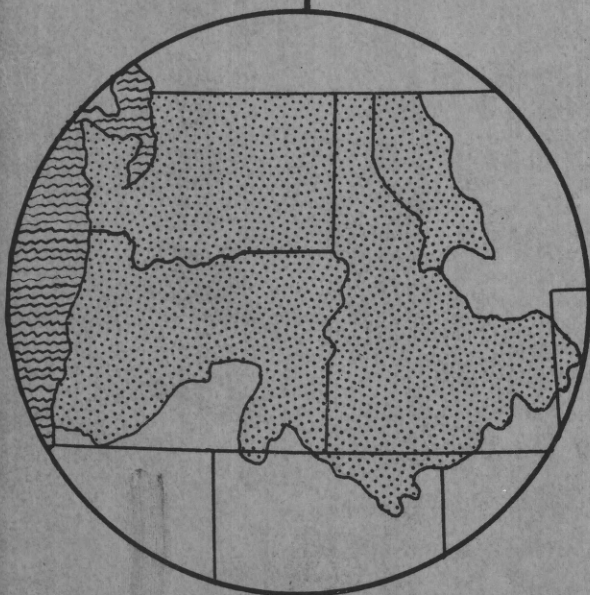


ANNUAL SUMMARY OF WATER QUALITY DATA
FOR
SELECTED SITES IN THE PACIFIC NORTHWEST
OCTOBER 1971 TO SEPTEMBER 1972



Released by
U.S. Geological Survey
Northwest Water Resources Data Center
Portland, Oregon

November 1972

Annual Summary of Water Quality Data
for
Selected Sites In The Pacific Northwest
October 1971 to September 1972

Introduction

Water resources data collected in the Pacific Northwest during the 1972 water year include chemical and physical characteristics of surface water. Data included in this report were collected by the Water Resources Division of the U.S. Geological Survey under the direction of the following district chiefs: H.K. Hall, Idaho; George M. Pike, Montana; S.F. Kapustka, Oregon; and L.B. Laird, Washington.

The Geological Survey has published records of chemical quality, water temperatures, and sediment since 1941 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records have been published by the Geological Survey in annual reports on a State-boundary basis. These reports are available from the district offices.

This report is for limited distribution and is intended primarily for rapid release of selected data shortly after the end of the water year. Data contained herein is provisional and subject to revision before final publication in the foregoing reports. The following pages contain listings of selected constituents and their values

sampled at 34 selected sites in the Pacific Northwest. The sites are listed in downstream order by states. The constituent values recorded in the tables are the results of laboratory determinations except for water temperature, Ph, Dissolved Oxygen, Specific Conductance, Alkalinity, and Immediate Coliform count, which are the results of field determinations.

These data were collected and analyzed by the Geological Survey under cooperative programs with Environmental Protection Agency and other Federal, State, County, and municipal organizations as identified in the annual State-wide reports. Additional water-quality data may be obtained from district offices of the Geological Survey and from Environmental Protection Agency.

12301933 - KOOTENAI RIVER BELOW LIBBY DAM NR LIBBY, MONT.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	PH (UNITS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
OCT. 15...	5580	7.0	7.8	315	192	--	2890	160	116	--	5.5	41	13	4.0	.9	.4
NOV. 12...	4600	2.5	7.7	340	202	--	2510	160	116	--	5.7	44	13	5.2	.9	.9
DEC. 17...	2600	.0	7.9	360	224	--	1570	180	142	--	7.0	49	14	4.8	1.0	2.8
JAN. 05...	2900	.0	7.9	355	216	--	1690	170	134	--	7.0	45	14	4.5	1.0	.9
FEB. 09...	3000	.0	7.9	370	220	212	1780	180	135	167	7.3	48	15	6.0	1.1	.7
MAR. 13...	4510	3.5	8.1	305	178	176	2170	140	115	140	8.9	38	11	4.6	.9	.9
APR. 04...	4000	5.5	7.9	280	172	157	1860	130	107	135	8.0	37	10	2.7	.6	.9
MAY 01...	8910	7.5	8.1	295	184	172	4430	150	116	147	7.0	41	12	2.3	.5	.9
JUNE 05...	25600	9.6	8.2	205	162	128	11200	110	90	110	5.7	31	7.1	2.3	1.9	.5
JULY 03...	28400	9.7	7.4	195	120	107	9200	94	90	110	4.7	27	6.4	.7	.3	.8
AUG. 07...	15600	10.7	7.5	195	132	115	5560	97	86	105	5.0	28	6.7	3.0	.2	.6
SEP. 08...	6820	10.7	7.9	198	108	105	1990	100	76	93	4.5	29	6.8	1.9	.3	.5
DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	AMMONIA (NH4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED OXYGEN (MG/L)
OCT. 15...	.15	.1	10	1	20	0	50	2	.0	--	35	.03	.010	.00	.09	12.0
NOV. 12...	.38	.2	10	0	40	0	10	0	.1	<.5	33	.25	.080	.19	.19	14.0
DEC. 17...	.25	.2	20	0	10	7	20	1	.3	<.5	42	.61	.20	.17	.22	14.6
JAN. 05...	.27	.1	10	0	20	1	10	0	.3	<.5	41	.40	.13	.14	.24	14.4
FEB. 09...	.33	.2	10	1	20	9	20	2	.4	<.5	43	.37	.12	.06	.59	13.8
MAR. 13...	.28	.2	8	2	20	8	40	1	1.0	1.2	33	.34	.11	.09	.48	14.0
APR. 04...	.22	.1	10	0	30	0	20	0	.1	.2	27	.03	.010	.08	.13	13.4
MAY 01...	.09	.1	10	1	20	0	20	2	.0	.0	28	.06	.020	.03	.44	14.6
JUNE 05...	.04	.3	30	0	60	0	40	0	.1	.1	16	.00	.000	.14	.13	14.2
JULY 03...	.20	.0	10	2	30	10	40	3	.0	.0	11	.09	.030	.15	.09	13.6
AUG. 07...	.18	.0	10	2	0	0	60	0	.2	.2	12	.03	.010	.04	.70	13.6
SEP. 08...	.14	.1	0	3	10	0	40	4	.4	.4	14	.03	.010	.01	.04	--

12302055 - FISHER RIVER NEAR LIBBY, MONT.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	PH (UNITS)	SPECIFIC COND-UCTANCE (MICRO- MHCS)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
OCT. 15...	183	6.0	7.9	220	140	--	69.2	100	104	--	12	25	9.7	.6	.1	.7
NOV. 12...	165	3.5	7.1	245	138	--	61.5	110	105	--	12	27	10	2.4	.1	1.3
DEC. 17...	100	.0	7.8	230	154	--	41.6	110	125	--	12	28	10	.8	.2	1.3
JAN. 05...	150	.0	7.8	230	136	--	55.1	110	123	--	12	27	11	1.2	.2	1.0
FEB. 08...	230	.0	7.8	205	132	118	82.0	100	98	122	12	24	9.9	1.7	.0	.8
MAR. 13...	2220	3.0	7.4	135	80	81	480	57	57	70	15	15	4.7	1.0	.1	1.3
APR. 10...	1790	3.5	8.0	125	68	81	329	58	60	69	14	15	5.0	1.6	.2	1.8
MAY 01...	1510	6.5	7.0	120	106	79	432	57	55	74	14	15	5.0	.8	.1	.9
JUNE 06...	2000	9.2	7.2	80	62	49	335	34	36	44	8.6	9.2	2.9	.3	.0	.6
JULY 10...	567	12.0	7.8	90	136	--	208	62	72	--	14	16	5.6	.3	.0	.7
AUG. 14...	198	16.5	7.6	205	138	111	73.8	100	93	113	9.8	25	9.1	1.1	.5	.9
DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	AMMONIA (NH4) (MG/L)	DIS- SOLVED OXYGEN (MG/L)	
OCT. 15...	.45	.14	.1	10	0	10	7	20	0	.0	5.8	.03	.010	.01	12.0	
NOV. 12...	.04	.37	.1	10	--	--	--	--	--	--	8.5	.15	.050	.18	13.0	
DEC. 17...	.04	.17	.2	10	--	--	--	--	--	--	6.5	.03	.010	.03	14.2	
JAN. 05...	.08	.18	.1	10	1	10	5	10	0	.3	7.2	.03	.010	.05	14.0	
FEB. 08...	.05	.33	.1	10	--	--	--	--	--	--	6.0	.00	.000	.05	13.0	
MAR. 13...	.05	.50	.2	50	--	--	--	--	--	--	4.9	.00	.000	.18	12.2	
APR. 10...	.07	.37	.2	30	2	20	2	70	1	.3	5.0	.03	.010	.04	12.4	
MAY 01...	.00	.19	.1	30	--	--	--	--	--	--	4.1	.03	.010	.06	12.0	
JUNE 06...	.00	.18	.2	20	--	--	--	--	--	--	3.1	.00	.000	.05	10.4	
JULY 10...	.00	.05	.1	0	1	20	2	10	1	.0	4.6	.00	.000	.04	9.8	
AUG. 14...	.01	.33	.1	30	--	--	--	--	--	--	5.4	.03	.010	.01	9.0	

12323800 - CLARK FORK NR. GALEN, MONT.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	SPECT- FIG COND- UCTANCE (MICRO- MHOS)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 °C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	AMMONIA (NH4) (MG/L)
OCT. 13...	129	6.5	1500	--	--	790	290	17	--	1.2	5.2	--	.00	.000	.24
NOV. 17...	183	1.5	1900	--	--	--	--	--	--	2.2	--	--	--	--	--
DEC. 10...	109	.0	2000	--	--	--	--	--	--	2.2	--	--	--	--	--
JAN. 05...	109	.0	1950	--	--	1200	420	30	--	2.8	10	--	.03	.010	.88
FEB. 15...	145	1.0	1650	--	--	--	--	--	--	1.4	--	--	--	--	--
MAR. 20...	346	7.5	1280	--	--	--	--	--	--	1.9	--	--	--	--	--
APR. 18...	218	5.0	1660	--	--	1100	410	19	--	2.4	7.0	--	.06	.020	.52
MAY 18...	429	11.0	1160	--	--	--	--	--	--	1.8	--	--	--	--	--
JUNE 15...	527	13.5	745	--	--	--	--	--	--	1.0	--	--	--	--	--
JULY 19...	94	11.5	1850	1810	459	1200	430	21	9.0	2.9	--	1100	.03	.010	--
AUG. 23...	87	15.0	2500	2770	651	1800	680	22	2.3	3.6	--	1800	--	--	--

