

Water-Data Report 2011

16226200 North Halawa Stream near Honolulu, Oahu, HI

LOCATION.--Lat 21°22'55.2", long 157°54'12.0" referenced to North American Datum of 1983, Honolulu County, HI, Hydrologic Unit 20060000, on right bank, 0.6 mi north of Oahu Prison, 1.0 mi south of Keaiwa Heiau, and 1.7 mi east of Aiea High School.

DRAINAGE AREA.--4.02 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1983 to current year.

REVISED RECORDS.--WDR HI-05-1: 2004(M). WDR HI-10-1: Drainage Area.

GAGE.--Water-stage recorder. Elevation of gage is 160 ft above mean sea level (from topographic map).

REMARKS.--Records computed by C. Senter and Dale Nishimoto. Records fair.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--28 years (water years 1984-2011), 4.88 ft³/s (3,530 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,050 ft³/s, March 19, 2006, gage height, 12.35 ft; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 12	2345	*1,830	*12.07
May 8	1122	671	10.18
Jun 4	2120	1,720	11.95

Minimum discharge, no flow on several days.

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16226200 North Halawa Stream near Honolulu, Oahu, HI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

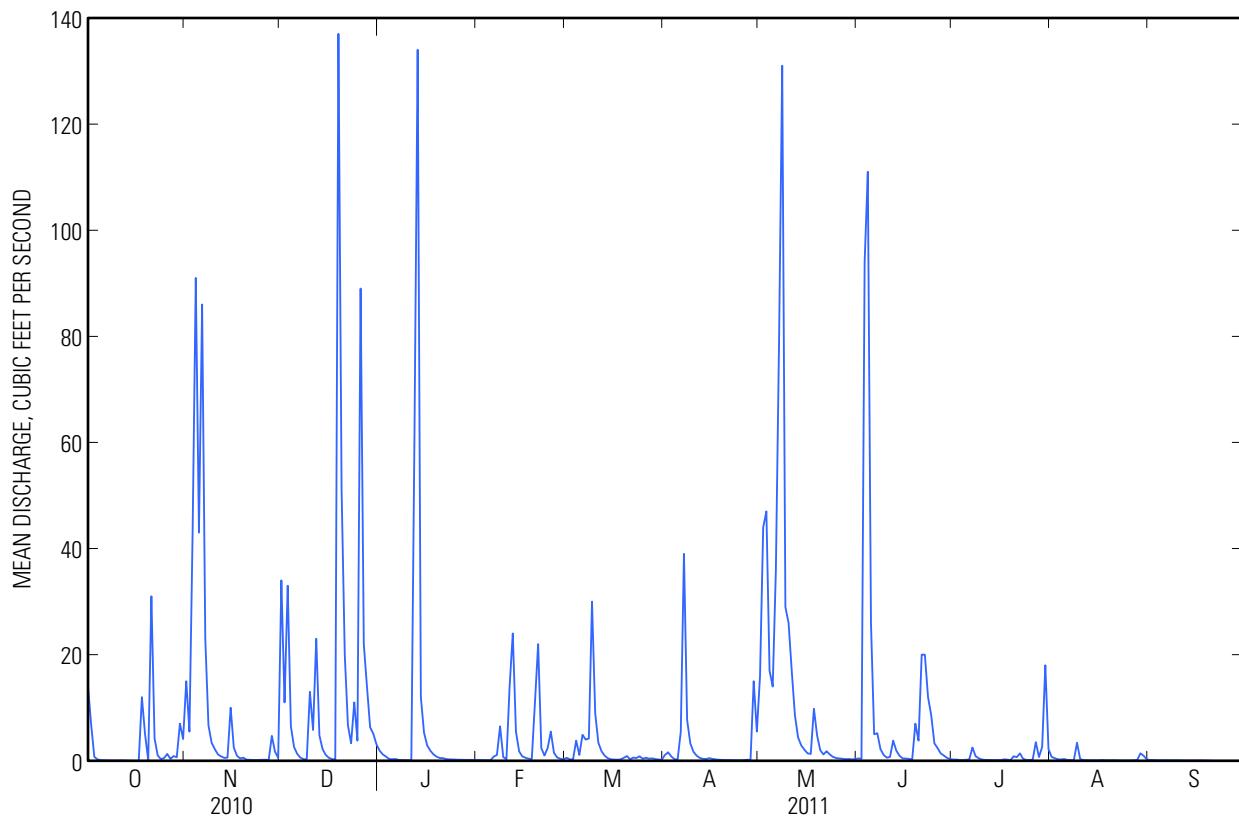
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	14	15	34	1.9	0.14	0.56	1.1	16	0.45	0.24	0.73	0.15
2	6.8	5.5	11	1.2	0.13	0.28	1.6	44	0.36	0.24	0.49	0.15
3	0.74	43	33	0.80	0.12	0.23	0.82	47	94	0.15	0.28	0.12
4	0.26	91	6.5	0.33	0.11	3.8	0.32	17	111	0.14	0.26	0.10
5	0.12	43	2.6	0.29	0.10	1.1	0.21	14	26	0.20	0.33	0.10
6	0.09	86	1.3	0.34	0.80	4.9	5.5	36	5.0	0.23	0.15	0.10
7	0.08	23	0.59	0.17	1.1	4.0	39	79	5.2	2.5	0.13	0.10
8	0.07	6.7	0.30	0.14	6.5	4.2	7.7	131	2.2	0.88	0.12	0.09
9	0.05	3.4	0.26	0.13	0.70	30	3.3	29	1.1	0.47	3.4	0.09
10	0.05	2.2	13	0.12	0.29	9.0	1.7	26	0.59	0.24	0.31	0.09
11	0.07	1.2	5.8	0.11	14	3.4	0.97	17	0.72	0.16	0.16	0.07
