

Water-Data Report 2013

12170000 CHURCH CREEK NEAR STANWOOD, WA

Puget Sound Basin
Stillaguamish Subbasin

LOCATION.--Lat 48°14'00", long 122°19'30" referenced to North American Datum of 1927, Snohomish County, WA, Hydrologic Unit 17110008, 2 mi west-south of Stanwood, 1.5 mi upstream from mouth.

DRAINAGE AREA.--6.4 mi².

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Mar. to May 2012, Mar. to May, 2013 (discontinued).

DISSOLVED OXYGEN: Mar. to April 2012, Mar. to May 2013 (discontinued).

pH: March to May 2012, Mar. to May 2013 (discontinued).

SPECIFIC CONDUCTANCE: Mar. to May 2012, Mar. to May 2013 (discontinued).

INSTRUMENTATION.--Water-quality monitor with internal electronic data logger with 15-minute recording interval Mar. to May, 2012; 30-minute recording interval Mar. to Apr. 16, 2013, when the recording interval was changed to 60-minutes.

REMARKS.--Water temperature is excellent for 2012 and 2013. Dissolved oxygen record is excellent for 2012 and 2013, except for Mar. 14, 21-29, 2012, Apr. 6-29, 2012, which are fair; and Apr. 27 to May 20, 2013, which are good. pH record is excellent for 2012 and 2013, except for Mar. 30 to Apr. 2, 2012, which are good; and Apr. 3-5, 2012, which are fair. Specific conductance record is excellent for 2012 and 2013, except for Apr. 30 to May 3, 2012, which are good; May 4-8, 2012, which are fair; and Apr. 2-5, 2012 and May 9-21, 2012, which are poor.