DATE	SODIUM AD- SORP- TION RATIO	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	ALKA- LITY AS CACO3 (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT. 13...	--	26	60	5	20	0	.2	.2	.40	.38	8.1	11.6	67	330
NOV. 17...	--	--	230	--	30	--	.2	--	--	--	8.0	12.2	57	1300
DEC. 10...	--	--	130	--	20	--	3.5	--	--	--	8.6	11.2	67	370
JAN. 05...	--	14	280	2	10	0	.3	.4	.55	1.6	7.7	11.0	80	450
FEB. 15...	--	--	60	--	10	--	.1	--	--	--	8.8	10.8	77	--
MAR. 20...	--	--	220	--	20	--	.5	--	--	--	6.9	10.2	56	65
APR. 18...	--	20	90	10	30	1	.0	--	.39	.48	8.0	11.2	61	93
MAY 18...	--	--	20	--	50	--	.1	--	--	--	8.2	9.4	46	--
JUNE 15...	--	--	30	--	70	--	.0	--	--	--	7.3	9.0	53	800
JULY 19...	.2	--	--	--	--	--	--	--	.19	.22	7.4	9.2	61	24
AUG. 23...	.2	--	--	--	--	--	--	--	--	--	7.2	8.4	37	110

12352980 - BITTERROOT R. AT MACLAY BRIDGE NR MISSOULA, MON
WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	PH (UNITS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA, MG) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE- SIUM (MG)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED PO-TAS- SIUM (K) (MG/L)
OCT. 14...	995	8.0	7.4	260	--	--	--	90	94	--	--	26	6.0	--	.2	1.8
DEC. 09...	950	.0	7.2	185	--	--	--	--	89	--	--	--	--	--	.2	--
JAN. 06...	1410	.0	7.0	190	--	--	--	77	85	--	--	22	5.3	--	.2	1.9
FEB. 15...	600	2.5	7.4	180	--	--	--	--	74	--	--	--	--	--	.0	--
MAR. 21...	3970	5.0	6.6	105	--	--	--	--	42	--	--	--	--	--	.2	--
APR. 17...	2250	6.5	7.2	118	--	--	--	53	51	--	--	14	4.3	--	.3	1.4
MAY 16...	11900	10.0	6.7	50	53	38	1700	21	20	25	10	6.5	1.1	.7	.1	1.0
JUNE 13...	21300	11.0	6.4	60	--	--	--	--	25	--	--	--	--	--	.2	--
JULY 20...	5460	10.5	6.2	100	67	--	988	22	41	--	--	4.7	2.5	1.0	.1	--
AUG. 24...	2070	14.5	7.4	200	134	--	749	80	75	--	--	23	5.6	2.1	.2	--

DATE	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	AMMONIA (NH4) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT. 14...	.09	.14	--	0	10	0	20	0	.0	.0	--	.25	.080	.03	11.6	52
DEC. 09...	--	--	--	--	30	--	10	--	.3	--	--	--	--	--	13.6	1600
JAN. 06...	.17	.32	--	1	20	2	20	1	.2	.3	--	.03	.010	.08	12.0	13
FEB. 15...	--	--	--	--	10	--	20	--	.2	--	--	--	--	--	11.6	57
MAR. 21...	--	--	--	--	20	--	70	--	.0	--	--	--	--	--	11.0	145
APR. 17...	.01	.21	--	2	10	1	60	0	.2	--	--	.00	.000	.04	11.6	150
MAY 16...	.08	--	.2	--	--	--	40	--	--	--	3.7	.00	.000	--	9.6	4600
JUNE 13...	--	--	--	--	8	--	80	--	.0	--	--	--	--	--	9.4	490
JULY 20...	.02	.11	.3	--	--	--	--	--	--	--	6.6	.00	.000	--	9.2	490
AUG. 24...	--	--	.3	--	--	--	--	--	--	--	7.7	--	--	--	8.8	163

12388700 - FLATHEAD R. AT PERMA, MONT.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	DIS-SOLVED CAL- CIUM (CA) (MG/L)	DIS-SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS-SOLVED CHLO- RIDE (CL) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)	DIS-SOLVED PO- TAS- SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS-SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	AMMONIA (NH4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
OCT. 13...	7160	11.5	190	--	--	90	25	6.6	--	.1	.6	--	.00	.000	.03	.21
NOV. 10...	11100	4.5	185	--	--	--	--	--	--	.1	--	--	--	--	--	--
DEC. 15...	13700	.5	190	--	--	--	--	--	--	.0	--	--	--	--	--	--
JAN. 07...	13800	1.0	185	--	--	88	25	6.2	--	.1	.5	--	.00	.000	.08	.02
FEB. 10...	13000	.0	185	--	--	--	--	--	--	.1	--	--	--	--	--	--
MAR. 15...	14400	4.5	185	--	--	--	--	--	--	.1	--	--	--	--	--	--
APR. 13...	20400	4.5	180	--	--	97	28	6.5	--	.1	.4	--	.00	.000	.10	.00
MAY 03...	18700	7.0	185	--	--	--	--	--	--	.0	--	--	--	--	--	--
JUNE 09...	50300	15.0	175	--	--	--	--	--	--	.0	--	--	--	--	--	--
JULY 11...	18800	17.5	170	82	4160	82	24	5.6	.6	.0	--	4.3	.00	.000	--	.00
AUG. 17...	8100	21.0	180	114	2490	87	25	6.0	.8	.1	--	4.6	--	--	--	--

DATE	SODIUM AD- SORP- TION RATIO	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT. 13...	--	1	0	2	10	0	.2	.2	.17	7.8	10.2	91	25
NOV. 10...	--	--	30	--	0	--	.2	--	--	7.3	12.6	86	22
DEC. 15...	--	--	0	--	0	--	.3	--	--	7.7	13.2	88	32
JAN. 07...	--	0	10	5	0	1	.3	.3	.32	8.1	13.4	87	86
FEB. 10...	--	--	8	--	0	--	.7	--	--	8.1	13.2	87	15
MAR. 15...	--	--	10	--	0	--	.3	--	--	8.1	12.2	87	47
APR. 13...	--	1	8	0	10	3	.2	--	.09	8.1	12.0	87	4
MAY 03...	--	--	8	--	10	--	.1	--	--	8.2	11.6	85	10
JUNE 09...	--	--	8	--	10	--	.1	--	--	8.3	9.8	82	270
JULY 11...	.1	--	--	--	--	--	--	--	.11	8.0	9.0	86	27
AUG. 17...	.1	--	--	--	--	--	--	--	--	7.9	8.0	75	17

12391000 - CLARK FORK AT THOMPSON FALLS, MONT.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	DIS- SOLVED SOLIDS (RESI- DUE AT 180° C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NESIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	AMMONIA (NH4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)
OCT. 13...	10700	11.5	230	--	--	110	30	7.4	--	.2	.9	--	.03	.010	.01	.01
NOV. 10...	15400	3.5	230	--	--	--	--	--	--	.2	--	--	--	--	--	--
DEC. 15...	16600	.0	195	--	--	--	--	--	--	.1	--	--	--	--	--	--
JAN. 07...	17500	.0	220	--	--	100	30	6.8	--	.1	1.0	--	.00	.000	.08	.05
FEB. 10...	15400	.0	225	--	--	--	--	--	--	.2	--	--	--	--	--	--
MAR. 15...	24500	5.5	180	--	--	--	--	--	--	.2	--	--	--	--	--	--
APR. 13...	33500	5.5	195	--	--	95	27	6.6	--	.1	.7	--	.00	.000	.13	.00
MAY 03...	34000	8.0	175	--	--	--	--	--	--	.1	--	--	--	--	--	--
JUNE 09...	115100	14.0	140	--	--	--	--	--	--	.1	--	--	--	--	--	--
JULY 11...	34000	16.0	160	88	8080	77	22	5.4	.8	.1	--	7.8	.00	.000	--	.01
AUG. 17...	13000	19.5	210	126	4420	99	28	7.0	1.0	.2	--	11	--	--	--	--

DATE	SODIUM AD- SORP- TION RATIO	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	ALKA- LITY AS CACO3 (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT. 13...	--	1	10	0	10	0	.2	.2	.17	8.1	10.6	95	12
NOV. 10...	--	--	50	--	0	--	.4	--	--	7.7	13.0	94	30
DEC. 15...	--	--	20	--	0	--	.3	--	--	8.0	14.4	94	44
JAN. 07...	--	1	10	1	0	0	.2	.2	.42	7.8	13.8	90	20
FEB. 10...	--	--	20	--	20	--	.5	--	--	7.5	13.6	90	15
MAR. 15...	--	--	10	--	20	--	.7	--	--	7.9	12.6	75	54
APR. 13...	--	1	20	0	20	2	.3	--	.17	7.7	12.0	80	10
MAY 03...	--	--	20	--	20	--	.3	--	--	7.8	11.4	77	12
JUNE 09...	--	--	0	--	30	--	.1	--	--	7.7	10.2	62	330
JULY 11...	.1	--	--	--	--	--	--	--	.08	7.8	9.8	75	38
AUG. 17...	.1	--	--	--	--	--	--	--	--	7.8	8.8	81	10

12305000 - KOOTENAI RIVER AT LEONIA IDAHO

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO ₃ (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO ₄) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
OCT. 19...	5400	6.1	--	--	290	140	--	--	37	11	4.6	1.1	.5	3.3	.15	.050
NOV. 16...	5500	4.0	7.7	13.2	292	--	114	139	--	--	--	--	--	--	--	--
DEC. 07...	3910	.0	7.5	14.1	308	152	120	146	41	12	4.4	.5	.6	33	.18	.060
JAN. 10...	2790	14.1	7.8	14.1	308	150	120	146	41	12	4.0	1.3	1.1	32	.40	.13
FEB. 03...	3370	.1	6.7	14.5	314	160	124	151	43	13	5.1	.5	.8	30	.34	.11
MAR. 02...	10200	.8	6.4	13.9	156	74	64	78	20	5.8	1.8	.2	.8	13	.06	.020
APR. 11...	13400	5.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 01...	14400	6.3	6.7	12.7	211	100	90	110	27	8.1	2.1	.4	1.6	18	.00	.000
JUNE 13...	40500	9.5	6.6	12.1	156	78	76	93	22	5.5	.7	.2	.6	8.4	.03	.010
JULY 10...	7470	12.2	7.1	10.7	133	--	65	79	--	--	--	--	--	--	.00	.000
SEP. 06...	8800	19.0	--	--	--	--	--	--	--	--	--	--	--	--	.00	.000

