12113390 DUWAMISH RIVER AT GOLF COURSE, AT TUKWILA, WA

WATER-QUALITY RECORDS

LOCATION.--Lat 47°28'45", long 122°15'27", in NE 1/4 SW 1/4 sec.14, T.23 N., R.4 E., King County, Hydrologic Unit 17110012, on left bank at footbridge, 0.5 mi downstream from Black River confluence, at Tukwila, 10.4 mi upstream from mouth.

DRAINAGE AREA.--461 mi^2.

PERIOD OF RECORD.--March 1996 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1996 to September 1999 (discontinued).
WATER TEMPERATURE: March 1996 to September 1999 (discontinued).

REMARKS.--During periods of low flow, river stage and water-quality parameters are affected to an unknown degree by daily tide cycle.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 386 microsiemens Sept 8. 1999, but may have been higher during periods of missing record; minimum, 34 microsiemens Jan. 2, 1999, but may have been lower during periods of missing record.
TEMPERATURE: Maximum, 23.5°C July 25, 1996; minimum, 1.0°C Dec. 22-23, 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV													
13...	1110	913	758	9.4	82	7.5	92	--	9.2	32	39	0	3.73
DEC													
13...	1020	2020	753	11.0	91	7.5	95	8.1	6.8	32	40	0	4.85
JAN													
11...	1040	3500	771	11.7	94	7.8	57	8.6	6.4	21	25	0	2.23
FEB													
12...	1220	1740	774	11.8	91	7.4	101	10.3	5.0	34	42	0	6.15
MAR													
12...	1110	2100	762	11.3	93	7.5	86	6.6	6.8	31	38	0	3.35
APR													
09...	1120	2590	759	10.9	93	7.5	66	10.5	8.4	26	32	0	2.68
MAY													
13...	1310	1780	772	10.4	92	7.3	71	11.6	10.5	27	33	0	3.08
JUN													
11...	1310	1550	767	9.6	89	7.3	85	19.1	12.3	27	33	0	5.52
JUL													
08...	1120	1420	773	10.1	97	7.5	67	17.9	14.1	27	33	0	2.84
AUG													
05...	1040	414	768	7.8	78	7.5	191	17.7	15.8	58	70	0	19.3
SEP													
10...	1510	468	765	9.2	95	7.5	151	25.7	16.9	49	59	0	12.1

Date	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, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)
NOV													
13...	2.8	<.04	.20	.28	E.004	.47	<.02	.048	<.002	<.004	<.002	<.005	<.007
DEC													
13...	4.4	.04	.26	.62	E.006	.88	.02	.073	--	--	--	--	--
JAN													
11...	2.4	<.04	.15	.38	<.008	.53	E.02	.054	<.006	<.006	<.004	<.005	<.007
FEB													
12...	4.1	E.02	.12	.61	<.008	.74	E.02	.039	--	--	--	--	--
MAR													
12...	3.7	<.04	.33	.54	E.006	.86	.02	.097	<.006	<.006	<.004	<.005	.060
APR													
09...	2.7	E.02	.20	.24	<.008	.44	.03	.011	<.006	<.006	<.004	<.005	<.007
MAY													
13...	2.4	<.04	.27	.15	<.008	.43	<.02	.027	<.006	<.006	<.004	<.005	<.007
JUN													
11...	2.2	<.04	E.09	.13	<.008	--	<.02	.027	<.006	<.006	<.004	<.005	<.007
JUL													
08...	2.4	<.04	.18	.17	E.004	.35	E.01	.049	<.006	<.006	<.004	<.005	<.007
AUG													
05...	4.2	E.02	.16	.38	E.006	.54	E.02	.054	<.006	<.006	<.004	<.005	<.007
SEP													
10...	3.7	<.04	.17	.27	<.008	.44	E.02	.055	<.006	<.006	<.004	<.005	<.007

12113390 DUWAMISH RIVER AT GOLF COURSE, AT TUKWILA, WA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
NOV													
13...	<.010	<.002	E.033	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.02	<.002	<.009
DEC													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
11...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.02	<.002	<.009
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
12...	<.010	<.002	E.230	<.020	<.005	<.018	<.003	E.003	.010	<.005	<.02	<.002	<.009
APR													
09...	<.010	<.002	E.006	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.02	<.002	<.009
MAY													
13...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.02	<.002	<.009
JUN													
11...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.02	<.002	<.009
JUL													
08...	<.010	<.002	E.006	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.02	<.002	<.009
AUG													
05...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.02	<.002	<.009
SEP													
10...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.02	<.002	<.009

Date	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)
NOV													
13...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
DEC													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
11...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
12...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010
APR													
09...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010
MAY													
13...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010
JUN													
11...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010
JUL													
08...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.009	<.006	<.002	<.007	<.003	<.010
AUG													
05...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010
SEP													
10...	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010

12113390 DUWAMISH RIVER AT GOLF COURSE, AT TUKWILA, WA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
NOV													
13...	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02
DEC													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
11...	<.004	<.022	<.006	<.011	M	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
12...	<.004	<.022	<.006	<.011	M	<.004	<.010	<.011	<.02	.006	<.02	<.034	<.02
APR													
09...	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
MAY													
13...	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
JUN													
11...	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
JUL													
08...	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	.017	<.02	<.034	<.02
AUG													
05...	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
SEP													
10...	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02

Date	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV						
13...	U	<.005	<.002	<.009	11	27.1
DEC						
13...	--	--	--	--	24	131
JAN						
11...	U	<.005	<.002	<.009	27	255
FEB						
12...	--	--	--	--	9.0	42.3
MAR						
12...	U	<.005	<.002	<.009	27	153
APR						
09...	--	<.005	<.002	<.009	20	140
MAY						
13...	--	<.005	<.002	<.009	16	76.9
JUN						
11...	--	<.005	<.002	<.009	10	41.9
JUL						
08...	--	<.005	<.002	<.009	15	57.5
AUG						
05...	--	<.005	<.002	<.009	5.0	5.6
SEP						
10...	--	<.005	<.002	<.009	5.0	6.3