12	0.06	0.82	23	62	24	1.8	0.54	8.6	3.8	0.16	0.12	0.07
13	0.04	0.55	4.8	134	5.5	0.96	0.37	4.4	1.9	0.14	0.11	0.07
14	0.02	0.59	2.2	12	1.8	0.48	0.33	2.9	0.95	0.13	0.10	0.05
15	0.00	10	1.1	5.3	0.83	0.27	0.50	2.1	0.45	0.12	0.11	0.08
16	0.00	2.5	0.56	2.9	0.58	0.23	0.34	1.4	0.43	0.12	0.09	0.05
17	0.00	0.95	0.32	1.9	0.40	0.21	0.26	1.3	0.36	0.28	0.16	0.07
18	12	0.45	0.22	1.2	0.32	0.25	0.20	9.8	0.24	0.22	0.11	0.05
19	5.0	0.59	137	0.77	11	0.55	0.17	4.8	7.0	0.12	0.10	0.04
20	0.13	0.21	51	0.52	22	0.90	0.15	2.0	3.8	0.85	0.10	0.03
21	31	0.18	20	0.50	2.4	0.27	0.14	1.2	20	0.69	0.11	0.00
22	4.2	0.16	6.7	0.32	1.0	0.60	0.13	1.8	20	1.4	0.08	0.00
23	1.0	0.15	3.3	0.26	2.4	0.53	0.12	1.2	12	0.36	0.07	0.00
24	0.31	0.17	11	0.25	5.5	0.85	0.11	0.74	8.6	0.18	0.06	0.00
25	0.52	0.18	3.8	0.22	1.5	0.39	0.11	0.53	3.3	0.14	0.06	0.00
26	1.3	0.20	89	0.20	0.63	0.58	0.14	0.44	2.4	0.19	0.08	0.00
27	0.35	0.16	22	0.19	0.38	0.40	0.20	0.38	1.4	3.5	0.09	0.00
28	0.89	4.7	14	0.17	0.28	0.46	0.15	0.31	0.98	0.72	0.16	0.00
29	0.67	1.7	6.3	0.17	---	0.32	15	0.34	0.55	2.6	1.4	0.00
30	7.0	0.55	5.1	0.17	---	0.24	5.5	0.26	0.31	18	0.96	0.00
31	4.1	---	3.1	0.15	---	0.20	---	0.32	---	2.2	0.26	---
Total	90.92	344.81	512.85	228.72	104.51	71.96	86.68	500.82	335.09	37.57	10.69	1.67
Mean	2.93	11.5	16.5	7.38	3.73	2.32	2.89	16.2	11.2	1.21	0.34	0.06
Max	31	91	137	134	24	30	39	131	111	18	3.4	0.15
Min	0.00	0.15	0.22	0.11	0.10	0.20	0.11	0.26	0.24	0.12	0.06	0.00
Ac-ft	180	684	1,020	454	207	143	172	993	665	75	21	3.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.82	8.06	8.05	6.82	4.77	7.89	5.53	3.21	1.86	2.86	2.38	2.39
Max	18.5	29.1	40.6	29.6	17.4	35.3	35.3	16.2	11.2	15.0	11.7	12.6
(WY)	(2006)	(1997)	(1988)	(1988)	(1989)	(2006)	(1989)	(2011)	(2011)	(1989)	(2004)	(1992)
Min	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1985)	(1990)	(1990)	(1986)	(1983)	(1983)	(1983)	(1992)	(1984)	(1984)	(1984)	(1984)

