

Water-Data Report 2012

01548303 Straight Run, Site 1, at Marsh Creek, PA

West Branch Susquehanna Basin
Pine Subbasin

LOCATION.--Lat 41°47'05", long 77°24'08" referenced to North American Datum of 1927, Tioga County, PA, Hydrologic Unit 02050205, located on right, upstream end of bridge spanning Straight Run, on Township Road T452 (Straight Run Road), 0.9 mi upstream from mouth.

DRAINAGE AREA.--6.48 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1984 to September 1985, July 2012 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,220 ft above National Geodetic Vertical Datum of 1929, from topographic map.

COOPERATION.--Station established and maintained by the U.S. Geological Survey.

REMARKS.--Records fair. No estimated daily discharges. Satellite telemetry at station.

01548303 Straight Run, Site 1, at Marsh Creek, PA—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	---	2.2	0.25
2	---	---	---	---	---	---	---	---	---	---	0.90	0.24
3	---	---	---	---	---	---	---	---	---	---	0.68	0.27
4	---	---	---	---	---	---	---	---	---	---	0.57	0.74
5	---	---	---	---	---	---	---	---	---	---	0.56	1.0
6	---	---	---	---	---	---	---	---	---	---	0.56	1.1
7	---	---	---	---	---	---	---	---	---	---	0.47	2.2
8	---	---	---	---	---	---	---	---	---	---	0.42	2.5
9	---	---	---	---	---	---	---	---	---	---	0.41	1.8
10	---	---	---	---	---	---	---	---	---	---	0.84	0.93
11	---	---	---	---	---	---	---	---	---	---	0.57	0.68
12	---	---	---	---	---	---	---	---	---	---	0.49	0.60
13	---	---	---	---	---	---	---	---	---	---	0.46	0.55
14	---	---	---	---	---	---	---	---	---	---	0.63	0.51
15	---	---	---	---	---	---	---	---	---	---	2.4	0.65
16	---	---	---	---	---	---	---	---	---	---	0.75	0.54
17	---	---	---	---	---	---	---	---	---	---	0.60	0.49
18	---	---	---	---	---	---	---	---	---	---	0.54	7.0
19	---	---	---	---	---	---	---	---	---	0.58	0.44	3.4
20	---	---	---	---	---	---	---	---	---	2.2	0.40	1.3
21	---	---	---	---	---	---	---	---	---	1.3	0.39	0.89
22	---	---	---	---	---	---	---	---	---	0.84	0.37	1.2
23	---	---	---	---	---	---	---	---	---	0.70	0.32	0.91
24	---	---	---	---	---	---	---	---	---	0.63	0.31	0.63
25	---	---	---	---	---	---	---	---	---	0.57	0.30	0.55
26	---	---	---	---	---	---	---	---	---	0.98	0.27	0.47
27	---	---	---	---	---	---	---	---	---	2.2	0.30	0.48
28	---	---	---	---	---	---	---	---	---	1.3	0.71	0.75
29	---	---	---	---	---	---	---	---	---	0.84	0.36	0.71
30	---	---	---	---	---	---	---	---	---	0.65	0.31	0.58
31	---	---	---	---	---	---	---	---	---	1.4	0.29	---
Total	---	---	---	---	---	---	---	---	---	---	18.82	33.92
Mean	---	---	---	---	---	---	---	---	---	---	0.61	1.13
Max	---	---	---	---	---	---	---	---	---	---	2.4	7.0
Min	---	---	---	---	---	---	---	---	---	---	0.27	0.24
Cfsm	---	---	---	---	---	---	---	---	---	---	0.09	0.17
In.	---	---	---	---	---	---	---	---	---	---	0.11	0.19

