

Water-Data Report 2012

**14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR**

Lower Columbia Basin  
Lower Columbia-Clatskanie Subbasin

LOCATION.--Lat 46°10'53", long 123°10'56" referenced to North American Datum of 1927, in NE ¼ sec.16, T.8 N., R.4 W., Columbia County, OR, Hydrologic Unit 17080003, on left bank, 0.7 mi downstream from Crims Island, 3.0 mi northwest of Quincy and at mile 53.8.

DRAINAGE AREA.--256,900 mi<sup>2</sup>, approximately.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--May 1968 to June 1970, June 1991 to current year.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is Columbia River Datum; subtract 1.00 ft to correct to NGVD of 1929. May 1968 to June 1970, water-stage recorder with auxiliary water-stage recorder 5.6 miles downstream, at datum 10.00 ft lower; June 1991 to September 30, 2004, at present site, at datum 1.52 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by many reservoirs on Columbia River and in tributary basins. Flow affected by astronomical tide, which can cause reverse flow during tidal cycle when mean daily discharges are less than 250,000 ft<sup>3</sup>/s. Daily mean discharge figures since water year 2007 are produced from "Godin filtered" instantaneous discharges to remove daily tidal cycle. The Godin process resamples the series to hourly increments, on the hour, using linear interpolation, and then applies three moving averages.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--22 years (water years 1969, 1992-2012), 236,100 ft<sup>3</sup>/s, 171,100,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 864,000 ft<sup>3</sup>/s Feb. 10, 1996; minimum daily discharge, 63,600 ft<sup>3</sup>/s Sept. 9, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 648,000 ft<sup>3</sup>/s Apr. 3, maximum gage height, 11.27 ft Jan. 21; minimum daily discharge, 123,000 ft<sup>3</sup>/s Sept. 14.

## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**  
**DAILY MEAN VALUES**

[e, estimated;  $\times 10^6$ , million]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	142,000	180,000	234,000	365,000	337,000	272,000	578,000	525,000	357,000	446,000	295,000	190,000
2	126,000	189,000	218,000	329,000	314,000	270,000	576,000	523,000	348,000	444,000	288,000	172,000
3	124,000	178,000	204,000	294,000	291,000	268,000	569,000	529,000	344,000	430,000	275,000	145,000
4	136,000	173,000	194,000	286,000	268,000	257,000	563,000	542,000	353,000	409,000	271,000	143,000
5	150,000	170,000	194,000	281,000	248,000	249,000	532,000	545,000	374,000	401,000	263,000	161,000
6	161,000	168,000	199,000	267,000	238,000	259,000	e498,000	530,000	396,000	407,000	262,000	186,000
7	157,000	170,000	195,000	249,000	229,000	270,000	489,000	511,000	419,000	400,000	270,000	183,000
8	142,000	171,000	192,000	226,000	234,000	264,000	480,000	484,000	441,000	381,000	269,000	160,000
9	139,000	168,000	190,000	217,000	230,000	259,000	453,000	461,000	449,000	374,000	262,000	151,000
10	141,000	160,000	183,000	225,000	214,000	247,000	419,000	453,000	448,000	380,000	257,000	143,000
11	166,000	158,000	187,000	235,000	224,000	244,000	405,000	447,000	435,000	385,000	244,000	149,000
12	172,000	167,000	192,000	229,000	222,000	262,000	415,000	438,000	421,000	385,000	248,000	154,000
13	164,000	171,000	189,000	214,000	217,000	311,000	410,000	424,000	414,000	383,000	257,000	141,000
14	175,000	182,000	193,000	205,000	222,000	351,000	409,000	400,000	412,000	381,000	244,000	123,000
15	189,000	193,000	199,000	202,000	224,000	374,000	402,000	393,000	407,000	376,000	221,000	133,000
16	189,000	188,000	186,000	200,000	223,000	419,000	391,000	404,000	399,000	374,000	215,000	143,000
17	185,000	203,000	172,000	201,000	210,000	443,000	398,000	409,000	383,000	384,000	209,000	145,000
18	177,000	226,000	171,000	226,000	195,000	441,000	410,000	422,000	383,000	376,000	222,000	143,000
19	162,000	221,000	169,000	314,000	206,000	425,000	426,000	441,000	397,000	351,000	221,000	160,000
20	153,000	209,000	162,000	421,000	211,000	404,000	446,000	446,000	415,000	344,000	216,000	164,000
21	152,000	194,000	164,000	470,000	226,000	401,000	458,000	443,000	424,000	356,000	223,000	154,000
22	155,000	214,000	166,000	477,000	272,000	420,000	452,000	439,000	421,000	379,000	227,000	145,000
23	152,000	275,000	161,000	455,000	325,000	427,000	464,000	448,000	423,000	381,000	235,000	142,000
24	142,000	298,000	159,000	430,000	325,000	427,000	484,000	459,000	426,000	375,000	229,000	142,000
25	151,000	293,000	161,000	417,000	305,000	431,000	494,000	462,000	436,000	352,000	222,000	138,000
26	168,000	264,000	172,000	418,000	295,000	426,000	524,000	458,000	454,000	333,000	210,000	131,000
27	153,000	241,000	176,000	418,000	291,000	407,000	552,000	443,000	458,000	337,000	198,000	127,000
28	152,000	248,000	208,000	403,000	288,000	403,000	551,000	419,000	467,000	319,000	196,000	129,000
29	171,000	248,000	279,000	374,000	281,000	425,000	546,000	400,000	457,000	300,000	187,000	145,000
30	164,000	245,000	343,000	360,000	---	484,000	536,000	387,000	445,000	292,000	186,000	137,000
31	163,000	---	380,000	354,000	---	552,000	---	374,000	---	288,000	190,000	---
<b>Total</b>	4,873,000	6,165,000	6,192,000	9,762,000	7,365,000	11.09 $\times 10^6$	14.33 $\times 10^6$	14.05 $\times 10^6$	12.40 $\times 10^6$	11.52 $\times 10^6$	7,312,000	4,479,000
<b>Mean</b>	157,200	205,500	199,700	314,900	254,000	357,800	477,700	453,500	413,500	371,700	235,900	149,300
<b>Max</b>	189,000	298,000	380,000	477,000	337,000	552,000	578,000	545,000	467,000	446,000	295,000	190,000
<b>Min</b>	124,000	158,000	159,000	200,000	195,000	244,000	391,000	374,000	344,000	288,000	186,000	123,000
<b>Ac-ft</b>	9,666,000	12.23 $\times 10^6$	12.28 $\times 10^6$	19.36 $\times 10^6$	14.61 $\times 10^6$	22.00 $\times 10^6$	28.42 $\times 10^6$	27.89 $\times 10^6$	24.61 $\times 10^6$	22.86 $\times 10^6$	14.50 $\times 10^6$	8,884,000

