.15	248	.00	.00	.110	.000	.66
24...	18	101	98	.13	--	.00	.00	.150	.020	.64
JUL										
22...	21	115	107	.15	--	.00	.01	.020	.030	.57
AUG										
20...	22	108	103	.14	--	.00	.07	.120	.000	.53

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
MAR , 1980										
29...	--	.32	--	--	.57	--	.020	.020	--	--
APR										
19...	--	--	--	--	--	--	--	--	--	--
MAY										
06...	--	--	--	--	--	--	--	--	--	--
20...	.27	11	11	.33	11	.39	3.600	.020	--	--
22...	--	--	--	--	--	--	--	--	--	--
25...	--	1.3	.62	.68	1.3	.75	--	1.500	--	--
27...	2.1	3.2	1.0	2.2	3.2	2.3	6.400	.010	--	--
29...	2.6	2.7	.00	2.7	2.7	2.7	3.600	.010	--	--
JUN										
05...	.29	1.2	.90	.30	1.2	.31	3.100	.010	--	--
10...	.15	1.4	1.2	.25	1.4	.35	3.200	.010	7.8	11
19...	.67	.77	.10	.67	.77	.67	2.200	.010	3.1	2.4
24...	.75	.79	.02	.77	.79	.77	1.300	.040	3.6	--
JUL										
22...	.21	.59	.35	.24	.59	.25	4.900	.030	--	--
AUG										
20...	.37	.65	.28	.37	.65	.44	.020	.040	8.4	1.3

14242690 - TOUTLE R AT HIWAY 99 BRIDGE NR CASTLE ROCK, WA.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAR , 1980												
29...	200	160	40	--	--	--	2	1	1	100	90	10
MAY												
20...	20000	20000	310	--	--	0	6	5	1	100	80	20
22...	55000	54000	700	--	--	0	14	10	4	200	100	90
25...	33000	32000	540	--	--	0	13	11	2	200	200	10
27...	57000	57000	250	0	0	0	13	11	2	100	90	10
29...	34000	34000	270	0	0	0	8	6	2	7200	7200	[illegible]
JUN												
05...	65000	65000	110	0	0	0	8	5	3	100	90	10
10...	85000	85000	100	0	0	0	7	5	2	200	200	10
19...	20000	20000	40	--	--	--	5	3	2	100	100	4
24...	100000	100000	140	--	--	--	4	2	2	0	0	10
JUL												
22...	16000	16000	50	--	--	--	7	5	2	200	200	10
AUG												
20...	18000	18000	150	--	--	--	5	2	3	100	90	10

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
MAR , 1980												
29...	--	80	30	50	0	0	<1	0	0	0	1	0
MAY												
20...	<1	190	0	210	0	0	1	0	0	0	7	--
22...	<1	130	40	90	0	0	3	20	20	0	29	17
25...	<1	130	50	80	0	0	7	0	0	0	20	--
27...	<1	120	30	90	0	--	<1	30	30	0	25	--
29...	<1	90	20	70	0	--	<1	10	10	0	27	--
JUN												
05...	<1	80	30	50	1	--	<1	10	10	0	18	--
10...	<1	70	20	50	0	--	<1	10	10	0	19	--
19...	<1	80	10	70	1	--	<1	10	10	0	12	--
24...	--	90	20	70	0	--	<1	40	40	0	10	--
JUL												
22...	<1	100	10	90	0	--	<1	10	0	10	19	--
AUG												
20...	<1	120	10	110	1	--	<1	30	30	0	7	--

14242690 - TOUTLE R AT HIWAY 99 BRIDGE NR CASTLE ROCK, WA.