16226200 North Halawa Stream near Honolulu, Oahu, HI—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 1983 - 2011	
Annual total	1,337.13	2,326.29		
Annual mean	3.66	6.37	4.88	
Highest annual mean			10.1	1988
Lowest annual mean			1.30	2007
Highest daily mean	137	Dec 19	137	Dec 19
Lowest daily mean	0.00	Jan 15	0.00	Oct 15
Annual seven-day minimum	0.00	Jan 22	0.00	Sep 21
Annual runoff (ac-ft)	2,650		4,610	3,530
10 percent exceeds	6.6		15	10
50 percent exceeds	0.10		0.52	0.29
90 percent exceeds	0.00		0.09	0.00



16226200 North Halawa Stream near Honolulu, Oahu, HI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1983 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: October 2005 to current year.

REMARKS.--Records computed by D C Nishimoto. Records fair except for periods where flow was less than 2.5 ft³/s which are poor.

EXTREMES FOR PERIOD OF RECORD.--

SUSPENDED SEDIMENT CONCENTRATION: maximum daily mean, 1,040 mg/L, May 7, 2011; minimum, 0 mg/L on many days.

SUSPENDED SEDIMENT DISCHARGE: maximum daily, 1,180 tons, June 4, 2011; minimum 0 tons on many days.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 1,040 mg/L, May 7; minimum, 0 mg/L on many days.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily mean, 1,180 tons/day, June 4; minimum, 0 tons/day on many days.

16226200 North Halawa Stream near Honolulu, Oahu, HI—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 6

[ft³/s, cubic feet per second; mg/L, milligrams per liter]

Date	Sample start time	Discharge, instantane- ous, ft ³ /s (00061)	Sampler type (84164)	Sampling method (82398)	Suspended sediment concen- tration, mg/L (80154)
10-01-2010	1545	58	Peristaltic pump	Point sample	250
10-01-2010	1600	54	Peristaltic pump	Point sample	130
10-01-2010	1700	33	Peristaltic pump	Point sample	126
10-01-2010	1900	38	Peristaltic pump	Point sample	61
10-18-2010	2145	120	Peristaltic pump	Point sample	819
10-18-2010	2215	85	Peristaltic pump	Point sample	446
10-18-2010	2245	66	Peristaltic pump	Point sample	263
10-18-2010	2315	53	Peristaltic pump	Point sample	182
10-21-2010	0615	264	Peristaltic pump	Point sample	--
10-21-2010	0645	177	Peristaltic pump	Point sample	962
10-21-2010	1015	47	Peristaltic pump	Point sample	--
10-21-2010	1215	35	Peristaltic pump	Point sample	31
10-30-2010	1800	30	Peristaltic pump	Point sample	41
10-30-2010	1830	27	Peristaltic pump	Point sample	27
11-01-2010	1030	72	Peristaltic pump	Point sample	137
11-01-2010	1300	46	Peristaltic pump	Point sample	36
11-03-2010	1130	153	Peristaltic pump	Point sample	730
11-03-2010	1230	81	Peristaltic pump	Point sample	385
11-03-2010	1415	79	Peristaltic pump	Point sample	108
11-03-2010	1600	102	Peristaltic pump	Point sample	144
11-03-2010	1845	57	Peristaltic pump	Point sample	34
11-03-2010	2015	91	Peristaltic pump	Point sample	31
11-03-2010	2100	100	Peristaltic pump	Point sample	118
11-03-2010	2315	58	Peristaltic pump	Point sample	36
11-04-2010	0230	128	Peristaltic pump	Point sample	139
11-04-2010	0330	160	Peristaltic pump	Point sample	--
11-04-2010	0545	128	Peristaltic pump	Point sample	251
11-04-2010	0700	119	Peristaltic pump	Point sample	125
11-04-2010	0800	119	Peristaltic pump	Point sample	--
11-04-2010	1915	66	Peristaltic pump	Point sample	23
11-05-2010	0345	58	Peristaltic pump	Point sample	13
11-05-2010	1030	35	Peristaltic pump	Point sample	13
11-05-2010	1600	35	Peristaltic pump	Point sample	22
11-05-2010	1915	33	Peristaltic pump	Point sample	13
11-06-2010	0545	71	Peristaltic pump	Point sample	27
11-06-2010	0750	148	Peristaltic pump	Point sample	--
11-06-2010	1405	104	Peristaltic pump	Point sample	--
11-06-2010	2355	50	Peristaltic pump	Point sample	97
11-07-2010	0730	28	Peristaltic pump	Point sample	12
11-08-2010	0545	8.0	Peristaltic pump	Point sample	10

