



## Water-Data Report 2008

**354954078421301 Local number WK-349, Piedmont Major Aquifer Study Site 12, at Raleigh, NC**

Piedmont and Blue Ridge crystalline-rock aquifers  
Felsic Gneiss

Wake County, NC

LOCATION.--Lat 35°49'53.6", long 78°42'13.0" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, Laurel Hills Road, in Raleigh.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Depth 185 ft. Upper casing diameter 6 in; top of first opening 100 ft, bottom of last opening 185 ft.

PERIOD OF RECORD.--December 2007.

REMARKS.--Well is part of the National Water Quality Assessment Program (NAWQA).

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Time	Sample medium and type	Depth to water level, feet below	Water level, MP, LSD (72019)	Baro-metric pressure, mm Hg (61055)	Disolved oxygen, mg/L (00025)	Disolved oxygen, percent of saturation (00300)	pH, water, unfltrd field, std units (00301)	Specifc conductance, wat unf 25 degC (00095)
<b>Dec</b>									
17...	1150	Ground water, replicate	58.73	59.70	756	4.1	42	6.1	148
17...	1151	QC - Artificial, blank	--	--	--	--	--	--	--
17...	1152	QC - Ground water, spike	--	--	--	--	--	--	--
17...	1153	QC - Ground water, replicate	--	--	--	--	--	--	--

## 354954078421301 Local number WK-349, Piedmont Major Aquifer Study Site 12, at Raleigh, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3	Calci- um, water, mg/L (00900)	Magnes- ium, water, mg/L (00925)	Potas- sium, water, mg/L (00935)	Sodium, water, mg/L (00930)	Alka- linity, wat flt	Bicar- bonate, wat flt	Chlor- ide, water, mg/L (71870)	Fluor- ide, water, mg/L (00940)	Silica, water, mg/L as SiO2 (00955)	Sulfate water, mg/L (00945)	
		mg/L as (00900)	mg/L (00915)	mg/L (00925)	mg/L (00935)	mg/L (00930)	mg/L as CaCO3 (00453)	infl tit field,	infl pt titr., field,	mg/L (71870)	mg/L (00940)	mg/L (00955)	mg/L (00945)
<b>Dec</b>													
17...	16.0	60	18.5	3.31	2.56	7.99	63	76	E.01	2.62	E.09	30.5	3.14
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Residue on evap. at 180degC wat flt	Ammonia water, mg/L as N (70300)	Nitrate + nitrite water, mg/L as N (00608)	Nitrite water, mg/L as N (00631)	Total nitro- gen, wat flt	Ortho- phos- phate, water, by anal ysis, mg/L as N (00613)	Organic carbon, water, mg/L as P (62854)	Colipge F-spec, FAMP, CN13hst	Colipge som, Ec	E coli, MI MF, water, col/ 100 mL	Total coli- form, MI MF, water, col/ 100 mL	Alum- inum, water, filtrd, mg/L (01106)	Anti- mony, water, filtrd, μg/L (01095)
	mg/L (70300)	mg/L as N (00608)	mg/L as N (00631)	mg/L as N (00613)	mg/L (00671)	mg/L (00681)	mg/L (99335)	/L (99332)	/L (90901)	100 mL (90900)	100 mL (90900)	μg/L (01106)	μg/L (01095)
<b>Dec</b>													
17...	114	<.020	.16	<.002	.18	.066	E.3	U	U	<1	<1	<1.6	<.14
17...	--	--	--	--	--	--	--	--	--	--	--	<1.6	<.14
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	<1	<1	--	--

