

CHRISTINA RIVER BASIN

01479677 UNNAMED POND ABOVE UNNAMED TRIB. TO WEST BRANCH RED CLAY CREEK AT KENNETT SQUARE, PA  
(New Garden Township, Chester County, Spray Irrigation Project)

WATER-QUALITY RECORDS

LOCATION.--Lat 39°50'55", long 75°43'43", Chester County, Hydrologic unit 02040205.

DRAINAGE AREA.--0.07 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1998 to current year.

REMARKS.-- Depth intergrated samples collected with a grab sample prior to July 7, 1999 and by a peristaltic pump from July 29, 1999 to current year.  
Other data for this project presented in tables on pages 310-313 and 499-542.

WATER-QUALITY DATA, MAY 1998 TO SEPTEMBER 1999

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	PH WATER WHOLE LAB (STAND-ARD) (UNITS) (00403)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
MAY 1998											
19...	1120	80020	1028	--	7.3	7.2	393	25.5	47	11	3.2
OCT 05...	1200	80020	1028	11.4	8.9	7.2	420	16.0	47	12	3.8
FEB 1999											
16...	1200	80020	1028	13.0	7.9	7.6	304	7.5	36	7.8	5.4
MAY 03...	1130	80020	1028	15.0	8.2	7.4	365	15.5	44	9.6	4.0
JUN 02...	1300	9813	1028	7.5	7.9	--	440	27.0	--	--	--
JUL 07...	1230	9813	1028	--	8.3	--	350	27.0	59	17	3.0
29...	1500	9813	1028	29.5	8.5	--	328	25.0	--	--	--
AUG 26...	1400	9813	1028	8.0	8.8	--	287	22.0	--	--	--
SEP 27...	1200	9813	1028	9.0	7.9	--	230	20.0	28	5.8	5.0

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD IT FIELD (MG/L AS CACO3) (00419)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE (MG/L AS SO4) (00946)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)
MAY 1998											
19...	8.1	62	28	<.10	9.2	--	35	.138	1.0	--	--
OCT 05...	9.6	--	36	<.10	8.0	--	37	.051	1.1	--	--
FEB 1999											
16...	6.1	58	20	.12	9.1	--	26	<.020	.69	--	--
MAY 03...	7.5	71	27	.15	5.5	--	32	.032	1.5	--	--
JUN 02...	--	88	--	--	--	--	--	.130	--	.160	16
JUL 07...	31	82	25	.29	4.7	32	--	.020	--	.030	4.2
29...	--	68	--	--	--	--	--	<.020	--	.040	2.2
AUG 26...	--	53	--	--	--	--	--	.050	--	.050	1.7
SEP 27...	3.7	61	11	<.20	<1.1	17	--	<.020	--	<.020	5.1

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01479677 UNNAMED POND ABOVE UNNAMED TRIB. TO WEST BRANCH RED CLAY CREEK AT KENNETT SQUARE, PA--Continued

## WATER-QUALITY DATA, MAY 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	ALUM- INUM, DIS- SOLVED (MG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (MG/L AS SB) (01095)	ARSENIC DIS- SOLVED (MG/L AS AS) (01000)
MAY 1998 19...	10.8	10.9	12	.076	<.010	.011	.079	254	<10	1.7	<1
OCT 05...	5.77	5.80	6.9	.030	.013	.010	.050	254	<10	--	--
FEB 1999 16...	8.18	8.21	8.9	.035	<.050	<.010	.070	195	<10	--	--
MAY 03...	9.30	9.38	11	.080	<.050	.016	.082	244	17	--	--
JUN 02...	7.34	--	--	<.040	.026	.002	.120	--	--	--	--
JUL 07...	3.14	--	4.1	.070	.037	.016	.180	288	--	--	--
29...	1.42	--	3.2	<.040	.025	.006	.260	--	--	--	--
AUG 26...	.840	--	2.8	<.040	.037	.005	.280	--	--	--	--
SEP 27...	4.69	--	5.5	<.040	.033	.017	.070	206	--	<2.0	<4
n DATE	BARIUM, DIS- SOLVED (MG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (MG/L AS BE) (01010)	BORON, DIS- SOLVED (MG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CADMIUM DIS- SOLVED (MG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (MG/L AS CR) (01030)	COBALT, DIS- SOLVED (MG/L AS CO) (01035)	COPPER, DIS- SOLVED (MG/L AS CU) (01040)	IRON, DIS- SOLVED (MG/L AS FE) (01046)	LEAD, DIS- SOLVED (MG/L AS PB) (01049)	LITHIUM DIS- SOLVED (MG/L AS LI) (01130)
MAY 1998 19...	91	<1.0	<16	--	<8.0	<1.0	<12	1.1	<10	<1.0	<4
OCT 05...	--	--	<16	--	--	--	--	--	110	--	--
FEB 1999 16...	--	--	E11	--	--	--	--	--	<10	--	--
MAY 03...	--	--	E14	--	--	--	--	--	E5.0	--	--
JUN 02...	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	--	--	<200	<.20	--	--	--	--	700	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
AUG 26...	--	--	--	--	--	--	--	--	--	--	--
SEP 27...	32	--	<200	<.20	<.20	<4.0	--	<4.0	<20	<1.0	74
DATE	MANGA- NESE, DIS- SOLVED (MG/L AS MN) (01056)	MERCURY DIS- SOLVED (MG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (MG/L AS MO) (01060)	NICKEL, DIS- SOLVED (MG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (MG/L AS SE) (01145)	SILVER, DIS- SOLVED (MG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (MG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (MG/L AS V) (01085)	ZINC, DIS- SOLVED (MG/L AS ZN) (01090)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
MAY 1998 19...	29	<.1	<60	<1.0	<1	<1.0	170	<10	<20	4.2	--
OCT 05...	6.6	--	--	--	--	--	--	--	<20	6.5	--
FEB 1999 16...	18	--	--	--	--	--	--	--	<20	2.7	--
MAY 03...	12	--	--	--	--	--	--	--	<20	4.3	--
JUN 02...	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	162	--	--	--	--	--	--	--	13	5.3	--
29...	--	--	--	--	--	--	--	--	--	--	--
AUG 26...	--	--	--	--	--	--	--	--	--	--	--
SEP 27...	<10	<.2	--	<4.0	<7	--	85	--	<10	3.2	3.5