

01610400 WAITES RUN NEAR WARDENSVILLE, WV

Potomac Basin
Cacapon-Town Subbasin

LOCATION.--Lat 39°02'33.8", long 78°35'54.0" referenced to North American Datum of 1983, Hardy County, WV, Hydrologic Unit 02070003, on left bank at downstream side of bridge on Waites Run Road, 2.6 mi south of Wardensville, 4.3 mi upstream from mouth, and 8.2 mi east of Baker.

DRAINAGE AREA.--12.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 2002 to current year (daily discharge and peaks).

GAGE.--Water-stage recorder. Datum of gage is 1,239.60 ft above NAVD 88 (VERTCON conversion of 1,240.00 ft above NGVD 29).

REMARKS.--Records fair except those for estimated daily discharges (ice effect, no gage-height record), which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 1	0845	437	5.23
Mar 10	2045	416	5.19
Apr 16	1845	1,690	6.52
May 18	0200	*1,720	*6.54
Jun 22	0115	368	5.17

Minimum discharge, 0.75 ft³/s, Aug. 1, 23, 24, gage height, 3.02 ft.

01610400 WAITES RUN NEAR WARDENSVILLE, WV—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	23	2.8	148	4.3	2.8	21	17	43	10	4.3	0.99	1.1
2	5.9	2.8	51	4.2	13	19	15	34	8.5	4.0	1.6	1.6
3	3.8	2.8	29	e3.8	12	17	14	30	7.6	4.6	1.8	1.3
4	3.4	8.4	21	e3.6	9.8	15	13	52	6.9	5.9	1.7	3.1
5	2.9	7.4	17	e3.6	9.0	13	24	37	7.9	4.8	1.3	43
6	2.5	5.2	14	e3.4	12	57	22	32	6.6	4.0	2.9	85
7	2.4	4.4	12	e3.4	e9.7	68	20	28	5.9	3.6	3.5	95
8	2.2	4.1	11	e3.2	e8.7	51	23	24	5.5	25	1.8	37
9	2.0	4.0	9.2	e3.2	e7.8	44	28	20	4.8	17	1.4	28
10	1.9	3.8	8.2	e3.1	e7.2	192	25	17	4.4	9.5	1.3	20
11	1.9	3.6	7.6	e3.1	e6.7	184	24	15	5.7	6.9	1.1	16
12	1.9	3.5	e6.9	e2.9	e6.4	95	55	13	5.3	5.8	1.0	14
13	1.9	3.4	e6.4	e2.9	6.0	69	113	13	4.6	5.1	1.3	12
14	2.3	3.4	e6.2	e2.9	6.4	53	79	12	4.3	4.6	2.0	13
15	2.4	3.4	e5.9	e2.8	5.9	41	61	30	4.2	4.2	1.4	15
16	2.1	4.2	e5.5	e2.8	5.4	35	469	26	4.3	3.8	1.3	11
17	2.1	10	e9.7	2.8	5.7	28	381	174	4.8	3.5	1.1	9.9
18	2.1	6.4	6.0	2.9	6.2	24	140	699	3.9	3.4	0.94	8.9
19	2.9	5.6	4.9	3.4	5.9	21	91	175	8.0	3.3	0.96	8.3
20	2.6	5.2	4.7	3.3	5.6	18	64	97	18	2.7	1.1	8.7
21	2.4	4.9	4.5	e3.1	6.0	20	47	64	8.7	2.1	0.94	7.8
22	2.3	4.8	4.4	e3.1	6.4	18	39	47	60	1.7	1.1	7.2
23	2.3	4.8	4.2	e2.9	5.7	19	39	37	13	1.6	0.84	14
24	2.3	4.5	4.1	e2.9	6.6	29	32	30	9.7	1.6	0.82	15
25	2.3	4.4	4.0	e2.9	23	26	29	25	7.6	1.6	0.95	43
26	2.5	4.3	4.0	4.5	19	22	25	22	6.3	1.6	1.2	40
27	6.5	4.1	4.1	4.6	16	20	26	22	6.0	1.5	1.5	35
28	3.2	3.9	4.5	3.3	21	20	152	17	5.8	1.3	5.8	31
29	2.8	3.7	3.6	2.9	---	18	80	14	5.1	1.1	2.1	26
30	2.8	4.7	3.7	3.0	---	17	54	13	4.5	0.98	1.5	22
31	2.8	---	3.9	2.8	---	17	---	11	---	0.94	1.2	---
Total	104.4	138.5	429.2	101.6	255.9	1,291	2,201	1,873	257.9	142.02	48.44	672.9
Mean	3.37	4.62	13.8	3.28	9.14	41.6	73.4	60.4	8.60	4.58	1.56	22.4
Max	23	10	148	4.6	23	192	469	699	60	25	5.8	95
Min	1.9	2.8	3.6	2.8	2.8	13	13	11	3.9	0.94	0.82	1.1
Cfsm	0.27	0.37	1.10	0.26	0.73	3.31	5.82	4.80	0.68	0.36	0.12	1.78
In.	0.31	0.41	1.27	0.30	0.76	3.81	6.50	5.53	0.76	0.42	0.14	1.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.47	17.7	18.6	16.0	12.5	30.3	33.3	27.5	11.8	4.55	2.83	13.2
Max	13.9	46.9	36.5	36.1	22.6	71.2	73.4	60.4	44.1	8.50	9.21	48.3
(WY)	(2004)	(2007)	(2004)	(2010)	(2003)	(2010)	(2011)	(2011)	(2003)	(2005)	(2003)	(2003)
Min	1.82	1.95	5.40	3.28	3.79	5.92	11.6	6.27	3.05	1.50	1.28	1.25
(WY)	(2010)	(2008)	(2008)	(2011)	(2002)	(2006)	(2006)	(2010)	(2007)	(2010)	(2010)	(2009)