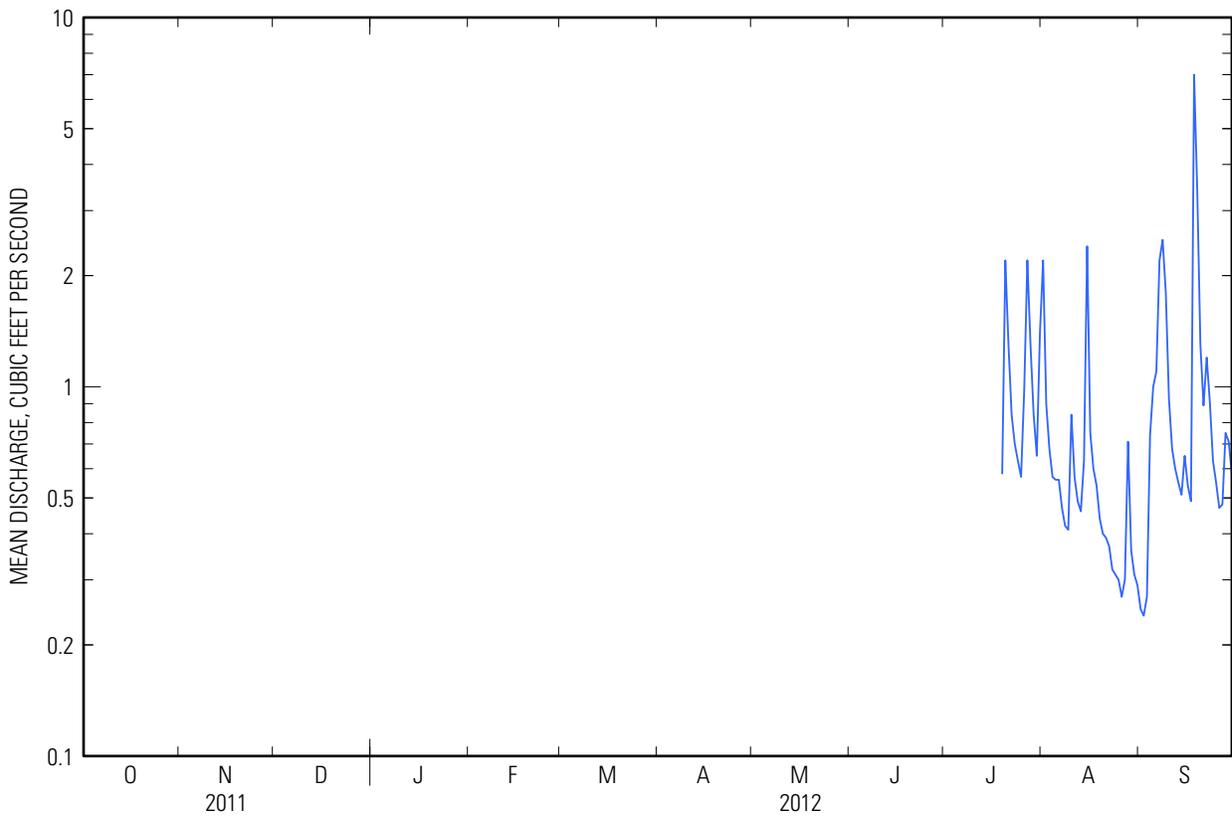
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF DAILY RECORD, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.10	4.49	18.5	7.69	10.3	17.9	10.8	3.35	3.98	1.97	7.55	1.24
Max	1.10	4.49	18.5	7.69	10.3	17.9	10.8	3.35	3.98	1.97	20.0	1.38
(WY)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1984)	(1985)
Min	1.10	4.49	18.5	7.69	10.3	17.9	10.8	3.35	3.98	1.97	0.61	1.13
(WY)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(2012)	(2012)

01548303 Straight Run, Site 1, at Marsh Creek, PA—Continued

SUMMARY STATISTICS

For Period of Daily Record		
Annual mean	6.95	
Highest annual mean	6.95	1985
Lowest annual mean	6.95	1985
Highest daily mean	165	Aug 13, 1984
Lowest daily mean	0.24	Sep 2, 2012
Annual seven-day minimum	0.32	Aug 21, 2012
Maximum peak flow	290	Aug 12, 1984
Maximum peak stage	2.60	Aug 12, 1984
Instantaneous low flow	0.20	Sep 2, 2012
Annual runoff (cfsm)	1.07	
Annual runoff (inches)	14.57	
10 percent exceeds	19	
50 percent exceeds	3.2	
90 percent exceeds	0.88	



01548303 Straight Run, Site 1, at Marsh Creek, PA—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--2012 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 2012 to current year.

pH: July 2012 to current year.

WATER TEMPERATURE: July 2012 to current year.

DISSOLVED OXYGEN: July 2012 to current year.

TURBIDITY: July 2012 to current year.

INSTRUMENTATION.--Water-quality monitor interfaced with data collection platform with 15-minute recording interval.

