Water-Data Report 2011

03357330 BIG WALNUT CREEK NEAR ROACHDALE, IN

White River Basin

LOCATION.--Lat 39°48′58″, long 86°45′12″ referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.21, T.16 N., R.3 W., Putnam County, IN, Hydrologic Unit 05120203, on right upstream bank at County Road 1100S bridge, 3.4 mi southeast of Roachdale, 9.06 mi upstream from confluence with Plum Creek, and at mile 39.16.

DRAINAGE AREA.--131 mi^2.

SURFACE-WATER RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 800 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 03357330, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/03357330.2011.pdf

03357330 BIG WALNUT CREEK NEAR ROACHDALE, IN—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	e1.2	7.4	e19	434	e7.1	1,640	e103	503	156	96	13	18
2	e1.4	7.1	e16	279	e7.7	735	e107	617	140	89	12	23
3	e1.5	7.3	e14	109	e6.7	505	e103	1,040	130	146	11	21
4	1.9	7.0	e12	60	e6.5	e402	e235	586	126	108	8.4	15
5	1.7	7.5	e13	41	e7.5	3,100	e306	402	786	e88	5.4	13
6	1.7	7.0	e11	30	e8.0	1,250	e201	330	335	e80	6.2	8.9
7	1.7	7.1	e9.0	e22	e8.0	646	e159	279	209	e60	6.6	8.4
8	1.8	6.4	e7.7	e19	e7.0	522	e132	311	158	e50	6.8	9.4
9	1.9	6.0	e7.3	e18	e5.6	522	e164	237	135	e37	13	10
10	1.7	6.1	e7.3	e14	e5.3	532	e214	205	132	e33	11	11
11	1.9	5.8	e8.0	e12	e5.6	418	e194	180	188	e36	6.3	9.3
12	2.5	6.4	e12	e9.9	e6.4	344	e174	163	141	e34	4.0	10
13	3.2	6.3	e11	e9.3	e6.9	281	e147	153	122	e30	4.0	11
14	2.8	6.6	e11	e8.6	e18	e239	e134	174	111	e27	4.5	8.0
15	2.8	7.2	8.1	e8.3	e130	e364	e120	315	199	e27	4.4	6.4
16	3.4	7.0	e8.7	e8.1	e144	e475	e136	237	204	e27	3.1	6.3
17	3.7	8.7	e8.9	e9.0	e588	e364	e142	189	138	e25	3.1	6.7
18	3.8	8.7	e8.5	e9.9	705	e304	e124	167	457	e23	3.4	7.6
19	4.2	8.2	e7.8	e11	371	e258	e1,270	148	391	23	4.5	10
20	4.3	6.6	e8.0	e8.7	234	e224	4,050	133	283	26	4.1	12
21	3.9	6.5	e8.7	e6.3	591	e214	e1,330	126	372	24	4.1	9.6
22	4.2	e6.4	e8.7	e6.3	866	e198	e833	125	469	23	6.3	6.1
23	4.4	e28	e8.2	e6.3	375	e186	e915	123	238	23	5.9	5.9
24	5.6	e22	e7.3	e6.6	270	e172	e901	114	168	21	2.8	5.9
25	5.8	e50	e7.2	e7.0	236	e154	e944	113	137	19	2.8	8.5
26	6.4	e41	e7.2	e7.1	191	e142	e1,440	746	126	18	3.4	8.9
27	7.7	e28	e7.0	e7.0	250	e134	e2,030	604	190	17	3.1	e12
28	7.0	e20	e6.7	e6.8	4,810	e126	e4,800	376	165	17	3.1	e10
29	5.1	e17	e6.6	e7.1	---	e116	1,210	335	122	17	4.4	e8.3
30	8.7	e26	e9.1	e7.3	---	e107	621	245	104	18	7.4	e8.0
31	8.2	---	53	e6.5	---	e104	---	187	---	17	13	---
Total	116.1	385.3	338.0	1,195.1	9,867.3	14,778	23,239	9,463	6,632	1,279	191.1	308.2
Mean	3.75	12.8	10.9	38.6	352	477	775	305	221	41.3	6.16	10.3
Max	8.7	50	53	434	4,810	3,100	4,800	1,040	786	146	13	23
Min	1.2	5.8	6.6	6.3	5.3	104	103	113	104	17	2.8	5.9
Cfsm	0.03	0.10	0.08	0.29	2.69	3.64	5.91	2.33	1.69	0.31	0.05	0.08
In.	0.03	0.11	0.10	0.34	2.80	4.20	6.60	2.69	1.88	0.36	0.05	0.09

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	59.2	101	195	306	228	299	283	253	250	107	25.0	80.2
Max	249	316	405	1,464	399	546	775	688	891	363	49.0	612
(WY)	(2007)	(2007)	(2007)	(2005)	(2009)	(2007)	(2011)	(2002)	(2008)	(2003)	(2008)	(2003)
Min	3.75	11.4	10.9	38.6	92.7	65.5	67.4	50.8	19.4	8.19	6.16	1.38
(WY)	(2011)	(2009)	(2011)	(2011)	(2010)	(2005)	(2003)	(2007)	(2007)	(2007)	(2011)	(2010)

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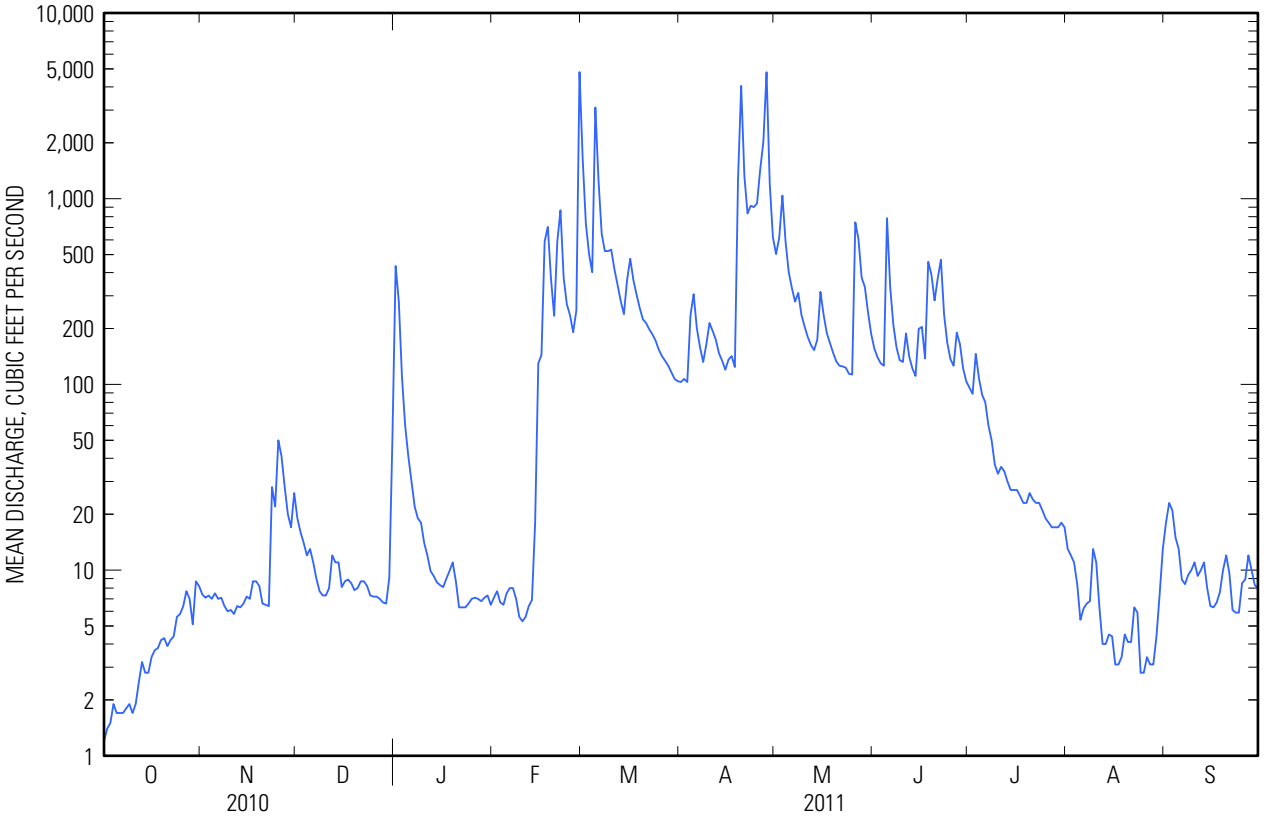
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 2002 - 2011	
Annual total	40,381.4		67,792.1			
Annual mean	111		186		179	
Highest annual mean					224	2008
Lowest annual mean					135	2010
Highest daily mean	3,730	Jun 22	4,810	Feb 28	7,300	Jan 6, 2005
Lowest daily mean	1.1	Sep 9	1.2	Oct 1	0.92	Sep 25, 2007
Annual seven-day minimum	1.2	Sep 17	1.6	Oct 1	1.1	Sep 19, 2007
Maximum peak flow			9,020	Feb 28	11,900	Jun 4, 2008
Maximum peak stage			17.11	Feb 28	19.86	Sep 1, 2003
Annual runoff (cfsm)	0.845		1.42		1.36	
Annual runoff (inches)	11.47		19.25		18.52	
10 percent exceeds	250		443		370	
50 percent exceeds	61		18		72	
90 percent exceeds	1.7		4.4		7.5	