WATER QUALITY DATA

DATE	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)
MAR , 1980												
29...	<3	6	1	5	230	160	70	10	10	0	0	0
MAY												
20...	<3	110	--	<10	22000	22000	95	3	--	<10	30	4
22...	12	490	340	150	76000	76000	21	19	--	<10	60	30
25...	<3	320	310	11	50000	50000	160	16	--	<10	30	20
27...	<3	380	--	<10	78000	78000	110	27	--	<10	70	60
29...	<3	250	--	<10	41000	41000	65	22	--	<10	40	30
JUN												
05...	<3	180	--	<10	32000	32000	110	22	--	<10	30	20
10...	<3	190	--	<10	40000	40000	140	17	5	12	40	30
19...	<3	110	--	<10	33000	33000	240	9	9	0	0	0
24...	<3	83	80	3	19000	19000	210	7	5	2	10	3
JUL												
22...	<3	450	--	<10	37000	37000	120	16	--	<10	40	40
AUG												
20...	<3	130	--	<10	16000	16000	160	18	0	<10	20	--

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAR , 1980											
29...	<4	20	0	20	.0	.0	.0	--	8	6	2
MAY											
20...	26	1300	300	1000	.1	.1	.0	11	14	4	10
22...	29	2200	1000	1200	.1	.0	.3	<10	57	37	20
25...	10	1400	1100	350	.1	.1	.0	<10	40	28	12
27...	12	2000	1500	490	.1	.1	.0	<10	74	71	3
29...	12	1300	900	400	.1	.1	.0	<10	20	13	7
JUN											
05...	7	1100	720	380	.1	.1	.0	<10	60	60	0
10...	6	1100	780	320	.1	.1	.0	<10	63	61	2
19...	7	270	0	290	.0	.0	.0	<10	31	29	2
24...	7	680	390	290	.1	.1	.0	--	32	32	0
JUL											
22...	4	960	730	230	.1	.1	.0	<10	35	31	4
AUG											
20...	<4	600	410	190	.2	.2	.0	<10	24	22	2

14242690 - TOUTLE R AT HIWAY 99 BRIDGE NR CASTLE ROCK, WA.

WATER QUALITY DATA

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
MAR , 1980											
29...	0	0	0	0	0	0	--	--	30	20	10
MAY											
20...	0	0	0	0	0	0	210	<6.0	70	70	5
22...	2	2	0	0	0	0	200	57	230	150	79
25...	1	1	0	0	0	0	99	<6.0	160	140	19
27...	1	1	0	0	0	0	120	<6.0	240	--	<3
29...	1	1	0	0	0	0	98	<6.0	150	--	<3
JUN											
05...	0	0	0	0	0	0	78	<6.0	200	--	<3
10...	0	0	0	0	0	0	69	<6.0	190	190	3
19...	0	0	0	0	0	0	67	<6.0	400	390	11
24...	0	0	0	0	0	0	--	--	70	--	<3
JUL											
22...	0	0	0	1	1	0	67	<6.0	130	110	24
AUG											
20...	0	0	0	2	2	0	72	<6.0	150	130	16

14242700 - TOUTLE R NR CASTLE ROCK, WASH.

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)
APR , 1980								
22...	1450	36	7.5	9.0	.19	.080	.030	.010
MAY								
27...	1350	290	7.4	10.0	.01	.430	5.400	.020
JUN								
23...	1355	150	7.7	15.6	.03	.040	.730	.010

14243000 - COWLITZ R AT CASTLE ROCK, WASH.

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)		OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
MAY , 1980											
20...	0815	6200	136	7.4	11.5	2300		--	--	--	40
20...	1530	6200	131	7.4	11.8	1900		--	--	--	31
21...	0830	8060	99	7.4	9.8	1000		--	--	--	28
21...	1200	--	77	7.4	9.8	770		--	--	--	29
22...	1030	--	76	7.4	9.4		--	--	--	--	--
22...	1600	7920	110	7.3	9.8	2700		--	--	--	30
23...	1530	9140	71	7.4	9.8	380		5.6	--	--	22
25...	1300	8200	79	7.1	9.6	550		--	--	--	24
27...	1030	9950	104	7.3	8.7	470		--	--	--	30
29...	1030	7220	80	7.4	10.4	250		6.8	--	--	23
JUN											
04...	1100	--	92	7.3	11.9	390		10.8	--	--	26
10...	1000	--	72	7.1	10.8		--	--	--	--	--
17...	1130	--	89	7.3	10.5	1100		10.1	K5100	K210	28
24...	1330	--	60	7.0	11.1	64		10.7	730	--	21
JUL											
22...	1600	--	66	6.8	--	600		9.2	K18	K11	22
AUG											
19...	1130	--	83	7.2	13.3	13		10.6	K31	<6	26