REMARKS.--Water temperature, specific conductance, pH, and dissolved oxygen records rated good. Turbidity records rated fair. The reporting precision of the turbidity probe in low turbidity water is +/-0.3 FNU. The lowest reportable value, 0 FNU, does not necessarily indicate a condition of zero turbidity.

COOPERATION.--Station established and maintained by the U.S. Geological Survey.

**CROSS-SECTION ANALYSES
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

[ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter]

Date	Sample start time	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Location in cross section, distance from left bank looking downstream, ft (00009)
08-10-2012	1145	9.4	7.4	87.0	17.1	1.50
08-10-2012	1146	9.4	7.4	87.0	17.0	4.50
08-10-2012	1147	9.4	7.4	87.0	17.0	7.50
08-10-2012	1148	9.4	7.4	87.0	17.1	10.5
08-10-2012	1149	9.4	7.4	87.0	17.1	13.5

01548303 Straight Run, Site 1, at Marsh Creek, PA—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
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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01548303 Straight Run, Site 1, at Marsh Creek, PA—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
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

01548303 Straight Run, Site 1, at Marsh Creek, PA—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	---	---	---	---	---	---	18.4	15.9	16.9	19.1	15.3	16.6
2	---	---	---	---	---	---	19.8	16.3	17.6	18.0	14.7	16.2
3	---	---	---	---	---	---	20.1	16.3	17.8	16.4	16.1	16.2
4	---	---	---	---	---	---	20.1	17.2	18.4	17.3	16.3	16.7
5	---	---	---	---	---	---	19.2	17.9	18.4	18.1	16.4	17.0
6	---	---	---	---	---	---	20.2	16.8	18.1	19.2	15.7	17.1
7	---	---	---	---	---	---	19.7	15.3	17.0	19.0	16.3	17.2
8	---	---	---	---	---	---	20.0	15.6	17.3	17.3	15.0	16.6
9	---	---	---	---	---	---	20.2	16.4	17.8	15.4	13.8	14.6
10	---	---	---	---	---	---	17.7	17.0	17.2	15.0	12.2	13.4
11	---	---	---	---	---	---	19.1	16.5	17.3	14.6	10.8	12.5
12	---	---	---	---	---	---	17.3	15.7	16.5	15.7	11.5	13.2
13	---	---	---	---	---	---	17.8	15.3	16.3	16.4	12.4	14.0
14	---	---	---	---	---	---	18.9	15.7	17.0	17.0	13.6	14.9
15	---	---	---	---	---	---	17.7	16.1	16.8	15.0	12.5	13.7
16	---	---	---	---	---	---	18.5	15.3	16.5	14.7	11.4	12.7
17	---	---	---	---	---	---	16.6	15.7	16.2	15.1	11.4	12.9
18	---	---	---	---	---	---	17.8	14.3	15.6	14.5	13.1	13.8
19	---	---	---	19.9	17.6	18.4	16.2	13.0	14.5	13.8	11.0	12.5
20	---	---	---	17.6	16.0	16.5	16.4	13.9	15.0	13.2	9.7	11.3
21	---	---	---	17.4	15.7	16.4	16.6	13.9	15.0	13.4	11.7	12.5
22	---	---	---	18.3	15.5	16.8	17.1	13.1	14.8	14.5	12.7	13.6
23	---	---	---	20.8	16.4	18.1	17.8	13.7	15.4	12.7	10.4	11.5
24	---	---	---	20.8	17.5	18.7	17.7	14.0	15.6	12.0	9.5	10.5
25	---	---	---	19.8	15.3	17.2	18.2	14.7	16.2	12.5	8.3	10.3
26	---	---	---	19.1	16.5	17.3	17.8	15.2	16.4	12.7	11.4	12.0
27	---	---	---	19.1	16.8	17.5	19.2	16.2	17.2	14.1	11.4	12.6
28	---	---	---	18.0	16.8	17.2	19.3	16.5	17.4	12.5	11.7	12.2
29	---	---	---	19.5	16.1	17.3	17.5	14.4	15.7	12.3	10.7	11.5
30	---	---	---	18.4	15.0	16.6	17.0	13.0	14.7	12.2	10.4	11.2
31	---	---	---	18.3	16.4	17.1	17.7	12.8	15.1	---	---	---
Month	---	---	---	20.8	15.0	17.3	20.2	12.8	16.5	19.2	8.3	13.7