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
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12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	93	91	92	99	91	94
2	---	---	---	---	---	---	98	93	96	95	86	89
3	---	---	---	---	---	---	102	97	100	99	88	91
4	---	---	---	---	---	---	104	100	102	100	82	90
5	---	---	---	---	---	---	108	104	106	95	86	90
6	---	---	---	---	---	---	110	108	109	101	95	98
7	---	---	---	---	---	---	113	110	112	102	93	96
8	---	---	---	---	---	---	115	113	114	111	94	104
9	---	---	---	---	---	---	118	115	117	111	100	106
10	---	---	---	---	---	---	120	118	119	103	99	101
11	---	---	---	---	---	---	128	119	122	103	100	102
12	---	---	---	---	---	---	125	119	121	109	103	106
13	---	---	---	---	---	---	122	120	120	113	108	111
14	---	---	---	76	74	75	122	121	121	120	113	118
15	---	---	---	79	76	78	125	122	123	129	119	124
16	---	---	---	82	78	81	131	113	123	132	125	129
17	---	---	---	83	82	82	113	110	111	133	131	132
18	---	---	---	84	82	83	110	109	110	137	133	135
19	---	---	---	86	84	86	112	108	111	143	137	140
20	---	---	---	90	86	88	109	101	103	175	143	152
21	---	---	---	87	85	86	107	102	104	---	---	---
22	---	---	---	87	86	87	107	106	106	---	---	---
23	---	---	---	88	86	87	109	106	108	---	---	---
24	---	---	---	89	85	87	113	109	112	---	---	---
25	---	---	---	90	87	89	114	112	113	---	---	---
26	---	---	---	90	89	89	115	97	109	---	---	---
27	---	---	---	91	89	90	97	91	92	---	---	---
28	---	---	---	93	91	92	93	89	90	---	---	---
29	---	---	---	100	92	95	96	93	94	---	---	---
30	---	---	---	94	88	89	101	94	97	---	---	---
31	---	---	---	91	89	90	---	---	---	---	---	---
Month	---	---	---	---	---	---	131	89	109	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
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Month	---	---	---	---	---	---	---	---	---	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
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12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	---	---	---	---	---	---	7.5	7.3	7.4	7.5	7.2	7.3
2	---	---	---	---	---	---	7.5	7.4	7.4	7.2	7.1	7.2
3	---	---	---	---	---	---	7.6	7.5	7.6	7.1	7.0	7.1
4	---	---	---	---	---	---	7.7	7.5	7.6	7.2	6.8	7.0
5	---	---	---	---	---	---	7.8	7.6	7.7	6.9	6.8	6.8
6	---	---	---	---	---	---	7.8	7.7	7.8	7.0	6.9	6.9
7	---	---	---	---	---	---	7.8	7.7	7.8	7.0	6.8	6.8
8	---	---	---	---	---	---	7.8	7.7	7.8	6.9	6.8	6.8
9	---	---	---	---	---	---	7.8	7.6	7.8	7.0	6.9	6.9
10	---	---	---	---	---	---	7.8	7.6	7.7	6.9	6.9	6.9
11	---	---	---	---	---	---	7.7	7.6	7.7	6.9	6.8	6.8
12	---	---	---	---	---	---	7.8	7.7	7.7	6.8	6.8	6.8
13	---	---	---	---	---	---	7.8	7.6	7.7	6.9	6.8	6.9
14	---	---	---	7.2	7.0	7.1	7.8	7.6	7.7	7.0	6.8	7.0
15	---	---	---	7.0	6.9	7.0	7.8	7.6	7.7	7.1	7.0	7.0
16	---	---	---	7.0	6.7	6.8	7.8	7.6	7.7	7.1	7.0	7.0
17	---	---	---	6.8	6.6	6.7	7.7	7.6	7.7	7.0	7.0	7.0
18	---	---	---	6.8	6.7	6.7	7.7	7.5	7.6	7.1	7.0	7.0
19	---	---	---	6.8	6.7	6.7	7.7	7.4	7.6	7.1	7.0	7.0
20	---	---	---	6.8	6.7	6.7	7.5	7.3	7.4	7.1	7.0	7.0
21	---	---	---	6.9	6.8	6.8	7.6	7.4	7.5	---	---	---
22	---	---	---	7.0	6.8	6.9	7.5	7.4	7.5	---	---	---
23	---	---	---	7.2	6.9	7.0	7.6	7.5	7.5	---	---	---
24	---	---	---	7.2	7.0	7.2	7.6	7.4	7.5	---	---	---
25	---	---	---	7.2	7.0	7.1	7.6	7.5	7.5	---	---	---
26	---	---	---	7.3	7.1	7.2	7.6	7.2	7.5	---	---	---
27	---	---	---	7.3	7.3	7.3	7.3	7.2	7.3	---	---	---
28	---	---	---	7.3	7.3	7.3	7.5	7.3	7.4	---	---	---
29	---	---	---	7.4	7.3	7.4	7.5	7.3	7.4	---	---	---
30	---	---	---	7.4	7.3	7.4	7.6	7.4	7.5	---	---	---
31	---	---	---	7.4	7.3	7.3	---	---	---	---	---	---
Max	---	---	---	---	---	---	7.8	7.7	7.8	---	---	---
Min	---	---	---	---	---	---	7.3	7.2	7.3	---	---	---