DATE	AMMONIA (NH ₄) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	TOTAL BORON (B) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT. 19...	.22	.02	.22	.1	--	0	50	0	20	1	.2	--	210
NOV. 16...	--	--	--	--	--	--	--	--	--	--	--	--	950
DEC. 07...	.06	.00	.25	.2	--	1	90	--	30	1	.0	--	170
JAN. 10...	.09	.24	.36	.2	--	0	10	0	30	2	.4	--	1100
FEB. 03...	.06	.21	.25	.2	--	1	20	--	30	3	.3	--	260
MAR. 02...	.13	2.0	.30	.1	--	1	10	--	20	1	.3	--	570
APR. 11...	--	--	--	--	10	--	--	--	--	--	--	.2	--
MAY 01...	.04	.06	.09	.1	--	3	20	--	20	1	.1	--	209
JUNE 13...	.04	.15	.12	.0	--	1	10	--	20	4	.2	--	102
JULY 10...	.13	.01	.10	--	--	--	--	--	--	--	--	--	17
SEP. 06...	1.0	.00	.92	--	--	--	--	--	--	--	--	--	270

12318500 - KOOTENAI RIVER AT COPELAND, IDAHO
WATER QUALITY DATA, WATER YEAR CTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC CON- DUCTANCE (MICRO- MHOS)	HARD- NESS (CA, MG)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUC- RIDE (F) (MG/L)	DIS- SOLVED PC- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)
CCT. 19...	5720	7.0	8.3	12.0	280	135	110	134	36	11	3.8	.9	.3	29	.18	.060
NOV. 16...	5570	4.0	7.8	12.5	263	--	105	128	--	--	--	--	--	--	--	--
DEC. 07...	3240	1.0	7.3	13.0	293	143	113	138	39	11	3.7	1.1	.9	30	.28	.090
JAN. 10...	3000	.1	7.7	13.7	307	150	122	149	41	12	3.7	.4	1.1	31	.18	.060
FEB. 03...	2840	.0	6.8	13.5	283	140	114	139	38	12	4.0	.8	.9	26	.40	.13
MAR. 02...	5000	.0	6.0	13.4	137	65	54	66	18	4.9	1.7	.3	.8	13	.06	.020
APR. 11...	16000	5.2	6.8	12.3	166	81	74	90	22	6.3	1.2	.3	.8	13	.03	.010
MAY 01...	17400	8.5	6.8	11.9	179	89	79	96	25	6.7	1.2	.3	1.6	15	.03	.010
JUNE 13...	47600	9.5	6.6	11.4	146	71	64	78	21	4.5	.4	.3	.6	7.1	.00	.000

DATE	AMMONIA (NH4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	TOTAL BICRON (B) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
CCT. 19...	.26	.00	.21	.1	--	1	10	0	10	0	.1	--	84
NOV. 16...	--	--	--	--	--	--	--	--	--	--	--	--	250
DEC. 07...	.03	.00	.16	.1	--	0	10	--	20	0	.1	--	16
JAN. 10...	.09	.21	.27	.1	--	1	30	0	20	1	.4	--	370
FEB. 03...	.09	.29	.30	.2	--	2	20	--	50	14	.3	--	200
MAR. 02...	.15	.26	.32	.1	--	2	20	--	50	5	3.1	--	200
APR. 11...	.06	.07	.06	.1	20	6	20	3	60	3	.4	.1	48
MAY 01...	.04	.00	.08	.1	--	2	90	--	50	2	.0	--	13
JUNE 13...	.03	.10	.18	.0	--	2	10	--	40	4	.2	--	190

12392050 - CLARK FORK AT CLARK FORK, IDAHO

WATER QUALITY DATA, WATER YEAR CTOBER 1971 TO SEPTEMBER 1972

DATE	CIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	PH (UNITS)	DIS-SOLVED CYGEN (MG/L)	SPECI-FIC COND-UCTANCE (MICRO- MHOS)	HARD-NESS (CA,MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE- SIUM (MG)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUC-RIDE (F) (MG/L)	CIS-SOLVED PC-TAS- SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS- PHCRUS (P) (MG/L)
CCT. 20...	23500	10.1	7.7	9.5	210	100	96	117	28	7.9	1.7	.1	.5	15	.03	.010
NOV. 17...	13000	5.0	7.2	11.0	216	--	102	124	--	--	--	--	--	--	--	--
JAN. 11...	23300	1.4	7.9	13.5	212	110	95	116	30	7.4	.8	.0	1.1	14	.00	.000
FEB. 04...	21300	.2	6.3	12.6	208	100	90	110	29	7.2	1.3	.1	.9	14	.06	.020
MAR. 03...	29700	1.5	6.5	12.3	198	110	86	105	32	7.2	1.1	.2	1.1	15	.00	.000
APR. 12...	38100	5.8	6.7	14.3	175	85	79	96	24	6.2	.6	.2	.8	12	.00	.000
MAY 02...	40100	7.8	6.6	13.8	180	88	86	105	25	6.2	.7	.2	1.6	11	.00	.000
JUNE 14...	121000	14.0	6.6	13.2	132	--	66	80	--	--	--	--	--	--	--	--

DATE	AMMONIA (NH4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	TCTAL BORON (B) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME-DIATE COLI- FORM (COL. PER 100 ML)
CCT. 20...	.21	.02	.28	.2	--	2	60	5	0	2	.2	--	750
NOV. 17...	--	--	--	--	--	--	--	--	--	--	--	--	58
JAN. 11...	.04	.77	.21	.1	--	1	50	0	20	2	.3	--	4
FEB. 04...	.05	.08	.27	.1	--	2	8	--	10	0	.4	--	73
MAR. 03...	.15	.09	.26	.1	--	3	150	--	30	0	.3	--	80
APR. 12...	.08	.04	.07	.1	30	7	10	0	20	2	.2	.1	1
MAY 02...	.03	.15	.09	.1	--	6	20	--	20	1	.3	--	1
JUNE 14...	--	--	--	--	--	--	--	--	--	--	--	--	56

12413300 - S.F. COEUR D'ALENE RIVER NR. SMELTERVILLE

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC CONDO- UCTANCE (MICRO- MHOS)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUC- RIDE (F) (MG/L)
MAY 17...	2760	6.5	6.5	11.8	91	57	425	32	19	23	8.5	9.1	2.3	.3	.9
JULY 20...	319		6.7	10.9	>195	--	--	--	20	24	--	--	--	--	--
AUG. 17...	181	14.5	6.2	10.2	302	--	--	--	25	30	--	--	--	--	--

DATE	DIS- SOLVED PC- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	SODIUM AD- SORP- TION RATIO	IMME- DIATE COLI- FORM (COL. PER 100 ML)
MAY 17...	.6	25	.18	.1	--
JULY 20...	--	--	--	--	760
AUG. 17...	--	--	--	--	1100

12413810 - COEUR D'ALENE RIVER AT ROSE LAKE, IDAHO
WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUC- RIDE (F) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CRTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)
CCT. 27...	879	7.0	6.5	10.5	149	53	14	17	14	4.3	1.5	2.1	.6	39	.37	.12
NOV. 18...	672	5.0	6.4	11.2	131	42	16	19	11	3.6	1.1	1.4	1.0	40	.28	.090
DEC. 08...	378	1.0	6.4	12.3	146	48	18	22	13	3.9	1.1	2.3	1.3	46	1.3	.42
JAN. 12...	786	.8	6.3	12.1	167	59	14	17	16	4.6	1.7	1.5	1.0	54	1.3	.41
FEB. 07...	1560	.1	5.8	12.1	117	39	11	13	10	3.4	.9	1.0	.7	34	1.1	.35
MAR. 06...	9550	4.0	6.2	11.9	71	26	14	17	7.3	2.0	.8	.7	.7	17	.09	.030
APR. 03...	8730	4.0	6.3	12.2	54	23	15	18	6.2	1.9	.2	.3	.5	10	.09	.030
JUNE 14...	--	10.5	6.3	10.4	66	23	16	20	5.9	2.0	.2	.4	1.0	14	.00	.000
JULY 19...	--	16.0	6.4	9.7	91	--	22	27	--	--	--	--	--	--	--	--
AUG. 17...	762	18.5	6.3	10.2	152	--	17	21	--	--	--	--	--	--	--	--

DATE	AMMONIA (NH4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	IMME- DIATE COLI- FORM (COL. PER 100 ML)
CCT. 27...	.41	.15	.38	.2	810
NOV. 18...	.41	.18	--	.2	46
DEC. 08...	.28	.00	.43	.2	48
JAN. 12...	.33	.17	.54	.2	61
FEB. 07...	.73	.20	.65	.2	66
MAR. 06...	.18	.11	.28	.1	--
APR. 03...	.08	.00	.09	.1	33
JUNE 14...	.09	.03	.15	.1	46
JULY 19...	--	--	--	--	12
AUG. 17...	--	--	--	--	120

13037500 - SNAKE RIVER NEAR HEISE, IDAHO

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	PH (UNITS)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO ₃ (MG/L)	BICAR- BONATE (HCC ₃) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	SODIUM AD- SORP- TION RATIO
OCT. 15...	8.2	344	244	160	130	159	44	11	7.4	48	.00	.3
NOV. 15...	8.0	408	260	190	145	177	54	13	13	59	.13	.4
DEC. 15...	8.0	417	266	190	146	178	54	13	14	47	.06	.4
JAN. 15...	8.0	437	262	190	150	183	56	12	15	57	.11	.4
FEB. 15...	8.0	428	276	190	152	185	54	14	15	54	.19	.4
MAR. 15...	8.1	416	274	180	151	184	51	14	16	57	.18	.4
APR. 15...	8.1	384	282	180	137	167	53	12	10	54	.04	.4
MAY 15...	7.8	318	236	140	126	153	41	9.3	7.3	30	.13	.3
JUNE 15...	7.2	274	178	130	123	150	37	8.2	4.1	21	.10	.2
JULY 15...	7.1	282	164	130	113	138	38	8.9	5.0	24	.00	.2
AUG. 15...	7.3	301	196	130	116	141	37	9.4	5.7	31	3.8	.3
SEP. 15...	8.1	321	---	140	125	152	40	10	6.2	45	.03	.3