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WATER-QUALITY RECORDS

REMARKS.--[(National Water-Quality; Assessment Program), White River Basin, Miami River Basin Study Unit]

The data described in the following table were collected and analyzed as part of the National Water Quality Assessment Program (NAWQA) in the White River Basin-Great and Little Miami River Basins (WHMI) study unit.

The objectives of the NAWQA program are to broadly characterize the water quality of the Nation's streams and aquifers in relation to human and natural factors. This project is one of 42 river basin and aquifer assessment projects being implemented across the nation on a staggered timeline. The period of high-intensity data collection for the WHMI project was in water years 2001-2004. THe period of low-intensity data collection for the WHMI project was in water years 2005-2010.

Previously, water quality data from four stream sites in Indiana and two stream sites in Ohio were reported as part of the NAWQA study: Big Walnut Creek nr Roachdale, IN (03357330), Little Buck Creek nr Indianapolis, IN (03353637), Sugar Creek at Co. Rd 400S at New Palestine, IN (394340085524601), White River at Hazleton, IN (03374100), Holes Creek at Huffman Park at Kettering, OH (393944084120700), Mad River at St. Paris Pike near Eagle City, OH (03267900).

During this year, water-quality samples were only collected at and reported for Big Walnut Creek near Roachdale, IN (03357330), and White River at Hazelton, IN (03374100).

These data can also be obtained electronically at http://in.water.usgs.gov or at http://oh.water.usgs.gov.

(- - -, no data: <, concentration or value reported is less than that indicated: E, estimated value: K, value is estimated from a non-ideal colony count).

03357330 BIG WALNUT CREEK NEAR ROACHDALE, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 15

[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-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)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, laboratory, µS/cm at 25 °C (90095)
10-12-2010 0810	Surface water	Regular	--	--	2.4	7.3	7.9	--
10-25-2010 0930	Surface water	Regular	737	19.0	6.2	7.1	8.0	--
11-23-2010 1040	Surface water	Regular	758	4.0	15	10.1	8.3	--
12-14-2010 1000	Surface water	Regular	765	< -10.0	10	13.7	8.1	--
01-18-2011 1010	Surface water	Regular	747	1.0	10	13.8	8.2	--
02-22-2011 1250	Surface water	Regular	747	-1.0	769	12.4	7.9	--
02-22-2011 1258	*QC sample - Artificial*	*Blank*	--	--	--	--	--	*< 5*
03-14-2011 1200	Surface water	Replicate	753	5.0	313	11.5	8.2	--
03-14-2011 1201	*QC sample - Surface water*	*Replicate*	--	--	--	--	--	--
04-05-2011 0830	Surface water	Regular	737	6.0	389	11.0	8.2	--
04-19-2011 0850	Surface water	Regular	731	8.0	664	9.9	8.0	--
05-04-2011 1028	*QC sample - Artificial*	*Blank*	--	--	--	--	--	--
05-04-2011 1030	Surface water	Regular	745	10.0	594	11.3	8.0	--
05-11-2011 0900	Surface water	Replicate	762	32.0	182	9.0	8.1	--
05-11-2011 0910	*QC sample - Surface water*	*Replicate*	--	--	--	--	--	--
05-17-2011 0920	Surface water	Regular	753	8.0	193	11.5	8.2	--
05-24-2011 0850	Surface water	Regular	732	26.0	113	8.9	8.2	--
05-24-2011 0858	*QC sample - Artificial*	*Blank*	--	--	--	--	--	--
06-01-2011 0930	Surface water	Regular	737	18.0	166	8.2	8.1	--
06-06-2011 0830	Surface water	Regular	735	27.0	357	8.8	7.9	--
06-14-2011 0900	Surface water	Regular	735	26.0	111	8.9	8.2	--
06-21-2011 0920	Surface water	Regular	728	29.0	340	8.4	8.0	--
07-05-2011 0950	Surface water	Regular	734	37.0	87	9.1	8.2	--
07-13-2011 0840	Surface water	Regular	734	32.0	30	6.6	8.0	--
07-19-2011 0800	Surface water	Regular	731	33.0	22	6.1	8.0	--
07-26-2011 0830	Surface water	Regular	731	29.0	17	6.3	7.9	--
08-01-2011 0900	Plant tissue	Regular	--	--	--	--	--	--
08-01-2011 0905	Plant tissue	Regular	--	--	--	--	--	--
08-02-2011 0950	Surface water	Regular	731	34.0	12	7.1	7.9	--
08-02-2011 0954	*QC sample - Surface water*	*Spike*	*731*	*34.0*	*11*	*7.1*	*7.9*	--
08-09-2011 0940	Surface water	Regular	727	34.0	6.2	7.2	7.9	--
08-18-2011 1240	Surface water	Regular	737	28.0	3.7	11.9	8.2	--
08-24-2011 1100	Surface water	Regular	728	34.0	2.6	11.8	8.1	--
09-06-2011 1030	Surface water	Regular	738	28.0	9.1	8.8	8.2	--
09-20-2011 0830	Surface water	Regular	737	24.0	13	7.4	8.0	--

