



Water-Data Report 2006

12113347 MILL CREEK AT EARTHWORKS PARK, AT KENT, WA

Puget Sound Basin
Duwamish Subbasin

LOCATION.--Lat 47°23'00", long 122°13'25" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.19, T.22 N., R.5 E., King County, WA, Hydrologic Unit 17110013, at control-manhole of flood-detention basin in Earthworks Park, 250 ft upstream from Titus St., and 0.6 mi east of Kent City Hall.

DRAINAGE AREA.--2.49 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is NGVD of 1929 (City of Kent benchmark).

REMARKS.--Record rated poor. Natural flow affected by urbanization and construction of flood-control catchments. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--12 years (water year 1995-2006), 3.83 ft³/s, 20.90 in/yr, 2,770 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined Feb. 9, 1996, elevation, 47.52 ft, affected by backwater from debris caught on downstream culvert grates; maximum elevation, 48.05 ft, May 13, 1996, affected by backwater from debris caught on downstream culvert grates; minimum discharge, 0.31 ft³/s, July 5, 1995, Aug. 12, 1997, but may have been lower during periods of culvert maintenance.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft³/s, Dec 25, gage height, 44.88 ft; maximum gage height, 45.31 ft, Jan 10; minimum discharge, 0.56 ft³/s, Jul 25.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.81	13	3.2	12	15	3.9	3.9	2.3	3.9	0.90	0.77	0.78
2	1.8	7.7	5.4	10	15	2.5	2.0	1.8	10	0.90	0.77	0.76
3	1.1	5.8	4.1	7.8	12	2.1	2.5	1.6	3.6	0.95	0.78	0.77
4	0.83	4.8	2.7	4.9	13	1.8	2.2	1.4	8.1	0.82	0.77	0.76
5	0.84	8.6	2.2	15	8.8	1.8	1.8	1.4	3.6	0.76	0.75	0.76
6	1.6	7.0	1.9	16	5.3	1.8	1.6	1.5	2.3	0.76	0.74	0.76
7	1.4	4.1	1.7	16	3.8	1.8	1.6	1.6	1.8	0.76	e0.75	0.77
8	0.90	2.2	1.5	12	6.0	4.6	3.2	1.4	1.6	0.74	e0.78	0.77
9	0.82	1.6	1.4	16	3.7	3.5	2.2	1.3	2.0	0.78	e0.75	0.77
10	0.82	1.4	1.3	26	2.9	3.5	1.7	1.3	1.5	0.78	0.75	0.76
11	1.6	3.5	1.2	31	2.5	2.3	1.6	1.3	1.4	0.79	0.74	0.75
12	0.83	2.9	1.2	33	2.3	1.9	1.7	1.2	3.0	0.84	0.74	0.75
13	1.1	12	1.1	26	5.1	1.8	3.7	1.2	4.4	e0.85	e0.74	0.91
14	1.1	7.8	1.0	23	3.1	2.3	10	1.1	2.5	e1.0	e0.74	2.6
15	2.2	4.5	e1.0	16	2.5	2.0	6.5	1.1	1.7	e0.94	e0.74	0.86
16	1.0	2.6	e1.0	15	2.2	1.8	4.9	1.0	4.9	e0.88	e0.72	0.97
17	0.83	1.9	1.2	15	2.0	2.5	3.2	0.95	2.6	e0.86	e0.87	0.82
18	0.80	1.7	1.2	8.5	1.9	9.6	2.4	0.93	1.7	0.82	e0.82	4.4
19	0.94	1.5	1.6	6.7	1.8	4.2	2.1	0.94	1.4	0.81	e0.80	1.8
20	0.77	1.3	2.3	12	1.7	2.8	1.9	0.98	1.3	0.80	e0.79	2.7
21	0.76	1.2	4.7	9.7	1.8	2.3	8.1	1.3	1.2	0.80	e0.76	5.4
22	0.76	1.1	7.0	6.7	1.7	2.3	3.5	3.2	1.2	0.82	e0.76	2.3
23	1.1	1.1	11	4.5	2.2	2.1	2.4	2.8	1.1	0.80	e0.75	1.0
24	0.86	1.1	18	3.7	1.9	3.1	2.0	4.6	1.1	0.78	e0.80	0.87
25	0.87	10	18	4.1	1.7	2.0	1.7	5.9	1.1	0.78	e0.81	0.84
26	0.82	7.2	14	3.7	1.7	1.9	1.6	3.3	1.1	0.80	e0.80	0.82
27	0.86	4.9	17	4.2	3.3	1.8	1.5	3.7	1.0	0.78	e0.77	0.80
28	1.6	2.9	16	9.8	9.0	2.3	1.5	7.4	0.97	0.78	e0.80	0.80
29	1.3	5.6	13	13	---	1.9	5.1	3.2	0.94	0.77	0.78	0.81
30	1.3	3.2	15	25	---	1.8	4.7	2.0	0.92	0.79	0.78	0.81
31	9.5	---	15	18	---	2.0	---	1.7	---	0.77	0.78	---
Total	41.82	134.2	186.9	424.3	133.9	82.0	92.8	65.40	73.93	25.41	23.90	38.67
Mean	1.35	4.47	6.03	13.7	4.78	2.65	3.09	2.11	2.46	0.82	0.77	1.29
Max	9.5	13	18	33	15	9.6	10	7.4	10	1.0	0.87	5.4
Min	0.76	1.1	1.0	3.7	1.7	1.8	1.5	0.93	0.92	0.74	0.72	0.75
Ac-ft	83	266	371	842	266	163	184	130	147	50	47	77
Cfsm	0.54	1.80	2.42	5.50	1.92	1.06	1.24	0.85	0.99	0.33	0.31	0.52
In.	0.62	2.00	2.79	6.34	2.00	1.23	1.39	0.98	1.10	0.38	0.36	0.58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.22	6.45	7.38	8.49	6.40	4.58	3.16	2.06	1.70	1.06	1.04	1.15
Max	4.44	13.2	12.6	15.1	20.0	8.34	8.03	3.09	3.45	1.66	1.60	2.00
(WY)	(1998)	(2000)	(1996)	(1997)	(1996)	(1999)	(1996)	(1996)	(1996)	(1997)	(1997)	(2004)
Min	0.84	1.21	2.29	2.73	1.90	2.55	1.32	1.08	0.80	0.68	0.59	0.71
(WY)	(2003)	(2003)	(2001)	(2001)	(2005)	(2001)	(2004)	(1995)	(2003)	(2003)	(1994)	(2003)

12113347 MILL CREEK AT EARTHWORKS PARK, AT KENT, WA—Continued**SUMMARY STATISTICS**

	Calendar Year 2005	Water Year 2006	Water Years 1994 - 2006
Annual total	1,010.70	1,323.23	
Annual mean	2.77	3.63	3.83
Highest annual mean			6.32
Lowest annual mean			2.21
Highest daily mean	21 Jan 17	33 Jan 12	124 Nov 14, 2001
Lowest daily mean	0.64 Sep 3	0.72 Aug 16	0.44 Oct 24, 1994
Annual seven-day minimum	0.65 Sep 3	0.74 Aug 10	0.47 Aug 26, 1994
Annual runoff (ac-ft)	2,000	2,620	2,770
Annual runoff (cfsm)	1.11	1.46	1.54
Annual runoff (inches)	15.10	19.77	20.90
10 percent exceeds	7.0	10	9.0
50 percent exceeds	1.4	1.7	1.8
90 percent exceeds	0.73	0.77	0.75