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pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
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1	---	---	---	---	---	---	---	---	---	---	---	---
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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	8.4	6.5	7.4	10.6	9.5	10
2	---	---	---	---	---	---	9.4	6.9	8.0	11.3	9.0	10
3	---	---	---	---	---	---	9.0	7.4	8.0	10.9	9.9	10.4
4	---	---	---	---	---	---	9.0	5.9	7.4	11.1	9.3	10.2
5	---	---	---	---	---	---	9.1	6.8	7.9	11.3	9.4	10.2
6	---	---	---	---	---	---	9.3	6.8	8.0	12.4	9.3	10.8
7	---	---	---	---	---	---	9.5	5.6	7.7	13.5	9.6	11.5
8	---	---	---	---	---	---	10.5	6.8	8.7	12.8	10.9	11.8
9	---	---	---	---	---	---	11.4	8.1	9.9	11.6	10.0	10.9
10	---	---	---	---	---	---	12.1	9.0	10.6	11.2	9.7	10.6
11	---	---	---	---	---	---	11.6	9.7	10.2	11.5	8.7	10.2
12	---	---	---	---	---	---	11.3	9.0	10.1	12.6	9.1	11.0
13	---	---	---	---	---	---	11.0	8.2	9.6	13.4	10.4	12.0
14	---	---	---	5.2	3.7	4.5	11.5	7.8	9.7	14.0	11.0	12.6
15	---	---	---	8.4	5.1	6.6	11.9	8.9	10.3	13.9	11.5	12.8
16	---	---	---	7.9	6.7	7.3	10.8	9.5	10.3	13.2	11.2	12.3
17	---	---	---	7.0	6.1	6.6	9.5	8.5	9.1	12.7	10.6	11.8
18	---	---	---	6.6	5.7	6.2	10.7	8.3	9.4	12.1	10.8	11.5
19	---	---	---	6.6	4.7	5.6	10.2	8.5	9.5	12.2	9.6	11.0
20	---	---	---	6.8	5.7	6.2	12.1	9.2	10.5	12.5	11.4	11.8
21	---	---	---	7.3	4.9	6.1	12.0	8.5	10.3	---	---	---
22	---	---	---	7.6	5.6	6.5	13.8	9.7	11.6	---	---	---
23	---	---	---	7.8	4.8	6.4	13.8	10.5	12.3	---	---	---
24	---	---	---	7.6	4.5	6.2	13.1	11.6	11.9	---	---	---
25	---	---	---	8.0	4.9	6.6	12.7	11.2	11.9	---	---	---
26	---	---	---	8.4	7.4	7.8	12.2	10.2	11.1	---	---	---
27	---	---	---	9.8	7.0	8.3	11.3	9.4	10.3	---	---	---
28	---	---	---	9.7	8.3	9.0	12.6	10.0	11.2	---	---	---
29	---	---	---	8.7	7.9	8.1	12.6	11.1	11.8	---	---	---
30	---	---	---	8.5	7.5	7.9	12.1	10.6	11.1	---	---	---
31	---	---	---	7.5	6.4	7.0	---	---	---	---	---	---
Month	---	---	---	---	---	---	13.8	5.6	9.9	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
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6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
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27	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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14	---	---	---	---	---	---	---	---	---	---	---	---
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17	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	11.8	11.0	11.4	---	---	---
7	---	---	---	---	---	---	12.1	10.9	11.5	---	---	---
8	---	---	---	---	---	---	11.7	10.6	11.2	---	---	---
9	---	---	---	---	---	---	11.3	10.3	10.8	---	---	---
10	---	---	---	---	---	---	10.9	10.1	10.5	---	---	---
11	---	---	---	---	---	---	10.7	10.2	10.5	---	---	---
12	---	---	---	---	---	---	10.9	10.3	10.6	---	---	---
13	---	---	---	---	---	---	11.2	10.3	10.7	---	---	---
14	---	---	---	12.3	11.5	12.0	11.3	10.3	10.8	---	---	---
15	---	---	---	---	---	---	11.1	10.2	10.6	---	---	---
