



Water-Data Report 2011

01648010 ROCK CREEK AT JOYCE RD WASHINGTON, DC

Potomac Basin
Middle Potomac-Anacostia-Occoquan Subbasin

LOCATION.--Lat 38°57'36.6", long 77°02'31.4" referenced to North American Datum of 1927, Washington, DC, Hydrologic Unit 02070010, on right bank at downstream side of bridge on Joyce Road.

DRAINAGE AREA.--63.7 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Intermittent water-quality records for this station 1999 to 2006; December 2006 to present.

INSTRUMENTATION.--Automatic sampler, February 2007 to current year. Continuous water-quality monitor, June 2012 to current year.

REMARKS.--Beginning March 2008 to present, all nutrient parameters analyzed by the USGS National Water Quality Laboratory (NWQL) in Denver, Colorado, and bacteria parameters 50569 and 50468 analyzed at the USGS MD-DE-DC Water Science Center (WSC) in Baltimore, Maryland. Suspended sediment (parameters 80154 and 70331) analyzed by the USGS Sediment Laboratory in Louisville, Kentucky.

Continuous discharge is measured upstream at station 01648000 (Rock Creek at Sherrill Drive at Washington, D.C.). A discharge rating is maintained between the 01648010 site (Joyce Road) and the Sherrill Drive station and is available from the USGS MD-DE-DC WSC. Instantaneous discharge values presented for this station were computed based on discharge measurements and runoff comparison with station 01648000, Rock Creek at Sherrill Drive, Washington, D.C.

COOPERATION.--Montgomery County Department of Environmental Protection.

01648010 ROCK CREEK AT JOYCE RD WASHINGTON, DC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 10

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; ft³/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; <, less than; >, greater than]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)
				(00025)	(00020)	(00061)	(00300)	(00301)
10-06-2010	1030	Surface water	Regular	761	12.5	104	9.4	--
11-02-2010	1000	Surface water	Regular	769	6.0	23	10.7	91
11-04-2010	1200	Surface water	Regular	--	--	459	--	--
11-04-2010	1545	Surface water	Regular	--	--	575	--	--
11-04-2010	2345	Surface water	Regular	--	--	247	--	--
12-01-2010	1015	Surface water	Regular	--	--	291	--	--
12-01-2010	1400	Surface water	Regular	--	--	1,010	--	--
12-01-2010	1630	Surface water	Regular	--	--	627	--	--
12-15-2010	1330	Surface water	Regular	758	-1.5	51	13.9	95
01-19-2011	1230	Surface water	Regular	755	9.5	41	12.9	98
02-02-2011	1200	Surface water	Regular	748	3.0	356	12.8	94
02-08-2011	1130	Surface water	Regular	760	3.8	85	13.4	101
02-28-2011	1845	Surface water	Regular	--	--	330	--	--
02-28-2011	2000	Surface water	Regular	--	--	352	--	--
03-01-2011	0230	Surface water	Regular	--	--	189	--	--
03-01-2011	1205	QC sample - Artificial	Blank	--	--	--	--	--
03-04-2011	1330	Surface water	Regular	772	11.0	45	13.9	110
03-06-2011	1700	Surface water	Regular	--	--	479	--	--
03-06-2011	1930	Surface water	Regular	--	--	1,170	--	--
03-07-2011	0330	Surface water	Regular	--	--	786	--	--
03-11-2011	1245	Surface water	Replicate	754	--	344	10.7	93
03-11-2011	1250	QC sample - Surface water	Replicate	--	--	--	--	--
03-11-2011	1251	QC sample - Surface water	Other QA	--	--	--	--	--
03-11-2011	1252	QC sample - Surface water	Other QA	--	--	--	--	--
03-11-2011	1253	QC sample - Surface water	Other QA	--	--	--	--	--
04-12-2011	0930	Surface water	Regular	--	--	125	--	--
04-16-2011	1515	Surface water	Regular	--	--	323	--	--
04-16-2011	2300	Surface water	Regular	--	--	859	--	--
04-17-2011	0300	Surface water	Regular	--	--	688	--	--
04-19-2011	0945	Surface water	Regular	759	21.0	160	9.6	93
05-11-2011	1000	Surface water	Regular	764	18.5	42	9.0	92
05-11-2011	1005	QC sample - Artificial	Blank	--	--	--	--	--
06-07-2011	0845	Surface water	Regular	762	26.0	19	7.5	84
06-15-2011	1100	Surface water	Replicate	764	25.0	13	8.4	93
06-15-2011	1105	QC sample - Artificial	Blank	--	--	--	--	--
06-15-2011	1110	QC sample - Surface water	Replicate	--	--	--	--	--
06-28-2011	2315	Surface water	Regular	--	--	306	--	--
06-29-2011	0030	Surface water	Regular	--	--	354	--	--
06-29-2011	0300	Surface water	Regular	--	--	164	--	--
07-07-2011	0945	Surface water	Regular	761	28.5	13	7.2	87