DATE	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
MAY , 1980										
20...	4.9	12	2.6	13	5.4	21	1.3	34	11	.2
20...	4.9	9.4	2.0	8.5	1.6	21	1.3	20	8.4	.1
21...	4.9	8.5	1.8	7.0	1.3	21	1.3	14	6.1	.1
21...	4.9	8.5	2.0	6.7	1.4	15	.9	15	6.5	.1
22...	--	--	--	--	--	--	--	--	--	--
22...	4.9	9.2	1.9	7.1	1.3	24	1.9	15	6.7	.1
23...	4.9	6.7	1.3	3.8	.7	21	1.3	3.6	3.0	.1
25...	4.9	7.1	1.6	4.7	1.0	23	2.9	7.5	5.1	.1
27...	4.9	9.3	1.7	5.9	1.2	21	1.6	20	8.8	.1
29...	9.9	7.3	1.3	4.5	.9	21	1.3	9.6	5.0	.1
JUN										
04...	9.9	8.0	1.5	5.3	.9	16	1.2	11	5.7	.1
10...	--	--	--	--	--	--	--	--	--	--
17...	--	8.7	1.6	5.0	.9	25	1.9	12	4.8	.2
24...	4.9	6.5	1.3	3.5	.5	18	2.8	7.3	1.8	.0
JUL										
22...	.0	6.9	1.3	4.3	.7	23	5.7	4.3	3.9	.2
AUG										
19...	9.9	7.9	1.7	5.7	.9	16	1.6	7.7	7.1	.1

14243000 - COWLITZ R AT CASTLE ROCK, WASH.

WATER QUALITY DATA

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
MAY , 1980										
20...	15	106	106	.14	1774	.01	.02	.750	.040	.85
20...	15	76	78	.10	1272	.01	.01	.570	.030	.73
21...	15	69	66	.09	1502	.01	.01	.450	.030	.55
21...	14	92	63	.12	--	.04	.04	.160	.190	.84
22...	--	--	--	--	--	--	--	--	--	--
22...	15	80	71	.10	1711	.03	--	.060	.040	1.7
23...	14	54	46	.07	1333	.04	.08	.100	.070	.46
25...	14	59	55	.08	1306	.03	.07	.040	.060	.96
27...	14	73	73	.09	1961	.10	.10	.180	.010	2.7
29...	14	62	55	.08	1209	.15	.08	.120	.010	1.9
JUN										
04...	14	67	56	.09	--	.06	.06	.190	.010	.25
10...	--	--	--	--	--	--	--	--	--	--
17...	14	72	62	.09	--	.07	.07	.120	.000	1.5
24...	14	42	45	.05	--	.09	.03	.020	.000	.33
JUL										
22...	14	50	49	.06	--	.05	.05	.020	.060	.36
AUG										
19...	14	59	55	.08	--	.00	.02	.000	.000	.17

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
MAY , 1980										
20...	.34	1.6	1.2	.38	1.6	.40	6.700	.010	--	--
20...	.39	1.3	.88	.42	1.3	.43	5.800	.000	--	--
21...	.35	1.0	.62	.38	1.0	.39	3.800	.000	--	--
21...	.09	1.0	.72	.28	1.0	.32	.740	.340	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	.53	1.8	1.2	.57	1.8	--	6.900	.020	--	--
23...	.69	.56	.00	.76	.60	.84	1.500	.020	--	--
25...	.56	1.0	.38	.62	1.0	.69	1.600	.010	--	--
27...	2.3	2.9	.50	2.4	3.0	2.5	1.900	.010	--	--
29...	.40	2.1	1.7	.41	2.2	.49	.760	.010	--	--
JUN										
04...	.20	.44	.23	.21	.50	.27	.800	.010	--	--
10...	--	--	--	--	--	--	--	--	--	--
17...	.37	1.7	1.3	.37	1.7	.44	2.600	.010	2.4	15
24...	.27	.35	.08	.27	.44	.30	.390	.000	--	--
JUL										
22...	.24	.38	.08	.30	.43	.35	.420	.000	1.6	1.2
AUG										
19...	.15	.17	.02	.15	.17	.17	.520	.020	4.6	1.4