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 2 of 15

[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Gage height, ft (00065)	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery (99995)	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery (99994)	Sample purpose (71999)	Sample volume, Schedule 2003, mL (99972)	Sampler type (84164)
10-12-2010 0810	610	16.0	4.46	--	--	NAWQA	--	--
10-25-2010 0930	645	15.2	4.59	--	--	NAWQA	--	US DH-81 Teflon
11-23-2010 1040	594	9.9	4.75	92.3	109	NAWQA	948	US DH-81 Teflon
12-14-2010 1000	736	.1	4.68	--	--	NAWQA	--	US DH-81 Teflon
01-18-2011 1010	730	.0	4.69	90.4	97.7	NAWQA	978	US DH-81 Teflon
02-22-2011 1250	380	3.5	7.81	--	--	NAWQA	--	US D-95 Teflon
02-22-2011 1258	--	--	--	--	--	*NAWQA*	--	--
03-14-2011 1200	558	5.4	5.98	94.8	99.8	NAWQA	980	US DH-81 Teflon
03-14-2011 1201	--	--	--	--	--	*NAWQA*	--	--
04-05-2011 0830	525	8.1	6.25	92.3	103	NAWQA	968	US DH-81 Teflon
04-19-2011 0850	465	10.9	7.14	106	97.4	NAWQA	976	Grab sample
05-04-2011 1028	--	--	--	*94.8*	*88.2*	*NAWQA*	*987*	--
05-04-2011 1030	429	10.6	7.18	93.9	95.8	NAWQA	979	US D-95 Teflon
05-11-2011 0900	530	18.0	5.71	103	99.5	NAWQA	945	US DH-81 Teflon
05-11-2011 0910	--	--	--	*101*	*99.2*	*NAWQA*	*993*	--
05-17-2011 0920	526	12.5	5.76	90.7	87.2	NAWQA	981	US DH-81 Teflon
05-24-2011 0850	549	18.7	5.34	100	105	NAWQA	977	US DH-81 Teflon
05-24-2011 0858	--	--	--	--	--	*NAWQA*	--	--
06-01-2011 0930	547	20.6	5.63	109	112	NAWQA	949	US DH-81 Teflon
06-06-2011 0830	458	17.7	6.42	117	122	NAWQA	960	US DH-81 Teflon
06-14-2011 0900	564	18.8	5.33	104	109	NAWQA	993	US DH-81 Teflon
06-21-2011 0920	488	19.6	6.36	123	127	NAWQA	983	US DH-81 Teflon
07-05-2011 0950	575	20.9	5.21	96.2	92.9	NAWQA	988	US DH-81 Teflon
07-13-2011 0840	583	25.5	4.73	119	113	NAWQA	985	US DH-81 Teflon
07-19-2011 0800	588	26.7	4.65	114	117	NAWQA	983	US DH-81 Teflon
07-26-2011 0830	593	25.3	4.60	107	113	NAWQA	931	US DH-81 Teflon
08-01-2011 0900	--	--	--	--	--	--	--	--
08-01-2011 0905	--	--	--	--	--	--	--	--
08-02-2011 0950	556	27.0	4.52	122	110	NAWQA	991	US DH-81 Teflon
08-02-2011 0954	*556*	*27.0*	*4.52*	*118*	*107*	*NAWQA*	*981*	*US DH-81 Teflon*
08-09-2011 0940	542	24.8	4.40	115	117	NAWQA	980	US DH-81 Teflon
08-18-2011 1240	517	26.9	4.32	101	98.3	NAWQA	950	US DH-81 Teflon
08-24-2011 1100	541	23.2	4.28	101	102	NAWQA	983	US DH-81 Teflon
09-06-2011 1030	521	17.2	4.52	106	110	NAWQA	952	US DH-81 Teflon
09-20-2011 0830	518	18.2	4.77	119	105	NAWQA	963	US DH-81 Teflon

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 3 of 15

[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Sampling method (82398)	Purpose, site visit (50280)	Source of blank solution (99101)	Purpose, topical quality-control data (99112)	Type of blank sample (99102)	Type of blank solution (99100)
10-12-2010 0810	--	Fixed frequency SW	--	--	--	--
10-25-2010 0930	Multiple verticals	Fixed frequency SW	--	--	--	--
11-23-2010 1040	Multiple verticals	Fixed frequency SW	--	--	--	--
12-14-2010 1000	Multiple verticals	Fixed frequency SW	--	--	--	--
01-18-2011 1010	Multiple verticals	Fixed frequency SW	--	--	--	--
02-22-2011 1250	EWI	Fixed frequency SW	--	--	--	--
02-22-2011 1258	--	*SW quality control*	*USGSNWQL*	*R QC non-topical*	*Field*	*Inorganic-free water*
03-14-2011 1200	EWI	Fixed frequency SW	--	--	--	--
03-14-2011 1201	--	*SW quality control*	--	*R QC non-topical*	--	--
04-05-2011 0830	EWI	Fixed frequency SW	--	--	--	--
04-19-2011 0850	Grab sample(dip)	Fixed frequency SW	--	--	--	--
05-04-2011 1028	--	*SW quality control*	*USGSNWQL*	*R QC non-topical*	*Field*	*Organic-free water*
05-04-2011 1030	EWI	Fixed frequency SW	--	--	--	--
05-11-2011 0900	EWI	Fixed frequency SW	--	--	--	--
05-11-2011 0910	--	*SW quality control*	--	*R QC non-topical*	--	--
05-17-2011 0920	EWI	Fixed frequency SW	--	--	--	--
05-24-2011 0850	EWI	Fixed frequency SW	--	--	--	--
05-24-2011 0858	--	*SW quality control*	*USGSNWQL*	*R QC non-topical*	*Field*	*Inorganic-free water*
06-01-2011 0930	EWI	Fixed frequency SW	--	--	--	--
06-06-2011 0830	EWI	Fixed frequency SW	--	--	--	--
06-14-2011 0900	EWI	Fixed frequency SW	--	--	--	--
06-21-2011 0920	EWI	Fixed frequency SW	--	--	--	--
07-05-2011 0950	EWI	Fixed frequency SW	--	--	--	--
07-13-2011 0840	EWI	Fixed frequency SW	--	--	--	--
07-19-2011 0800	EWI	Fixed frequency SW	--	--	--	--
07-26-2011 0830	Multiple verticals	Fixed frequency SW	--	--	--	--
08-01-2011 0900	--	--	--	--	--	--
08-01-2011 0905	--	--	--	--	--	--
08-02-2011 0950	Multiple verticals	Fixed frequency SW	--	--	--	--
08-02-2011 0954	*Multiple verticals*	*SW quality control*	--	*R QC non-topical*	--	--
08-09-2011 0940	Multiple verticals	Fixed frequency SW	--	--	--	--
08-18-2011 1240	Multiple verticals	Fixed frequency SW	--	--	--	--
08-24-2011 1100	Multiple verticals	Fixed frequency SW	--	--	--	--
09-06-2011 1030	Multiple verticals	Fixed frequency SW	--	--	--	--
09-20-2011 0830	Multiple verticals	Fixed frequency SW	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 4 of 15