13C87900 - LAKE MILNER AT MILNER DAM, IDAHO

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
CCT. 12...	10100	13.5	8.5	8.6	393	180	149	163	49	14	15	.5	3.4	40	.21	.070
NOV. 30...	11700	2.5	8.4	10.8	423	170	158	163	46	14	17	.6	3.5	48	.09	.030
DEC. 14...	7540	.0	8.2	11.6	432	180	160	195	49	15	19	.8	3.5	38	.12	.040
JAN. 10...	6980	.5	8.4	12.2	459	200	169	200	52	16	20	.4	5.6	50	.06	.020
FEB. 15...	11500	.5	8.6	12.2	473	190	196	229	50	16	22	.8	3.9	43	.12	.040
APR. 18...	18000	6.0	8.7	10.9	428	190	186	203	53	15	17	.7	3.3	56	.00	.000
MAY 18...	11600	13.5	8.7	9.3	413	180	163	179	49	14	15	.7	2.9	46	.00	.000
JUNE 15...	20200	17.0	8.7	8.7	406	170	165	181	47	13	14	.4	2.9	33	.03	.010
SEP. 25...	6240	12.5	9.0	10.7	402	--	139	167	--	--	--	--	--	--	.03	--

DATE	AMMONIA (NH4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	TOTAL BORON (B) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
CCT. 12...	.15	.07	.21	.6	--	0	0	0	10	0	.4	--	54000
NOV. 30...	.19	.36	.40	.6	--	2	20	--	0	0	.0	--	3600
DEC. 14...	.31	.43	.60	.6	--	1	10	--	0	6	.3	--	3700
JAN. 10...	.13	.45	.51	.6	--	1	10	2	20	1	.3	--	1200
FEB. 15...	.19	.44	.53	.7	--	2	8	--	10	0	.8	--	6800
APR. 18...	.05	.01	.18	.6	280	1	7	30	10	2	.0	.1	8200
MAY 18...	.05	.00	.14	.5	--	1	20	--	10	6	.0	--	15
JUNE 15...	.14	.04	.37	.5	--	1	10	--	20	2	.0	--	25200
SEP. 25...	.08	.00	.77	--	--	--	--	--	--	--	--	--	160

13154500 - SNAKE RIVER AT KING HILL, IDAHO

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	PH (UNITS)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CaCO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	SODIUM AD- SORP- TION RATIO
OCT. 15...	8.0	471	238	180	173	211	42	18	20	50	.79	.9
NOV. 15...	8.1	479	294	190	174	212	46	18	21	52	1.0	.9
DEC. 15...	8.0	475	314	180	173	211	46	17	22	42	.76	.8
JAN. 16...	7.9	500	310	190	178	217	46	18	23	48	.90	.8
FEB. 15...	8.2	491	304	190	180	219	49	17	23	40	.84	.8
MAR. 15...	8.0	443	260	180	164	200	46	16	19	38	1.0	.8
APR. 15...	8.2	442	276	170	171	208	45	15	19	41	.34	.7
MAY 15...	8.1	469	308	180	164	200	44	16	20	49	.61	.8
JUNE 15...	7.9	427	280	170	160	195	44	14	17	45	.53	.7
JULY 15...	7.6	508	318	190	178	217	46	19	22	59	.92	1.0
AUG. 15...	8.1	537	358	200	184	224	47	21	25	60	1.2	1.0
SEP. 15...	8.0	531	324	190	189	230	42	21	24	52	1.1	1.0

13213000 - BOISE RIVER NEAR PARMA, IDAHO

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	TEMPERATURE (DEG C)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	HARDNESS (CA, MG) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED PC-TAS- SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED ORTHO-PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED ORTHO-PHOS-PHORUS (P) (MG/L)
OCT. 26...	1100	10.0	8.0	8.0	607	170	224	274	47	14	5.5	.7	4.1	67	.74	.24
NOV. 10...	911	9.0	8.2	10.0	634	180	221	269	48	15	19	.6	5.2	72	.77	.25
DEC. 15...	934	5.0	7.8	10.6	684	190	234	285	51	16	25	.7	4.8	78	.89	.29
JAN. 11...	916	6.0	8.2	10.8	606	180	213	260	48	14	20	.2	6.1	72	1.0	.33
FEB. 16...	6580	4.0	8.0	12.0	161	50	68	83	15	3.1	3.3	.4	1.6	14	.21	.070
MAR. 21...	6780	8.0	8.1	11.0	135	44	60	73	13	2.8	2.8	.3	1.4	11	.15	.050
APR. 24...	6420	9.5	8.0	10.2	127	42	54	66	13	2.4	2.4	.3	1.3	8.3	.21	.070
MAY 22...	6390	12.0	7.8	9.5	145	46	60	73	14	2.8	3.1	.2	1.4	12	.21	.070
JUNE 26...	3230	16.5	7.8	9.4	225	61	81	99	18	3.8	5.1	.4	2.1	18	.31	.10
JULY 18...	617	22.0	8.4	8.9	515	--	199	240	--	--	--	--	--	--	.80	.26
AUG. 24...	838	19.5	8.4	9.7	502	--	231	273	--	--	--	--	--	--	.80	.26
SEP. 20...	1010	14.0	8.4	9.9	494	--	194	234	--	--	--	--	--	--	.77	

DATE	AMMONIA (NH4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KjEL-DAHL NITRO-GEN (N) (MG/L)	SODIUM AD-SORP-TION RATIO	TOTAL BORON (B) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 26...	.62	.02	.97	2.2	--	2	20	4	20	0	.2	--	3700
NOV. 10...	.48	2.3	1.2	2.2	--	0	40	--	20	0	.1	--	2800
DEC. 15...	.57	2.6	1.7	2.3	--	6	10	--	10	2	.3	--	8400
JAN. 11...	.70	2.5	1.5	2.2	--	1	20	5	0	4	.4	--	47000
FEB. 16...	.30	.57	.67	.8	--	0	8	--	30	2	.4	--	15000
MAR. 21...	.10	.66	.40	.7	--	2	10	--	30	2	.1	--	1600
APR. 24...	.10	.41	.17	.6	80	1	7	1	50	2	.2	.1	1600
MAY 22...	.09	.46	.22	.8	--	1	8	--	50	1	.0	--	1500
JUNE 26...	.13	.65	.33	1.1	--	2	10	--	60	1	.0	--	1060
JULY 18...	.72	.02	.73	--	--	--	--	--	--	--	--	--	2600
AUG. 24...	.09	.00	.56	--	--	--	--	--	--	--	--	--	510
SEP. 20...	.10	.00	.76	--	--	--	--	--	--	--	--	--	170000

1325100C - PAYETTE RIVER NEAR PAYETTE, IDAHO

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	CIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	PH (UNITS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	SODIUM AD- SORP- TION RATIO
MAR. 16...	8530	8.5	7.2	70	57	1310	26	33	40	1.1	3.1	.28	.4
APR. 11...	5500	8.5	7.1	98	65	965	25	39	47	.9	4.0	.17	.5
MAY 16...	8250	11.5	7.6	94	61	1360	25	37	45	1.1	3.4	.29	.6
JUNE 13...	5550	11.5	7.7	75	54	1390	22	34	42	1.1	3.6	.16	.5
JULY 13...	1610	21.5	7.1	189	123	535	54	79	96	2.2	12	.26	1.1

DATE	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
MAR. 16...	17	7.6	1.6	.8	.1
APR. 11...	17	7.9	1.4	4.2	.2
MAY 16...	15	7.9	1.2	2.4	.4
JUNE 13...	13	7.0	1.0	1.3	.3
JULY 13...	18	16	3.4	3.0	.7

13269000 - SNAKE R AT WEISER IDAHO

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	SPECI-FIC COND-UCTANCE (MICRO- MHOS)	HARD-NESS (CA, MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED PC-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED ORTHO PHOS-PHORUS (P) (MG/L)
OCT.																
15...	22800	11.0	8.5	10.0	494	180	185	185	43	17	20	.5	4.1	58	.06	.020
NOV.																
16...	19900	6.0	8.2	11.4	490	--	163	175	45	16	19	.6	4.2	59	.18	.060
DEC.																
15...	23600	2.0	8.0	12.8	463	180	159	194	45	16	20	.7	3.5	48	.12	.040
JAN.																
18...	26700	3.0	8.3	12.4	426	160	151	182	41	14	17	.3	5.4	50	.06	.020
FEB.																
21...	36100	8.3	8.3	11.6	398	150	150	183	39	13	16	.6	3.8	43	.18	.060
MAR.																
22...	47900	9.5	8.1	10.8	282	97	156	190	26	7.8	9.9	.5	3.0	26	.15	.050
APR.																
19...	44800	7.5	8.5	11.2	348	130	136	156	34	11	14	.6	3.1	32	.03	.010
MAY																
23...	33800	14.0	8.7	10.4	311	110	112	124	27	9.4	11	.5	2.8	36	.00	.000
JUNE																
27...	23300	18.0	8.5	9.2	293	99	110	126	25	8.9	11	.5	2.9	31	.00	.000
JULY																
19...	5630	20.5	8.6	84.0	470	--	168	185	--	--	--	--	--	--	.00	.000
AUG.																
28...	12500	23.0	9.0	10.4	457	--	183	188	--	--	--	--	--	--	.06	.020
SEP.																
20...	15400	16.0	8.9	10.6	473	--	179	192	--	--	--	--	--	--	.18	--