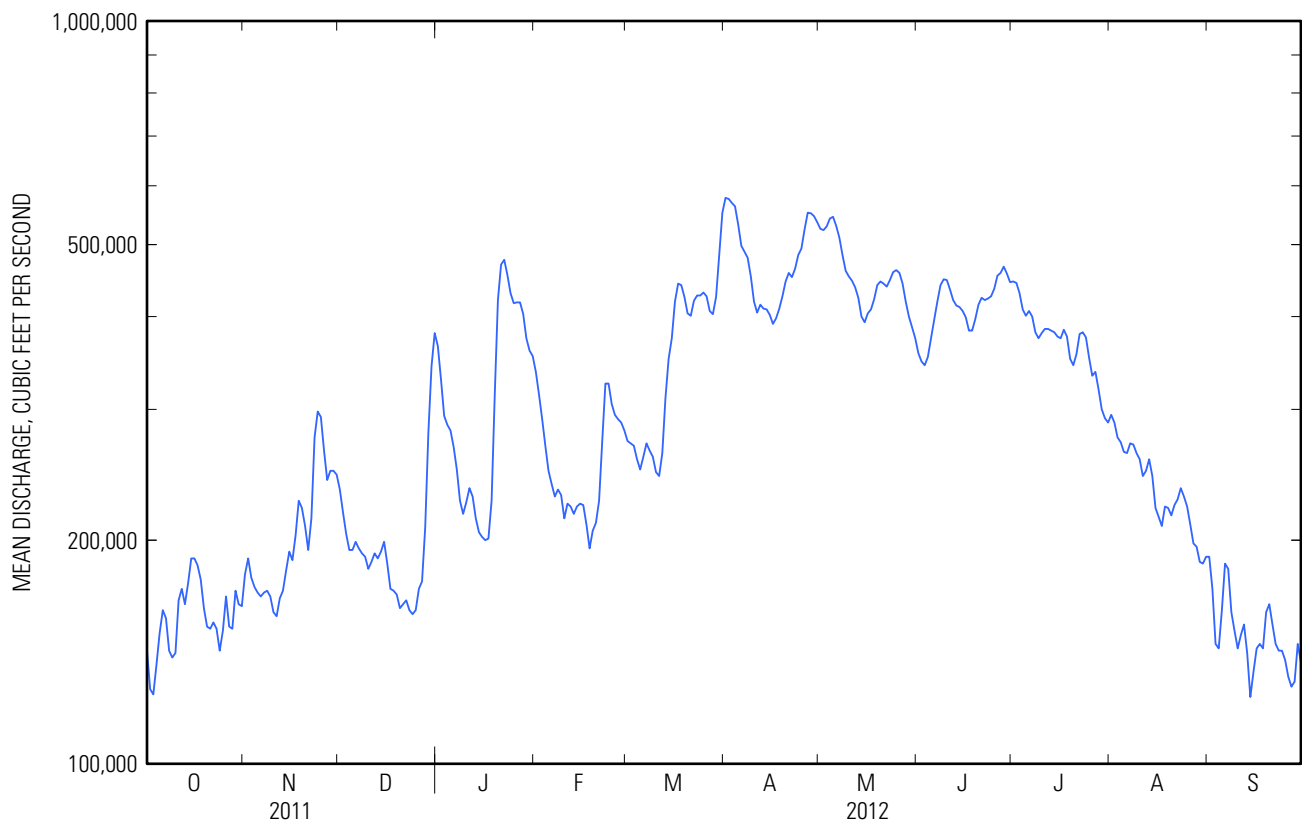
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	138,500	190,400	246,900	282,100	253,800	249,600	287,000	341,100	336,600	221,100	160,200	124,900
<b>Max</b>	212,300	278,000	430,800	444,300	543,400	388,700	477,700	507,500	561,700	376,900	235,900	177,300
<b>(WY)</b>	(1998)	(2007)	(1996)	(1997)	(1996)	(1997)	(2012)	(1997)	(2011)	(2011)	(2012)	(1997)
<b>Min</b>	98,380	136,100	165,900	153,400	141,500	142,100	150,500	174,700	151,700	98,390	106,300	90,080
<b>(WY)</b>	(2002)	(1994)	(2009)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)

## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

## SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1969 - 2012	
<b>Annual total</b>	112,696,000		109,558,000			
<b>Annual mean</b>	308,800		299,300		236,100	
<b>Highest annual mean</b>					338,200	
<b>Lowest annual mean</b>					140,000	
<b>Highest daily mean</b>	607,000	Jun 1	578,000	Apr 1	864,000	Feb 10, 1996
<b>Lowest daily mean</b>	124,000	Oct 3	123,000	Sep 14	63,600	Sep 9, 2001
<b>Annual seven-day minimum</b>	139,000	Sep 29	136,000	Sep 24	78,700	Sep 5, 2001
<b>Annual runoff (ac-ft)</b>	223,500,000		217,300,000		171,100,000	
<b>10 percent exceeds</b>	538,000		456,000		389,000	
<b>50 percent exceeds</b>	280,000		270,000		210,000	
<b>90 percent exceeds</b>	156,000		154,000		124,000	



**14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued****WATER-QUALITY RECORDS**

PERIOD OF DAILY RECORD:--

SPECIFIC CONDUCTANCE: October 1993 to September 2003.

WATER TEMPERATURE: August 1967 to September 1970, October 1993 to September 2003.

TURBIDITY: February 2001 to September 2007.

**WATER-QUALITY DATA****WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 1 of 16

[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per cm (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per cm (61726)	Discharge, ft <sup>3</sup> /s (00060)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)
10-19-2011	1110	767	13.0	0.038	0.029	E 162,000	9.8	7.4	137
12-21-2011	1200	770	6.2	.034	.025	E 164,000	12.3	8.0	155
01-04-2012	1110	765	9.7	.080	.062	E 286,000	13.0	7.0	100
01-26-2012	1400	771	--	.070	.054	E 418,000	13.5	7.6	107
02-07-2012	1110	758	4.7	.048	.037	E 229,000	13.3	7.5	126
02-22-2012	1130	765	11.5	.046	.034	E 272,000	13.2	8.0	139
03-07-2012	1210	769	--	.049	.037	E 270,000	12.9	7.8	144
03-21-2012	1210	761	12.9	.058	.045	E 401,000	13.3	7.4	135
04-18-2012	1210	763	15.0	.056	.042	E 410,000	12.7	7.8	141
05-09-2012	1100	766	13.3	.068	.050	E 461,000	12.4	7.8	108
05-23-2012	1210	763	14.0	.060	.044	E 448,000	11.6	7.9	117
06-20-2012	1210	760	18.7	.057	.042	E 415,000	11.1	7.9	104
08-22-2012	1220	764	23.5	.043	.031	E 227,000	9.4	7.6	127

## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

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[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Temperature, water, °C (00010)	Turbidity, water, unfiltered, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO <sub>3</sub> (39086)
10-19-2011	1110	15.5	3.2	80	14.28	4.30	1.19	5.90	52.1
12-21-2011	1200	5.7	2.3	99	18.23	5.03	1.20	6.50	60.1
01-04-2012	1110	6.0	33	67	12.14	3.46	1.04	4.54	40.9
01-26-2012	1400	5.2	35.6	68	11.02	3.29	.992	4.56	39.9
02-07-2012	1110	4.4	6.1	77	13.54	4.07	1.01	5.40	46.0
02-22-2012	1130	5.3	9.8	94	16.40	4.89	1.15	7.25	55.9
03-07-2012	1210	5.7	9.0	110	14.73	4.45	1.09	6.12	52.3
03-21-2012	1210	6.3	18	76	14.62	4.45	1.05	5.77	49.0
04-18-2012	1210	9.0	11	87	15.78	4.89	1.20	5.96	53.1
05-09-2012	1100	11.4	9.5	73	12.38	3.54	.894	4.05	41.4
05-23-2012	1210	13.6	7.0	78	13.99	3.81	1.01	4.54	47.8
06-20-2012	1210	15.3	15.7	72	12.54	3.24	.814	3.56	44.0
08-22-2012	1220	21.2	4.4	72	16.13	4.16	.886	4.16	53.3

## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 3 of 16

[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Bicarbonate, water, filtered, inflection- point, incremental titration method, field, mg/L (00453)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Carbonate, water, filtered, inflection- point incremental titration method, field, mg/L (00452)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO <sub>2</sub> (00955)	Sulfate, water, filtered, mg/L (00945)
10-19-2011	1110	63.1	0.14	0.2	3.70	0.12	< .03	10.7	9.17
12-21-2011	1200	73.0	.12	< .1	4.46	.12	< .03	10.2	10.6
01-04-2012	1110	49.7	.64	.1	3.16	.10	< .03	11.7	6.81
01-26-2012	1400	48.4	.63	.1	3.03	.07	< .03	12.7	6.90
02-07-2012	1110	55.8	.43	.1	3.87	.12	< .03	13.2	8.29
02-22-2012	1130	68.0	.56	.1	5.27	.13	< .03	13.1	10.8
03-07-2012	1210	63.5	.47	.1	5.14	.10	< .03	12.8	9.89
03-21-2012	1210	59.5	.55	< .1	4.10	.12	< .03	12.4	9.76
04-18-2012	1210	64.1	.28	.3	4.00	.10	< .03	13.2	9.13
05-09-2012	1100	50.2	.26	.1	2.54	.09	< .03	12.0	6.58
05-23-2012	1210	57.7	.56	.3	2.40	.10	< .03	12.2	7.13
06-20-2012	1210	53.2	.35	.2	1.93	.07	< .03	9.22	6.36
08-22-2012	1220	64.3	.22	.3	2.34	.08	< .03	7.78	8.41

## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 4 of 16

[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Orthophosphate, water, filtered, mg/L as P (00671)	Particulate nitrogen, suspended in water, mg/L (49570)	Phosphorus, water, filtered, mg/L as P (00666)
10-19-2011	1110	0.08	0.14	0.03	0.25	0.004	0.020	< .017	0.019
12-21-2011	1200	.09	.12	.02	.33	.003	.019	.018	.019
01-04-2012	1110	.16	.20	.02	.52	.003	.021	.069	.024
01-26-2012	1400	.12	.23	.02	.52	.004	.020	.110	.023
02-07-2012	1110	.10	.17	.02	.38	.004	.013	.064	.015
02-22-2012	1130	.14	.23	< .01	.44	.004	.008	.092	.014
03-07-2012	1210	.10	.18	< .01	.51	.063	< .004	.073	.015
03-21-2012	1210	.11	.18	< .01	.47	.006	.009	.051	.014
04-18-2012	1210	.16	.23	.02	.42	.003	.013	.025	.016
05-09-2012	1100	.10	.20	< .01	.13	.017	< .004	.031	.010
05-23-2012	1210	.08	.18	.01	.12	.009	.004	.074	.008
06-20-2012	1210	.08	.18	.01	.06	.002	.007	.036	.007
08-22-2012	1220	< .07	.11	< .01	.10	.005	< .004	.048	.007

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 5 of 16

[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Phosphorus, water, unfiltered, mg/L as P (00665)	Chromium, water, filtered, µg/L (01030)	Copper, water, filtered, µg/L (01040)	Iron, water, filtered, µg/L (01046)	Lead, water, filtered, µg/L (01049)	Lithium, water, filtered, µg/L (01130)	Nickel, water, filtered, µg/L (01065)	Silver, water, filtered, µg/L (01075)	Strontium, water, filtered, µg/L (01080)
10-19-2011	1110	0.030	0.09	0.8	12.8	< .025	2.85	0.30	< .005	86.5
12-21-2011	1200	.030	.11	< .8	17.1	< .025	3.54	.34	< .005	97.3
01-04-2012	1110	.065	.19	4.5	118	.039	1.81	.33	< .005	67.4
01-26-2012	1400	.086	.20	1.2	91.7	.050	1.85	.42	< .005	62.1
02-07-2012	1110	.040	.14	< .8	57.4	.028	2.42	.30	< .005	74.2
02-22-2012	1130	.048	.23	< .8	39.5	.030	2.72	.35	< .005	82.6
03-07-2012	1210	.044	.21	< .8	48.1	< .025	2.49	.36	< .005	81.5
03-21-2012	1210	.065	.21	< .8	63.0	< .025	2.88	.31	< .005	79.9
04-18-2012	1210	.049	.16	< .8	55.9	.032	2.86	.42	< .005	84.8
05-09-2012	1100	.057	.10	< .8	44.5	.043	1.91	.32	< .005	68.1
05-23-2012	1210	.054	.10	< .8	20.9	.047	1.79	.30	< .005	69.8
06-20-2012	1210	.045	< .07	< .8	12.7	< .025	1.41	.33	< .005	64.6
08-22-2012	1220	.028	< .07	1.8	7.2	< .025	1.67	.30	< .005	87.3

## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 6 of 16

[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Vanadium, water, filtered, µg/L (01085)	Zinc, water, filtered, µg/L (01090)	Arsenic, water, filtered, µg/L (01000)	Boron, water, filtered, µg/L (01020)	Selenium, water, filtered, µg/L (01145)	1- Naphthol, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49295)	2,6- Diethyl- aniline, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82660)	2-Chloro- 2',6'- diethyl- acetanil- ide, water, filtered, recover- able, µg/L (61618)	2-Chloro-4- isopropyl- amino-6- amino-s- triazine, water, filtered, recover- able, µg/L (04040)
10-19-2011	1110	1.84	< 1.4	1.0	10.8	0.14	< .036	< .006	< .01	< .006
12-21-2011	1200	1.68	< 1.4	.96	13.7	.17	< .036	< .006	< .01	E .005
01-04-2012	1110	1.78	< 1.4	.61	9.1	.11	< .036	< .006	< .01	< .006
01-26-2012	1400	1.65	1.5	.56	9.7	.10	< .036	< .006	< .01	< .006
02-07-2012	1110	1.47	< 1.4	.59	10.9	.09	< .036	< .006	< .01	< .006
02-22-2012	1130	1.77	< 1.4	.74	11.8	.14	< .036	< .006	< .01	.007
03-07-2012	1210	1.85	< 1.4	.68	12.3	.13	< .036	< .006	< .01	.008
03-21-2012	1210	1.54	< 1.4	.65	10.5	.13	< .036	< .006	< .01	E .004
04-18-2012	1210	1.76	< 1.4	.71	10.5	.13	< .036	< .006	< .01	E .001
05-09-2012	1100	1.31	< 1.4	.62	7.6	.10	< .036	< .006	< .01	E .005
05-23-2012	1210	1.41	< 1.4	.74	8.4	.11	< .036	< .006	< .01	E .005
06-20-2012	1210	1.19	< 1.4	.66	7.0	.12	< .036	< .006	< .01	E .004
08-22-2012	1220	1.28	< 1.4	.77	7.0	.18	< .036	< .006	< .01	< .006



## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

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[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	2-Ethyl-6-methyl-aniline, water, filtered, recoverable, µg/L (61620)	3,4-Dichloro-aniline, water, filtered, recoverable, µg/L (61625)	3,5-Di-chloro-aniline, water, filtered, recoverable, µg/L (61627)	4-Chloro-2-methyl-phenol, water, filtered, recoverable, µg/L (61633)	Aceto-chlor, water, filtered, recoverable, µg/L (49260)	Alachlor, water, filtered, recoverable, µg/L (46342)	alpha-Endo-sulfan, water, filtered, recoverable, µg/L (34362)	Atrazine, water, filtered, recoverable, µg/L (39632)	Azinphos-methyl oxygen analog, water, filtered, recoverable, µg/L (61635)
10-19-2011	1110	< .01	< .006	< .006	< .008	< .01	< .008	< .006	< .008	< .042
12-21-2011	1200	< .01	< .006	< .006	< .008	< .01	< .008	< .006	< .008	< .042
01-04-2012	1110	< .01	< .006	< .006	< .008	< .01	< .008	< .006	.012	< .042
01-26-2012	1400	< .01	E .003	< .006	< .008	< .01	< .008	< .006	.015	< .042
02-07-2012	1110	< .01	< .006	< .006	< .008	< .01	< .008	< .006	E .006	< .042
02-22-2012	1130	< .01	< .006	< .006	< .008	< .01	< .008	< .006	E .007	< .042
03-07-2012	1210	< .01	< .006	< .006	< .008	< .01	< .008	< .006	.010	< .042
03-21-2012	1210	< .01	< .006	< .006	< .008	< .01	< .008	< .006	E .008	< .042
04-18-2012	1210	< .01	E .002	< .006	< .008	< .01	< .008	< .006	E .004	< .042
05-09-2012	1100	< .01	< .006	< .006	< .008	< .01	< .008	< .006	E .005	< .042
05-23-2012	1210	< .01	< .006	< .006	< .008	< .01	< .008	< .006	< .008	< .042
06-20-2012	1210	< .01	< .006	< .006	< .008	< .01	< .008	< .006	< .008	< .042
08-22-2012	1220	< .01	< .006	< .006	< .008	< .01	< .008	< .006	< .008	< .042

## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 8 of 16

[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82686)	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82673)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82680)	Carbofuran, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82674)	Chlorpyrifos oxygen analog, water, filtered, recoverable, µg/L (61636)	Chlorpyrifos, water, filtered, recoverable, µg/L (38933)	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82687)	cis-Propiconazole, water, filtered, recoverable, µg/L (79846)
10-19-2011	1110	< .12	< .014	< .06	< .06	< .08	< .0036	< .01	< .008
12-21-2011	1200	< .12	< .014	< .06	< .06	< .08	< .0036	< .01	< .008
01-04-2012	1110	< .12	< .014	E .006	< .06	< .08	< .0036	< .01	< .008
01-26-2012	1400	< .12	< .014	< .06	< .06	< .08	< .0036	< .01	< .008
02-07-2012	1110	< .12	< .014	< .06	< .06	< .08	< .0036	< .01	E .005
02-22-2012	1130	< .12	< .014	< .06	< .06	< .08	< .0036	< .01	E .004
03-07-2012	1210	< .12	< .014	< .06	< .06	< .08	< .0036	< .01	E .005
03-21-2012	1210	< .12	< .014	< .06	< .06	< .08	< .0036	< .01	< .008
04-18-2012	1210	< .12	< .014	< .06	< .06	< .08	< .0036	< .01	< .008
05-09-2012	1100	< .12	< .014	E .003	< .06	< .08	< .0036	< .01	E .001
05-23-2012	1210	< .12	< .014	E .003	< .06	< .08	< .0036	< .01	< .008
06-20-2012	1210	< .12	< .014	< .06	< .06	< .08	< .0036	< .01	< .008
08-22-2012	1220	< .12	< .014	< .06	< .06	< .08	< .0036	< .01	< .008

## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 9 of 16

[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Cyanazine, water, filtered, recoverable, µg/L (04041)	Cyfluthrin, water, filtered, recoverable, µg/L (61585)	Cypermethrin, water, filtered, recoverable, µg/L (61586)	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82682)	Desulfinyl-fipronil amide, water, filtered, recoverable, µg/L (62169)	Desulfinyl-fipronil, water, filtered, recoverable, µg/L (62170)	Diazinon, water, filtered, recoverable, µg/L (39572)	Dichlorvos, water, filtered, recoverable, µg/L (38775)	Dicrotophos, water, filtered, recoverable, µg/L (38454)
10-19-2011	1110	< .022	< .016	< .02	< .0076	< .029	< .012	< .006	< .04	< .08
12-21-2011	1200	< .022	< .016	< .02	< .0076	< .029	< .012	< .006	< .04	< .08
01-04-2012	1110	< .022	< .016	< .02	< .0076	< .029	< .012	< .006	< .04	< .08
01-26-2012	1400	< .022	< .016	< .02	< .0076	< .029	< .012	< .006	< .04	< .08
02-07-2012	1110	< .022	< .016	< .02	< .0076	< .029	< .012	< .006	< .04	< .08
02-22-2012	1130	< .022	< .016	< .02	E .0027	< .029	< .012	< .006	< .04	< .08
03-07-2012	1210	< .022	< .016	< .02	< .0076	< .029	< .012	< .006	< .04	< .08
03-21-2012	1210	< .022	< .016	< .02	< .0076	< .029	< .012	< .006	< .04	< .08
04-18-2012	1210	< .022	< .016	< .02	E .0023	< .029	< .012	< .006	< .04	< .08
05-09-2012	1100	< .022	< .016	< .02	E .0018	< .029	< .012	< .006	< .04	< .08
05-23-2012	1210	< .022	< .016	< .02	E .0020	< .029	< .012	< .006	< .04	< .08
06-20-2012	1210	< .022	< .016	< .02	< .0076	< .029	< .012	< .006	< .04	< .08
08-22-2012	1220	< .022	< .016	< .02	< .0076	< .029	< .012	< .006	< .04	< .08

## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 10 of 16

[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Dieldrin, water, filtered, recoverable, µg/L (39381)	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82662)	Disulfoton sulfone, water, filtered, recoverable, µg/L (61640)	Disulfoton, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82677)	Endosulfan sulfate, water, filtered, recoverable, µg/L (61590)	EPTC, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82668)	Ethion monoxon, water, filtered, recoverable, µg/L (61644)	Ethion, water, filtered, recoverable, µg/L (82346)	Ethoprop, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82672)
10-19-2011	1110	< .008	< .01	< .014	< .04	< .016	< .0056	< .021	< .01	< .016
12-21-2011	1200	< .008	< .01	< .014	< .04	< .016	< .0056	< .021	< .01	< .016
01-04-2012	1110	< .008	< .01	< .014	< .04	< .016	< .0056	< .021	< .01	< .016
01-26-2012	1400	< .008	< .01	< .014	< .04	< .016	< .0056	< .021	< .01	< .016
02-07-2012	1110	< .008	< .01	< .014	< .04	< .016	< .0056	< .021	< .01	< .016
02-22-2012	1130	< .008	< .01	< .014	< .04	< .016	< .0056	< .021	< .01	E .009
03-07-2012	1210	< .008	< .01	< .014	< .04	< .016	< .0056	< .021	< .01	< .016
03-21-2012	1210	< .008	< .01	< .014	< .04	< .016	< .0056	< .021	< .01	< .016
04-18-2012	1210	< .008	< .01	< .014	< .04	< .016	< .0056	< .021	< .01	< .016
05-09-2012	1100	< .008	< .01	< .014	< .04	< .016	E .0021	< .021	< .01	< .016
05-23-2012	1210	< .008	< .01	< .014	< .04	< .016	.0068	< .021	< .01	< .016
06-20-2012	1210	< .008	< .01	< .014	< .04	< .016	E .0019	< .021	< .01	< .016
08-22-2012	1220	< .008	< .01	< .014	< .04	< .016	< .0056	< .021	< .01	< .016

## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 11 of 16

[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Fenami-phos sulfone, water, filtered, recoverable, µg/L (61645)	Fenami-phos sulfoxide, water, filtered, recoverable, µg/L (61646)	Fenami-phos, water, filtered, recoverable, µg/L (61591)	Fipronil sulfide, water, filtered, recoverable, µg/L (62167)	Fipronil sulfone, water, filtered, recoverable, µg/L (62168)	Fipronil, water, filtered, recoverable, µg/L (62166)	Fonofos, water, filtered, recoverable, µg/L (04095)	Hexa-zinone, water, filtered, recoverable, µg/L (04025)	Iprodione, water, filtered, recoverable, µg/L (61593)
10-19-2011	1110	< .054	< .08	< .03	< .012	< .024	< .018	< .0048	< .012	< .014
12-21-2011	1200	< .054	< .08	< .03	< .012	< .024	< .018	< .0048	< .012	< .014
01-04-2012	1110	< .054	< .08	< .03	< .012	< .024	< .018	< .0048	< .012	< .014
01-26-2012	1400	< .054	--	< .03	< .012	< .024	< .018	< .0048	< .012	< .014
02-07-2012	1110	< .054	< .08	< .03	< .012	< .024	< .018	< .0048	< .012	< .014
02-22-2012	1130	< .054	< .08	< .03	< .012	< .024	< .018	< .0048	< .012	< .014
03-07-2012	1210	< .054	< .08	< .03	< .012	< .024	< .018	< .0048	< .012	< .014
03-21-2012	1210	< .054	< .08	< .03	< .012	< .024	< .018	< .0048	< .012	< .014
04-18-2012	1210	< .054	< .08	< .03	< .012	< .024	< .018	< .0048	E .006	< .014
05-09-2012	1100	< .054	< .08	< .03	< .012	< .024	< .018	< .0048	E .004	< .014
05-23-2012	1210	< .054	< .08	< .03	< .012	< .024	< .018	< .0048	E .003	< .014
06-20-2012	1210	< .054	< .08	< .03	< .012	< .024	< .018	< .0048	< .012	< .014
08-22-2012	1220	< .054	< .08	< .03	< .012	< .024	< .018	< .0048	< .012	< .014

## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 12 of 16

[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Isofen-phos, water, filtered, recoverable, µg/L (61594)	lambda-Cyhalothrin, water, filtered, recoverable, µg/L (61595)	Malaoxon, water, filtered, recoverable, µg/L (61652)	Malathion, water, filtered, recoverable, µg/L (39532)	Metalaxyl, water, filtered, recoverable, µg/L (61596)	Methidathion, water, filtered, recoverable, µg/L (61598)	Methyl parathion, water, filtered, recoverable, µg/L (61664)	Methyl parathion, water, filtered, (0.7 micron glass fiber filter), recoverable, µg/L (82667)	Metolachlor, water, filtered, recoverable, µg/L (39415)
10-19-2011	1110	< .008	< .01	< .022	< .016	< .014	< .012	< .014	< .008	0.01
12-21-2011	1200	< .008	< .01	< .022	< .016	< .014	< .012	< .014	< .008	.01
01-04-2012	1110	< .008	< .01	< .022	< .016	< .014	< .012	< .014	< .008	.01
01-26-2012	1400	< .008	< .01	< .022	< .016	< .014	< .012	< .014	< .008	.01
02-07-2012	1110	< .008	< .01	< .022	< .016	< .014	< .012	< .014	< .008	.01
02-22-2012	1130	< .008	< .01	< .022	< .016	< .014	< .012	< .014	< .008	.01
03-07-2012	1210	< .008	< .01	< .022	< .016	< .014	< .012	< .014	< .008	.01
03-21-2012	1210	< .008	< .01	< .022	< .016	< .014	< .012	< .014	< .008	E .01
04-18-2012	1210	< .008	< .01	< .022	< .016	< .014	< .012	< .014	< .008	.01
05-09-2012	1100	< .008	< .01	< .022	< .016	< .014	< .012	< .014	< .008	.01
05-23-2012	1210	< .008	< .01	< .022	< .016	< .014	< .012	< .014	< .008	.01
06-20-2012	1210	< .008	< .01	< .022	< .016	< .014	< .012	< .014	< .008	.01
08-22-2012	1220	< .008	< .01	< .022	< .016	< .014	< .012	< .014	< .008	.01

## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 13 of 16

[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Metri- buzin, water, filtered, recover- able, µg/L (82630)	Molinate, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82671)	Myclo- butanil, water, filtered, recover- able, µg/L (61599)	Oxy- fluorfen, water, filtered, recover- able, µg/L (61600)	Pendi- methalin, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82683)	Phorate oxygen analog, water, filtered, recover- able, µg/L (61666)	Phorate, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82664)	Phosmet oxygen analog, water, filtered, recover- able, µg/L (61668)	Phosmet, water, filtered, recover- able, µg/L (61601)
10-19-2011	1110	< .012	< .004	< .01	< .01	< .012	< .027	< .02	< .0511	< .08
12-21-2011	1200	< .012	< .004	< .01	< .01	< .012	< .027	< .02	< .0511	< .08
01-04-2012	1110	.021	< .004	< .01	< .01	< .012	< .027	< .02	< .0511	< .08
01-26-2012	1400	< .012	< .004	< .01	< .01	< .012	< .027	< .02	--	--
02-07-2012	1110	< .012	< .004	< .01	< .01	< .012	< .027	< .02	< .0511	< .08
02-22-2012	1130	E .008	< .004	< .01	< .01	< .012	< .027	< .02	< .0511	< .08
03-07-2012	1210	E .010	< .004	< .01	< .01	< .012	< .027	< .02	< .0511	< .08
03-21-2012	1210	< .012	< .004	< .01	< .01	< .012	< .027	< .02	< .0511	< .08
04-18-2012	1210	< .012	< .004	< .01	< .01	< .012	< .027	< .02	< .0511	< .08
05-09-2012	1100	< .012	< .004	< .01	< .01	< .012	< .027	< .02	< .0511	< .08
05-23-2012	1210	< .012	< .004	< .01	< .01	< .012	< .027	< .02	< .0511	< .08
06-20-2012	1210	< .012	< .004	< .01	< .01	< .012	< .027	< .02	< .0511	< .08
08-22-2012	1220	< .012	< .004	< .01	< .01	< .012	< .027	< .02	< .0511	< .08

## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

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[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Prometon, water, filtered, recoverable, µg/L (04037)	Prometryn, water, filtered, recoverable, µg/L (04036)	Propanil, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82679)	Propargite, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82685)	Propyz-amide, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82676)	Simazine, water, filtered, recoverable, µg/L (04035)	Tebu-thiuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82670)	Tefluthrin, water, filtered, recoverable, µg/L (61606)	Terbufos oxygen analog sulfone, water, filtered, recoverable, µg/L (61674)
10-19-2011	1110	< .012	< .01	< .01	< .02	< .0036	< .006	< .028	< .014	< .045
12-21-2011	1200	< .012	< .01	< .01	< .02	< .0036	< .006	< .028	< .014	< .045
01-04-2012	1110	< .012	< .01	< .01	< .02	.0062	.012	< .028	< .014	< .045
01-26-2012	1400	< .012	< .01	< .02	< .02	< .0036	.010	< .028	< .014	< .045
02-07-2012	1110	< .012	< .01	< .01	< .02	< .0036	.006	< .028	< .014	< .045
02-22-2012	1130	< .012	< .01	< .01	< .02	< .0060	.007	< .028	< .014	< .045
03-07-2012	1210	< .012	< .01	< .01	< .02	.0071	.008	< .028	< .014	< .045
03-21-2012	1210	< .012	< .01	< .01	< .02	.0042	.010	< .028	< .014	< .045
04-18-2012	1210	< .012	< .01	< .01	< .02	< .0036	E .005	< .028	< .014	< .045
05-09-2012	1100	< .012	< .01	< .01	< .02	< .0036	.007	< .028	< .014	< .045
05-23-2012	1210	< .012	< .01	< .01	< .02	< .0036	< .006	< .028	< .014	< .045
06-20-2012	1210	< .012	< .01	< .01	< .02	< .0036	< .006	< .028	< .014	< .045
08-22-2012	1220	< .012	< .01	< .01	< .02	< .0036	< .006	< .028	< .014	< .045



## 14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued

**WATER-QUALITY DATA**  
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[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82675)	Terbuthylazine, water, filtered, recoverable, µg/L (04022)	Thioben-carb, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82681)	trans-Propiconazole, water, filtered, recoverable, µg/L (79847)	Tribuphos, water, filtered, recoverable, µg/L (61610)	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82661)	Organic carbon, suspended sediment, total, mg/L (00689)	Organic carbon, water, filtered, mg/L (00681)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)
10-19-2011	1110	< .018	< .008	< .016	E .007	< .018	< .018	0.13	1.6	94
12-21-2011	1200	< .018	< .008	< .016	< .018	< .018	< .018	.12	1.4	95
01-04-2012	1110	< .018	< .008	< .016	E .006	< .018	< .018	.64	1.8	99
01-26-2012	1400	< .018	< .008	< .016	< .018	< .018	< .018	.63	1.8	--
02-07-2012	1110	< .018	< .008	< .016	E .006	< .018	< .018	.43	1.3	85
02-22-2012	1130	< .018	< .008	< .016	E .011	< .018	< .018	.56	1.4	63
03-07-2012	1210	< .018	< .008	< .016	E .007	< .018	< .018	.47	1.5	83
03-21-2012	1210	< .018	< .008	< .016	< .018	< .018	< .018	.53	1.4	68
04-18-2012	1210	< .018	< .008	< .016	< .018	< .018	< .018	.28	1.7	67
05-09-2012	1100	< .018	< .008	< .016	E .003	< .018	< .018	.26	1.8	40
05-23-2012	1210	< .018	< .008	< .016	< .018	< .018	< .018	.54	2.2	43
06-20-2012	1210	< .018	< .008	< .016	< .018	< .018	< .018	.35	1.9	38
08-22-2012	1220	< .018	< .008	< .016	< .018	< .018	< .018	.21	1.5	85

**14246900 COLUMBIA RIVER AT BEAVER ARMY TERMINAL, NEAR QUINCY, OR—Continued**

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2011 TO SEPTEMBER  
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[CaCO<sub>3</sub>, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)
10-19-2011	1110	3	E 1,310
12-21-2011	1200	4	E 1,770
01-04-2012	1110	22	E 17,000
01-26-2012	1400	46	E 51,900
02-07-2012	1110	12	E 7,420
02-22-2012	1130	19	E 14,000
03-07-2012	1210	10	E 7,290
03-21-2012	1210	31	E 33,600
04-18-2012	1210	17	E 18,800
05-09-2012	1100	34	E 42,300
05-23-2012	1210	30	E 36,300
06-20-2012	1210	25	E 28,000
08-22-2012	1220	9	E 5,520