[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Type of quality assurance data associated with sample (99111)	Type of replicate (99105)	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, field, milligrams per liter as calcium carbonate (39036)	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)	Carbonate, water, filtered, inflection-point incremental titration method, field, mg/L (00452)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)
10-12-2010 0810	No assoc QA data	--	--	--	--	--	--	--
10-25-2010 0930	No assoc QA data	--	240	245	E 296	E 1	30.7	40.1
11-23-2010 1040	No assoc QA data	--	220	225	271	E 2	28.3	40.3
12-14-2010 1000	No assoc QA data	--	260	E 257	311	1	35.2	57.8
01-18-2011 1010	No assoc QA data	--	240	250	303	.0	37.8	54.4
02-22-2011 1250	Blank	--	100	107	129	.0	22.9	20.3
02-22-2011 1258	--	--	--	--	--	--	*< .06*	*< .09*
03-14-2011 1200	Replicate sample	--	180	184	E 216	E 4	25.3	34.6
03-14-2011 1201	--	*Split*	--	--	--	--	*25.3*	*34.5*
04-05-2011 0830	No assoc QA data	--	160	167	202	1	26.3	32.4
04-19-2011 0850	No assoc QA data	--	150	147	179	.0	23.7	28.7
05-04-2011 1028	--	--	--	--	--	--	--	--
05-04-2011 1030	Blank	--	150	150	181	1	17.2	20.1
05-11-2011 0900	Replicate sample	--	170	175	E 210	E 2	21.8	29.6
05-11-2011 0910	--	*Split*	--	--	--	--	*22.0*	*29.7*
05-17-2011 0920	No assoc QA data	--	170	167	E 200	E 2	23.0	27.5
05-24-2011 0850	Blank	--	180	176	E 210	E 2	23.5	31.9
05-24-2011 0858	--	--	--	--	--	--	--	--
06-01-2011 0930	No assoc QA data	--	170	168	E 201	E 2	22.7	28.5
06-06-2011 0830	No assoc QA data	--	120	122	146	1	18.3	20.5
06-14-2011 0900	No assoc QA data	--	160	162	193	2	23.3	30.3
06-21-2011 0920	No assoc QA data	--	170	167	200	2	19.0	21.3
07-05-2011 0950	No assoc QA data	--	230	232	E 276	E 4	22.9	28.3
07-13-2011 0840	No assoc QA data	--	220	220	263	2	25.4	34.3
07-19-2011 0800	No assoc QA data	--	210	215	E 257	E 2	25.4	35.9
07-26-2011 0830	No assoc QA data	--	210	211	252	2	25.9	34.7
08-01-2011 0900	--	--	--	--	--	--	--	--
08-01-2011 0905	--	--	--	--	--	--	--	--
08-02-2011 0950	Spike sample	--	200	206	245	3	25.6	35.0
08-02-2011 0954	--	--	*200*	*206*	*245*	*3*	--	--
08-09-2011 0940	No assoc QA data	--	200	196	E 233	E 3	27.6	34.9
08-18-2011 1240	No assoc QA data	--	180	179	212	3	30.2	35.2
08-24-2011 1100	No assoc QA data	--	180	182	E 218	E 2	29.7	34.9
09-06-2011 1030	No assoc QA data	--	190	193	E 230	E 2	29.6	33.0
09-20-2011 0830	No assoc QA data	--	180	184	222	2	29.8	37.7

03357330 BIG WALNUT CREEK NEAR ROACHDALE, IN—Continued

WATER-QUALITY DATA
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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	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)	Orthophos-phate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, analytically determined, mg/L (62855)	Biomass, periphyton, ash free dry mass, g/m2 (49954)	Biomass, periphyton, ash weight, grams per square meter (00572)	Biomass, periphyton, dry weight, grams per square meter (00573)
10-12-2010 0810	--	--	--	--	--	--	--	--	--
10-25-2010 0930	< .010	< .02	< .001	.010	.036	.29	--	--	--
11-23-2010 1040	< .010	< .02	< .001	.011	.071	.59	--	--	--
12-14-2010 1000	< .010	1.29	.014	.005	.014	1.41	--	--	--
01-18-2011 1010	< .010	2.37	.035	.006	.028	2.65	--	--	--
02-22-2011 1250	.045	7.74	.017	.167	.469	9.44	--	--	--
02-22-2011 1258	*< .010*	*< .02*	*< .001*	*< .004*	*< .004*	*< .05*	--	--	--
03-14-2011 1200	.026	5.02	.011	.035	.058	5.27	--	--	--
03-14-2011 1201	*.026*	*5.04*	*.011*	*.036*	*.057*	*5.24*	--	--	--
04-05-2011 0830	< .010	4.39	.031	.007	.040	3.77	--	--	--
04-19-2011 0850	.029	3.71	.029	.009	.126	4.42	--	--	--
05-04-2011 1028	--	--	--	--	--	--	--	--	--
05-04-2011 1030	.020	6.00	.012	.058	.149	6.69	--	--	--
05-11-2011 0900	.011	4.33	.014	.005	.028	4.59	--	--	--
05-11-2011 0910	*.012*	*4.30*	*.014*	*.005*	*.029*	*4.64*	--	--	--
05-17-2011 0920	< .010	6.00	.022	< .004	.052	6.67	--	--	--
05-24-2011 0850	< .010	3.58	.035	< .004	.028	3.87	--	--	--
05-24-2011 0858	*.010*	*.02*	*< .001*	*< .004*	*< .004*	*< .05*	--	--	--
06-01-2011 0930	.016	5.97	.031	.027	.072	6.83	--	--	--
06-06-2011 0830	.130	8.24	.063	.093	.312	3.06	--	--	--
06-14-2011 0900	< .010	4.68	.018	.019	.039	5.59	--	--	--
06-21-2011 0920	.061	7.60	.084	.053	.209	8.76	--	--	--
07-05-2011 0950	< .010	4.17	.016	.025	.049	4.71	--	--	--
07-13-2011 0840	.021	1.86	.024	.011	.032	2.30	--	--	--
07-19-2011 0800	.038	1.16	.020	.013	.041	1.68	--	--	--
07-26-2011 0830	.045	.91	.016	.030	.061	1.23	--	--	--
08-01-2011 0900	--	--	--	--	--	--	--	--	--
08-01-2011 0905	--	--	--	--	--	--	13.3	368.7	382.0
08-02-2011 0950	.018	.42	.009	.011	.042	.81	--	--	--
08-02-2011 0954	--	--	--	--	--	--	--	--	--
08-09-2011 0940	.025	.29	.008	.009	.048	.53	--	--	--
08-18-2011 1240	.012	.18	.005	.006	.039	.70	--	--	--
08-24-2011 1100	.019	.23	.005	.007	.036	.47	--	--	--
09-06-2011 1030	< .010	.03	.002	< .004	.039	.42	--	--	--
09-20-2011 0830	< .010	.04	.001	< .004	.037	< .25	--	--	--