## 354954078421301 Local number WK-349, Piedmont Major Aquifer Study Site 12, at Raleigh, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Arsenic	Barium,	Beryll-	Cadmium	Chrom-	Cobalt	Copper,	Hydro-	Mangan-				
	water, filtrd, µg/L (01000)	water, filtrd, µg/L (01005)	ium, water, filtrd, µg/L (01010)	Boron, water, filtrd, µg/L (01020)	ium, water, filtrd, µg/L (01025)	ium, water, filtrd, µg/L (01030)	water, filtrd, µg/L (01035)	water, unfiltrd, µg/L (01040)	sulfide water, filtrd, mg/L (71875)	Iron, water, filtrd, µg/L (01046)	Lead, water, filtrd, µg/L (01049)	Lithium water, filtrd, µg/L (01130)	ese, water, filtrd, µg/L (01056)
<b>Dec</b>													
17...	.40	18	E.01	<6	E.02	.14	<.02	2.1	U	<8	.15	3.4	1.2
17...	<.06	<.4	<.01	V22	<.04	<.12	<.02	<1.0	--	--	<.08	<1.0	<.2
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 5 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Molyb-	Nickel,	Selen-	Stront-	Thall-	Vana-	1-Naph-	2,6-Di-	2-Chloro	2-Ethyl			
	denum, water, filtrd, µg/L (01060)	water, filtrd, µg/L (01065)	ium, water, filtrd, µg/L (01145)	Silver, water, filtrd, µg/L (01075)	ium, water, filtrd, µg/L (01080)	ium, water, filtrd, µg/L (01057)	dium, water, filtrd, µg/L (01085)	water, filtrd, µg/L (01090)	ethyl- aniline water, filtrd, µg/L (49295)	-2',6'- diethyl acet- anilide wat flt (82660)	CIAT, water, filtrd, µg/L (61618)	-6- methyl- aniline water, filtrd, µg/L (61620)	
<b>Dec</b>													
17...	3.6	E.12	E.04	<.1	54.2	<.04	.87	98.0	<.04	<.006	<.010	<.014	<.010
17...	<.2	E.10	<.04	<.1	<.80	<.04	<.04	<1.8	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

## 354954078421301 Local number WK-349, Piedmont Major Aquifer Study Site 12, at Raleigh, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 6 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	3,4-Dichloroaniline water, fltrd, µg/L (61625)	3,5-Dichloroaniline water, fltrd, µg/L (61627)	Chloro-2methyl phenol, water, fltrd, µg/L (61633)	Aceto-chlor, water, fltrd, µg/L (49260)	Alachlor, water, fltrd, µg/L (46342)	alpha-Endosulfan, water, fltrd, µg/L (34362)	Atrazine, water, fltrd, µg/L (39632)	Azinophos-methyl oxon, water, fltrd, µg/L (61635)	Azinophos-methyl water, fltrd, µg/L (82686)	Benzofuran, water, fltrd, µg/L (82673)	Carboxylic acid, water, fltrd, µg/L (82680)	Carboxylic furan, water, fltrd, µg/L (82674)	Chlorpyrifos oxon, water, fltrd, µg/L (61636)
<b>Dec</b>													
17...	<.006	<.008	<.005	<.006	<.006	<.006	<.007	<.04	<.120	<.004	<.060	<.020	<.06
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 7 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Cis-Perchloro-pyrifos water, fltrd, µg/L (38933)	Cis-Permethrin water, fltrd, 0.7u GF (82687)	Propiconazole, water, fltrd, µg/L (79846)	Cyanazine, water, fltrd, µg/L (04041)	Cyfluthrin, water, fltrd, µg/L (61585)	Lambda-cyhalothrin, water, fltrd, µg/L (61595)	Cypermethrin, water, fltrd, µg/L (61586)	DCPA, water, fltrd, 0.7u GF (82682)	Desulfinyl-fipronil, water, fltrd, µg/L (62170)	Diazinon, water, fltrd, µg/L (39572)	Dicrotophos, water, fltrd, µg/L (38454)	Dieldrin, water, fltrd, µg/L (39381)	Dimethoate, water, fltrd, 0.7u GF (82662)
<b>Dec</b>													
17...	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08	<.009	<.006
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

## 354954078421301 Local number WK-349, Piedmont Major Aquifer Study Site 12, at Raleigh, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 8 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Disulfoton sulfone water, filtrd, 0.7u GF µg/L (61640)	Disulfoton water, filtrd, 0.7u GF µg/L (82677)	Endosulfan sulfate water, filtrd, 0.7u GF µg/L (61590)	EPTC, water, filtrd, 0.7u GF µg/L (82668)	Ethion monoxon water, filtrd, 0.7u GF µg/L (61644)	Ethion, water, filtrd, 0.7u GF µg/L (82346)	Ethoprop, water, filtrd, 0.7u GF µg/L (82672)	Fenamiphos sulfone water, filtrd, 0.7u GF µg/L (61645)	Fenamiphos sulfone water, filtrd, 0.7u GF µg/L (61646)	Fenamiphos sulfone water, filtrd, 0.7u GF µg/L (61591)	Desulfotinylfipronil water, filtrd, 0.7u GF µg/L (62169)	Fipro-nil sulfide water, filtrd, 0.7u GF µg/L (62167)	Fipro-nil sulfone water, filtrd, 0.7u GF µg/L (62168)
<b>Dec</b>													
17...	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053	<.04	<.03	<.029	<.013	<.024
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 9 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Fipronil water, filtrd, 0.7u GF µg/L (62166)	Fonofos water, filtrd, 0.7u GF µg/L (04095)	Hexazinone water, filtrd, 0.7u GF µg/L (04025)	Iprodione water, filtrd, 0.7u GF µg/L (61593)	Isofenphos water, filtrd, 0.7u GF µg/L (61594)	Malo-oxon water, filtrd, 0.7u GF µg/L (61652)	Mala-thion water, filtrd, 0.7u GF µg/L (39532)	Metalexyl water, filtrd, 0.7u GF µg/L (61596)	Methidathion water, filtrd, 0.7u GF µg/L (61598)	Methyl para-oxon water, filtrd, 0.7u GF µg/L (61664)	Methyl para-thion water, filtrd, 0.7u GF µg/L (82667)	Metolachlor water, filtrd, 0.7u GF µg/L (39415)	Metrabuzin water, filtrd, 0.7u GF µg/L (82630)
<b>Dec</b>													
17...	<.020	<.010	<.008	<.01	<.006	<.020	<.016	<.007	<.004	<.01	<.008	<.010	<.012
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