14243000 - COWLITZ R AT CASTLE ROCK, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
MAY , 1980												
20...	--	--	50	--	--	--	18	16	2	300	300	10
20...	11000	11000	90	--	--	--	12	10	2	200	--	<2
21...	13000	13000	70	--	--	--	10	8	2	200	200	10
21...	5100	4900	220	0	0	0	6	5	1	100	100	2
22...	1600	1400	170	--	--	0	3	2	1	0	0	3
23...	--	--	170	0	0	0	3	2	1	100	100	2
25...	11000	11000	270	--	--	0	4	3	1	0	0	4
27...	16000	16000	90	0	0	0	6	4	2	10	5	5
29...	17000	17000	100	0	0	0	3	1	2	0	0	8
JUN												
04...	5500	5400	130	0	0	0	4	2	2	0	0	20
17...	17000	17000	70	--	--	--	4	2	2	100	--	<2
24...	6700	6700	50	--	--	--	2	0	2	0	0	10
JUL												
22...	7400	7400	50	--	--	--	3	1	2	100	90	10
AUG												
19...	9900	9800	100	--	--	--	2	0	5	0	0	10

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)
MAY , 1980												
20...	--	160	120	40	0	--	<1	30	30	0	51	<3
20...	--	90	70	20	0	--	<1	10	10	0	25	<3
21...	--	80	60	20	1	1	0	10	10	0	24	<3
21...	<1	30	10	20	0	0	1	0	0	0	7	<3
22...	<1	40	0	40	0	--	<1	0	0	0	3	<3
23...	<1	50	30	20	0	0	4	0	0	0	10	<3
25...	<1	50	30	20	0	0	1	0	0	0	4	<3
27...	<1	70	30	40	0	--	<1	0	0	0	7	<3
29...	<1	40	10	30	0	--	<1	0	0	0	3	<3
JUN												
04...	<1	50	40	10	1	--	<1	0	0	0	7	<3
17...	<1	60	30	30	2	--	<1	40	40	0	14	<3
24...	--	40	10	30	0	--	<1	10	10	0	6	<3
JUL												
22...	<1	50	10	40	1	--	<1	10	0	10	12	<3
AUG												
19...	<1	80	0	80	2	1	1	10	10	0	3	<3

14243000 - COWLITZ R AT CASTLE ROCK, WASH.

WATER QUALITY DATA

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)
MAY , 1980											
20...	520	510	6	98000	98000	70	37	37	0	80	70
20...	330	330	4	58000	58000	70	24	22	2	40	30
21...	310	310	4	44000	44000	50	38	37	1	30	--
21...	150	--	<10	16000	16000	67	6	--	<10	10	5
22...	50	--	<10	9700	9600	84	4	--	<10	10	5
23...	120	--	<10	16000	16000	73	8	--	<10	10	5
25...	47	--	<10	8500	8400	110	4	--	<10	0	0
27...	100	--	<10	20000	20000	40	22	--	<10	20	--
29...	56	--	<10	8300	8300	25	12	--	<10	10	--
JUN											
04...	67	--	<10	12000	12000	63	11	--	<10	10	--
17...	100	--	<10	54000	54000	80	9	0	10	20	20
24...	33	30	3	7600	7600	50	7	4	3	10	6
JUL											
22...	56	--	<10	4600	4600	49	4	0	10	10	5
AUG											
19...	70	--	<10	8000	8000	48	35	0	42	10	--

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAY , 1980											
20...	7	2300	2100	230	.1	.1	.0	--	81	75	6
20...	6	1400	1200	170	.1	.1	.0	--	38	35	3
21...	<4	1200	1100	140	.1	.1	.0	--	51	47	4
21...	5	500	420	77	.1	.1	.0	<10	12	5	7
22...	5	320	260	65	.1	.1	.0	<10	9	3	6
23...	5	490	460	34	.0	.0	.3	<10	14	6	8
25...	6	240	190	53	.1	.0	.2	<10	11	2	9
27...	<4	550	430	120	.1	.1	.0	<10	24	21	3
29...	<4	240	160	77	.0	.0	.0	<10	16	13	3
JUN											
04...	<4	340	240	100	.1	.1	.0	<10	28	27	1
17...	4	1100	980	120	.0	.0	.0	<10	73	69	4
24...	4	170	120	50	.2	.2	.0	--	190	190	0
JUL											
22...	5	50	20	34	.1	.1	.0	<10	44	40	4
AUG											
19...	<4	280	170	110	.0	.0	.0	<10	26	24	2

14243000 - COWLITZ R AT CASTLE ROCK, WASH.