01548303 Straight Run, Site 1, at Marsh Creek, PA—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		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

01548303 Straight Run, Site 1, at Marsh Creek, PA—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	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

01548303 Straight Run, Site 1, at Marsh Creek, PA—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		
1	---	---	---	---	---	---	82	76	79	94	90	93
2	---	---	---	---	---	---	85	82	83	95	90	93
3	---	---	---	---	---	---	87	83	85	97	95	96
4	---	---	---	---	---	---	87	85	86	97	88	94
5	---	---	---	---	---	---	88	85	87	90	86	88
6	---	---	---	---	---	---	88	84	87	92	64	88
7	---	---	---	---	---	---	88	84	87	89	75	84
8	---	---	---	---	---	---	88	84	87	90	78	85
9	---	---	---	---	---	---	88	84	87	86	82	84
10	---	---	---	---	---	---	87	84	85	89	86	87
11	---	---	---	---	---	---	87	84	86	91	87	89
12	---	---	---	---	---	---	88	85	86	92	89	91
13	---	---	---	---	---	---	88	85	87	93	90	92
14	---	---	---	---	---	---	90	68	87	95	91	93
15	---	---	---	---	---	---	83	72	78	94	91	93
16	---	---	---	---	---	---	86	82	84	97	93	95
17	---	---	---	---	---	---	88	85	87	97	92	95
18	---	---	---	---	---	---	89	85	87	97	59	77
19	---	---	---	86	82	85	89	85	88	76	67	73
20	---	---	---	85	77	79	90	86	89	80	76	78
21	---	---	---	83	79	80	90	87	89	84	76	82
22	---	---	---	86	81	83	90	86	89	83	77	82
23	---	---	---	88	83	86	91	87	89	84	81	83
24	---	---	---	88	84	87	92	87	90	84	82	84
25	---	---	---	88	84	87	93	88	91	86	83	84
26	---	---	---	87	81	85	93	89	92	88	86	87
27	---	---	---	86	62	81	94	89	92	88	85	87
28	---	---	---	85	80	82	93	81	89	87	84	86
29	---	---	---	86	82	84	92	88	91	86	84	85
30	---	---	---	87	84	86	92	87	91	87	84	86
31	---	---	---	87	75	84	93	88	91	---	---	---
Month	---	---	---	88	62	84	94	68	87	97	59	87

01548303 Straight Run, Site 1, at Marsh Creek, PA—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	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---

01548303 Straight Run, Site 1, at Marsh Creek, PA—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	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---