01648010 ROCK CREEK AT JOYCE RD WASHINGTON, DC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 10

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; ft³/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; <, less than; >, greater than]

Date	Sample start time	pH, water, unfiltered, field, standard (00400)	pH, water, unfiltered, laboratory, standard (00403)	Specific conduc- tance, unfiltered, laboratory, µS/cm at 25 °C (90095)	Specific conduc- tance, water, unfiltered, laboratory, µS/cm at 25 °C (00095)	Tempera- ture, water, °C (00010)	Turbidity, water, unfiltered, mono- chrome near infra- red LED light, 780- 900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)	Sampler type (84164)
10-06-2010	1030	7.5	--	218	213	--	10	Weighted-bottle
11-02-2010	1000	7.5	--	--	395	8.9	1.0	Weighted-bottle
11-04-2010	1200	--	--	--	--	--	--	Sampler point auto
11-04-2010	1545	--	--	--	--	--	--	Sampler point auto
11-04-2010	2345	--	--	--	--	--	--	Sampler point auto
12-01-2010	1015	--	--	--	--	--	--	Sampler point auto
12-01-2010	1400	--	--	--	--	--	--	Sampler point auto
12-01-2010	1630	--	--	--	--	--	--	Sampler point auto
12-15-2010	1330	7.6	--	--	369	.0	3.6	Weighted-bottle
01-19-2011	1230	7.5	--	--	8,390	2.3	14	Weighted-bottle
02-02-2011	1200	7.4	--	--	2,200	1.7	150	Weighted-bottle
02-08-2011	1130	7.6	--	--	928	3.6	6.6	Weighted-bottle
02-28-2011	1845	--	--	--	--	--	--	Sampler point auto
02-28-2011	2000	--	--	--	--	--	--	Sampler point auto
03-01-2011	0230	--	--	--	--	--	--	Sampler point auto
03-01-2011	1205	--	--	--	--	--	--	--
03-04-2011	1330	8.0	--	--	861	5.8	3.7	Weighted-bottle
03-06-2011	1700	--	--	--	--	--	--	Sampler point auto
03-06-2011	1930	--	--	--	--	--	--	Sampler point auto
03-07-2011	0330	--	--	--	--	--	--	Sampler point auto
03-11-2011	1245	7.3	--	--	350	8.8	100	Sampler point auto
03-11-2011	1250	--	--	--	--	--	--	Weighted-bottle
03-11-2011	1251	--	--	--	--	--	--	Weighted-bottle
03-11-2011	1252	--	--	--	--	--	--	Weighted-bottle
03-11-2011	1253	--	--	--	--	--	--	Weighted-bottle
04-12-2011	0930	--	--	--	--	--	--	Sampler point auto
04-16-2011	1515	--	--	--	--	--	--	Sampler point auto
04-16-2011	2300	--	--	--	--	--	--	Sampler point auto
04-17-2011	0300	--	--	--	--	--	--	Sampler point auto
04-19-2011	0945	7.4	--	--	287	13.6	32	Weighted-bottle
05-11-2011	1000	7.7	--	--	443	16.5	3.2	Weighted-bottle
05-11-2011	1005	--	--	--	--	--	--	--
06-07-2011	0845	7.5	--	--	516	21.1	3.7	Weighted-bottle
06-15-2011	1100	7.7	--	--	549	20.2	3.1	Weighted-bottle
06-15-2011	1105	--	--	--	--	--	--	--
06-15-2011	1110	--	--	--	--	--	--	Sampler point auto
06-28-2011	2315	--	--	--	--	--	--	Sampler point auto
06-29-2011	0030	--	--	--	--	--	--	Sampler point auto
06-29-2011	0300	--	--	--	--	--	--	Sampler point auto
07-07-2011	0945	7.4	--	--	484	24.4	2.6	Weighted-bottle