01610400 WAITES RUN NEAR WARDENSVILLE, WV—Continued

SUMMARY STATISTICS

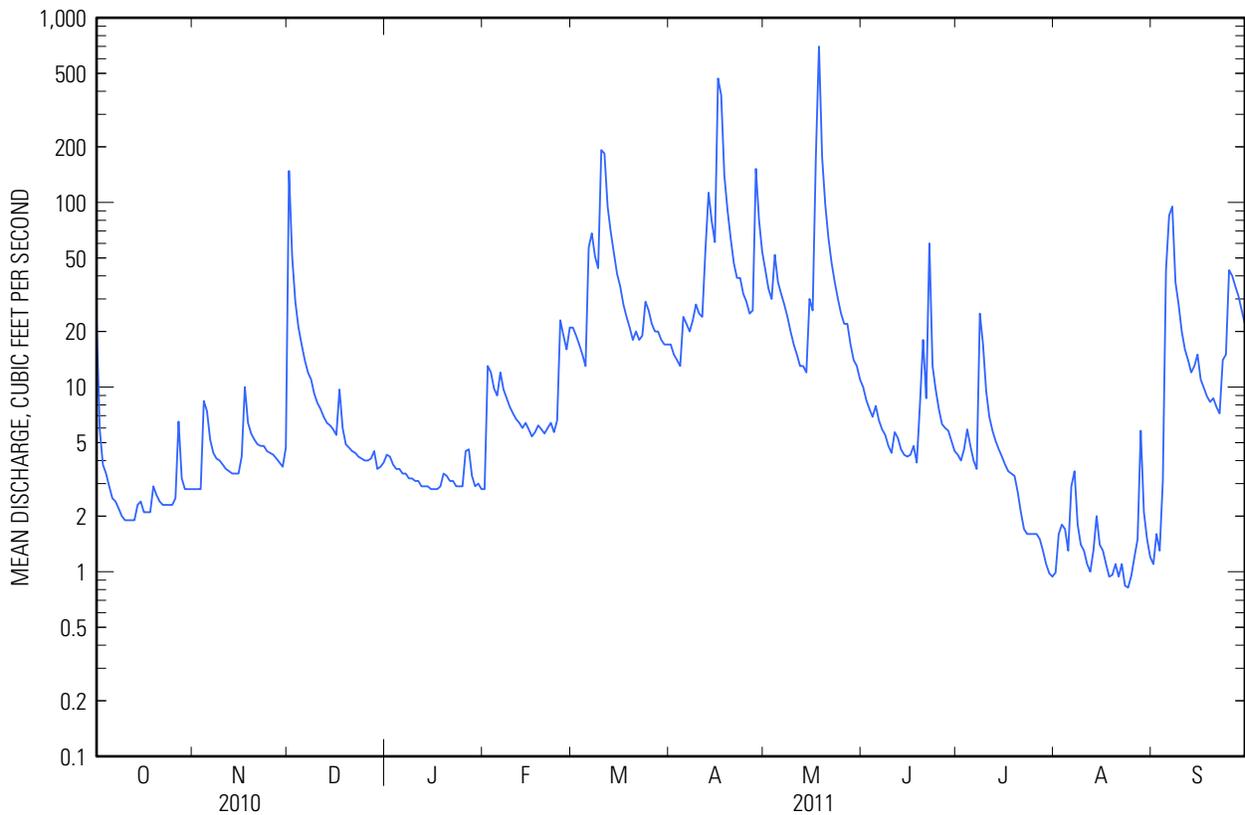
	Calendar Year 2010		Water Year 2011		Water Years 2002 - 2011	
Annual total	5,266.49		7,515.86			
Annual mean	14.4		20.6		16.6	
Highest annual mean					29.5	2003
Lowest annual mean					9.47	2009
Highest daily mean	446	Mar 13	699	May 18	699	May 18, 2011
Lowest daily mean	0.86	Sep 5 ^a	0.82	Aug 24	^e 0.78	Sep 14, 2002
Annual seven-day minimum	0.88	Sep 4	0.96	Aug 18	0.88	Sep 4, 2010
Maximum peak flow					^b 1,720	May 18, 2011
Maximum peak stage					6.54	May 18, 2011
Instantaneous low flow					0.75	Aug 1, 2011 ^c
Annual runoff (cfsm)	1.15		1.63		1.32	
Annual runoff (inches)	15.55		22.19		17.87	
10 percent exceeds	30		43		37	
50 percent exceeds	4.8		5.9		8.6	
90 percent exceeds	1.1		1.7		1.5	

^a Also Oct. 6.

^b From rating curve extended above 420 ft³/s.

^c Also Aug. 23, 24, 2011.

^e Estimated.



01610400 WAITES RUN NEAR WARDENSVILLE, WV—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2001 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 2002 to September 2004 (discontinued).