01548303 Straight Run, Site 1, at Marsh Creek, PA—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
	June			July			August			September		
1	---	---	---	---	---	---	7.7	7.5	7.5	8.0	7.5	7.6
2	---	---	---	---	---	---	7.8	7.5	7.5	8.0	7.6	7.6
3	---	---	---	---	---	---	7.8	7.5	7.5	7.6	7.4	7.5
4	---	---	---	---	---	---	7.9	7.5	7.5	7.7	7.4	7.5
5	---	---	---	---	---	---	7.8	7.5	7.5	7.8	7.4	7.5
6	---	---	---	---	---	---	7.9	7.5	7.6	7.8	7.4	7.5
7	---	---	---	---	---	---	7.9	7.6	7.6	7.7	7.4	7.5
8	---	---	---	---	---	---	7.9	7.5	7.6	7.6	7.5	7.5
9	---	---	---	---	---	---	8.0	7.5	7.6	7.7	7.5	7.5
10	---	---	---	---	---	---	7.7	7.5	7.5	7.8	7.5	7.6
11	---	---	---	---	---	---	7.9	7.5	7.6	7.8	7.5	7.6
12	---	---	---	---	---	---	7.8	7.5	7.6	7.8	7.5	7.6
13	---	---	---	---	---	---	7.9	7.5	7.6	7.9	7.5	7.6
14	---	---	---	---	---	---	8.0	7.4	7.5	7.9	7.5	7.6
15	---	---	---	---	---	---	7.8	7.4	7.5	7.9	7.5	7.6
16	---	---	---	---	---	---	7.9	7.5	7.5	7.9	7.6	7.6
17	---	---	---	---	---	---	7.7	7.5	7.6	7.9	7.6	7.6
18	---	---	---	---	---	---	7.9	7.5	7.6	7.6	7.3	7.5
19	---	---	---	7.8	7.5	7.5	7.9	7.5	7.6	7.6	7.4	7.5
20	---	---	---	7.6	7.4	7.5	7.9	7.5	7.6	7.7	7.5	7.5
21	---	---	---	7.8	7.5	7.5	7.9	7.5	7.6	7.8	7.4	7.5
22	---	---	---	7.8	7.4	7.5	7.9	7.6	7.6	7.7	7.4	7.5
23	---	---	---	7.8	7.4	7.5	8.0	7.6	7.6	7.7	7.5	7.5
24	---	---	---	7.8	7.5	7.5	8.0	7.6	7.6	7.7	7.5	7.5
25	---	---	---	7.8	7.5	7.5	8.0	7.6	7.6	7.8	7.5	7.5
26	---	---	---	7.8	7.4	7.5	7.9	7.5	7.6	7.6	7.4	7.5
27	---	---	---	7.8	7.4	7.4	8.0	7.4	7.5	7.8	7.5	7.5
28	---	---	---	7.7	7.4	7.5	7.9	7.4	7.6	7.6	7.5	7.5
29	---	---	---	7.8	7.5	7.5	8.0	7.6	7.6	7.7	7.5	7.5
30	---	---	---	7.8	7.5	7.5	8.0	7.6	7.6	7.8	7.5	7.5
31	---	---	---	7.8	7.5	7.5	8.0	7.5	7.6	---	---	---
Max	---	---	---	7.8	7.5	7.5	8.0	7.6	7.6	8.0	7.6	7.6
Min	---	---	---	7.6	7.4	7.4	7.7	7.4	7.5	7.6	7.3	7.5

01548303 Straight Run, Site 1, at Marsh Creek, PA—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	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---

01548303 Straight Run, Site 1, at Marsh Creek, PA—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	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---

01548303 Straight Run, Site 1, at Marsh Creek, PA—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	---	---	---	---	---	---	9.8	9.0	9.3	9.8	8.8	9.2
2	---	---	---	---	---	---	9.6	8.8	9.2	10.1	8.8	9.3
3	---	---	---	---	---	---	9.7	8.8	9.1	9.3	8.9	9.1
4	---	---	---	---	---	---	9.7	8.7	9.1	9.6	8.9	9.1
5	---	---	---	---	---	---	9.6	8.7	9.0	9.6	8.8	9.1
6	---	---	---	---	---	---	9.6	8.8	9.1	9.6	8.6	9.1
7	---	---	---	---	---	---	9.9	8.9	9.3	9.4	8.7	9.1
8	---	---	---	---	---	---	9.8	8.8	9.3	9.3	8.8	9.0
9	---	---	---	---	---	---	9.8	8.7	9.2	10.0	9.3	9.6
10	---	---	---	---	---	---	9.4	8.7	9.0	10.4	9.6	9.9
11	---	---	---	---	---	---	9.5	8.7	9.0	10.8	9.8	10.2
12	---	---	---	---	---	---	9.9	9.0	9.3	10.7	9.6	10.1
13	---	---	---	---	---	---	10.1	9.0	9.4	10.4	9.4	9.9
14	---	---	---	---	---	---	9.9	8.8	9.4	10.3	9.1	9.7
15	---	---	---	---	---	---	9.9	9.1	9.4	10.3	9.3	9.9
16	---	---	---	---	---	---	9.9	9.2	9.5	10.6	9.7	10.1
17	---	---	---	---	---	---	10.0	9.3	9.5	10.6	9.6	10.1
18	---	---	---	---	---	---	10.2	9.4	9.7	9.8	9.5	9.7
19	---	---	---	9.6	8.6	9.0	10.8	9.6	10.1	10.5	9.8	10.2
20	---	---	---	9.5	8.8	9.3	10.6	9.6	10	10.9	10.0	10.4
21	---	---	---	9.9	9.2	9.5	10.8	9.7	10.1	10.6	9.6	10.1
22	---	---	---	9.9	9.0	9.4	10.8	9.8	10.2	10.1	9.6	9.7
23	---	---	---	9.6	8.6	9.1	10.7	9.6	10.1	10.8	9.8	10.4
24	---	---	---	9.2	8.6	8.8	10.8	9.7	10.2	11.1	10.4	10.7
25	---	---	---	9.7	8.8	9.1	10.7	9.5	10.1	11.3	10.3	10.8
26	---	---	---	9.7	8.6	9.1	10.9	9.5	10.0	10.5	9.9	10.2
27	---	---	---	9.6	8.8	9.1	10.6	8.6	9.5	10.7	9.9	10.2
28	---	---	---	9.7	9.0	9.2	9.6	8.6	9.0	10.5	10.0	10.2
29	---	---	---	9.7	8.9	9.2	10.0	9.0	9.4	10.9	10.2	10.4
30	---	---	---	9.9	9.0	9.4	10.4	9.2	9.7	10.9	10.2	10.5
31	---	---	---	9.8	9.0	9.3	10.3	8.9	9.5	---	---	---
Month	---	---	---	9.9	8.6	9.2	10.9	8.6	9.5	11.3	8.6	9.9