01648010 ROCK CREEK AT JOYCE RD WASHINGTON, DC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 10

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; ft³/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; <, less than; >, greater than]

Date	Sample start time	Sampling method (82398)	Source of blank solution (99101)	Source of reference material (99103)	Type of blank sample (99102)	Type of blank solution (99100)	Type of replicate (99105)	Suspended solids, water, unfiltered, mg/L (00530)
10-06-2010	1030	Multiple verticals	--	--	--	--	--	--
11-02-2010	1000	Multiple verticals	--	--	--	--	--	--
11-04-2010	1200	Point sample	--	--	--	--	--	94
11-04-2010	1545	Point sample	--	--	--	--	--	131
11-04-2010	2345	Point sample	--	--	--	--	--	66
12-01-2010	1015	Point sample	--	--	--	--	--	42
12-01-2010	1400	Point sample	--	--	--	--	--	672
12-01-2010	1630	Point sample	--	--	--	--	--	446
12-15-2010	1330	Multiple verticals	--	--	--	--	--	--
01-19-2011	1230	Multiple verticals	--	--	--	--	--	--
02-02-2011	1200	Grab sample(dip)	--	--	--	--	--	--
02-08-2011	1130	Multiple verticals	--	--	--	--	--	--
02-28-2011	1845	Point sample	--	--	--	--	--	112
02-28-2011	2000	Point sample	--	--	--	--	--	176
03-01-2011	0230	Point sample	--	--	--	--	--	92
03-01-2011	1205	--	--	--	--	--	--	--
03-04-2011	1330	Multiple verticals	--	--	--	--	--	--
03-06-2011	1700	Point sample	--	--	--	--	--	232
03-06-2011	1930	Point sample	--	--	--	--	--	984
03-07-2011	0330	Point sample	--	--	--	--	--	636
03-11-2011	1245	Point sample	--	--	--	--	--	138
03-11-2011	1250	Multiple verticals	--	--	--	--	Concurrent	160
03-11-2011	1251	Grab sample(dip)	--	--	--	--	Other	--
03-11-2011	1252	Grab sample(dip)	--	--	--	--	Other	--
03-11-2011	1253	Grab sample(dip)	--	--	--	--	Other	--
04-12-2011	0930	Point sample	--	--	--	--	--	20
04-16-2011	1515	Point sample	--	--	--	--	--	42
04-16-2011	2300	Point sample	--	--	--	--	--	388
04-17-2011	0300	Point sample	--	--	--	--	--	624
04-19-2011	0945	Multiple verticals	--	--	--	--	--	--
05-11-2011	1000	Multiple verticals	--	--	--	--	--	--
05-11-2011	1005	--	USGSNWQL	USGSNWQL	Field	Inorganic-free water	--	--
06-07-2011	0845	Multiple verticals	--	--	--	--	--	--
06-15-2011	1100	Multiple verticals	--	--	--	--	--	< 15
06-15-2011	1105	--	USGSNWQL	--	Sampler	Inorganic-free water	--	< 15
06-15-2011	1110	Point sample	--	--	--	--	Concurrent	< 15
06-28-2011	2315	Point sample	--	--	--	--	--	108
06-29-2011	0030	Point sample	--	--	--	--	--	382
06-29-2011	0300	Point sample	--	--	--	--	--	178
07-07-2011	0945	Multiple verticals	--	--	--	--	--	--

