CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE | TIME | DIS-CHARGE (CFS) | DIS-SOLVED SILICA (SIO2) (MG/L) | DIS-SOLVED IRON (FE) (UG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | NITRITE PLUS NITRATE (N) (MG/L) | DIS-SOLVED BORON (B) (UG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS (MG/L) | DIS-SOLVED SOLIDS (TONS PER AC-FT) | DIS-SOLVED SOLIDS (TONS PER DAY) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SODIUM AD-SORP-TION RATIO | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 04... | 1615 | 11 | 5.1 | 20 | 46 | 14 | 2.5 | .5 | 216 | 0 | 7.8 | 1.2 | .3 | .10 | 10 | 184 | .25 | 5.07 | 170 | 0 | .1 | 329 | 8.2 | 4.5 |
| NOV. 08... | 1530 | 7.2 | 5.2 | -- | 45 | 14 | 2.0 | .5 | 213 | 0 | 4.5 | 1.2 | .1 | .24 | 10 | 178 | .24 | 3.48 | 170 | 0 | .1 | 324 | 8.2 | 1.0 |
| DEC. 01... | 1300 | 6.2 | 5.8 | 60 | 50 | 16 | 2.6 | .7 | 237 | 0 | 13 | .8 | .3 | .11 | 10 | 206 | .28 | 3.79 | 190 | 0 | .1 | 367 | 8.0 | .0 |
| JAN. 17... | 1515 | 5.3 | 5.3 | 60 | 47 | 15 | 2.2 | .7 | 228 | 0 | 5.3 | .8 | .0 | .05 | 20 | 189 | .26 | 2.60 | 180 | 0 | .1 | 321 | 8.1 | 1.0 |
| MAR. 08... | 1100 | 4.3 | 5.6 | 10 | 48 | 15 | 2.6 | .6 | 224 | 0 | 5.6 | 1.4 | .0 | .03 | 0 | 189 | .26 | 2.14 | 180 | 0 | .1 | 329 | 8.2 | 1.0 |
| APR. 09... | 0900 | 5.0 | 5.6 | 10 | 50 | 17 | 3.0 | .8 | 229 | 0 | 8.1 | 1.9 | .1 | .07 | 20 | 200 | .27 | 2.86 | 190 | 7 | .1 | 363 | 8.1 | 1.5 |
| MAY 15... | 1620 | 36 | 5.7 | 50 | 54 | 13 | 2.9 | 1.4 | 220 | 0 | 7.0 | .9 | .5 | .07 | 20 | 194 | .26 | 18.5 | 190 | 8 | .1 | 345 | 8.1 | 6.0 |
| JUNE 12... | 1300 | 109 | 4.3 | 30 | 45 | 12 | 1.5 | .5 | 198 | 0 | 6.1 | 2.0 | .0 | .00 | 10 | 169 | .23 | 49.7 | 160 | 0 | .1 | 298 | 7.8 | 6.0 |
| JULY 10... | 1555 | 38 | 6.3 | 40 | 43 | 13 | 1.6 | .6 | 209 | 0 | 5.9 | 1.2 | .0 | .06 | 20 | 175 | .24 | 17.5 | 160 | 0 | .1 | 300 | 8.3 | 10.0 |
| AUG. 07... | 1500 | 19 | .0 | 40 | 44 | 14 | 1.6 | .6 | 202 | 0 | 5.7 | 1.0 | .0 | .00 | 20 | 166 | .23 | 8.52 | 170 | 2 | .1 | 308 | 8.2 | 10.0 |
| SEP. 05... | 1845 | 12 | 4.8 | 50 | 45 | 14 | 1.8 | .5 | 205 | 0 | 6.7 | 1.3 | .1 | .01 | 10 | 175 | .24 | 5.67 | 170 | 2 | .1 | 314 | 8.1 | 7.0 |

| DATE | TIME | DIS-CHARGE (CFS) | DIS-SOLVED ARSENIC (AS) (UG/L) | DIS-SOLVED CAD-MIUM (CD) (UG/L) | DIS-SOLVED CHRO-MIUM (CR) (UG/L) | DIS-SOLVED COPPER (CU) (UG/L) | DIS-SOLVED LEAD (PB) (UG/L) | DIS-SOLVED ZINC (ZN) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| APR. 09... | 0900 | 5.0 | 6 | 0 | 0 | 2 | 3 | 30 | -- |
| JUNE 12... | 1300 | 109 | 0 | 0 | 0 | 1 | 3 | 8 | .0 |

| DATE | TIME | DIS-CHARGE (CFS) | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | HEPTA-CHLOR (UG/L) | HEPTA-CHLOR EPOXIDE (UG/L) | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | PARA-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 04... | 1615 | 11 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| SEP. 05... | 1845 | 12 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | TIME | DIS-CHARGE (CFS) | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 04... | 1615 | 11 | <.2 | <.2 | <1.0 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 |
| SEP. 05... | 1845 | 12 | <.2 | <.2 | <1.0 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 |