01548303 Straight Run, Site 1, at Marsh Creek, PA—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
 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	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---

01548303 Straight Run, Site 1, at Marsh Creek, PA—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
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	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---

01548303 Straight Run, Site 1, at Marsh Creek, PA—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
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	---	---	---	---	---	---	9.7	1.4	2.3	0.8	0.1	0.3
2	---	---	---	---	---	---	2.0	1.2	1.4	0.8	0.1	0.4
3	---	---	---	---	---	---	10	0.4	1.4	2.9	0.1	0.6
4	---	---	---	---	---	---	0.9	0.4	0.6	7.1	0.0	1.1
5	---	---	---	---	---	---	1.0	0.3	0.5	2.9	1.5	1.8
6	---	---	---	---	---	---	0.7	0.4	0.5	180	1.0	9.8
7	---	---	---	---	---	---	0.8	0.4	0.5	20	0.5	2.1
8	---	---	---	---	---	---	0.6	0.3	0.4	45	0.5	3.9
9	---	---	---	---	---	---	6.3	0.3	0.5	26	0.5	1.5
10	---	---	---	---	---	---	1.4	0.2	0.5	9.7	0.0	0.1
11	---	---	---	---	---	---	0.8	0.4	0.4	0.1	0.0	0.0
12	---	---	---	---	---	---	1.6	0.4	0.5	0.4	0.0	0.0
13	---	---	---	---	---	---	1.9	0.5	0.6	9.4	0.0	0.3
14	---	---	---	---	---	---	94	0.5	3.5	0.7	0.0	0.0
15	---	---	---	---	---	---	76	0.5	3.8	0.7	0.0	0.0
16	---	---	---	---	---	---	4.3	0.3	0.6	0.0	0.0	0.0
17	---	---	---	---	---	---	5.1	0.3	1.3	0.7	0.0	0.0
18	---	---	---	---	---	---	8.3	0.3	2.1	58	0.0	9.6
19	---	---	---	1.7	0.6	0.9	6.5	0.2	1.4	---	---	---
20	---	---	---	13	1.3	3.2	8.1	0.2	1.9	---	---	---
21	---	---	---	2.5	1.1	1.5	5.8	0.2	1.4	---	---	---
22	---	---	---	1.9	0.7	1.0	7.5	0.1	1.0	16	0.0	1.5
23	---	---	---	1.4	0.4	0.8	3.3	0.1	0.2	4.5	0.0	1.4
24	---	---	---	1.8	0.6	0.9	3.7	0.0	0.3	2.7	0.5	1.3
25	---	---	---	1.8	0.8	1.0	0.5	0.0	0.1	1.5	0.5	0.7
26	---	---	---	13	1.0	1.9	0.8	0.0	0.1	1.1	0.4	0.6
27	---	---	---	110	1.2	8.8	0.8	0.0	0.1	1.2	0.6	0.7
28	---	---	---	4.0	1.5	1.9	13	0.0	0.9	1.7	0.7	1.0
29	---	---	---	5.7	1.2	1.5	1.6	0.0	0.2	1.7	0.9	1.0
30	---	---	---	1.8	1.2	1.4	1.3	0.0	0.3	1.3	0.9	1.0
31	---	---	---	22	1.1	4.0	0.9	0.0	0.1	---	---	---
Month	---	---	---	110	0.4	2.2	94	0.0	0.9	180	0.0	1.5