01648010 ROCK CREEK AT JOYCE RD WASHINGTON, DC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 4 of 10

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; ft³/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; <, less than; >, greater than]

Date	Sample start time	Ammonia		Nitrate		Organic		Total		Esche-richia coli, Defined Substrate	Tech-nology, water, MPN/100 mL (50468)
		plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	plus nitrite, water, filtered, mg/L as N (00631)	Nitrate, water, filtered, mg/L as N (00618)	Nitrite, water, filtered, mg/L as N (00613)	nitrogen, water, unfiltered, mg/L (00605)	Phosphorus, water, unfiltered, mg/L as P (00665)	nitrogen, water, unfiltered, mg/L (00600)		
10-06-2010	1030	.59	.094	.66	.641	.019	.50	.05	1.3	120	
11-02-2010	1000	.28	<.010	.71	.703	.009	<.28	.03	.99	76	
11-04-2010	1200	.80	<.010	.42	.412	.005	<.80	.26	1.2	6,100	
11-04-2010	1545	.97	<.010	.23	.228	.006	<.97	.28	1.2	8,900	
11-04-2010	2345	.68	<.010	.31	.314	<.001	<.68	.18	.99	7,400	
12-01-2010	1015	.64	<.010	.90	.897	.007	<.64	.12	1.5	5,600	
12-01-2010	1400	2.7	<.010	.34	.330	.009	<2.7	.62	3.0	16,000	
12-01-2010	1630	2.4	<.010	.27	.259	.008	<2.4	.47	2.7	14,000	
12-15-2010	1330	.34	.023	1.33	1.32	.008	.31	.04	1.7	78	
01-19-2011	1230	1.1	.368	1.49	1.45	.034	.75	.06	2.6	2,100	
02-02-2011	1200	--	--	--	--	--	--	--	--	1,900	
02-08-2011	1130	.45	.065	1.43	1.41	.012	.38	.04	1.9	1,300	
02-28-2011	1845	1.0	.056	.91	.879	.032	.97	.17	1.9	1,900	
02-28-2011	2000	1.4	.054	.97	.938	.028	1.3	.21	2.3	1,100	
03-01-2011	0230	.95	.081	.82	.791	.029	.87	.15	1.8	880	
03-01-2011	1205	--	--	--	--	--	--	--	--	<1	
03-04-2011	1330	.24	<.010	1.42	1.41	.012	<.24	.03	1.7	110	
03-06-2011	1700	1.6	.048	.86	.830	.026	1.6	.33	2.5	2,400	
03-06-2011	1930	3.4	.085	.54	.520	.015	3.3	.88	4.0	3,700	
03-07-2011	0330	2.4	.072	.45	.434	.011	2.3	.62	2.8	1,200	
03-11-2011	1245	1.0	.063	.77	.756	.010	.94	.17	1.8	1,100	
03-11-2011	1250	.96	.059	.78	.770	.010	.90	.16	1.7	1,000	
03-11-2011	1251	--	--	--	--	--	--	--	--	1,200	
03-11-2011	1252	--	--	--	--	--	--	--	--	--	
03-11-2011	1253	--	--	--	--	--	--	--	--	820	
04-12-2011	0930	.50	.041	1.06	1.04	.014	.46	.06	1.6	730	
04-16-2011	1515	.95	.043	1.05	1.03	.021	.91	.13	2.0	--	
04-16-2011	2300	2.5	.053	.56	.543	.013	2.5	.36	3.1	--	
04-17-2011	0300	3.1	.060	.42	.408	.013	3.0	.58	3.5	--	
04-19-2011	0945	.65	.051	.92	.907	.014	.60	.07	1.6	460	
05-11-2011	1000	.32	--	1.17	1.15	.019	--	.04	1.5	390	
05-11-2011	1005	<.05	.020	.03	.033	<.001	<.03	<.01	<.08	<1	
06-07-2011	0845	.38	.096	1.10	1.08	.024	.28	.04	1.5	400	
06-15-2011	1100	.28	.055	.91	.898	.016	.23	.05	1.2	290	
06-15-2011	1105	<.05	.014	<.02	<.020	<.001	<.04	<.01	<.07	<1	
06-15-2011	1110	.33	.056	.91	.894	.016	.27	.04	1.2	250	
06-28-2011	2315	.96	.048	.76	.747	.010	.91	.24	1.7	800	
06-29-2011	0030	2.7	.056	.98	.950	.031	2.6	.58	3.7	61,000	
06-29-2011	0300	1.9	.053	.75	.706	.048	1.9	.36	2.7	37,000	
07-07-2011	0945	.40	.030	.62	.609	.010	.37	.05	1.0	220	