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Chlorophyll a, periphyton, chromatographic-fluorometric method, mg/m2 (70957)	Pheophytin a, periphyton, mg/m2 (62359)	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49295)	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82660)	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, µg/L (61618)	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, µg/L (04040)	2-Ethyl-6-methylaniline, water, filtered, recoverable, µg/L (61620)	3,4-Dichloroaniline, water, filtered, recoverable, µg/L (61625)	3,5-Dichloroaniline, water, filtered, recoverable, µg/L (61627)
10-12-2010 0810	--	--	--	--	--	--	--	--	--
10-25-2010 0930	--	--	--	--	--	--	--	--	--
11-23-2010 1040	--	--	< .036	< .006	< .010	E .015	< .010	< .004	< .004
12-14-2010 1000	--	--	--	--	--	--	--	--	--
01-18-2011 1010	--	--	< .036	< .006	< .010	E .024	< .010	< .004	< .004
02-22-2011 1250	--	--	--	--	--	--	--	--	--
02-22-2011 1258	--	--	--	--	--	--	--	--	--
03-14-2011 1200	--	--	< .036	< .006	< .010	E .034	< .010	E .003	< .004
03-14-2011 1201	--	--	--	--	--	--	--	--	--
04-05-2011 0830	--	--	< .036	< .006	< .010	E .045	< .010	< .004	< .004
04-19-2011 0850	--	--	< .036	< .006	< .010	E .049	< .010	< .004	< .004
05-04-2011 1028	--	--	*< .036*	*< .006*	*< .010*	*< .006*	*< .010*	*< .004*	*< .004*
05-04-2011 1030	--	--	< .036	< .006	< .010	E .084	< .010	< .004	< .004
05-11-2011 0900	--	--	< .036	< .006	< .010	E .056	< .010	< .004	< .004
05-11-2011 0910	--	--	*< .036*	*< .006*	*< .010*	*E .056*	*< .010*	*< .004*	*< .004*
05-17-2011 0920	--	--	< .036	< .006	< .010	E .097	< .010	< .004	< .004
05-24-2011 0850	--	--	< .036	< .006	< .010	E .104	< .010	< .004	< .004
05-24-2011 0858	--	--	--	--	--	--	--	--	--
06-01-2011 0930	--	--	< .036	< .006	< .010	E .227	< .010	< .004	< .004
06-06-2011 0830	--	--	< .036	< .006	< .010	E .958	< .010	< .004	< .004
06-14-2011 0900	--	--	< .036	< .006	< .010	E .212	< .010	< .004	< .004
06-21-2011 0920	--	--	< .036	< .006	< .010	E .730	< .010	< .004	< .004
07-05-2011 0950	--	--	< .036	< .006	< .010	E .178	< .010	< .004	< .004
07-13-2011 0840	--	--	< .036	< .006	< .010	E .126	< .010	< .004	< .004
07-19-2011 0800	--	--	< .036	< .006	< .010	E .085	< .010	< .004	< .004
07-26-2011 0830	--	--	< .036	< .006	< .010	E .058	< .010	< .004	< .004
08-01-2011 0900	62.0	E 23.3	--	--	--	--	--	--	--
08-01-2011 0905	--	--	--	--	--	--	--	--	--
08-02-2011 0950	--	--	< .036	< .006	< .010	E .061	< .010	< .004	< .004
08-02-2011 0954	--	--	*E .003*	*.086*	*.120*	*E .148*	*E .088*	*E .079*	*.090*
08-09-2011 0940	--	--	< .036	< .006	< .010	E .045	< .010	< .004	< .004
08-18-2011 1240	--	--	< .036	< .006	< .010	E .039	< .010	< .004	< .004
08-24-2011 1100	--	--	< .036	< .006	< .010	E .033	< .010	< .004	< .004
09-06-2011 1030	--	--	< .036	< .006	< .010	E .036	< .010	< .004	< .004
09-20-2011 0830	--	--	< .036	< .006	< .010	E .024	< .010	< .004	< .004

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	4-Chloro-2-methyl-phenol, water, filtered, recover-able, µg/L (61633)	Aceto-chlor, water, filtered, recover-able, µg/L (49260)	Alachlor, water, filtered, recover-able, µg/L (46342)	alpha-Endo-sulfan, water, filtered, recover-able, µg/L (34362)	Atrazine, water, filtered, recover-able, µg/L (39632)	Azinphos-methyl oxygen analog, water, filtered, recover-able, µg/L (61635)	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recover-able, 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), recover-able, µg/L (82680)
10-12-2010 0810	--	--	--	--	--	--	--	--	--
10-25-2010 0930	--	--	--	--	--	--	--	--	--
11-23-2010 1040	< .005	.011	< .008	< .006	.025	< .04	< .120	< .014	< .060
12-14-2010 1000	--	--	--	--	--	--	--	--	--
01-18-2011 1010	< .005	< .010	< .008	< .006	.022	< .04	< .120	< .014	< .060
02-22-2011 1250	--	--	--	--	--	--	--	--	--
02-22-2011 1258	--	--	--	--	--	--	--	--	--
03-14-2011 1200	< .005	.009	.008	< .006	.026	< .04	< .120	< .014	< .060
03-14-2011 1201	--	--	--	--	--	--	--	--	--
04-05-2011 0830	< .005	.011	< .008	< .006	.043	< .04	< .120	< .014	< .060
04-19-2011 0850	< .005	.026	.008	< .006	.287	< .04	< .120	< .014	< .060
05-04-2011 1028	*< .005*	*< .010*	*< .008*	*< .006*	*< .008*	*< .04*	*< .120*	*< .014*	*< .060*
05-04-2011 1030	< .005	.012	.007	< .006	.212	< .04	< .120	< .014	< .060
05-11-2011 0900	< .005	.011	< .008	< .006	.101	< .04	< .120	< .014	< .060
05-11-2011 0910	*< .005*	*< .011*	*< .008*	*< .006*	*.103*	*< .04*	*< .120*	*< .014*	*< .060*
05-17-2011 0920	< .005	.481	.007	< .006	E 2.90	< .04	< .120	< .014	< .060
05-24-2011 0850	< .005	1.15	.010	< .006	1.33	< .04	< .120	< .014	< .060
05-24-2011 0858	--	--	--	--	--	--	--	--	--
06-01-2011 0930	< .005	.601	.057	< .006	1.54	< .04	< .120	< .014	< .060
06-06-2011 0830	< .005	6.57	.164	< .006	11.3	< .04	< .120	< .014	< .060
06-14-2011 0900	< .005	.575	.010	< .006	1.58	< .04	< .120	< .014	< .060
06-21-2011 0920	< .005	1.66	.046	< .006	E 2.35	< .04	< .120	< .014	< .060
07-05-2011 0950	< .005	.097	.035	< .006	.348	< .04	< .120	< .014	E .009
07-13-2011 0840	< .005	.087	.011	< .006	.274	< .04	< .120	< .014	< .060
07-19-2011 0800	< .005	.076	.007	< .006	.251	< .04	< .120	< .014	< .060
07-26-2011 0830	< .005	.071	< .008	< .006	.240	< .04	< .120	< .014	< .060
08-01-2011 0900	--	--	--	--	--	--	--	--	--
08-01-2011 0905	--	--	--	--	--	--	--	--	--
08-02-2011 0950	< .005	.042	< .008	< .006	.258	< .04	< .120	< .014	< .060
08-02-2011 0954	*E .064*	*.140*	*.101*	*.069*	*.352*	*E .09*	*E .114*	*.079*	*E .100*
08-09-2011 0940	< .005	E .038	< .008	< .006	.202	< .04	< .120	< .014	< .060
08-18-2011 1240	< .005	.023	< .008	< .006	.146	< .04	< .120	< .014	< .060
08-24-2011 1100	< .005	.022	< .008	< .006	.131	< .04	< .120	< .014	< .060
09-06-2011 1030	< .005	.020	< .008	< .006	.134	< .04	< .120	< .014	< .060
09-20-2011 0830	< .005	< .011	< .008	< .006	.079	< .04	< .120	< .014	< .060