WATER TEMPERATURE: January 2002 to September 2004 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 156 microsiemens/cm (upstream bridge construction), July 27, 2004; minimum, 23 microsiemens/cm, Feb. 22, 2003.

WATER TEMPERATURE: Maximum, 24.5°C, July 3, 2002; minimum, 0.0°C, on many days during winter periods.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 15

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; g/m², grams per square meter; mg/L, milligrams per liter; mg/m², milligrams per square meter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

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)
10-14-2010	0845	Surface water	Regular	725	11.2	2.2	9.9	97
12-07-2010	1245	Surface water	Regular	722	-2.7	12	12.4	92
02-08-2011	0959	<i>QC sample - Artificial</i>	<i>Blank</i>	--	--	--	--	--
02-08-2011	1000	Surface water	Regular	725	-.7	E 8.7	15.1	110
04-12-2011	0915	Surface water	Regular	721	13.3	42	10.5	101
06-07-2011	0915	Surface water	Regular	731	23.2	6.3	9.3	99
06-07-2011	0916	<i>QC sample - Surface water</i>	<i>Replicate</i>	--	--	--	--	--
07-25-2011	1219	Periphyton (quantitative)	Regular	--	--	1.6	7.7	--
08-09-2011	0845	Surface water	Regular	721	21.8	1.3	8.4	98