WATER QUALITY DATA

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
MAY , 1980											
20...	1	1	0	0	0	0	--	--	280	270	6
20...	1	1	0	0	0	0	--	--	160	150	9
21...	1	1	0	0	0	0	--	--	180	--	<3
21...	0	0	0	0	0	0	43	<6.0	60	--	<3
22...	0	0	0	0	0	0	40	<6.0	10	--	<3
23...	0	0	0	0	0	0	26	<6.0	70	--	<3
25...	0	0	0	0	0	0	31	<6.0	40	--	<3
27...	0	0	0	0	0	0	36	<6.0	110	--	<3
29...	0	0	0	0	0	0	29	<6.0	60	60	3
JUN											
04...	0	0	0	0	0	0	34	<6.0	220	220	5
17...	1	1	0	0	0	0	35	<6.0	10	--	<3
24...	0	0	0	0	0	0	--	--	60	60	4
JUL											
22...	0	0	0	0	0	0	28	<3.0	130	0	<3
AUG											
19...	0	0	0	0	0	0	34	<6.0	230	230	3

14244200 - COWLITZ RIVER AT KELSO, WASH.

WATER QUALITY DATA

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)
APR , 1980											
16...	1400	10100	44	6.7	9.4	3.7	11.2	2	2	16	--
MAY											
20...	1325	--	178	7.3	13.3	--	--	--	--	--	--
30...	1230	6570	78	7.4	10.9	170	--	--	--	24	4.9
JUN											
04...	1400	--	82	7.5	12.6	--	--	--	--	--	--
12...	1230	6740	73	7.4	11.4	72	10.6	2100	--	26	4.9
17...	1600	7790	98	7.4	12.3	650	8.9	3100	K150	29	--
25...	1100	6200	65	7.5	13.4	180	10.4	700	K20	21	--
JUL											
23...	1030	3220	73	7.2	15.6	280	9.2	38	<6	25	.0
AUG											
19...	1115	--	87	7.4	15.4	2.3	10.2	--	--	27	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
APR , 1980										
16...	4.5	1.2	2.9	.5	19	6.0	.8	2.2	.1	13
MAY										
20...	--	--	--	--	--	--	--	--	--	--
30...	7.5	1.4	4.9	.9	21	1.3	9.2	4.9	.1	14
JUN										
04...	--	--	--	--	--	--	--	--	--	--
12...	8.0	1.5	4.5	.8	48	3.0	5.8	4.3	.1	15
17...	9.0	1.8	5.7	.8	21	1.3	14	6.3	.1	14
25...	6.4	1.4	3.7	.5	18	.9	8.1	1.6	.0	13
JUL										
23...	7.5	1.7	4.5	.7	18	1.8	7.6	4.3	.2	14
AUG										
19...	8.3	1.7	6.3	.9	16	1.0	15	8.2	.0	14

14244200 - COWLITZ RIVER AT KELSO, WASH.

WATER QUALITY DATA

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
APR , 1980										
16...	42	36	.05	1145	9	.19	.20	.000	.020	.44
MAY										
20...	--	--	--	--	--	--	--	--	--	--
30...	61	55	.08	1082	--	.08	.08	.100	.010	1.7
JUN										
04...	--	--	--	--	--	--	--	--	--	--
12...	55	69	.07	1001	--	.10	.05	.030	.000	.75
17...	62	64	.08	1304	--	.11	.12	.040	.000	1.6
25...	42	45	.05	703	--	.00	.05	.040	.030	.44
JUL										
23...	50	51	.06	435	--	.11	.07	.010	.000	.32
AUG										
19...	71	64	.09	--	198	.09	.00	.100	.000	.43