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	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)	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)
10-12-2010 0810	--	--	--	--	--	--	--	--	--
10-25-2010 0930	--	--	--	--	--	--	--	--	--
11-23-2010 1040	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
12-14-2010 1000	--	--	--	--	--	--	--	--	--
01-18-2011 1010	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
02-22-2011 1250	--	--	--	--	--	--	--	--	--
02-22-2011 1258	--	--	--	--	--	--	--	--	--
03-14-2011 1200	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
03-14-2011 1201	--	--	--	--	--	--	--	--	--
04-05-2011 0830	< .060	< .06	< .004	< .010	E .003	< .022	< .016	< .020	< .008
04-19-2011 0850	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
05-04-2011 1028	*< .060*	*< .06*	*< .004*	*< .010*	*< .008*	*< .022*	*< .016*	*< .020*	*< .008*
05-04-2011 1030	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
05-11-2011 0900	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
05-11-2011 0910	*< .060*	*< .06*	*< .004*	*< .010*	*< .008*	*< .022*	*< .016*	*< .020*	*< .008*
05-17-2011 0920	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
05-24-2011 0850	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
05-24-2011 0858	--	--	--	--	--	--	--	--	--
06-01-2011 0930	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
06-06-2011 0830	< .060	< .06	.005	< .010	< .008	< .022	< .016	< .020	< .008
06-14-2011 0900	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
06-21-2011 0920	< .060	< .06	< .004	< .010	E .009	< .022	< .016	< .020	< .008
07-05-2011 0950	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
07-13-2011 0840	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
07-19-2011 0800	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
07-26-2011 0830	< .060	< .06	< .004	< .010	E .006	< .022	< .016	< .020	< .008
08-01-2011 0900	--	--	--	--	--	--	--	--	--
08-01-2011 0905	--	--	--	--	--	--	--	--	--
08-02-2011 0950	< .060	< .06	< .004	< .010	E .007	< .022	< .016	< .020	< .008
08-02-2011 0954	*E .114*	*E .02*	*.083*	*.062*	*E .036*	*.131*	*E .070*	*E .064*	*.106*
08-09-2011 0940	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
08-18-2011 1240	< .060	< .06	< .004	< .010	E .007	< .022	< .016	< .020	< .008
08-24-2011 1100	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
09-06-2011 1030	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008
09-20-2011 0830	< .060	< .06	< .004	< .010	< .008	< .022	< .016	< .020	< .008

03357330 BIG WALNUT CREEK NEAR ROACHDALE, IN—Continued

WATER-QUALITY DATA
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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Desulfinyl-fipronil amide, water, filtered, recover-able, µg/L (62169)	Desulfinyl-fipronil, water, filtered, recover-able, µg/L (62170)	Diazinon, water, filtered, recover-able, µg/L (39572)	Dichlor-vos, water, filtered, recover-able, µg/L (38775)	Dicroto-phos, water, filtered, recover-able, µg/L (38454)	Dieldrin, water, filtered, recover-able, µg/L (39381)	Dimetho-ate, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82662)	Disulfoton sulfone, water, filtered, recover-able, µg/L (61640)	Disulfoton, water, filtered (0.7 micron glass fiber filter), recover-able, µg/L (82677)
10-12-2010 0810	--	--	--	--	--	--	--	--	--
10-25-2010 0930	--	--	--	--	--	--	--	--	--
11-23-2010 1040	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
12-14-2010 1000	--	--	--	--	--	--	--	--	--
01-18-2011 1010	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
02-22-2011 1250	--	--	--	--	--	--	--	--	--
02-22-2011 1258	--	--	--	--	--	--	--	--	--
03-14-2011 1200	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
03-14-2011 1201	--	--	--	--	--	--	--	--	--
04-05-2011 0830	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
04-19-2011 0850	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
05-04-2011 1028	*< .029*	*< .012*	*< .006*	*< .04*	*< .08*	*< .008*	*< .006*	*< .01*	*< .04*
05-04-2011 1030	< .029	< .012	< .006	< .04	< .08	.003	< .006	< .01	< .04
05-11-2011 0900	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
05-11-2011 0910	*< .029*	*< .012*	*< .006*	*< .04*	*< .08*	*< .008*	*< .006*	*< .01*	*< .04*
05-17-2011 0920	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
05-24-2011 0850	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
05-24-2011 0858	--	--	--	--	--	--	--	--	--
06-01-2011 0930	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
06-06-2011 0830	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
06-14-2011 0900	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
06-21-2011 0920	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
07-05-2011 0950	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
07-13-2011 0840	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
07-19-2011 0800	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
07-26-2011 0830	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
08-01-2011 0900	--	--	--	--	--	--	--	--	--
08-01-2011 0905	--	--	--	--	--	--	--	--	--
08-02-2011 0950	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
08-02-2011 0954	*E .132*	*.121*	*.100*	*E .01*	*E .04*	*.083*	*E .063*	*.09*	*E .05*
08-09-2011 0940	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
08-18-2011 1240	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
08-24-2011 1100	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
09-06-2011 1030	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04
09-20-2011 0830	< .029	< .012	< .006	< .04	< .08	< .008	< .006	< .01	< .04

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WATER-QUALITY DATA
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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	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)	Fenamiphos sulfone, water, filtered, recoverable, µg/L (61645)	Fenamiphos sulfoxide, water, filtered, recoverable, µg/L (61646)	Fenamiphos, water, filtered, recoverable, µg/L (61591)	Fipronil sulfide, water, filtered, recoverable, µg/L (62167)
10-12-2010 0810	--	--	--	--	--	--	--	--	--
10-25-2010 0930	--	--	--	--	--	--	--	--	--
11-23-2010 1040	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
12-14-2010 1000	--	--	--	--	--	--	--	--	--
01-18-2011 1010	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
02-22-2011 1250	--	--	--	--	--	--	--	--	--
02-22-2011 1258	--	--	--	--	--	--	--	--	--
03-14-2011 1200	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
03-14-2011 1201	--	--	--	--	--	--	--	--	--
04-05-2011 0830	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
04-19-2011 0850	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
05-04-2011 1028	*< .016*	*< .006*	*< .02*	*< .008*	*< .016*	*< .054*	*< .08*	*< .03*	*< .012*
05-04-2011 1030	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
05-11-2011 0900	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
05-11-2011 0910	*< .016*	*< .006*	*< .02*	*< .008*	*< .016*	*< .054*	*< .08*	*< .03*	*< .012*
05-17-2011 0920	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
05-24-2011 0850	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
05-24-2011 0858	--	--	--	--	--	--	--	--	--
06-01-2011 0930	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
06-06-2011 0830	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
06-14-2011 0900	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
06-21-2011 0920	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
07-05-2011 0950	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
07-13-2011 0840	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
07-19-2011 0800	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
07-26-2011 0830	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
08-01-2011 0900	--	--	--	--	--	--	--	--	--
08-01-2011 0905	--	--	--	--	--	--	--	--	--
08-02-2011 0950	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
08-02-2011 0954	*.095*	*.100*	*E .08*	*.085*	*.116*	*E .126*	*E .04*	*.11*	*.137*
08-09-2011 0940	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
08-18-2011 1240	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
08-24-2011 1100	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
09-06-2011 1030	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012
09-20-2011 0830	< .016	< .006	< .02	< .008	< .016	< .054	< .08	< .03	< .012