01648010 ROCK CREEK AT JOYCE RD WASHINGTON, DC—Continued
**WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 5 of 10

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode;
 MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus;
 ft³/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; <, less than; >, greater than]

Date	Sample start time	MPN/100 mL (50569)	Suspended sediment,			
			Defined Total coliform, Substrate Technology, water,	diameter, mm	Suspended percent smaller than 0.0625	Suspended sediment concentration, mg/L (80154)
10-06-2010	1030	> 2,400	--	--	12	3.4
11-02-2010	1000	1,300	--	--	2	.13
11-04-2010	1200	> 240,000	--	--	187	232
11-04-2010	1545	240,000	77	--	162	252
11-04-2010	2345	> 240,000	--	--	120	80
12-01-2010	1015	160,000	85	--	74	58
12-01-2010	1400	> 240,000	70	--	966	2,630
12-01-2010	1630	> 240,000	81	--	641	1,090
12-15-2010	1330	> 2,400	--	--	4	.55
01-19-2011	1230	29,000	--	--	12	1.3
02-02-2011	1200	25,000	--	--	--	--
02-08-2011	1130	7,300	--	--	7	1.6
02-28-2011	1845	22,000	--	--	132	118
02-28-2011	2000	20,000	--	--	291	277
03-01-2011	0230	28,000	--	--	122	62
03-01-2011	1205	< 1	--	--	--	--
03-04-2011	1330	2,400	--	--	7	.85
03-06-2011	1700	28,000	94	--	295	382
03-06-2011	1930	52,000	73	--	1,740	5,500
03-07-2011	0330	33,000	74	--	1,720	3,650
03-11-2011	1245	> 2,400	--	--	--	--
03-11-2011	1250	> 24,000	89	--	153	--
03-11-2011	1251	> 24,000	90	--	174	--
03-11-2011	1252	--	91	--	181	--
03-11-2011	1253	> 24,000	95	--	147	--
04-12-2011	0930	6,500	--	--	49	16
04-16-2011	1515	--	--	--	88	77
04-16-2011	2300	--	--	--	529	1,230
04-17-2011	0300	--	75	--	1,320	2,450
04-19-2011	0945	> 2,400	--	--	31	13
05-11-2011	1000	> 2,400	--	--	6	.68
05-11-2011	1005	< 1	--	--	< .5	--
06-07-2011	0845	6,500	--	--	8	.41
06-15-2011	1100	7,300	--	--	9	.31
06-15-2011	1105	17	--	--	1	--
06-15-2011	1110	7,300	--	--	8	--
06-28-2011	2315	> 24,000	--	--	140	116
06-29-2011	0030	> 24,000	--	--	478	457
06-29-2011	0300	> 24,000	--	--	254	113
07-07-2011	0945	> 24,000	--	--	5	.18