16226200 North Halawa Stream near Honolulu, Oahu, HI—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 2 of 6
[ft³/s, cubic feet per second; mg/L, milligrams per liter]

Date	Sample start time	Discharge, instantane- ous, ft ³ /s (00061)	Sampler type (84164)	Sampling method (82398)	Suspended sediment concen- tration, mg/L (80154)
11-15-2010	0645	58	Peristaltic pump	Point sample	467
11-15-2010	1030	14	Peristaltic pump	Point sample	48
11-28-2010	0930	23	Peristaltic pump	Point sample	84
11-28-2010	1300	6.0	Peristaltic pump	Point sample	19
12-01-2010	0530	182	Peristaltic pump	Point sample	493
12-01-2010	0730	235	Peristaltic pump	Point sample	--
12-01-2010	0835	103	Peristaltic pump	Point sample	--
12-01-2010	1010	52	Peristaltic pump	Point sample	--
12-01-2010	1445	20	Peristaltic pump	Point sample	60
12-02-2010	0945	29	Peristaltic pump	Point sample	30
12-03-2010	0300	34	Peristaltic pump	Point sample	34
12-03-2010	0445	61	Peristaltic pump	Point sample	54
12-03-2010	1450	29	Peristaltic pump	Point sample	23
12-03-2010	1615	25	Peristaltic pump	Point sample	12
12-04-2010	1030	6.0	Peristaltic pump	Point sample	6
12-10-2010	0330	35	Peristaltic pump	Point sample	106
12-10-2010	0445	23	Peristaltic pump	Point sample	33
12-11-2010	0130	6.6	Peristaltic pump	Point sample	2
12-12-2010	0230	98	Peristaltic pump	Point sample	261
12-12-2010	0505	40	Peristaltic pump	Point sample	75
12-12-2010	0915	22	Peristaltic pump	Point sample	17
12-12-2010	1545	31	Peristaltic pump	Point sample	15
12-12-2010	2200	9.6	Peristaltic pump	Point sample	4
12-19-2010	0615	23	Peristaltic pump	Point sample	56
12-19-2010	0645	24	Peristaltic pump	Point sample	49
12-19-2010	0715	26	Peristaltic pump	Point sample	98
12-19-2010	0745	73	Peristaltic pump	Point sample	104
12-19-2010	0810	205	Peristaltic pump	Point sample	310
12-19-2010	0820	269	Peristaltic pump	Point sample	1,100
12-19-2010	1150	375	Peristaltic pump	Point sample	1,050
12-19-2010	1310	233	Peristaltic pump	Point sample	894
12-19-2010	1545	369	Peristaltic pump	Point sample	846
12-19-2010	1700	233	Peristaltic pump	Point sample	237
12-19-2010	1905	148	Peristaltic pump	Point sample	98
12-20-2010	1008	53	Peristaltic pump	Point sample	22
12-20-2010	1009	53	Peristaltic pump	Point sample	36
12-20-2010	1010	53	US DH-81	EWI	22
12-20-2010	1015	54	US DH-81	EWI	20
12-20-2010	1018	51	Peristaltic pump	Point sample	28
12-20-2010	1019	51	Peristaltic pump	Point sample	26