03357330 BIG WALNUT CREEK NEAR ROACHDALE, IN—Continued

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Fipronil sulfone, water, filtered, recoverable, µg/L (62168)	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)	Isofenphos, 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)
10-12-2010 0810	--	--	--	--	--	--	--	--	--
10-25-2010 0930	--	--	--	--	--	--	--	--	--
11-23-2010 1040	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
12-14-2010 1000	--	--	--	--	--	--	--	--	--
01-18-2011 1010	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
02-22-2011 1250	--	--	--	--	--	--	--	--	--
02-22-2011 1258	--	--	--	--	--	--	--	--	--
03-14-2011 1200	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
03-14-2011 1201	--	--	--	--	--	--	--	--	--
04-05-2011 0830	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
04-19-2011 0850	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
05-04-2011 1028	*< .024*	*< .018*	*< .005*	*< .008*	*< .014*	*< .006*	*< .010*	*< .022*	*< .016*
05-04-2011 1030	< .024	E .002	< .005	< .008	< .014	< .006	< .010	< .022	< .016
05-11-2011 0900	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
05-11-2011 0910	*< .024*	*< .018*	*< .005*	*< .008*	*< .014*	*< .006*	*< .010*	*< .022*	*< .016*
05-17-2011 0920	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
05-24-2011 0850	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
05-24-2011 0858	--	--	--	--	--	--	--	--	--
06-01-2011 0930	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
06-06-2011 0830	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
06-14-2011 0900	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
06-21-2011 0920	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
07-05-2011 0950	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
07-13-2011 0840	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
07-19-2011 0800	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
07-26-2011 0830	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
08-01-2011 0900	--	--	--	--	--	--	--	--	--
08-01-2011 0905	--	--	--	--	--	--	--	--	--
08-02-2011 0950	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
08-02-2011 0954	*.130*	*E .143*	*.093*	*.078*	*E .030*	*.120*	*E .035*	*.055*	*.081*
08-09-2011 0940	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
08-18-2011 1240	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
08-24-2011 1100	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
09-06-2011 1030	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016
09-20-2011 0830	< .024	< .018	< .005	< .008	< .014	< .006	< .010	< .022	< .016

03357330 BIG WALNUT CREEK NEAR ROACHDALE, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Metalaxyl, water, filtered, recoverable, µg/L (61596)	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)	Myclobutanil, water, filtered, recoverable, µg/L (61599)	Oxyfluorfen, water, filtered, recoverable, µg/L (61600)
10-12-2010 0810	--	--	--	--	--	--	--	--	--
10-25-2010 0930	--	--	--	--	--	--	--	--	--
11-23-2010 1040	< .014	< .012	< .01	< .008	.015	< .012	< .005	< .010	< .006
12-14-2010 1000	--	--	--	--	--	--	--	--	--
01-18-2011 1010	< .014	< .012	< .01	< .008	.011	< .012	< .004	< .010	< .006
02-22-2011 1250	--	--	--	--	--	--	--	--	--
02-22-2011 1258	--	--	--	--	--	--	--	--	--
03-14-2011 1200	< .014	< .012	< .01	< .008	.017	< .012	< .004	< .010	< .006
03-14-2011 1201	--	--	--	--	--	--	--	--	--
04-05-2011 0830	< .014	< .012	< .01	< .008	.019	.019	< .004	< .010	< .006
04-19-2011 0850	< .014	< .012	< .01	< .008	.018	.007	< .004	< .010	< .006
05-04-2011 1028	*< .014*	*< .012*	*< .01*	*< .008*	*< .020*	*< .012*	*< .004*	*< .010*	*< .006*
05-04-2011 1030	< .014	< .012	< .01	< .008	.023	.011	< .004	< .010	< .006
05-11-2011 0900	< .014	< .012	< .01	< .008	.017	< .012	< .004	< .010	< .006
05-11-2011 0910	*< .014*	*< .012*	*< .01*	*< .008*	*.017*	*< .012*	*< .004*	*< .010*	*< .006*
05-17-2011 0920	< .014	< .012	< .01	< .008	.232	< .012	< .004	< .010	< .006
05-24-2011 0850	< .014	< .012	< .01	< .008	.057	< .012	< .004	< .010	< .006
05-24-2011 0858	--	--	--	--	--	--	--	--	--
06-01-2011 0930	.018	< .012	< .01	< .008	.224	< .013	< .004	< .010	< .006
06-06-2011 0830	.054	< .012	< .01	< .008	.488	< .012	< .004	< .010	< .006
06-14-2011 0900	.009	< .012	< .01	< .008	.167	< .012	< .004	< .010	< .006
06-21-2011 0920	E .022	< .012	< .01	< .008	.646	< .017	< .007	< .010	< .006
07-05-2011 0950	< .014	< .012	< .01	< .008	.057	< .012	< .004	< .010	< .006
07-13-2011 0840	< .014	< .012	< .01	< .008	.060	< .012	< .004	< .010	< .006
07-19-2011 0800	< .014	< .012	< .01	< .008	.050	< .012	< .004	< .010	< .006
07-26-2011 0830	< .014	< .012	< .01	< .008	.048	< .012	< .004	< .010	< .006
08-01-2011 0900	--	--	--	--	--	--	--	--	--
08-01-2011 0905	--	--	--	--	--	--	--	--	--
08-02-2011 0950	< .014	< .012	< .01	< .008	.039	< .012	< .004	< .010	< .006
08-02-2011 0954	*.118*	*.086*	*E .06*	*.104*	*.139*	*.109*	*.107*	*.088*	*.071*
08-09-2011 0940	< .014	< .012	< .01	< .008	.038	< .012	< .004	< .010	< .006
08-18-2011 1240	< .014	< .012	< .01	< .008	.044	< .012	< .004	< .010	< .006
08-24-2011 1100	< .014	< .012	< .01	< .008	.030	< .012	< .004	< .010	< .006
09-06-2011 1030	< .014	< .012	< .01	< .008	.030	< .012	< .004	< .010	< .006
09-20-2011 0830	< .014	< .012	< .01	< .008	.021	< .012	< .004	< .010	< .006

03357330 BIG WALNUT CREEK NEAR ROACHDALE, IN—Continued

WATER-QUALITY DATA
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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82683)	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)
10-12-2010 0810	--	--	--	--	--	--	--	--	--
10-25-2010 0930	--	--	--	--	--	--	--	--	--
11-23-2010 1040	< .012	< .03	< .020	< .05	< .140	.008	< .006	< .010	< .02
12-14-2010 1000	--	--	--	--	--	--	--	--	--
01-18-2011 1010	< .012	< .03	< .020	< .05	< .140	< .012	< .006	< .010	< .02
02-22-2011 1250	--	--	--	--	--	--	--	--	--
02-22-2011 1258	--	--	--	--	--	--	--	--	--
03-14-2011 1200	< .012	< .03	< .020	< .05	< .140	.008	< .006	< .010	< .02
03-14-2011 1201	--	--	--	--	--	--	--	--	--
04-05-2011 0830	< .012	< .03	< .020	< .05	< .140	.008	< .006	< .010	< .02
04-19-2011 0850	< .012	< .03	< .020	< .05	< .140	.007	< .006	< .010	< .02
05-04-2011 1028	*< .012*	*< .03*	*< .020*	*< .05*	*< .140*	*< .012*	*< .006*	*< .010*	*< .02*
05-04-2011 1030	< .012	< .03	< .020	< .05	< .140	.006	< .006	< .010	< .02
05-11-2011 0900	< .012	< .03	< .020	< .05	< .140	.008	< .006	< .010	< .02
05-11-2011 0910	*< .012*	*< .03*	*< .020*	*< .05*	*< .140*	*.007*	*< .006*	*< .010*	*< .02*
05-17-2011 0920	< .012	< .03	< .020	< .05	< .140	.007	< .006	< .010	< .02
05-24-2011 0850	< .012	< .03	< .020	< .05	< .140	.008	< .006	< .010	< .02
05-24-2011 0858	--	--	--	--	--	--	--	--	--
06-01-2011 0930	< .012	< .03	< .020	< .05	< .140	.008	< .006	< .010	< .02
06-06-2011 0830	< .012	< .03	< .020	< .05	< .140	.008	< .006	< .010	< .02
06-14-2011 0900	< .012	< .03	< .020	< .05	< .140	.008	< .006	< .010	< .02
06-21-2011 0920	< .012	< .03	< .020	< .05	< .140	.013	< .006	< .010	< .02
07-05-2011 0950	< .012	< .03	< .020	< .05	< .140	.006	< .006	< .010	< .02
07-13-2011 0840	< .012	< .03	< .020	< .05	< .140	.010	< .006	< .010	< .02
07-19-2011 0800	< .012	< .03	< .020	< .05	< .140	.008	< .006	< .010	< .02
07-26-2011 0830	< .012	< .03	< .020	< .05	< .140	.006	< .006	< .010	< .02
08-01-2011 0900	--	--	--	--	--	--	--	--	--
08-01-2011 0905	--	--	--	--	--	--	--	--	--
08-02-2011 0950	< .012	< .03	< .020	< .05	< .140	.007	< .006	< .010	< .02
08-02-2011 0954	*.099*	*E .07*	*.055*	*< .05*	*< .140*	*.114*	*.113*	*.137*	*.11*
08-09-2011 0940	< .012	< .03	< .020	< .05	< .140	.012	< .006	< .010	< .02
08-18-2011 1240	< .012	< .03	< .020	< .05	< .140	.009	< .006	< .010	< .02
08-24-2011 1100	< .012	< .03	< .020	< .05	< .140	.009	< .006	< .010	< .02
09-06-2011 1030	< .012	< .03	< .020	< .05	< .140	.008	< .006	< .010	< .02
09-20-2011 0830	< .012	< .03	< .020	< .05	< .140	.007	< .006	< .010	< .02