DATE	AMMONIA (NH4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SODIUM AD-SORP-TION RATIO	TOTAL BICRBN (B) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.													
15...	.15	.76	.30	1.2	--	2	20	4	20	0	.4	--	1100
NOV.													
16...	.18	1.0	.41	1.1	--	0	30	--	10	0	.1	--	660
DEC.													
15...	.08	1.0	.54	1.0	--	2	20	--	10	3	.6	--	1400
JAN.													
18...	.12	.88	.40	.9	--	1	10	2	20	2	.3	--	1800
FEB.													
21...	.14	.82	.51	.9	--	1	20	--	20	1	.2	--	730
MAR.													
22...	.04	.66	.41	.8	--	2	10	--	20	1	.1	--	1700
APR.													
19...	.06	.27	.05	.8	70	1	10	0	20	2	.0	.0	560
MAY													
23...	.08	.28	.22	.9	--	1	20	--	20	2	.1	--	730
JUNE													
27...	.03	.23	.52	.9	--	1	20	--	20	3	.0	--	950
JULY													
19...	.04	.02	.63	--	--	--	--	--	--	--	--	--	2500
AUG.													
28...	.06	.00	.60	--	--	--	--	--	--	--	--	--	230
SEP.													
20...	.04	.00	1.0	--	--	--	--	--	--	--	--	--	240

13298500 - SALMON RIVER NEAR CHALLIS, IDAHO

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	PH (UNITS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT. 07...	1100	11.5	7.7	159	93	276	69	72	88	14	23	2.6	1.5	.4	.9	1.3
MAY 29...	7200	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	8870	7.5	--	85	--	--	--	--	--	--	--	--	--	--	--	--
31...	13000	7.0	7.2	94	59	2070	33	41	50	12	9.6	2.3	1.2	.2	1.5	4.4
JUNE 01...	12300	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	13600	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	13600	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04...	12400	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	8760	8.0	7.2	79	57	1350	35	38	46	12	12	1.2	.8	.3	.9	3.9
JULY 24...	2020	14.5	7.7	119	78	425	54	54	66	13	18	2.2	1.0	.5	.6	6.1

DATE	DIS- SOLVED ORTHO- PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	SCDIUM AD- SORP- TION RATIO	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
OCT. 07...	.00	.000	.11	.3	30	1	10	0	20	0	.2
MAY 29...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	.13	.2	--	--	--	--	--	--	--
JUNE 01...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
14...	.03	.010	.04	.2	20	3	30	0	80	7	.0
JULY 24...	.00	.000	.00	.2	0	1	70	0	50	1	.1

13343100 - CLEARWATER RIVER AT LEWISTON, IDAHO

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CAO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUC- RIDE (F) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
OCT. 28...	--	7.0	6.6	11.4	60	20	24	30	6.0	1.3	1.1	.1	.9	2.3	.03	.010
NOV. 19...	--	4.0	6.6	12.5	62	21	26	32	6.1	1.3	.6	.1	1.0	.8	.15	.050
DEC. 09...	--	1.0	6.7	13.8	87	29	30	37	8.0	2.1	1.2	.2	1.5	4.1	.09	.030
JAN. 13...	--	1.5	6.6	13.3	74	27	27	33	7.4	2.1	1.1	.0	1.6	3.7	.03	.010
FEB. 08...	--	.5	6.3	14.0	71	26	27	33	7.8	1.7	1.0	.1	1.2	3.1	.03	.010
MAR. 07... 21800		4.0	6.3	12.7	80	28	25	31	7.9	2.1	1.3	.2	1.7	5.0	.21	.070
APR. 05... 25500		5.0	6.4	13.6	37	14	18	22	4.2	.9	.7	.0	.8	2.2	.00	.000
MAY 04... 32500		7.5	6.6	12.6	38	13	18	22	3.7	.9	.3	.1	.8	2.9	.00	.000
JUNE 07... 78400		11.5	6.1	12.0	163	4	8	10	1.6	.1	.1	.1	.3	2.1	.00	.000

DATE	AMMONIA (NH4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SCRP- TION RATIC	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT. 28...	.09	.01	.24	.3	1	210	0	40	1	.2	130
NOV. 19...	.13	1.1	.29	.3	1	20	--	60	0	1.2	240
DEC. 09...	.09	.00	.29	.4	2	20	--	80	0	.0	150
JAN. 13...	.08	.64	.40	.3	1	10	1	90	3	.5	730
FEB. 08...	.18	.64	.50	.3	0	40	--	80	1	.6	170
MAR. 07...	.17	2.2	1.1	.3	4	10	--	80	3	.5	--
APR. 05...	.05	.09	.26	.2	1	50	2	80	1	.3	71
MAY 04...	.04	.04	.11	.2	6	20	--	40	1	.0	39
JUNE 07...	.08	.16	.19	.1	2	30	--	40	4	.2	370

13343500 - SNAKE RIVER NR. CLARKSTON
WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC CON- CENTR- ATION (MICRO- MHOS)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- UENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
CCT.																
14...	--	14.5	7.8	--	391	300	246	130	133	162	22	31	12	14	.4	3.6
28...	37000	10.5	8.0	10.8	399	--	--	130	130	159	--	32	12	15	.5	4.0
NOV.																
19...	34600	8.5	8.1	11.7	416	--	--	140	140	171	--	36	13	15	.5	3.6
DEC.																
09...	37600	4.0	7.6	12.4	441	--	--	152	101	123	--	38	14	17	.5	3.8
JAN.																
13...	34900	2.0	7.9	13.7	373	--	--	140	128	156	--	35	12	15	.4	5.0
20...	--	2.5	8.0	--	359	244	222	130	128	156	23	31	12	14	.4	3.5
FEB.																
08...	48500	3.5	6.8	13.7	341	--	--	120	112	136	--	30	10	13	.3	3.1
MAR.																
03...	--	4.5	7.7	--	240	170	158	85	85	104	26	22	7.2	9.1	.4	2.9
07...	100000	5.0	6.4	13.1	196	--	--	83	70	85	--	20	8.0	7.9	.3	2.3
APR.																
04...	107000	7.0	6.8	12.5	141	--	--	52	54	66	--	14	4.2	4.9	.2	1.7
18...	--	8.0	7.5	--	194	198	129	72	70	85	21	19	5.9	7.3	1.2	2.2
MAY																
04...	88900	11.0	7.2	11.8	143	--	--	52	54	66	--	14	4.2	4.3	.3	3.0
JUNE																
08...	159800	10.5	6.6	11.6	350	--	--	12	16	20	--	3.7	.6	.1	.1	.5
09...	--	14.5	7.4	--	57	69	45	23	25	31	10	5.2	2.4	1.0	.1	.8

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	AMMONIA (NH4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SCRIP- TION RATIO	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
CCT.														
14...	49	--	--	--	.66	--	1.2	--	--	--	--	--	--	--
28...	38	.15	.050	.06	.64	.40	1.1	1	190	1	10	1	.3	130
NOV.														
19...	51	.21	--	--	--	.42	1.1	--	--	--	--	--	--	120
DEC.														
09...	--	--	--	.12	--	--	1.0	1	--	--	20	1	--	14
JAN.														
13...	31	.09	.030	.08	1.3	.42	.9	1	40	5	20	2	.3	65
20...	36	--	--	--	.86	--	.9	--	--	--	--	--	--	--
FEB.														
08...	32	.18	.060	.21	.88	.38	.8	3	20	--	40	2	.3	49
MAR.														
03...	21	--	--	--	.92	--	.7	--	--	--	--	--	--	--
07...	44	.18	.060	.15	1.5	.64	.6	1	40	--	70	2	.4	--
APR.														
04...	11	.00	.000	.09	.07	.26	.5	1	30	6	90	0	.3	58
18...	17	--	--	--	.45	--	.6	--	--	--	--	--	--	--
MAY														
04...	12	.03	.010	.06	.00	.14	.4	4	8	--	20	0	.1	47
JUNE														
08...	2.9	.00	.000	.01	.01	.15	.2	1	10	--	40	2	.3	730
09...	6.5	--	--	--	.04	--	.3	--	--	--	--	--	--	--

12031000 - CHEHALIS R. AT PORTER

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	HARD- NESS (CA, MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL KJEL- CAHL NITRO- GEN (N) (MG/L)	SODIUM AC- SORP- TION RATIO	DIS- SOLVED COPPER (CU) (UG/L)
OCT.																
04...	13.5	7.3	9.3	86	28	30	37	7.5	2.3	5.9	1.5	5.3	.010	.17	.4	—
26...	9.0	6.9	10.6	74	24	25	30	6.4	2.0	7.0	1.1	5.3	.010	—	.4	12
NOV.																
02...	6.3	7.1	11.4	71	22	25	31	5.9	1.8	5.4	.9	4.0	.020	—	.4	200
29...	8.0	7.2	10.6	44	14	17	21	3.6	1.1	3.7	.6	3.0	.020	.57	.5	—
DEC.																
06...	5.5	7.3	11.3	54	16	16	19	4.3	1.2	3.0	.6	2.3	.010	.39	.4	5
20...	5.8	7.1	11.4	54	17	17	21	4.5	1.5	3.3	1.0	4.3	.000	.39	.4	3
JAN.																
03...	3.8	7.2	12.4	57	17	19	23	4.6	1.4	3.7	.7	3.8	.010	—	.4	1
17...	5.5	6.7	11.4	52	21	16	20	5.5	1.7	3.1	.8	3.0	.010	.12	.3	2
FEB.																
01...	—	7.3	12.8	60	19	19	23	4.7	1.7	3.4	.7	4.7	.000	.35	.4	3
14...	5.6	7.3	11.5	46	14	16	20	3.4	1.4	3.4	.3	3.3	.010	.39	.4	11
MAR.																
06...	6.7	6.6	11.5	41	12	16	19	3.0	1.0	2.3	.7	.1	.010	.74	.4	8
20...	8.7	6.5	10.3	60	19	23	28	5.0	1.6	3.4	.5	2.8	.010	.28	.3	3
28...	—	—	—	—	—	—	—	—	—	—	—	—	.010	.15	—	—
APR.																
03...	8.7	—	—	64	20	24	29	5.3	1.6	3.2	.9	3.4	.020	.43	.4	1
17...	7.4	—	—	57	17	24	29	4.5	1.4	3.4	.7	3.5	.010	.20	.4	8
MAY																
01...	9.5	—	—	55	18	24	29	4.7	1.7	2.9	.6	3.7	.010	.36	.4	2
15...	15.5	—	—	74	24	30	37	6.3	2.1	4.7	.6	2.8	.010	.18	.4	2
JUNE																
05...	16.9	—	—	81	28	31	38	7.3	2.3	3.3	.6	2.9	.000	.18	.4	1
19...	18.1	—	—	—	—	—	—	—	—	—	—	—	.020	1.5	—	—
JULY																
05...	21.0	—	—	—	—	—	—	—	—	—	—	—	.020	.54	—	—
31...	21.0	—	—	91	30	34	41	7.7	2.7	5.0	.7	3.1	.020	.22	.5	2
AUG.																
14...	17.8	—	—	93	31	35	43	8.0	2.7	4.9	.6	4.5	.010	.33	.5	1
SEP.																
05...	18.4	—	—	—	—	—	—	—	—	—	—	—	.030	.18	—	—