01610400 WAITES RUN NEAR WARDENSVILLE, WV—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 15

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; g/m², grams per square meter; mg/L, milligrams per liter; mg/m², milligrams per square meter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	pH, water, unfiltered, field, standard units (00400)	pH, water, unfiltered, laboratory, standard units (00403)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery (99995)	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery (99994)	Sampler type (84164)	Sampling method (82398)
10-14-2010	0845	7.2	--	114	12.2	--	--	Grab sample	Multiple verticals
12-07-2010	1245	--	--	39	1.0	--	--	Grab sample	Single vertical
02-08-2011	0959	--	--	--	--	--	--	<i>Grab sample</i>	<i>Point sample</i>
02-08-2011	1000	6.7	--	44	.7	--	--	Grab sample	Multiple verticals
04-12-2011	0915	6.9	7.3	33	11.4	96.6	97.1	US DH-81	Multiple verticals
06-07-2011	0915	7.5	--	51	16.5	98.6	91.7	Grab sample	Multiple verticals
06-07-2011	0916	--	--	--	--	100	92.1	<i>Grab sample</i>	<i>Multiple verticals</i>
07-25-2011	1219	7.8	--	95	22.0	--	--	--	--
08-09-2011	0845	7.7	--	100	20.4	106	97.9	Grab sample	Single vertical

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 15

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Date	Sample start time	Source of blank solution (99101)	Type of blank sample (99102)	Type of blank solution (99100)	Type of replicate (99105)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO ₃ (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Chloride, water, filtered, mg/L (00940)
10-14-2010	0845	--	--	--	--	51	62	.63
12-07-2010	1245	--	--	--	--	10	13	.71
02-08-2011	0959	<i>USGSNWQL</i>	<i>Field</i>	<i>Inorganic-free water</i>	--	--	--	--
02-08-2011	1000	--	--	--	--	14	17	.71
04-12-2011	0915	--	--	--	--	7	8	.64
06-07-2011	0915	--	--	--	--	18	22	.59
06-07-2011	0916	--	--	--	<i>Concurrent</i>	18	22	.61
07-25-2011	1219	--	--	--	--	--	--	--
08-09-2011	0845	--	--	--	--	86	105	.57

01610400 WAITES RUN NEAR WARDENSVILLE, WV—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 4 of 15

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; g/m², grams per square meter; mg/L, milligrams per liter; mg/m², milligrams per square meter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N		Nitrite, water, filtered, mg/L as N (00613)	Organic nitrogen, water, unfiltered, mg/L (00605)	Orthophosphate, water, filtered, mg/L (00660)	Orthophosphate, water, filtered, mg/L as P (00671)
				(00631)	(00618)				
10-14-2010	0845	6.57	< .010	< .02	< .020	< .001	< .05	.020	.006
12-07-2010	1245	5.82	< .010	.11	.109	< .001	< .18	.019	.006
02-08-2011	0959	--	< .010	< .02	< .020	< .001	< .05	< .012	< .004
02-08-2011	1000	6.46	< .010	.18	.180	< .001	< .06	.014	.005
04-12-2011	0915	4.95	< .010	.09	.085	< .001	< .16	.021	.007
06-07-2011	0915	4.50	< .010	.02	.021	< .001	< .03	< .012	< .004
06-07-2011	0916	4.62	< .010	.02	.022	< .001	< .06	< .012	< .004
07-25-2011	1219	--	--	--	--	--	--	--	--
08-09-2011	0845	4.49	< .010	.05	.050	< .001	< .04	.016	.005