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82676)	Simazine, water, filtered, recoverable, µg/L (04035)	Tebuthiuron, 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)	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82675)	Terbuthylazine, water, filtered, recoverable, µg/L (04022)	Thiobencarb, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82681)	trans-Propiconazole, water, filtered, recoverable, µg/L (79847)
10-12-2010 0810	--	--	--	--	--	--	--	--	--
10-25-2010 0930	--	--	--	--	--	--	--	--	--
11-23-2010 1040	< .004	.042	< .03	< .010	< .04	< .02	< .01	< .016	< .01
12-14-2010 1000	--	--	--	--	--	--	--	--	--
01-18-2011 1010	< .004	.064	< .03	< .010	< .04	< .02	< .01	< .016	< .01
02-22-2011 1250	--	--	--	--	--	--	--	--	--
02-22-2011 1258	--	--	--	--	--	--	--	--	--
03-14-2011 1200	< .004	.252	< .03	< .010	< .04	< .02	< .01	< .016	< .01
03-14-2011 1201	--	--	--	--	--	--	--	--	--
04-05-2011 0830	< .004	.256	< .03	< .010	< .04	< .02	< .01	< .016	E .01
04-19-2011 0850	< .004	.173	< .03	< .010	< .04	< .02	< .01	< .016	< .01
05-04-2011 1028	*< .004*	*< .006*	*< .03*	*< .010*	*< .04*	*< .02*	*< .01*	*< .016*	*< .01*
05-04-2011 1030	< .004	.152	< .03	< .010	< .04	< .02	< .01	< .016	< .01
05-11-2011 0900	< .004	.127	< .03	< .010	< .04	< .02	< .01	< .016	< .01
05-11-2011 0910	*< .004*	*.127*	*< .03*	*< .010*	*< .04*	*< .02*	*< .01*	*< .016*	*< .01*
05-17-2011 0920	< .004	.141	< .03	< .010	< .04	< .02	.01	< .016	< .01
05-24-2011 0850	< .004	.108	< .03	< .010	< .04	< .02	< .01	< .016	< .01
05-24-2011 0858	--	--	--	--	--	--	--	--	--
06-01-2011 0930	< .006	.101	< .03	< .010	< .04	< .02	< .01	< .016	< .02
06-06-2011 0830	< .004	.444	< .03	< .010	< .04	< .02	.01	< .016	< .01
06-14-2011 0900	< .004	.091	< .03	< .010	< .04	< .02	< .01	< .016	< .01
06-21-2011 0920	< .004	.148	< .03	< .010	< .04	< .02	< .01	< .016	E .02
07-05-2011 0950	< .004	.080	< .03	< .010	< .04	< .02	< .01	< .016	< .01
07-13-2011 0840	< .004	.065	< .03	< .010	< .04	< .02	< .01	< .016	< .01
07-19-2011 0800	< .004	.049	< .03	< .010	< .04	< .02	< .01	< .016	< .01
07-26-2011 0830	< .004	.043	< .03	< .010	< .04	< .02	< .01	< .016	E .01
08-01-2011 0900	--	--	--	--	--	--	--	--	--
08-01-2011 0905	--	--	--	--	--	--	--	--	--
08-02-2011 0950	< .004	.041	< .03	< .010	< .04	< .02	< .01	< .016	E .01
08-02-2011 0954	*.108*	*.150*	*E .16*	*E .063*	*E .07*	*.07*	*.11*	*.104*	*E .07*
08-09-2011 0940	< .004	.039	< .03	< .010	< .04	< .02	< .01	< .016	< .01
08-18-2011 1240	< .004	.028	< .03	< .010	< .04	< .02	< .01	< .016	E .01
08-24-2011 1100	< .004	.027	< .03	< .010	< .04	< .02	< .01	< .016	< .01
09-06-2011 1030	< .004	.031	< .03	< .010	< .04	< .02	< .01	< .016	< .01
09-20-2011 0830	< .004	.018	< .03	< .010	< .04	< .02	< .01	< .016	< .01

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft, feet; ft^3/s, cubic feet per second; g/m2, grams per square meter; mL, milliliters; mg/L, milligrams per liter; mg/m2, milligrams per square meter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Tribuphos, water, filtered, recoverable, µg/L (61610)	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82661)	Suspended sediment concentration, mg/L (80154)	Reference material or spike lot number (99104)
10-12-2010 0810	--	--	--	--
10-25-2010 0930	--	--	6	--
11-23-2010 1040	< .018	< .018	7	--
12-14-2010 1000	--	--	27	--
01-18-2011 1010	< .018	< .018	9	--
02-22-2011 1250	--	--	301	--
02-22-2011 1258	--	--	*< .5*	*4,006,080*
03-14-2011 1200	< .018	< .018	11	--
03-14-2011 1201	--	--	*13*	--
04-05-2011 0830	< .018	< .018	25	--
04-19-2011 0850	< .018	< .018	100	--
05-04-2011 1028	*< .018*	*< .018*	--	*50,193*
05-04-2011 1030	< .018	< .018	140	--
05-11-2011 0900	< .018	< .018	30	--
05-11-2011 0910	*< .018*	*< .018*	*28*	--
05-17-2011 0920	< .018	< .018	32	--
05-24-2011 0850	< .018	< .018	29	--
05-24-2011 0858	--	--	--	*4,101,270*
06-01-2011 0930	< .018	< .018	41	--
06-06-2011 0830	< .018	< .018	127	--
06-14-2011 0900	< .018	< .018	28	--
06-21-2011 0920	< .018	< .018	131	--
07-05-2011 0950	< .018	< .018	10	--
07-13-2011 0840	< .018	< .018	17	--
07-19-2011 0800	< .018	< .018	11	--
07-26-2011 0830	< .018	< .018	9	--
08-01-2011 0900	--	--	--	--
08-01-2011 0905	--	--	--	--
08-02-2011 0950	< .018	< .018	13	--
08-02-2011 0954	*E .062*	*.087*	--	--
08-09-2011 0940	< .018	< .018	9	--
08-18-2011 1240	< .018	< .018	12	--
08-24-2011 1100	< .018	< .018	8	--
09-06-2011 1030	< .018	< .018	6	--
09-20-2011 0830	< .018	< .018	18	--