DATE	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT.				
04...	—	—	—	200
26...	40	340	2.2	1200
NOV.				
02...	30	280	1900	5600
29...	—	—	—	4000
DEC.				
06...	20	1	.4	4000
20...	60	2	2.2	1000
JAN.				
03...	120	1	.4	350
17...	8	1	.3	600

DATE	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
FEB.				
01...	20	1	.4	1300
14...	20	23	.1	2500
MAR.				
06...	0	4	.6	1300
20...	30	4	.2	500
28...	—	—	—	—
APR.				
03...	0	0	.1	—
17...	20	92	.7	—
MAY				
01...	8	1	.0	—
15...	70	5	.2	—

DATE	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
JUNE				
05...	8	8	1.6	—
19...	—	—	—	—
JULY				
05...	—	—	—	—
31...	0	2	.2	—
AUG.				
14...	0	2	.1	—
SEP.				
05...	—	—	—	—

12101500 - PUYALLUP R. AT PUYALLUP

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TEMPERATURE (DEG C)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	HARDNESS (CA, MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED PO-TAS- SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS-SOLVED COPPER (CU) (UG/L)
CCT.																
06...	12.8	6.2	9.8	86	32	31	38	8.4	2.6	4.7	1.6	8.5	.010	.11	.3	—
28...	5.5	7.2	11.8	80	29	30	36	8.3	2.0	2.4	1.3	2.5	.010	—	.3	20
NOV.																
04...	7.5	7.1	11.1	54	44	21	26	12	3.4	2.6	1.8	4.8	.010	—	.3	350
22...	5.6	7.2	11.7	90	30	31	38	8.4	2.2	3.8	1.5	5.3	.010	.52	.4	0
DEC.																
09...	4.3	7.4	12.2	53	18	16	20	5.2	1.3	1.9	1.4	5.2	.010	.78	.3	9
22...	4.5	7.5	12.0	71	25	23	28	6.8	1.9	2.1	1.6	7.8	.030	.40	.3	10
JAN.																
05...	4.0	7.5	13.3	70	23	24	29	6.4	1.6	3.3	1.2	7.2	.010	.21	.4	1
19...	5.4	7.3	12.0	66	24	21	26	6.3	2.0	2.1	1.6	4.9	.020	.24	.3	4
FEB.																
03...	1.6	7.3	13.6	76	24	25	30	6.7	1.8	1.9	1.0	7.7	.020	.30	.3	3
16...	6.3	7.3	11.6	51	17	18	22	4.7	1.3	2.2	.8	4.0	.040	.42	.3	3
MAR.																
08...	4.9	--	--	49	16	20	24	4.7	1.1	1.1	.6	.1	.010	.14	.3	4
22...	7.6	--	--	52	18	24	29	5.2	1.2	1.0	.8	5.2	.010	.16	.4	3
APR.																
19...	7.2	--	--	63	23	25	30	6.3	1.7	1.4	.8	5.3	.010	.05	.3	1
MAY																
03...	10.0	--	--	66	23	26	32	6.7	1.6	1.9	1.3	5.2	.010	.41	.3	1
17...	8.8	--	--	49	14	21	25	4.2	1.0	2.0	.7	3.4	.010	.25	.3	2
JUNE																
07...	10.2	--	--	43	17	16	19	5.1	1.0	.7	.5	3.9	.000	.18	.3	2
22...	10.2	--	--	--	--	--	--	--	--	--	--	--	.010	.36	--	--
JULY																
06...	12.3	--	--	--	--	--	--	--	--	--	--	--	.030	.22	--	--
AUG.																
02...	13.0	--	--	55	25	20	24	6.6	2.0	2.0	.8	5.4	.010	.11	.3	4
16...	12.0	--	--	65	25	23	28	7.4	1.6	2.2	.8	7.9	.030	.22	.3	2
SEP.																
07...	12.1	--	--	--	--	--	--	--	--	--	--	--	.050	.73	--	--

DATE	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	DATE	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	DATE	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT.					FEB.					JUNE				
06...	--	--	--	1600	03...	20	4	.4	4000	07...	20	6	.1	--
28...	30	680	8.1	4000	16...	8	2	.3	1600	22...	--	--	--	--
NOV.					MAR.					JULY				
04...	40	170	2.7	6000	08...	0	57	.8	--	06...	--	--	--	--
22...	60	0	.1	16000	22...	7	5	.1	--	AUG.				
DEC.					APR.					02...	0	0	.2	--
09...	20	80	3.2	8000	19...	8	2	.4	--	16...	10	3	.2	--
22...	30	96	6.3	4000	MAY					SEP.				
JAN.					03...	20	4	.2	--	07...	--	--	--	--
05...	80	1	.7	1500	17...	0	3	.0	--					
19...	20	1	.3	2500										

12399500 - COLUMBIA R. AT INTERNATIONAL BOUNDARY

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED CYGEN (MG/L)	SPELI- FIC CCND- UCTANCE (MICRO- MPOS)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	CIS- SOLVED PO- TAS- SIUM (K) (MG/L)	CIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
OCT.																
13...	13.8	8.5	10.8	190	92	71	64	78	--	21	4.5	1.3	--	1.0	12	.030
20...	11.5	7.8	11.2	150	98	71	67	82	--	21	4.6	3.0	--	.2	--	.010
NOV.																
10...	7.1	7.6	12.8	135	92	71	61	74	--	21	4.4	.5	--	.7	13	.030
16...	7.5	7.6	--	147	98	68	60	73	4.1	20	4.3	.5	.1	.6	13	--
17...	7.5	7.9	12.8	148	90	67	62	76	--	20	4.2	1.0	--	1.0	13	.040
FEB.																
09...	1.4	--	13.8	170	96	78	66	81	--	23	5.0	1.2	--	.9	16	.040
23...	2.9	7.6	13.7	182	148	84	71	87	--	25	5.3	2.2	--	1.0	21	.060
MAR.																
15...	4.8	7.7	14.0	175	86	80	71	87	--	24	5.0	.9	--	1.0	17	.030
29...	4.6	--	--	168	126	84	71	87	--	25	5.3	1.2	--	.9	15	.010
APR.																
12...	5.2	--	--	165	148	76	65	79	--	22	5.1	.7	--	.8	16	.030
26...	8.1	--	--	168	108	79	67	82	--	23	5.2	1.6	--	1.2	16	.030
MAY																
10...	12.2	--	--	155	104	69	62	76	--	20	4.6	1.0	--	.9	15	.010
24...	10.0	--	--	142	144	59	57	69	--	17	4.0	.4	--	.5	12	.000
JUNE																
14...	10.6	--	--	144	92	68	58	71	--	20	4.3	.6	--	.9	12	.010
28...	11.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	.000
JULY																
26...	14.8	--	--	129	84	61	53	65	--	18	3.9	1.0	--	.7	8.8	.010
AUG.																
23...	17.9	--	--	128	88	61	53	65	--	18	3.9	.1	--	.5	13	.010

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT.								APR.							
13...	.15	.1	1	10	6	.4	200	12...	.06	.1	4	30	8	.6	--
20...	.12	.1	2	50	5	.2	1200	26...	.16	.1	2	80	9	.2	--
NOV.								MAY							
10...	.10	.1	1	50	5	1.2	100	10...	.15	.1	1	20	7	.0	--
16...	--	.1	--	--	--	--	--	24...	.42	.1	0	10	0	.2	--
17...	.26	.1	0	60	0	.1	250	JUNE							
FEB.								14...	.47	.0	5	10	9	.7	--
09...	.08	.1	1	40	6	.3	160	28...	.36	--	--	--	--	--	--
23...	.25	.1	3	210	10	1.0	170	JULY							
MAR.								26...	.11	.1	2	30	2	.3	--
15...	.28	.1	1	40	5	.7	200	AUG.							
29...	.24	.1	1	40	8	.0	--	23...	.12	.1	1	20	8	.4	--

12433000 - SPOKANE R. AT LONG LAKE

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHCS)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CaCO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL KJEL- CAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED COPPER (CU) (UG/L)
CCT.																
13...	13.7	7.9	4.9	160	74	70	85	18	7.0	2.6	1.9	5.8	.040	.12	.2	1
20...	12.2	7.7	6.7	160	76	75	92	19	7.0	3.4	1.4	11	.020	—	.2	2
NOV.																
10...	8.2	7.5	7.5	152	74	70	85	18	7.1	2.3	1.4	2.9	.060	.30	.2	0
17...	6.7	8.0	8.0	160	70	68	83	17	6.8	3.0	1.5	11	.060	.69	.2	—
DEC.																
15...	2.9	7.1	—	150	64	62	76	16	5.9	2.2	1.1	13	.050	.47	.2	8
JAN.																
12...	2.4	7.5	9.9	145	60	58	71	15	5.5	2.2	1.8	11	.060	—	.2	1
FEB.																
09...	1.1	—	13.1	83	43	39	48	11	3.9	1.8	1.7	10	.040	.47	.2	2
23...	3.0	7.6	14.2	112	46	39	47	12	4.0	2.9	1.9	11	.050	.74	.2	1
MAR.																
19...	4.4	7.3	16.9	76	28	27	33	7.6	2.3	.9	1.1	11	.020	.57	.2	1
29...	4.0	—	—	71	28	24	29	7.7	2.2	.9	1.1	11	.010	.38	.2	2
APR.																
12...	5.9	—	—	72	28	26	32	7.5	2.3	1.3	1.0	10	.000	.47	.2	3
26...	7.2	—	—	78	31	29	35	7.8	2.7	1.0	1.3	8.8	.000	.30	.1	2
MAY																
10...	10.5	—	—	73	29	28	34	7.4	2.6	2.0	1.0	7.8	.000	.34	.2	2
24...	11.8	—	—	57	22	20	24	6.1	1.7	.4	.6	6.2	.000	.26	.2	1
JUNE																
14...	14.4	—	—	57	22	23	28	5.9	1.8	.7	.6	6.8	.000	.54	.1	2
28...	16.0	—	—	—	—	—	—	—	—	—	—	—	.000	.30	—	—
JULY																
26...	16.5	—	—	135	60	53	65	15	5.4	2.0	1.1	7.5	.020	.58	.1	1
AUG.																
09...	20.2	—	—	—	—	—	—	—	—	—	—	—	.010	.74	—	—
23...	18.4	—	—	163	70	61	74	17	6.7	2.0	1.2	17	.030	.68	.2	1