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
APR , 1980										
16...	.31	.44	.11	.33	.63	.53	.020	.010	2.1	.3
MAY										
20...	--	--	--	--	--	--	--	--	--	--
30...	1.9	1.8	.00	2.0	1.8	2.1	.920	.010	--	--
JUN										
04...	--	--	--	--	--	--	--	--	--	--
12...	.75	.78	.03	.75	.88	.80	.660	.010	14	2.8
17...	.38	1.7	1.3	.38	1.8	.50	.210	.070	2.4	8.9
25...	.21	.48	.24	.24	.48	.29	.540	.030	--	--
JUL										
23...	.24	.33	.09	.24	.44	.31	.400	.010	2.2	2.4
AUG										
19...	.39	.53	.14	.39	.62	.39	.940	.070	10	1.2

14244200 - COWLITZ RIVER AT KELSO, WASH.

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ANTIMONY, TOTAL (UG/L AS SB)	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)	ANTIMONY, DISSOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
APR , 1980												
16...	--	--	--	--	--	--	1	1	0	0	0	<2
MAY												
30...	29000	29000	120	0	0	0	4	2	2	10	0	10
JUN												
12...	10000	9900	80	--	--	--	4	2	2	100	90	10
17...	39000	39000	20	--	--	--	7	5	2	100	100	0
25...	10000	9900	60	--	--	--	2	0	2	0	0	20
JUL												
23...	7200	7200	40	--	--	--	3	1	2	100	90	9
AUG												
19...	--	--	--	--	--	--	4	2	2	100	90	10

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
APR , 1980												
16...	--	--	--	--	0	0	1	10	10	0	0	0
MAY												
30...	<1	50	20	30	0	--	<1	0	0	0	8	--
JUN												
12...	--	40	30	9	2	--	<1	0	0	0	4	--
17...	--	80	70	10	0	0	2	10	10	0	15	11
25...	--	40	10	30	1	--	<1	20	20	0	4	--
JUL												
23...	<1	80	10	70	0	--	<1	20	10	10	4	--
AUG												
19...	--	--	--	--	0	--	<1	0	0	0	7	--

14244200 - COWLITZ RIVER AT KELSO, WASH.

WATER QUALITY DATA

DATE	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)
APR , 1980												
16...	<3	2	0	2	400	350	50	5	2	3	--	--
MAY												
30...	<3	77	--	<10	12000	12000	24	22	12	10	10	--
JUN												
12...	<3	69	66	3	10000	9900	90	10	7	3	10	--
17...	4	110	110	4	45000	45000	70	21	18	3	20	20
25...	<3	110	110	2	8000	7900	80	12	9	3	10	--
JUL												
23...	<3	52	--	<10	3000	2900	91	12	0	12	0	--
AUG												
19...	<3	110	110	2	14000	14000	60	12	10	2	--	--

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
APR , 1980											
16...	--	10	5	5	.0	.0	.0	--	7	7	0
MAY											
30...	<4	350	240	110	.1	.1	.0	<10	10	6	4
JUN											
12...	<4	290	200	90	.0	.0	.0	--	17	14	3
17...	0	900	790	110	.2	.2	.0	--	33	31	2
25...	<4	230	160	70	.2	.2	.0	--	87	87	0
JUL											
23...	<4	110	60	49	.1	.1	.0	<10	8	0	40
AUG											
19...	--	360	250	110	.0	.0	.0	--	30	29	1

14244200 - COWLITZ RIVER AT KELSO, WASH.

WATER QUALITY DATA

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
APR , 1980											
16...	0	0	0	0	0	0	--	--	20	20	5
MAY											
30...	0	0	0	0	0	0	31	<6.0	80	80	5
JUN											
12...	0	0	0	0	0	0	--	--	90	80	10
17...	1	1	0	0	0	0	--	--	130	110	20
25...	0	0	0	0	0	0	--	--	150	140	7
JUL											
23...	0	0	0	1	1	0	29	<6.0	30	20	12
AUG											
19...	0	0	0	0	0	0	--	--	70	--	<3

461053122030700 - MUDDY RIVER BLW SMITH CK NEAR COUGAR, WA

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
JUL , 1980												
29...	0855	421	7.6	10.0	1100	10.6	114	.0	33	7.7	43	4.7

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
JUL , 1980												
29...	110	4.3	46	42	.4	28	334	276	.45	.00	.01	.020