16226200 North Halawa Stream near Honolulu, Oahu, HI—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 3 of 6
[ft³/s, cubic feet per second; mg/L, milligrams per liter]

Date	Sample start time	Discharge, instantane- ous, ft ³ /s (00061)	Sampler type (84164)	Sampling method (82398)	Suspended sediment concen- tration, mg/L (80154)
12-20-2010	1245	57	Peristaltic pump	Point sample	21
12-21-2010	0700	25	Peristaltic pump	Point sample	13
12-24-2010	1945	117	Peristaltic pump	Point sample	291
12-24-2010	2055	55	Peristaltic pump	Point sample	400
12-24-2010	2230	25	Peristaltic pump	Point sample	155
12-25-2010	0345	6.0	Peristaltic pump	Point sample	17
12-26-2010	0430	32	Peristaltic pump	Point sample	175
12-26-2010	0450	126	Peristaltic pump	Point sample	434
12-26-2010	0455	124	Peristaltic pump	Point sample	372
12-26-2010	0500	266	Peristaltic pump	Point sample	753
12-26-2010	0520	303	Peristaltic pump	Point sample	1,130
12-26-2010	0810	231	Peristaltic pump	Point sample	994
12-26-2010	0955	151	Peristaltic pump	Point sample	197
12-26-2010	1240	76	Peristaltic pump	Point sample	65
12-26-2010	1950	37	Peristaltic pump	Point sample	16
12-27-2010	0245	22	Peristaltic pump	Point sample	11
12-27-2010	0930	33	Peristaltic pump	Point sample	24
01-12-2011	1145	69	Peristaltic pump	Point sample	263
01-12-2011	1300	61	Peristaltic pump	Point sample	173
01-12-2011	1500	24	Peristaltic pump	Point sample	54
01-12-2011	2230	85	Peristaltic pump	Point sample	241
01-12-2011	2250	177	Peristaltic pump	Point sample	659
01-12-2011	2255	283	Peristaltic pump	Point sample	1,720
01-12-2011	2310	509	Peristaltic pump	Point sample	1,420
01-12-2011	2325	846	Peristaltic pump	Point sample	3,030
01-12-2011	2330	1,280	Peristaltic pump	Point sample	2,990
01-12-2011	2335	1,410	Peristaltic pump	Point sample	3,190
01-12-2011	2345	1,830	Peristaltic pump	Point sample	4,580
01-13-2011	0010	1,300	Peristaltic pump	Point sample	3,900
01-13-2011	0045	846	Peristaltic pump	Point sample	4,780
01-13-2011	0050	719	Peristaltic pump	Point sample	4,020
01-13-2011	0055	572	Peristaltic pump	Point sample	3,630
01-13-2011	0110	471	Peristaltic pump	Point sample	2,580
01-13-2011	0205	264	Peristaltic pump	Point sample	721
01-13-2011	0410	166	Peristaltic pump	Point sample	198
01-13-2011	0905	94	Peristaltic pump	Point sample	61
01-13-2011	1645	38	Peristaltic pump	Point sample	21
02-11-2011	1400	87	Peristaltic pump	Point sample	491
02-11-2011	1445	31	Peristaltic pump	Point sample	119
02-11-2011	1515	58	Peristaltic pump	Point sample	86

16226200 North Halawa Stream near Honolulu, Oahu, HI—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 4 of 6
[ft³/s, cubic feet per second; mg/L, milligrams per liter]