DATE	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	DATE	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT.					APR.				
13...	30	2	.1	800	12...	330	27	.9	—
20...	20	2	.5	50	26...	260	16	.3	—
NOV.					MAY				
10...	70	0	.1	100	10...	190	13	.0	—
17...	—	—	—	20	24...	170	11	.2	—
DEC.					JUNE				
15...	150	2	.3	20	14...	130	7	.1	—
JAN.					28...	—	—	—	—
12...	140	5	.1	20	JULY				
FEB.					26...	60	2	.4	—
09...	230	4	.3	400	AUG.				
23...	250	5	1.6	200	09...	—	—	—	—
MAR.					23...	30	2	.5	—
15...	380	10	.3	1400					
29...	420	28	.1	—					

12472600 - CRAB CREEK NR. BEVERLY

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHCS)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED CHLC- RIDE (CL) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT.																
11...	16.6	8.5	10.6	840	230	285	348	44	29	34	16	120	.060	.20	2.9	2000
18...	10.7	8.4	12.6	850	230	280	341	44	30	33	14	120	.020	.26	2.7	800
NOV.																
08...	4.9	8.3	14.3	910	240	296	361	48	30	45	19	140	.070	.17	3.1	250
15...	8.9	8.5	13.5	960	250	311	379	49	31	50	16	150	.070	.86	3.3	130
DEC.																
13...	.6	8.3	13.9	940	250	290	354	49	32	49	13	140	.12	.76	3.0	350
27...	.1	8.2	14.2	960	280	306	373	53	35	51	15	150	.10	.73	3.1	200
JAN.																
24...	1.4	8.4	14.0	939	260	296	361	53	32	47	14	150	.060	.45	2.7	--
FEB.																
21...	6.7	8.4	12.1	960	260	319	389	52	32	50	15	150	.12	1.1	3.2	200
MAR.																
13...	13.5	7.3	11.2	943	240	298	363	45	31	49	14	150	.060	1.5	3.1	600
27...	11.3	--	--	933	240	283	345	44	31	46	14	140	.010	1.1	3.1	--
APR.																
10...	14.4	--	--	868	240	259	316	44	31	44	12	130	.040	.88	2.8	--
24...	16.5	--	--	870	240	246	300	45	30	46	17	140	.050	.78	2.7	--
MAY																
08...	12.3	--	--	850	210	250	305	37	28	44	13	130	.070	2.4	3.0	--
22...	17.9	--	--	1220	270	298	363	51	35	62	17	230	.040	4.0	4.5	--
JUNE																
12...	18.8	--	--	845	230	256	312	44	28	39	12	120	.060	1.4	2.6	--
26...	21.3	--	--	--	--	--	--	--	--	--	--	--	.060	1.8	--	--
JULY																
24...	23.5	--	--	783	210	228	278	39	27	37	12	110	.010	2.1	2.6	--
AUG.																
07...	31.2	--	--	766	200	227	277	39	26	37	11	110	.010	3.9	2.5	--
21...	27.7	--	--	--	--	--	--	--	--	--	--	--	.060	1.6	--	--

12510500 - YAKIMA R. AT KIONA

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	HARD- NESS (CA, MG)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED CHLC- RIDE (CL) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SC4) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT.																
05...	15.3	7.6	9.6	313	120	131	160	29	11	4.6	2.9	32	.090	.14	.8	3000
19...	10.6	7.7	9.8	292	110	124	151	27	10	4.2	3.3	27	.060	.17	.7	1000
NOV.																
16...	8.2	8.0	11.0	265	--	--	--	--	--	--	--	--	--	--	--	1200
DEC.																
07...	2.9	8.0	12.2	268	93	108	132	23	8.7	5.6	2.9	17	.090	.27	.8	900
14...	--	--	--	244	89	98	120	22	8.3	6.2	2.3	15	.000	.23	.7	--
JAN.																
10...	3.6	8.0	12.2	230	80	94	114	19	8.0	5.4	2.9	13	.080	.45	.7	--
FEB.																
01...	.0	7.8	13.5	187	67	80	97	16	6.6	4.0	2.2	9.7	.060	.33	.5	60
08...	2.0	8.2	12.2	350	130	133	162	32	12	14	3.2	35	.050	.51	.8	20
22...	5.5	7.9	11.4	160	57	67	82	14	5.4	3.7	1.9	6.8	.030	.65	.5	1400
MAR.																
14...	--	--	--	113	43	55	67	11	3.7	2.2	1.8	4.5	.040	.90	.4	--
APR.																
04...	9.4	--	--	107	41	48	59	10	3.8	2.3	1.4	4.1	.040	.62	.4	--
11...	10.0	--	--	106	40	51	62	9.7	3.9	1.3	1.2	5.1	.020	.24	.4	--
18...	9.6	--	--	107	42	48	59	11	3.6	1.6	1.2	4.3	.040	.15	.4	--
MAY																
10...	12.0	--	--	120	47	54	66	12	4.1	2.3	1.4	5.3	.040	.46	.4	--
23...	15.3	--	--	117	47	52	64	12	4.2	2.1	1.3	4.9	.050	.53	.4	--
JUNE																
13...	16.8	--	--	130	50	59	72	13	4.2	1.8	1.5	6.4	.080	.45	.4	--
27...	19.6	--	--	130	51	60	73	13	4.4	2.1	1.4	6.7	.000	.33	.4	--
JULY																
25...	23.3	--	--	297	110	125	152	29	10	5.0	3.1	19	.050	.63	.7	--
AUG.																
08...	27.5	--	--	327	120	137	167	30	11	6.7	3.7	21	.060	.68	.8	--
22...	21.5	--	--	--	--	--	--	--	--	--	--	--	.070	.36	--	--
SEP.																
12...	16.0	--	--	--	--	--	--	--	--	--	--	--	.080	.53	--	--

14244200 - COWLITZ R. AT KELSO

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL KJEL- CAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED COPPER (CU) (UG/L)
OCT.																
04...	13.7	7.2	10.2	79	22	21	26	6.7	1.2	9.6	1.1	2.3	.000	.16	.6	—
26...	9.7	7.2	11.2	55	17	21	26	5.3	1.0	3.3	.6	4.8	.000	.08	.3	0
NOV.																
02...	8.4	7.2	11.5	47	15	21	26	4.6	.8	2.3	.6	3.0	.010	.11	.3	120
29...	8.7	7.3	11.0	44	17	16	19	4.8	1.2	2.9	.5	2.3	.010	.40	.3	2
DEC.																
06...	7.3	7.3	11.8	45	12	15	18	3.5	.9	2.2	.5	2.3	.000	.22	.4	2
20...	6.7	6.9	11.8	51	16	20	24	4.7	1.1	2.1	.8	3.3	.010	.21	.3	1
JAN.																
03...	4.8	7.3	12.4	51	16	20	24	4.6	1.0	2.9	.6	2.5	.000	—	.3	1
17...	5.6	7.0	12.2	50	18	19	23	5.4	1.2	2.1	.7	2.1	.010	.02	.3	1
FEB.																
01...	3.5	7.2	13.1	53	17	20	24	4.7	1.2	2.2	.7	4.0	.010	.35	.3	3
14...	4.8	6.9	12.3	50	14	16	20	4.1	.9	2.3	.3	1.8	.010	.10	.3	4
MAR.																
06...	6.3	6.6	12.2	37	9	15	18	2.8	.6	1.2	.6	.1	.010	.35	.4	8
20...	6.7	7.0	12.8	44	15	21	25	4.5	.8	1.8	.4	2.8	.010	.16	.3	2
APR.																
03...	7.5	—	—	50	15	21	26	4.7	.9	1.8	.9	2.8	.020	.29	.3	0
17...	6.6	—	—	49	15	21	25	4.7	.9	2.3	.4	2.3	.010	.23	.3	1
MAY																
01...	9.2	—	—	53	17	20	24	5.0	1.1	4.3	.7	2.5	.000	.46	.3	1
15...	9.6	—	—	45	15	21	26	4.5	.9	3.0	.4	1.4	.000	.13	.3	2
JUNE																
05...	11.1	—	—	47	18	21	26	5.4	1.0	1.8	.3	2.6	.000	.11	.2	0
19...	18.3	—	—	—	—	—	—	—	—	—	—	—	.000	.23	—	—
JULY																
05...	16.1	—	—	—	—	—	—	—	—	—	—	—	.000	.45	—	—
17...	14.8	—	—	120	19	39	47	5.8	1.0	3.0	.4	2.3	.000	.16	.3	4
31...	17.0	—	—	87	24	20	24	7.5	1.2	13	.4	2.0	.010	.06	.6	1
AUG.																
14...	15.1	—	—	88	25	22	27	8.0	1.2	12	.5	5.7	.010	.20	.6	1
SEP.																
05...	15.4	—	—	—	—	—	—	—	—	—	—	—	.020	.13	—	—

DATE	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT.				
04...	—	—	—	100
26...	50	0	.2	400
NOV.				
02...	30	240	2700	500
29...	20	0	.3	1000
DEC.				
06...	10	1	.5	800
20...	0	2	.4	200
JAN.				
03...	30	1	.4	150
17...	8	1	.3	170

DATE	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
FEB.				
01...	0	1	.4	150
14...	50	5	.2	700
MAR.				
06...	20	16	.8	600
20...	30	6	.6	200
APR.				
03...	0	0	.0	—
17...	8	3	.2	—
MAY				
01...	8	2	.3	—
15...	40	5	.3	—

DATE	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
JUNE				
05...	10	2	.2	—
19...	—	—	—	—
JULY				
05...	—	—	—	—
17...	30	8	1.6	—
31...	10	0	.1	—
AUG.				
14...	20	3	.1	—
SEP.				
05...	—	—	—	—