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 5 of 15

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; g/m², grams per square meter; mg/L, milligrams per liter; mg/m², milligrams per square meter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, analytically determined, mg/L (62855)	Biomass, periphyton, ash free dry mass, g/m ² (49954)	Biomass, periphyton, ash weight, grams per square meter (00572)	Biomass, periphyton, dry weight, grams per square meter (00573)	Biomass/c hlorophyll ratio, periphyton, number (70950)	Chlorophyll a, periphyton, chromatographic-fluorometric method, mg/m ² (70957)	Pheophytin a, periphyton, mg/m ² (62359)
12-07-2010	1245	.006	.29	--	--	--	--	--	--
02-08-2011	0959	< .004	< .05	--	--	--	--	--	--
02-08-2011	1000	.005	.24	--	--	--	--	--	--
04-12-2011	0915	.020	.25	--	--	--	--	--	--
06-07-2011	0915	.005	< .05	--	--	--	--	--	--
06-07-2011	0916	< .004	.09	--	--	--	--	--	--
07-25-2011	1219	--	--	1.3	23.0	24.3	E 134	E 9.7	E 3.0
08-09-2011	0845	.006	.10	--	--	--	--	--	--

01610400 WAITES RUN NEAR WARDENSVILLE, WV—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 6 of 15

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; g/m², grams per square meter; mg/L, milligrams per liter; mg/m², milligrams per square meter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	1-Naphthol,	2,6-Diethyl-	2-Chloro-	2-Chloro-4-	2-Ethyl-6-	3,4-	3,5-Di-	4-Chloro-2-	Aceto-
		water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49295)	water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82660)	2',6'-diethylacetanilide, water, filtered, recoverable, µg/L (61618)	isopropyl-amino-6-triazine, water, filtered, recoverable, µg/L (04040)	methyl-aniline, water, filtered, recoverable, µg/L (61620)	Dichloro-aniline, water, filtered, recoverable, µg/L (61625)	chloro-aniline, water, filtered, recoverable, µg/L (61627)	methyl-phenol, water, filtered, recoverable, µg/L (61633)	chlor, water, filtered, recoverable, µg/L (49260)
10-14-2010	0845	--	--	--	--	--	--	--	--	--
12-07-2010	1245	--	--	--	--	--	--	--	--	--
02-08-2011	0959	--	--	--	--	--	--	--	--	--
02-08-2011	1000	--	--	--	--	--	--	--	--	--
04-12-2011	0915	<.036	<.006	<.010	<.006	<.010	<.004	<.004	<.005	<.010
06-07-2011	0915	<.036	<.006	<.010	E.008	<.010	<.004	<.004	<.005	<.010
06-07-2011	0916	<.036	<.006	<.010	E.008	<.010	<.004	<.004	<.005	<.010
07-25-2011	1219	--	--	--	--	--	--	--	--	--
08-09-2011	0845	<.036	<.006	<.010	<.006	<.010	<.004	<.004	<.005	<.010

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 7 of 15

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Date	Sample start time	Alachlor,	alpha-Endo-	Atrazine,	Azinphos-	Azinphos-	Benfluralin,	Carbaryl,	Carbofuran,
		water, filtered, recoverable, µg/L (46342)	sulfan, water, filtered, recoverable, µg/L (34362)	water, filtered, recoverable, µg/L (39632)	methyl oxygen analog, water, filtered, recoverable, µg/L (61635)	methyl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82686)	water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82673)	water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82680)	water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82674)
10-14-2010	0845	--	--	--	--	--	--	--	--
12-07-2010	1245	--	--	--	--	--	--	--	--
02-08-2011	0959	--	--	--	--	--	--	--	--
02-08-2011	1000	--	--	--	--	--	--	--	--
04-12-2011	0915	<.008	<.006	<.008	<.04	<.120	<.014	<.060	<.060
06-07-2011	0915	<.008	<.006	.006	<.04	<.120	<.014	<.060	<.060
06-07-2011	0916	<.008	<.006	.006	<.04	<.120	<.014	<.060	<.060
07-25-2011	1219	--	--	--	--	--	--	--	--
08-09-2011	0845	<.008	<.006	<.008	<.04	<.120	<.014	<.060	<.060