Date	Sample start time	Discharge, instantane- ous, ft ³ /s (00061)	Sampler type (84164)	Sampling method (82398)	Suspended sediment concen- tration, mg/L (80154)
02-11-2011	1915	25	Peristaltic pump	Point sample	42
02-12-2011	1400	51	Peristaltic pump	Point sample	70
02-12-2011	1415	60	Peristaltic pump	Point sample	94
02-12-2011	1645	77	Peristaltic pump	Point sample	--
02-12-2011	1845	33	Peristaltic pump	Point sample	144
02-19-2011	2315	305	Peristaltic pump	Point sample	5,420
02-19-2011	2350	189	Peristaltic pump	Point sample	1,230
02-20-2011	0030	109	Peristaltic pump	Point sample	659
02-20-2011	0145	90	Peristaltic pump	Point sample	378
02-20-2011	0315	41	Peristaltic pump	Point sample	413
03-09-2011	1015	227	Peristaltic pump	Point sample	--
03-09-2011	1050	131	Peristaltic pump	Point sample	--
03-09-2011	1250	66	Peristaltic pump	Point sample	--
03-09-2011	1400	47	Peristaltic pump	Point sample	--
03-09-2011	2130	19	Peristaltic pump	Point sample	17
04-06-2011	2345	55	Peristaltic pump	Point sample	--
04-07-2011	0030	71	Peristaltic pump	Point sample	--
04-07-2011	0110	100	Peristaltic pump	Point sample	--
04-07-2011	0230	195	Peristaltic pump	Point sample	--
04-07-2011	0325	100	Peristaltic pump	Point sample	386
04-07-2011	0520	54	Peristaltic pump	Point sample	--
04-07-2011	1645	18	Peristaltic pump	Point sample	--
04-29-2011	1345	54	Peristaltic pump	Point sample	80
04-29-2011	1400	53	Peristaltic pump	Point sample	59
04-29-2011	1445	51	Peristaltic pump	Point sample	149
04-29-2011	2300	22	Peristaltic pump	Point sample	20
05-01-2011	1730	87	Peristaltic pump	Point sample	374
05-01-2011	1845	35	Peristaltic pump	Point sample	377
05-01-2011	2330	175	Peristaltic pump	Point sample	1,630
05-02-2011	0010	87	Peristaltic pump	Point sample	3,300
05-02-2011	0145	45	Peristaltic pump	Point sample	1,380
05-02-2011	1815	82	Peristaltic pump	Point sample	153
05-02-2011	1840	147	Peristaltic pump	Point sample	1,380
05-02-2011	1925	217	Peristaltic pump	Point sample	773
05-02-2011	2110	105	Peristaltic pump	Point sample	429
05-03-2011	0000	52	Peristaltic pump	Point sample	644
05-03-2011	0500	80	Peristaltic pump	Point sample	2,840
05-03-2011	0620	120	Peristaltic pump	Point sample	5,160
05-03-2011	1105	57	Peristaltic pump	Point sample	1,580
05-06-2011	2245	67	Peristaltic pump	Point sample	175

16226200 North Halawa Stream near Honolulu, Oahu, HI—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 5 of 6

[ft³/s, cubic feet per second; mg/L, milligrams per liter]