11492200 - CRATER LAKE NR CRATER LAKE OREG

WATER QUALITY DATA, WATER YEAR CTOBER 1971 TO SEPTEMBER 1972

DATE	TEMP- ERATURE (DEG C)	PH (UNITS)	SPECI- FIC CCND- LCTANCE (MICRO- MHOS)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED CHLC- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED PC- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED IRON (FE) (UG/L)
CCT. 16...	11.0	6.9	117	82	26	33	40	19	6.8	2.3	10	.1	1.6	11	.06	.9	0
JUNE 30...	--	6.9	118	79	28	27	33	19	6.8	2.6	9.0	.1	1.7	11	.63	.8	10

13331500 - MINAM RIVER NEAR MINAM, OREGON

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	CIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BCNATE (HCC3) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED CHLC- RIDE (CL) (MG/L)	DIS- SOLVED FLUD- RIDE (F) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
OCT. 19...	88	4.0	7.5	8.8	53	51	12.1	21	30	37	19	6.4	1.1	.3	.1	.8
JAN. 04...	35	.0	7.4	—	73	71	6.71	31	34	42	30	8.7	2.3	1.0	.0	2.0
FEB. 07...	—	.5	7.4	—	57	57	—	24	30	36	24	6.6	1.9	1.2	.0	1.1
JUNE 02...	3620	6.0	7.7	—	25	32	313	10	15	18	12	3.2	.6	.0	.0	.6
AUG. 01...	246	15.6	7.5	9.3	35	34	—	13	18	22	13	3.8	.8	1.0	.0	.8

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	AMMONIA (NH4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	SODIUM AD- SRP- TICN RATIO	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT. 19...	2.3	.05	.02	.2	0	20	1	10	0	37
JAN. 04...	2.5	—	.16	.2	—	—	—	440	—	—
FEB. 07...	1.3	—	.06	.2	—	—	—	60	—	—
JUNE 02...	5.3	—	.03	.2	—	—	—	70	—	—
AUG. 01...	2.0	—	.01	.2	—	—	—	40	—	—

DATE	ALDRIN (UG/L)	LINCANE (UG/L)	CHLOR- CANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	DI- AZINON (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
OCT. 19...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

14034500 - WILLOW CREEK AT HEPPNER ORE
WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TEMP- ERATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPECI- FIC CON- DUCTANCE (MICRO- MHOS)	ALKA- LINITY AS CaCO3 (MG/L)	BICAR- BONATE (HCC3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
MAR. 21...	--	--	--	--	--	--	3.6	.220	.15	.050	.32	.45	8.0	--
21...	7.8	8.1	11.0	150	67	82	--	--	--	--	--	--	--	1020
APR. 25...	8.2	8.4	11.4	185	91	--	5.0	.100	--	--	.16	--	14	1400
JUNE C8...	18.0	7.9	9.4	275	146	--	6.2	.090	.18	.060	.13	.36	4.0	14800
JULY 13...	23.2	7.2	13.2	475	239	292	14	.210	--	--	.32	.55	6.0	800
AUG. 18...	11.8	8.0	10.4	480	285	348	31	.520	--	--	2.2	.71	3.5	2200

14105700 - COLUMBIA RIVER NEAR THE DALLES, OREGON
WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TEMP- ERATURE (DEG C)	PH (UNITS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CaCO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED IRON (FE) (UG/L)
CCT. 16...	--	7.6	168	101	78	71	86	6.3	23	5.1	2.5	.2	1.1	14	.12	.3	140
JAN. 05...	5.0	8.0	222	131	91	84	102	11	25	6.5	4.8	.1	1.8	21	.32	.4	120
FEB. 18...	2.8	7.7	207	130	92	78	95	14	26	6.6	5.9	.3	1.7	18	.55	.4	220
MAR. 31...	7.8	7.5	155	99	63	62	76	15	17	5.0	2.3	.2	1.6	13	.33	.3	60
MAY 09...	12.5	7.7	165	102	72	64	78	11	20	5.4	2.8	.2	3.1	14	.05	.3	130
JULY 05...	18.5	6.7	129	76	52	42	51	7.1	15	3.6	1.0	.2	.9	9.0	2.6	.2	--
AUG. 09...	21.5	7.5	130	81	62	54	66	5.1	18	4.2	4.5	.1	1.0	11	.34	.2	100

14191000 - WILLAMETTE RIVER AT SALEM, OREGON

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	PH (UNITS)	SPECI- FIC CONC- UCTANCE (MICRO- MHOS)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED IRON (FE) (UG/L)
OCT. 06...	--	--	6.8	57	51	21	25	30	16	6.3	2.5	.44	--	.4	40
DEC. 22...	--	--	6.2	61	45	22	16	20	15	5.4	3.2	.45	--	.3	220
MAR. 22...	--	7.0	6.7	47	39	17	18	22	15	4.2	2.6	.17	.27	.3	40
22... 55000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
APR. 26...	--	11.0	6.9	46	41	16	18	22	14	4.1	3.7	.17	--	.3	40
JUNE 08...	--	--	7.6	52	43	18	19	23	15	4.6	3.4	.17	--	.4	90
AUG. 15...	--	--	6.2	65	53	20	15	18	16	5.3	7.3	1.0	--	.5	200

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUC- RIDE (F) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
OCT. 06...	1.4	3.2	.2	.6
DEC. 22...	2.0	3.1	.0	1.0
MAR. 22...	1.5	1.0	.1	.5
22...	--	--	--	--
APR. 26...	1.3	3.1	.4	.6
JUNE 08...	1.5	2.0	.2	.5
AUG. 15...	1.6	4.1	.1	.7

WATER QUALITY DATA, WATER YEAR CTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	TEMP- ERATURE (DEG C)	PH (UNITS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED IRON (FE) (UG/L)
OCT.															
21...	--	9.8	7.1	175	--	184	--	--	68	63	77	--	16	--	--
NOV.															
23...	--	8.0	7.4	117	11.2	100	--	--	45	45	56	--	11	--	--
DEC.															
29...	--	4.0	--	95	11.8	85	--	--	36	37	45	--	8.1	--	--
JAN.															
26...	--	5.0	7.3	67	12.2	--	61	--	35	30	37	17	9.0	.2	40
FEB.															
23...	8740	6.5	7.6	79	12.4	82	--	1940	38	34	42	--	8.9	--	--
MAR.															
22...	--	10.4	7.1	89	10.1	72	--	--	35	39	48	--	8.2	--	--
APR.															
19...	--	8.0	7.1	89	--	71	--	--	40	41	50	--	9.2	--	--
JUNE															
01...	--	18.8	6.9	88	8.7	62	--	--	38	37	45	--	9.9	--	--
29...	--	25.5	8.0	132	10.9	92	--	--	49	62	75	--	12	--	--
JULY															
25...	--	23.6	8.0	166	9.2	116	--	--	60	60	73	--	14	--	--
AUG.															
24...	--	25.0	8.2	192	9.8	--	113	--	69	67	67	9.8	16	.5	150

DATE	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED CHLO- RIDE (CL)	DIS- SOLVED FLUC- RIDE (F)	DIS- SOLVED FO- TAS- SIUM (K)	DIS- SOLVED SULFATE (SO4)	DIS- SOLVED ORTHO PHOS- PHATE (PO4)	DIS- SOLVED ORTHO. PHOS- PHORUS (P)	AMMONIA (NH4)	NITRITE PLUS NITRATE (N)	TOTAL KJEL- DAHL NITRO- GEN (N)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT.											
21...	6.8	--	--	--	--	--	--	.21	.12	--	
NOV.											
23...	4.2	--	--	--	--	--	--	.44	.00	.70	16400
DEC.											
29...	3.9	--	--	--	--	--	--	.14	.00	.35	1600
JAN.											
26...	3.1	3.7	.0	.8	4.7	.03	.010	.05	.16	--	3200
FEB.											
23...	3.8	--	--	--	--	--	--	.17	.03	--	10600
MAR.											
22...	3.5	--	--	--	--	--	--	.21	.10	--	14000
APR.											
19...	4.2	--	--	--	--	--	--	.05	.04	--	1000
JUNE											
01...	3.3	--	--	--	--	--	--	.01	.01	.09	1420
29...	4.7	--	--	--	--	--	--	.03	.09	--	1300
JULY											
25...	6.0	--	--	--	--	--	--	--	.10	--	3100
AUG.											
24...	7.1	14	.1	1.3	12	.77	.25	.30	.20	--	10800

14312260 - S UMPQUA R NR ROSEBURG OREG
 WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

PESTICIDE DATA

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPCXIDE (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
NCV. 23...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
FEB. 23...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUNE 29...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	TEMPERATURE (DEG C)	PH (UNITS)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA, MG) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	SODIUM ADSORPTION RATIO	DIS-SOLVED IRON (FE) (UG/L)
OCT. 12...	1400	15.0	7.1	80	64	242	30	34	41	20	7.6	2.6	.11	--	.4	20
JAN. 18...	37300	6.5	7.0	70	60	6040	28	33	40	16	7.1	2.6	.14	.93	.3	30
FEB. 18...	31000	8.0	6.8	50	46	3850	20	21	26	15	5.7	1.5	.04	1.1	.3	30
APR. 17...	--	9.0	7.2	69	59	--	29	29	36	17	7.1	2.8	.00	--	.3	60
MAY 16...	6700	16.0	7.1	61	54	977	28	27	33	18	7.7	2.2	.04	.19	.3	90
JUNE 29...	--	21.0	7.6	79	68	--	27	34	42	20	6.9	2.3	.04	1.1	.7	130
AUG. 08...	1100	--	7.7	74	61	181	23	33	40	20	5.7	2.2	.01	.58	.5	10

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DIS-SOLVED ORTHO PHOSPHORUS (P) (MG/L)	AMMONIA (NH4) (MG/L)
OCT. 12...	3.6	.3	1.0	3.3	.03	.010	.15
JAN. 18...	4.9	.1	.5	3.7	.00	.000	.27
FEB. 18...	2.8	.0	.5	3.0	.86	.28	.46
APR. 17...	3.2	.0	.7	6.4	.00	.000	.03
MAY 16...	1.6	.0	.8	3.5	.00	.000	.13
JUNE 29...	4.4	.0	1.3	4.1	.06	.020	.26
AUG. 08...	2.6	.2	1.2	4.5	.06	.020	.12