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE | TIME | DIS-CHARGE (CFS) | BIO-CHEM-ICAL OXYGEN DEMAND (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | DIS-SOL-VED-PHOS-PHORUS (P) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) |
|---|---|---|---|---|---|---|
| OCT. 04... | 1615 | 11 | 1.4 | .030 | -- | -- |
| NOV. 08... | 1530 | 7.2 | 2.5 | .050 | -- | -- |
| DEC. 01... | 1300 | 6.2 | 2.2 | -- | -- | -- |
| JAN. 17... | 1515 | 5.3 | 2.2 | .020 | -- | -- |
| MAR. 08... | 1100 | 4.3 | 1.0 | -- | .010 | -- |
| APR. 09... | 0900 | 5.0 | 1.0 | -- | .020 | -- |
| MAY 15... | 1620 | 36 | .9 | -- | .020 | -- |
| JUNE 12... | 1300 | 109 | .8 | -- | .010 | -- |
| JULY 10... | 1555 | 38 | .9 | -- | .020 | -- |
| AUG. 07... | 1500 | 19 | 1.0 | -- | .010 | -- |
| SEP. 05... | 1845 | 12 | 1.0 | -- | .030 | 2.9 |

FIELD DETERMINATIONS

| DATE | TIME | DIS-SOLVED OXYGEN (MG/L) | PH (UNITS) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | IMME-DIATE COLI-FORM (COL. PER 100 ML) |
|---|---|---|---|---|---|
| OCT. 04... | 1615 | 12.1 | 8.4 | 325 | 9 |
| NOV. 08... | 1430 | 11.5 | 8.4 | 315 | 44 |
| DEC. 01... | 1300 | 11.8 | 8.4 | 340 | 1 |
| JAN. 17... | 1515 | 10.7 | 8.6 | 289 | 190 |
| MAR. 08... | 1100 | 10.9 | 8.5 | 353 | 0 |
| APR. 09... | 0900 | 10.4 | 8.6 | 362 | 4 |
| MAY 15... | 1620 | 9.7 | 8.5 | 300 | 14 |
| JUNE 12... | 1300 | 10.4 | 8.4 | 310 | 2 |
| JULY 10... | 1555 | 10.0 | 8.6 | 316 | 11 |
| AUG. 07... | 1500 | 11.5 | 8.6 | -- | 3 |
| SEP. 05... | 1845 | 9.6 | 8.9 | 311 | 8 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE | TIME | TEMPER-ATURE (DEG C) | DIS-CHARGE (CFS) | SUS-PENDED SEDI-MENT (MG/L) | SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY) | SUS. SED. FALL DIAM. % FINER THAN .004 MM | SUS. SED. FALL DIAM. % FINER THAN .016 MM | SUS. SED. FALL DIAM. % FINER THAN .062 MM | SUS. SED. FALL DIAM. % FINER THAN .125 MM | SUS. SED. FALL DIAM. % FINER THAN .250 MM |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 04... | 1615 | 4.5 | 11 | 4 | .12 | -- | -- | -- | -- | -- |
| NOV. 08... | 1430 | 1.0 | 7.2 | 4 | .08 | -- | -- | -- | -- | -- |
| DEC. 01... | 1300 | .0 | a6.2 | 18 | .30 | -- | -- | -- | -- | -- |
| JAN. 17... | 1515 | 1.0 | 5.3 | 42 | .60 | -- | -- | -- | -- | -- |
| MAR. 08... | 1100 | 1.0 | 4.3 | 12 | .14 | -- | -- | -- | -- | -- |
| APR. 09... | 0900 | 1.5 | 5.0 | 4 | .05 | -- | -- | -- | -- | -- |
| MAY 15... | 1620 | 6.0 | 36 | 132 | 13 | 28 | 39 | 78 | 89 | 100 |
| JUNE 12... | 1300 | 6.0 | 109 | 134 | 39 | -- | -- | -- | -- | -- |
| JULY 10... | 1555 | 10.0 | 38 | 40 | 4.1 | -- | -- | -- | -- | -- |
| AUG. 07... | 1500 | 10.0 | 19 | 12 | .62 | -- | -- | -- | -- | -- |
| SEP. 05... | 1845 | 7.0 | 12 | 16 | .52 | -- | -- | -- | -- | -- |

a Daily mean discharge.