Date	Sample start time	Discharge, instantane- ous, ft ³ /s (00061)	Sampler type (84164)	Sampling method (82398)	Suspended sediment concen- tration, mg/L (80154)
05-07-2011	0605	128	Peristaltic pump	Point sample	535
05-07-2011	1200	67	Peristaltic pump	Point sample	1,890
05-07-2011	1515	51	Peristaltic pump	Point sample	2,050
05-07-2011	1900	50	Peristaltic pump	Point sample	1,070
05-07-2011	2050	119	Peristaltic pump	Point sample	2,590
05-08-2011	0030	225	Peristaltic pump	Point sample	3,230
05-08-2011	0430	381	Peristaltic pump	Point sample	2,230
05-08-2011	0525	195	Peristaltic pump	Point sample	4,630
05-08-2011	0720	113	Peristaltic pump	Point sample	1,350
05-08-2011	1125	620	Peristaltic pump	Point sample	2,490
05-08-2011	1140	336	Peristaltic pump	Point sample	2,610
05-08-2011	1200	217	Peristaltic pump	Point sample	2,140
05-08-2011	1300	134	Peristaltic pump	Point sample	500
05-08-2011	1705	69	Peristaltic pump	Point sample	45
05-08-2011	2200	47	Peristaltic pump	Point sample	17
05-10-2011	0115	17	Peristaltic pump	Point sample	7
05-10-2011	1845	69	Peristaltic pump	Point sample	1,100
05-10-2011	1905	131	Peristaltic pump	Point sample	659
05-10-2011	2030	64	Peristaltic pump	Point sample	184
05-11-2011	0345	24	Peristaltic pump	Point sample	28
06-03-2011	0730	134	Peristaltic pump	Point sample	801
06-03-2011	0735	145	Peristaltic pump	Point sample	281
06-03-2011	0815	381	Peristaltic pump	Point sample	1,540
06-03-2011	0820	436	Peristaltic pump	Point sample	3,240
06-03-2011	0925	310	Peristaltic pump	Point sample	884
06-03-2011	1210	246	Peristaltic pump	Point sample	662
06-03-2011	1325	145	Peristaltic pump	Point sample	330
06-03-2011	1610	76	Peristaltic pump	Point sample	603
06-03-2011	1915	46	Peristaltic pump	Point sample	347
06-04-2011	0645	300	Peristaltic pump	Point sample	1,470
06-04-2011	0720	163	Peristaltic pump	Point sample	1,960
06-04-2011	0815	94	Peristaltic pump	Point sample	1,140
06-04-2011	1045	46	Peristaltic pump	Point sample	543
06-04-2011	2100	84	Peristaltic pump	Point sample	565
06-04-2011	2105	1,200	Peristaltic pump	Point sample	2,040
06-04-2011	2110	1,660	Peristaltic pump	Point sample	11,000
06-04-2011	2120	1,720	Peristaltic pump	Point sample	9,080
06-04-2011	2130	1,290	Peristaltic pump	Point sample	6,820
06-04-2011	2140	976	Peristaltic pump	Point sample	6,120
06-04-2011	2200	770	Peristaltic pump	Point sample	3,950

16226200 North Halawa Stream near Honolulu, Oahu, HI—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 6 of 6

[ft³/s, cubic feet per second; mg/L, milligrams per liter]

Date	Sample start time	Discharge, instantane-				Sampling method (82398)	Suspended sediment concentration, mg/L (80154)
		neous,	ft ³ /s (00061)	Sampler type (84164)			
06-04-2011	2210	519		Peristaltic pump	Point sample	3,280	
06-04-2011	2225	381		Peristaltic pump	Point sample	2,840	

SUSPENDED-SEDIMENT
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Mean concentration (mg/L)	Sediment discharge (tons)								
October		November		December		January		February		March
1	57	3.7	18	1.7	161	49	1	0.00	0.0	0.00
2	22	0.76	5	0.08	14	0.45	0.0	0.00	0.0	0.00
3	0.0	0.00	85	21	28	3.5	0.0	0.00	0.0	0.00
4	0.0	0.00	91	26	5	0.10	0.0	0.00	0.0	0.09
5	0.0	0.00	17	2.0	3	0.02	0.0	0.00	0.0	1
6	0.0	0.00	243	77	1	0.00	0.0	0.00	1	0.00
7	0.0	0.00	22	2.0	0.0	0.00	0.0	0.00	1	0.03
8	0.0	0.00	6	0.12	0.0	0.00	0.0	0.00	8	0.35
9	0.0	0.00	3	0.03	0.0	0.00	0.0	0.00	0.0	52
10	0.0	0.00	2	0.01	19	0.85	0.0	0.00	0.0	15
11	0.0	0.00	0.0	0.00	2	0.03	0.0	0.00	35	0.00
12	0.0	0.00	0.0	0.00	33	4.5	190	454	68	0.05
13	0.0	0.00	0.0	0.00	3	0.03	346	665	13	0.00
14	0.0	0.00	0.0	0.00	1	0.00	9	0.33	5	0.00
15	0.0	0.00	58	4.1	0.0	0.00	6	0.09	0.0	0.00
16	0.0	0.00	12	0.09	0.0	0.00	4	0.04	0.0	0.00
17	0.0	0.00	1	0.00	0.0	0.00	3	0.01	0.0	0.00
18	85	25	0.0	0.00	0.0	0.00	1	0.00	0.0	0.00
19	9	0.53	0.0	0.00	309	203	0.0	0.00	133	96
20	0.0	0.00	0.0	0.00	30	4.3	0.0	0.00	131	26
21	126	42	0.0	0.00	10	0.57	0.0	0.00	8	0.05
22	13	0.17	0.0	0.00	2	0.04	0.0	0.00	1	0.00
23	1	0.00	0.0	0.00	0.0	0.00	0.0	0.00	4	0.07
24	0.0	0.00	0.0	0.00	56	8.7	0.0	0.00	8	0.15
25	0.0	0.00	0.0	0.00	18	0.30	0.0	0.00	1	0.00
26	1	0.00	0.0	0.00	226	145	0.0	0.00	0.0	0.00
27	0.0	0.00	0.0	0.00	11	0.71	0.0	0.00	0.0	0.00
28	0.0	0.00	12	0.40	7	0.29	0.0	0.00	0.0	0.00
29	0.0	0.00	1	0.00	4	0.07	0.0	0.00	---	0.00
30	6	0.26	0.0	0.00	3	0.04	0.0	0.00	---	0.00
31	5	0.06	---	---	1	0.01	0.0	0.00	---	0.00
Total	---	72.48	---	134.53	---	421.51	---	1,119.47	---	135.49
										15.64