01648010 ROCK CREEK AT JOYCE RD WASHINGTON, DC—Continued
WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 6 of 10

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; ft³/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; <, less than; >, greater than]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg	Tempera-	Discharge,	Dissolved oxygen, water, unfiltered, % saturation	
				(00025)	(00020)	ture, air, °C	(00061)	(00300)
07-08-2011	1845	Surface water	Regular	--	--	1,020	--	--
07-08-2011	2000	Surface water	Regular	--	--	1,270	--	--
07-08-2011	2230	Surface water	Regular	--	--	803	--	--
08-04-2011	1045	Surface water	Regular	757	26.0	12	7.3	87
08-14-2011	1515	Surface water	Regular	--	23.5	138	--	--
08-14-2011	2030	Surface water	Regular	--	23.7	44	--	--
08-15-2011	0030	Surface water	Regular	--	22.1	220	--	--
08-27-2011	2230	Surface water	Regular	--	--	799	--	--
08-28-2011	0400	Surface water	Regular	--	--	1,200	--	--
08-28-2011	1000	Surface water	Regular	--	--	486	--	--
09-07-2011	1145	Surface water	Regular	--	--	890	--	--
09-07-2011	1415	Surface water	Regular	--	--	1,360	--	--
09-08-2011	1115	Surface water	Regular	--	--	1,440	--	--
09-14-2011	1030	Surface water	Regular	763	25.0	71	8.4	93

01648010 ROCK CREEK AT JOYCE RD WASHINGTON, DC—Continued
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[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; ft³/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; <, less than; >, greater than]

Date	Sample start time	pH, water, unfiltered, field,	pH, water, unfiltered, laboratory,	Specific conductance, water, unfiltered, laboratory,	Specific conductance, water, unfiltered, laboratory,	Temperature, water, °C	Turbidity, water, unfiltered, mono- chrome near infra- red LED light, 780- 900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)	Sampler type (84164)
		standard units (00400)	standard units (00403)	µS/cm at 25 °C (90095)	µS/cm at 25 °C (00095)	(00010)		
07-08-2011	1845	--	--	--	--	--	--	Sampler point auto
07-08-2011	2000	--	--	--	--	--	--	Sampler point auto
07-08-2011	2230	--	--	--	--	--	--	Sampler point auto
08-04-2011	1045	7.7	8.0	571	597	23.7	1.1	Weighted-bottle
08-14-2011	1515	--	--	--	--	--	--	Sampler point auto
08-14-2011	2030	--	--	--	--	--	--	Sampler point auto
08-15-2011	0030	--	--	--	--	--	--	Sampler point auto
08-27-2011	2230	--	--	--	--	--	--	Sampler point auto
08-28-2011	0400	--	--	--	--	--	--	Sampler point auto
08-28-2011	1000	--	--	--	--	--	--	Sampler point auto
09-07-2011	1145	--	--	--	--	--	--	Sampler point auto
09-07-2011	1415	--	--	--	--	--	--	Sampler point auto
09-08-2011	1115	--	--	--	--	--	--	Sampler point auto
09-14-2011	1030	7.2	--	--	271	20.9	6.2	Weighted-bottle

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[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; ft³/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; <, less than; >, greater than]

Date	Sample start time	Sampling method (82398)	Source of blank solution (99101)	Source of reference material (99103)	Type of blank sample (99102)	Type of blank solution (99100)	Type of replicate (99105)	Suspended solids, water, unfiltered, mg/L (00530)
07-08-2011	1845	Point sample	--	--	--	--	--	1,040
07-08-2011	2000	Point sample	--	--	--	--	--	2,900
07-08-2011	2230	Point sample	--	--	--	--	--	2,730
08-04-2011	1045	Multiple verticals	--	--	--	--	--	--
08-14-2011	1515	Point sample	--	--	--	--	--	34
08-14-2011	2030	Point sample	--	--	--	--	--	< 15
08-15-2011	0030	Point sample	--	--	--	--	--	222
08-27-2011	2230	Point sample	--	--	--	--	--	1,270
08-28-2011	0400	Point sample	--	--	--	--	--	356
08-28-2011	1000	Point sample	--	--	--	--	--	396
09-07-2011	1145	Point sample	--	--	--	--	--	712
09-07-2011	1415	Point sample	--	--	--	--	--	736
09-08-2011	1115	Point sample	--	--	--	--	--	206
09-14-2011	1030	Multiple verticals	--	--	--	--	--	--