16	---	---	---	---	---	---	10.9	10.3	10.5	---	---	---
17	---	---	---	---	---	---	11.2	10.8	11.0	---	---	---
18	---	---	---	---	---	---	11.1	10.4	10.8	---	---	---
19	---	---	---	---	---	---	11.1	10.5	10.8	---	---	---
20	---	---	---	---	---	---	11.1	9.9	10.5	---	---	---
21	---	---	---	11.8	10.3	11.1	11.3	10.0	10.7	---	---	---
22	---	---	---	11.6	10.9	11.2	10.9	9.8	10.3	---	---	---
23	---	---	---	11.8	8.6	11.2	10.6	9.6	10.1	---	---	---
24	---	---	---	11.9	9.7	11.0	10.3	9.8	10.1	---	---	---
25	---	---	---	11.3	9.6	10.5	10.3	9.8	10.1	---	---	---
26	---	---	---	10.8	10.4	10.6	10.8	8.9	10.2	---	---	---
27	---	---	---	11.0	10.0	10.6	10.9	10.1	10.5	---	---	---
28	---	---	---	10.6	10.2	10.4	10.8	9.4	10.3	---	---	---
29	---	---	---	11.1	10.4	10.9	10.2	8.4	9.6	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	129	127	129	113	108	110
2	---	---	---	---	---	---	132	129	130	113	111	112
3	---	---	---	---	---	---	133	131	132	116	112	114
4	---	---	---	---	---	---	155	132	139	119	116	118
5	---	---	---	---	---	---	152	131	139	125	118	121
6	---	---	---	---	---	---	135	127	130	129	125	126
7	---	---	---	---	---	---	130	88	106	136	129	131
8	---	---	---	---	---	---	94	90	92	140	133	137
9	---	---	---	---	---	---	100	94	97	143	140	141
10	---	---	---	---	---	---	105	100	102	145	142	143
11	---	---	---	---	---	---	105	102	104	148	144	146
12	---	---	---	---	---	---	113	105	109	186	148	169
13	---	---	---	---	---	---	108	96	101	169	153	161
14	---	---	---	---	---	---	97	96	97	167	143	151
15	---	---	---	---	---	---	102	97	98	205	140	163
16	---	---	---	---	---	---	104	99	102	216	145	159
17	---	---	---	---	---	---	108	104	106	150	148	149
18	---	---	---	---	---	---	115	108	111	156	148	151
19	---	---	---	102	---	---	114	92	99	157	151	153
20	---	---	---	104	102	103	95	93	93	---	152	---
21	---	---	---	108	103	105	100	95	97	---	---	---
22	---	---	---	109	105	107	100	98	99	---	---	---
23	---	---	---	109	107	108	103	100	102	---	---	---
24	---	---	---	111	109	110	106	103	105	---	---	---
25	---	---	---	114	111	113	108	105	107	---	---	---
26	---	---	---	116	114	115	111	108	110	---	---	---
27	---	---	---	118	116	117	122	111	114	---	---	---
28	---	---	---	120	118	119	122	116	118	---	---	---
29	---	---	---	122	120	121	121	114	115	---	---	---
30	---	---	---	125	122	123	120	108	112	---	---	---
31	---	---	---	127	125	126	---	---	---	---	---	---
Month	---	---	---	---	---	---	155	88	110	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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18	---	---	---	---	---	---	---	---	---	---	---	---
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31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	---	---	---	---	---	---	7.8	7.6	7.7	7.8	7.7	7.7
2	---	---	---	---	---	---	7.8	7.7	7.7	7.8	7.7	7.7
3	---	---	---	---	---	---	7.8	7.7	7.7	7.8	7.7	7.7
4	---	---	---	---	---	---	7.8	7.7	7.7	7.8	7.7	7.7
5	---	---	---	---	---	---	7.8	7.7	7.8	7.8	7.6	7.7
6	---	---	---	---	---	---	7.8	7.7	7.7	7.8	7.6	7.7