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG, SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
JUL , 1980												
29...	.000	1.3	.91	1.4	.49	.91	1.4	.92	1.600	.020	46	4.7

461053122030700 - MUDDY RIVER BLW SMITH CK NEAR COUGAR, WA

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
JUL, 1980									
29...	11000	11000	30	8	4	4	200	200	40

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
JUL, 1980									
29...	<1	220	0	260	0	0	2	20	10

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
JUL, 1980									
29...	10	16	13	3	77	<10	22000	19000	2900

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
JUL, 1980									
29...	10	0	<10	50	7	43	2400	400	2000

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
JUL, 1980									
29...	.1	.1	.0	<10	24	20	4	0	0

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
JUL, 1980									
29...	0	0	0	0	180	11	100	100	3

461101122031300 - TRIBUTARY TO MUDDY RIVER NR HEADWATERS

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
JUL , 1980												
29...	0930	96	7.3	6.4	.70	10.6	32	9.9	8.9	2.6	5.4	.9

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
JUL , 1980												
29...	26	2.0	9.9	8.7	.3	24	66	76	.09	.05	.05	.000

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
JUL , 1980												
29...	.000	.40	.26	.40	.14	.26	.45	.31	.220	.030	6.2	.3

461101122031300 - TRIBUTARY TO MUDDY RIVER NR HEADWATERS

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)
JUL , 1980												
29...	390	380	10	3	2	1	0	0	10	<1	100	50

DATE	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
JUL , 1980												
29...	50	0	<1	0	0	10	2	<3	160	<10	130	<10

461101122031300 - TRIBUTARY TO MUDDY RIVER NR HEADWATERS

WATER QUALITY DATA

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUL , 1980								
29...	12	0	<10	10	0	14	10	<1

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)
JUL , 1980									
29...	.0	.0	.0	<10	10	9	1	0	0

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUL , 1980								
29...	0	1	1	0	38	11	100	<3

461215122171600 - SF TOUTLE NEAR DISAPPOINTMENT CK (CLEAR SIDE)

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)
JUL , 1980												
29...	1130	53	6.8	12.0	1.6	9.1	18	5.2	1.4	4.1	1.1	16

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
JUL , 1980												
29...	4.0	5.7	1.6	.3	26	55	55	.07	.00	.00	.000	.020

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
JUL , 1980											
29...	.42	.34	.42	.06	.36	.42	.36	.160	.020	1.7	.4

461215122171600 - SF TOUTLE NEAR DISAPPOINTMENT CK (CLEAR SIDE)

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
JUL , 1980								
29...	200	190	10	2	1	1	100	90

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
JUL , 1980									
29...	9	<1	30	10	20	0	<1	10	10

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
JUL , 1980								
29...	0	4	<3	48	<10	530	210	320

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
JUL , 1980									
29...	10	0	<10	0	0	8	50	0	74

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
JUL , 1980									
29...	.0	.0	.0	<10	10	6	4	0	0

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
JUL , 1980									
29...	0	0	0	0	23	<6.0	40	40	3

461219122171900 - SF TOUTLE NEAR DISAPPOINTMENT CK (MUDDY SIDE)

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)
JUL , 1980												
29...	1200	150	7.8	15.1	830	8.7	33	9.5	2.4	15	2.4	43

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
JUL , 1980												
29...	1.0	11	10	.3	29	105	106	.14	.02	.03	.020	.000

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
JUL , 1980											
29...	.65	.32	.67	.35	.32	.69	.35	7.700	.060	1.3	1.4

461219122171900 - SF TOUTLE NEAR DISAPPOINTMENT CK (MUDDY SIDE)

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
JUL , 1980								
29...	23000	23000	30	9	7	2	200	200

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
JUL , 1980									
29...	8	<1	1200	1100	80	0	<1	20	20

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
JUL , 1980								
29...	0	20	<3	390	<10	34000	34000	49

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
JUL , 1980									
29...	21	0	<10	50	30	21	840	750	86

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
JUL , 1980									
29...	.1	.1	.0	<10	50	47	3	0	0

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
JUL , 1980								
29...	0	2	2	0	40	11	100	<3