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[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; ft³/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; <, less than; >, greater than]

Date	Sample start time	Ammonia		Nitrate		Organic		Total		Esche-richia coli, Defined Substrate	Technology, water, MPN/100 mL
		plus organic nitrogen, water, unfiltered,	Ammonia, water, filtered,	plus nitrite, water, filtered,	Nitrate, water, filtered,	Nitrite, water, filtered,	nitrogen, water, unfiltered,	Phosphorus, water, unfiltered,	nitrogen, water, unfiltered,		
		mg/L as N (00625)	mg/L as N (00608)	mg/L as N (00631)	mg/L as N (00618)	mg/L as N (00613)	mg/L (00605)	mg/L as P (00665)	mg/L (00600)		
07-08-2011	1845	6.0	1.18	.26	.236	.020	4.8	1.12	6.2	31,000	
07-08-2011	2000	14	.610	.27	.249	.018	13	1.53	14	61,000	
07-08-2011	2230	7.7	.374	.30	.285	.018	7.4	1.34	8.1	61,000	
08-04-2011	1045	.45	.043	.60	.588	.008	.40	.05	1.0	460	
08-14-2011	1515	.61	.039	.59	.580	.011	.57	.12	1.2	8,300	
08-14-2011	2030	.57	.052	.70	.690	.014	.52	.10	1.3	5,500	
08-15-2011	0030	1.3	.094	.49	.479	.011	1.2	.32	1.8	28,000	
08-27-2011	2230	8.2	2.83	.11	.104	.006	5.4	1.23	8.3	26,000	
08-28-2011	0400	5.2	1.57	.10	.099	.006	3.6	1.04	5.3	18,000	
08-28-2011	1000	2.4	.612	.10	.093	.006	1.8	.79	2.5	22,000	
09-07-2011	1145	8.7	5.40	.03	.026	.002	3.3	.53	8.7	10,000	
09-07-2011	1415	6.7	3.87	.05	.050	.004	2.9	1.33	6.8	21,000	
09-08-2011	1115	1.0	.051	.39	.381	.007	.96	.27	1.4	14,000	
09-14-2011	1030	.53	.031	.67	.660	.006	.50	.06	1.2	520	

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[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode;
 MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus;
 ft³/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; <, less than; >, greater than]

Date	Sample start time	MPN/100 mL (50569)	Suspended			
			Total coliform, Defined Substrate Technology, water,	diameter, percent smaller than 0.0625	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)
07-08-2011	1845	> 240,000	59	2,460	6,770	
07-08-2011	2000	> 240,000	63	11,900	40,800	
07-08-2011	2230	> 240,000	70	5,220	11,300	
08-04-2011	1045	9,800	--	3	.09	
08-14-2011	1515	> 240,000	--	45	17	
08-14-2011	2030	73,000	--	21	2.5	
08-15-2011	0030	> 240,000	--	317	188	
08-27-2011	2230	> 240,000	35	7,270	15,700	
08-28-2011	0400	> 240,000	39	6,020	19,500	
08-28-2011	1000	> 240,000	63	1,890	2,480	
09-07-2011	1145	> 240,000	20	7,260	17,400	
09-07-2011	1415	> 240,000	31	8,230	30,200	
09-08-2011	1115	> 240,000	17	2,050	7,970	
09-14-2011	1030	> 2,400	--	9	1.7	