7	---	---	---	---	---	---	7.7	7.5	7.6	7.8	7.7	7.7
8	---	---	---	---	---	---	7.6	7.5	7.6	7.8	7.7	7.7
9	---	---	---	---	---	---	7.7	7.6	7.6	7.8	7.7	7.8
10	---	---	---	---	---	---	7.7	7.6	7.7	7.8	7.7	7.8
11	---	---	---	---	---	---	7.7	7.6	7.7	7.8	7.7	7.7
12	---	---	---	---	---	---	7.7	7.6	7.7	7.8	7.7	7.8
13	---	---	---	---	---	---	7.7	7.6	7.7	7.8	7.7	7.8
14	---	---	---	---	---	---	7.7	7.6	7.7	7.8	7.7	7.8
15	---	---	---	---	---	---	7.7	7.6	7.6	8.0	7.7	7.8
16	---	---	---	---	---	---	7.8	7.6	7.6	8.0	7.7	7.8
17	---	---	---	---	---	---	7.8	7.7	7.7	7.8	7.7	7.8
18	---	---	---	---	---	---	7.8	7.7	7.7	7.8	7.7	7.8
19	---	---	---	---	---	---	7.7	7.6	7.6	7.8	7.7	7.8
20	---	---	---	7.8	7.7	7.7	7.7	7.6	7.6	---	---	---
21	---	---	---	7.8	7.7	7.7	7.7	7.6	7.7	---	---	---
22	---	---	---	7.8	7.7	7.7	7.7	7.6	7.6	---	---	---
23	---	---	---	7.8	7.7	7.7	7.7	7.6	7.6	---	---	---
24	---	---	---	7.8	7.7	7.7	7.7	7.6	7.6	---	---	---
25	---	---	---	7.8	7.7	7.7	7.7	7.6	7.7	---	---	---
26	---	---	---	7.8	7.7	7.7	7.8	7.6	7.7	---	---	---
27	---	---	---	7.8	7.7	7.7	7.7	7.6	7.7	---	---	---
28	---	---	---	7.8	7.7	7.7	7.8	7.7	7.7	---	---	---
29	---	---	---	7.7	7.6	7.7	7.8	7.7	7.7	---	---	---
30	---	---	---	7.7	7.7	7.7	7.8	7.7	7.7	---	---	---
31	---	---	---	7.7	7.6	7.7	---	---	---	---	---	---
Max	---	---	---	---	---	---	7.8	7.7	7.8	---	---	---
Min	---	---	---	---	---	---	7.6	7.5	7.6	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	10.3	8.0	9.2	10.9	7.6	9.4
2	---	---	---	---	---	---	9.9	9.0	9.5	11.6	8.6	10.2
3	---	---	---	---	---	---	11.4	8.7	10.0	12.5	9.1	10.8
4	---	---	---	---	---	---	10.6	9.5	10.1	13.6	10.1	11.9
5	---	---	---	---	---	---	11.8	10.0	10.7	14.3	10.8	12.6
6	---	---	---	---	---	---	10.7	9.8	10.2	15.2	12.0	13.6
7	---	---	---	---	---	---	9.8	8.4	8.9	14.2	12.2	13.3
8	---	---	---	---	---	---	9.6	8.0	8.6	13.2	12.0	12.6
9	---	---	---	---	---	---	9.9	8.4	9.1	13.2	11.4	12.2
10	---	---	---	---	---	---	10.1	9.3	9.6	13.9	11.1	12.5
11	---	---	---	---	---	---	10.3	8.7	9.5	14.4	12.1	13.2
12	---	---	---	---	---	---	9.2	7.7	8.1	14.5	13.4	13.9
13	---	---	---	---	---	---	8.0	6.8	7.3	14.4	13.2	13.9
14	---	---	---	---	---	---	8.8	6.7	7.6	13.4	11.6	12.6
15	---	---	---	---	---	---	9.4	6.7	8.0	13.6	11.0	12.3
16	---	---	---	---	---	---	9.3	6.3	8.0	14.2	12.2	13.1
17	---	---	---	---	---	---	10.1	6.9	8.5	13.3	12.4	12.8
18	---	---	---	---	---	---	9.4	8.7	9.1	13.3	12.4	12.8
19	---	---	---	7.2	---	---	10.2	8.9	9.5	13.2	12.2	12.7
20	---	---	---	8.9	6.8	7.7	9.9	9.0	9.4	---	11.0	---
21	---	---	---	7.6	6.1	6.8	10.4	8.8	9.5	---	---	---
22	---	---	---	7.2	5.4	6.4	10.6	7.0	8.9	---	---	---
23	---	---	---	7.2	4.9	6.0	10.4	7.2	8.9	---	---	---
24	---	---	---	7.4	4.7	6.0	11.4	7.7	9.7	---	---	---
25	---	---	---	8.1	5.1	6.6	12.2	8.8	10.6	---	---	---
26	---	---	---	8.8	5.8	7.3	12.7	10.0	11.4	---	---	---
27	---	---	---	9.2	7.0	8.1	12.0	10.8	11.1	---	---	---
28	---	---	---	10.2	7.0	8.5	10.9	10.1	10.5	---	---	---
29	---	---	---	10.5	7.4	9.0	11.0	9.2	10.1	---	---	---
30	---	---	---	11.0	8.2	9.5	10.6	8.6	9.6	---	---	---