461742122233900 - GREEN POND #1 ON DEBRIS DAM

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
JUL , 1980												
30...	1530	1020	7.4	21.5	18	7.9	324	.0	100	18	85	11

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
JUL , 1980												
30...	52	3.2	310	110	.5	22	703	690	.95	.02	.02	.010

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
JUL , 1980												
30...	.030	.49	.35	.50	.12	.38	.52	.40	.060	.020	9.2	.2

461742122233900 - GREEN POND #1 ON DEBRIS DAM

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
JUL , 1980								
30...	670	660	10	3	1	2	0	0

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
JUL , 1980									
30...	30	<1	290	0	380	0	<1	30	20

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
JUL , 1980								
30...	10	0	0	4	10	<10	560	<10

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
JUL , 1980									
30...	20	0	<10	60	0	63	1500	0	1600

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
JUL , 1980									
30...	.0	.0	.0	<10	30	20	10	0	0

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
JUL , 1980									
30...	0	0	0	0	400	<6.0	20	20	3

461743122234300 - RED POND #1 ON DEBRIS DAM

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)
JUL , 1980												
30...	1615	3050	8.4	26.8	4.8	901	250	67	350	33	200	1.2

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
JUL , 1980											
30...	950	360	1.2	28	2260	2162	3.07	.01	.02	.030	.040

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
JUL , 1980											
30...	1.4	1.2	1.5	.20	1.3	1.5	1.3	.100	.010	21	1.3

461743122234300 - RED POND #1 ON DEBRIS DAM

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)
JUL , 1980									
30...	170	160	10	19	4	15	100	70	30

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
JUL , 1980									
30...	1	1000	0	1200	0	0	2	30	20

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
JUL , 1980								
30...	10	0	<3	10	0	10	870	<10

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
JUL , 1980									
30...	20	0	<10	220	120	96	3300	1900	1400

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
JUL , 1980									
30...	.1	.1	.0	16	40	31	9	0	0

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
JUL , 1980								
30...	0	0	0	0	470	<3.0	20	<3

461758122253100 - NF TOUTLE BLW DEBRIS DAM (LEFT SIDE)

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)
JUL , 1980												
30...	1315	240	7.3	19.2	3.3	9.0	61	17	4.7	20	2.3	49

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
JUL , 1980												
30...	3.9	34	18	.2	27	162	154	.22	.03	.03	.000	.000

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG, SUSP, TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
JUL , 1980											
30...	.56	.32	.56	.24	.32	.59	.35	.060	.030	2.5	.3

461758122253100 - NF TOUTLE BLW DEBRIS DAM (LEFT SIDE)

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
JUL , 1980								
30...	340	300	40	3	1	2	100	80

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
JUL , 1980									
30...	20	<1	80	10	70	0	<1	10	10

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
JUL , 1980								
30...	0	2	<3	0	<10	1200	690	510

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
JUL , 1980									
30...	13	0	<10	0	0	11	300	0	310

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
JUL , 1980									
30...	.0	.0	.0	<10	9	7	2	0	0

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
JUL , 1980									
30...	0	0	0	0	87	<6.0	50	40	7

461825122250900 - NF TOUTLE BLW DEBRIS DAM (RIGHT SIDE)

WATER QUALITY DATA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
JUL , 1980												
30...	1430	174	7.1	20.4	3.4	8.1	50	4.9	13	4.4	13	2.3

DATE	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
JUL , 1980												
30...	42	5.3	28	16	.3	33	131	136	.17	.04	.03	.010

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
JUL , 1980												
30...	.010	.57	.44	.58	.13	.45	.62	.48	.070	.040	5.9	.4

461825122250900 - NF TOUTLE BLW DEBRIS DAM (RIGHT SIDE)

WATER QUALITY DATA

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
JUL , 1980								
30...	440	430	10	3	0	3	0	0

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
JUL , 1980									
30...	10	<1	90	0	90	0	<1	20	20

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
JUL , 1980								
30...	0	0	<3	0	<10	1400	770	630

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
JUL , 1980									
30...	10	0	<10	10	3	7	420	10	410

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
JUL , 1980									
30...	.0	.0	.0	<10	30	29	1	0	0

DATE	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
JUL , 1980								
30...	0	0	0	0	78	<6.0	10	<3