01610400 WAITES RUN NEAR WARDENSVILLE, WV—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 8 of 15

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Date	Sample start time	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)	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)
10-14-2010	0845	--	--	--	--	--	--	--	--	--
12-07-2010	1245	--	--	--	--	--	--	--	--	--
02-08-2011	0959	--	--	--	--	--	--	--	--	--
02-08-2011	1000	--	--	--	--	--	--	--	--	--
04-12-2011	0915	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008	< .029
06-07-2011	0915	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008	< .029
06-07-2011	0916	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008	< .029
07-25-2011	1219	--	--	--	--	--	--	--	--	--
08-09-2011	0845	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008	< .029

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 9 of 15

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; g/m², grams per square meter; mg/L, milligrams per liter; mg/m², milligrams per square meter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	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)	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)
10-14-2010	0845	--	--	--	--	--	--	--	--	--
12-07-2010	1245	--	--	--	--	--	--	--	--	--
02-08-2011	0959	--	--	--	--	--	--	--	--	--
02-08-2011	1000	--	--	--	--	--	--	--	--	--
04-12-2011	0915	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04	< .016
06-07-2011	0915	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04	< .016
06-07-2011	0916	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04	< .016
07-25-2011	1219	--	--	--	--	--	--	--	--	--
08-09-2011	0845	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04	< .016

01610400 WAITES RUN NEAR WARDENSVILLE, WV—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 10 of 15

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; g/m², grams per square meter; mg/L, milligrams per liter; mg/m², milligrams per square meter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	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)	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)
10-14-2010	0845	--	--	--	--	--	--	--	--	--
12-07-2010	1245	--	--	--	--	--	--	--	--	--
02-08-2011	0959	--	--	--	--	--	--	--	--	--
02-08-2011	1000	--	--	--	--	--	--	--	--	--
04-12-2011	0915	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012	< .024
06-07-2011	0915	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012	< .024
06-07-2011	0916	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012	< .024
07-25-2011	1219	--	--	--	--	--	--	--	--	--
08-09-2011	0845	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012	< .024

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 11 of 15

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; g/m², grams per square meter; mg/L, milligrams per liter; mg/m², milligrams per square meter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Fipronil, water, filtered, recoverable, µg/L (62166)	Fonofos, water, filtered, recoverable, µg/L (04095)	Hexazinone, water, filtered, recoverable, µg/L (04025)	Iprodione, water, filtered, recoverable, µg/L (61593)	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)
10-14-2010	0845	--	--	--	--	--	--	--	--	--
12-07-2010	1245	--	--	--	--	--	--	--	--	--
02-08-2011	0959	--	--	--	--	--	--	--	--	--
02-08-2011	1000	--	--	--	--	--	--	--	--	--
04-12-2011	0915	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016	< .014
06-07-2011	0915	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016	< .014
06-07-2011	0916	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016	< .014
07-25-2011	1219	--	--	--	--	--	--	--	--	--
08-09-2011	0845	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016	< .014