31	---	---	---	10.9	7.5	9.3	---	---	---	---	---	---
Month	---	---	---	---	---	---	12.7	6.3	9.4	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
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5	---	---	---	---	---	---	---	---	---	---	---	---
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8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
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21	---	---	---	---	---	---	---	---	---	---	---	---
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24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
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27	---	---	---	---	---	---	---	---	---	---	---	---
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30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
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11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
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27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
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30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	11.8	10.9	11.3	12.0	10.8	11.4
2	---	---	---	---	---	---	11.4	11.1	11.3	11.6	10.6	11.0
3	---	---	---	---	---	---	11.6	10.7	11.2	11.2	10.2	10.7
4	---	---	---	---	---	---	11.2	10.8	11.0	10.9	9.9	10.4
5	---	---	---	---	---	---	11.2	10.6	10.9	10.5	9.5	10.1
6	---	---	---	---	---	---	11.2	10.9	11.1	10.1	9.3	9.7
7	---	---	---	---	---	---	11.8	11.1	11.5	10.1	9.5	9.8
8	---	---	---	---	---	---	12.1	11.6	11.9	10.2	9.6	10
9	---	---	---	---	---	---	12.0	11.5	11.8	10.5	9.8	10.1
10	---	---	---	---	---	---	11.6	11.4	11.5	10.5	9.6	10.1
11	---	---	---	---	---	---	11.9	11.3	11.6	10.1	9.3	9.8
12	---	---	---	---	---	---	11.9	11.6	11.8	9.6	9.3	9.5
13	---	---	---	---	---	---	12.4	11.9	12.1	9.7	9.4	9.6
14	---	---	---	---	---	---	12.4	11.6	12.1	10.3	9.6	9.9
15	---	---	---	---	---	---	12.4	11.5	11.9	10.3	9.5	9.9
16	---	---	---	---	---	---	12.6	11.6	12.0	9.9	9.2	9.6
17	---	---	---	---	---	---	12.4	11.3	11.9	9.9	9.3	9.6
18	---	---	---	---	---	---	11.8	11.5	11.6	10.0	9.5	9.7
19	---	---	---	---	---	---	11.6	11.2	11.5	10.1	9.5	9.8
20	---	---	---	12.1	11.5	11.8	11.7	11.4	11.5	---	---	---
21	---	---	---	12.7	12.1	12.4	11.7	11.2	11.5	---	---	---
22	---	---	---	13.0	12.4	12.6	12.4	11.1	11.7	---	---	---
23	---	---	---	13.2	12.3	12.7	12.2	11.0	11.6	---	---	---
24	---	---	---	13.2	12.2	12.7	12.0	10.7	11.3	---	---	---
25	---	---	---	12.9	11.9	12.4	11.5	10.4	10.9	---	---	---
26	---	---	---	12.6	11.6	12.1	11.2	10.3	10.7	---	---	---
27	---	---	---	12.2	11.5	11.9	10.8	10.4	10.7	---	---	---
28	---	---	---	12.3	11.2	11.7	11.0	10.7	10.9	---	---	---
29	---	---	---	12.2	11.1	11.6	11.2	10.7	10.9	---	---	---
30	---	---	---	11.8	10.8	11.3	11.6	11.0	11.2	---	---	---
31	---	---	---	11.9	10.7	11.3	---	---	---	---	---	---
Month	---	---	---	---	---	---	12.6	10.3	11.4	---	---	---

12170000 CHURCH CREEK NEAR STANWOOD, WA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---