16226200 North Halawa Stream near Honolulu, Oahu, HI—Continued

SUSPENDED-SEDIMENT
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Mean concen- tration (mg/L)	Sediment discharge (tons)										
	April		May		June		July		August		September	
1	1	0.00	133	30	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
2	1	0.00	430	97	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
3	0.0	0.00	1,010	218	404	235	0.0	0.00	0.0	0.00	0.0	0.00
4	0.0	0.00	31	1.5	726	1,180	0.0	0.00	0.0	0.00	0.0	0.00
5	0.0	0.00	26	1.2	97	12	0.0	0.00	0.0	0.00	0.0	0.00
6	12	0.97	77	8.7	13	0.18	0.0	0.00	0.0	0.00	0.0	0.00
7	85	22	1,040	221	9	0.17	3	0.03	0.0	0.00	0.0	0.00
8	14	0.31	810	426	4	0.02	0.0	0.00	0.0	0.00	0.0	0.00
9	7	0.06	11	0.87	1	0.00	0.0	0.00	3	0.05	0.0	0.00
10	2	0.00	70	14	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
11	0.0	0.00	25	1.4	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
12	0.0	0.00	8	0.19	5	0.08	0.0	0.00	0.0	0.00	0.0	0.00
13	0.0	0.00	6	0.08	2	0.01	0.0	0.00	0.0	0.00	0.0	0.00
14	0.0	0.00	5	0.04	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
15	0.0	0.00	3	0.02	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
16	0.0	0.00	2	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
17	0.0	0.00	1	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
18	0.0	0.00	25	1.1	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
19	0.0	0.00	11	0.24	11	0.39	0.0	0.00	0.0	0.00	0.0	0.00
20	0.0	0.00	1	0.00	6	0.11	0.0	0.00	0.0	0.00	0.0	0.00
21	0.0	0.00	0.0	0.00	29	1.8	0.0	0.00	0.0	0.00	0.0	0.00
22	0.0	0.00	2	0.00	27	1.8	1	0.00	0.0	0.00	0.0	0.00
23	0.0	0.00	0.0	0.00	14	0.54	0.0	0.00	0.0	0.00	0.0	0.00
24	0.0	0.00	0.0	0.00	8	0.22	0.0	0.00	0.0	0.00	0.0	0.00
25	0.0	0.00	0.0	0.00	3	0.03	0.0	0.00	0.0	0.00	0.0	0.00
26	0.0	0.00	0.0	0.00	2	0.01	0.0	0.00	0.0	0.00	0.0	0.00
27	0.0	0.00	0.0	0.00	1	0.00	4	0.04	0.0	0.00	0.0	0.00
28	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
29	20	2.0	0.0	0.00	0.0	0.00	2	0.02	1	0.00	0.0	0.00
30	6	0.11	0.0	0.00	0.0	0.00	18	1.9	0.0	0.00	0.0	0.00
31	---	---	0.0	0.00	---	---	2	0.01	0.0	0.00	---	---
Total	---	25.45	---	1,021.34	---	1,432.36	---	2.00	---	0.05	---	0.00

Total suspended sediment discharge (tons)	
Year	4,380.32