01610400 WAITES RUN NEAR WARDENSVILLE, WV—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 12 of 15

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; g/m², grams per square meter; mg/L, milligrams per liter; mg/m², milligrams per square meter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Methidathion, water, filtered, recoverable, µg/L (61598)	Methyl paraoxon, 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)	Metribuzin, water, filtered, recoverable, µg/L (82630)	Molinate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82671)	Myclobutanol, water, filtered, recoverable, µg/L (61599)	Oxyfluorfen, water, filtered, recoverable, µg/L (61600)	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82683)
10-14-2010	0845	--	--	--	--	--	--	--	--	--
12-07-2010	1245	--	--	--	--	--	--	--	--	--
02-08-2011	0959	--	--	--	--	--	--	--	--	--
02-08-2011	1000	--	--	--	--	--	--	--	--	--
04-12-2011	0915	< .012	< .01	< .008	< .020	< .012	< .004	< .010	< .006	< .012
06-07-2011	0915	< .012	< .01	< .008	< .020	< .012	< .004	< .010	< .006	< .012
06-07-2011	0916	< .012	< .01	< .008	< .020	< .012	< .004	< .010	< .006	< .012
07-25-2011	1219	--	--	--	--	--	--	--	--	--
08-09-2011	0845	< .012	< .01	< .008	< .020	< .012	< .004	< .010	< .006	< .012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 13 of 15

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; g/m², grams per square meter; mg/L, milligrams per liter; mg/m², milligrams per square meter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Phorate oxygen analog, water, filtered, recoverable, µg/L (61666)	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82664)	Phosmet oxygen analog, water, filtered, recoverable, µg/L (61668)	Phosmet, water, filtered, recoverable, µg/L (61601)	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)	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82676)
10-14-2010	0845	--	--	--	--	--	--	--	--	--
12-07-2010	1245	--	--	--	--	--	--	--	--	--
02-08-2011	0959	--	--	--	--	--	--	--	--	--
02-08-2011	1000	--	--	--	--	--	--	--	--	--
04-12-2011	0915	< .03	< .020	< .05	< .140	< .012	< .006	< .010	< .02	< .004
06-07-2011	0915	< .03	< .020	< .05	< .140	< .012	< .006	< .010	< .02	< .004
06-07-2011	0916	< .03	< .020	< .05	< .140	< .012	< .006	< .010	< .02	< .004
07-25-2011	1219	--	--	--	--	--	--	--	--	--
08-09-2011	0845	< .03	< .020	< .05	< .140	< .012	< .006	< .010	< .02	< .004

01610400 WAITES RUN NEAR WARDENSVILLE, WV—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 14 of 15

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; g/m², grams per square meter; mg/L, milligrams per liter; mg/m², milligrams per square meter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	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 sulfone, water, filtered, recoverable, µg/L (61674)	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82675)	Terbuthyl-azine, water, filtered, recoverable, µg/L (04022)	Thioben-carb, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82681)	trans-Propicon-azole, water, filtered, recoverable, µg/L (79847)	Tribuphos, water, filtered, recoverable, µg/L (61610)
10-14-2010	0845	--	--	--	--	--	--	--	--	--
12-07-2010	1245	--	--	--	--	--	--	--	--	--
02-08-2011	0959	--	--	--	--	--	--	--	--	--
02-08-2011	1000	--	--	--	--	--	--	--	--	--
04-12-2011	0915	< .006	< .03	< .010	< .04	< .02	< .01	< .016	< .01	< .018
06-07-2011	0915	< .006	< .03	< .010	< .04	< .02	< .01	< .016	< .01	< .018
06-07-2011	0916	< .006	< .03	< .010	< .04	< .02	< .01	< .016	< .01	< .018
07-25-2011	1219	--	--	--	--	--	--	--	--	--
08-09-2011	0845	< .006	< .03	< .010	< .04	< .02	< .01	< .016	< .01	< .018

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 15 of 15

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; g/m², grams per square meter; mg/L, milligrams per liter; mg/m², milligrams per square meter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82661)	Suspended sediment, diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)
10-14-2010	0845	--	76	5	.03
12-07-2010	1245	--	--	1	.03
02-08-2011	0959	--	--	--	--
02-08-2011	1000	--	--	2	E .05
04-12-2011	0915	< .018	--	18	2.0
06-07-2011	0915	< .018	--	1	.02
06-07-2011	0916	< .018	--	1	--
07-25-2011	1219	--	--	--	--
08-09-2011	0845	< .018	--	1	.00