## 354954078421301 Local number WK-349, Piedmont Major Aquifer Study Site 12, at Raleigh, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 10 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Moli-	Pendi-	Phorate	Phorate	Phosmet	Prome-	Prome-	Propy-	Pro-	Propar-			
	nate, water, fltrd 0.7u GF	Myclo- butanil fltrd,											
	μg/L (82671)	μg/L (61599)	μg/L (61600)	μg/L (82683)	μg/L (61666)	μg/L (82664)	μg/L (61668)	μg/L (61601)	μg/L (04037)	μg/L (04036)	μg/L (82676)	μg/L (82679)	μg/L (82685)
<b>Dec</b>													
17...	<.003	<.010	<.006	<.012	<.03	<.040	<.05	<.008	<.01	<.006	<.004	<.006	<.04
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 11 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Sima-	Tebu-	Ter-	Terbu-	Ter-	Thio-	trans-	Tri-	1,1,1,2	1,1,1-	1,1,2,2		
	zine, water, fltrd, 0.7u GF	thiuron water, fltrd, 0.7u GF	bufos oxon sulfone										
	μg/L (04035)	μg/L (82670)	μg/L (61606)	μg/L (61674)	μg/L (82675)	μg/L (04022)	μg/L (82681)	μg/L (79847)	μg/L (61610)	μg/L (82661)	μg/L (77562)	μg/L (34506)	μg/L (34516)
<b>Dec</b>													
17...	<.006	<.02	<.003	<.04	<.02	<.01	<.010	<.02	<.035	<.006	<.04	<.02	<.10
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	.41	.46	1.30	
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

## 354954078421301 Local number WK-349, Piedmont Major Aquifer Study Site 12, at Raleigh, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 12 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	CFC-113 water, unfltrd	1,1,2- Tri-chloro- ethane, water, unfltrd	1,1-Di- chloro- ethane, water, unfltrd	1,1-Di- chloro- ethene, water, unfltrd	1,1-Di- chloro- propene, water, unfltrd	1,2,3,4 -Tetra- methyl- benzene, water, unfltrd	1,2,3,5 -Tetra- methyl- benzene, water, unfltrd	1,2,3- Tri-chloro- benzene, water, unfltrd	1,2,3- Tri-chloro- propane, water, unfltrd	1,2,3- Tri-methyl- benzene, water, unfltrd	1,2,3- Tri-chloro- benzene, water, unfltrd	1,2,4- Tri-methyl- benzene, water, unfltrd	1,2,4- Tri-chloro- benzene, water, unfltrd	
	μg/L (77652)	μg/L (34511)	μg/L (34496)	μg/L (34501)	μg/L (77168)	μg/L (49999)	μg/L (50000)	μg/L (77613)	μg/L (77443)	μg/L (77221)	μg/L (34551)	μg/L (77222)	μg/L (82625)	
<b>Dec</b>														
17...	<.04	<.06	<.04	<.02	<.04	<.1	<.1	<.1	<.12	<.1	<.1	<.05	<.5	
17...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	.37	.41	.89	.43	.82	1.3	1.4	1.2	1.27	1.0	1.1	.47	4.3	
17...	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 13 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	1,2-Di- bromo- ethane, water, unfltrd	1,2-Di- chloro- benzene, water, unfltrd	1,2-Di- chloro- ethane, water, unfltrd	1,2-Di- chloro- propane, water, unfltrd	1,3,5- Tri-methyl- benzene, water, unfltrd	1,3-Di- chloro- benzene, water, unfltrd	1,3-Di- chloro- propane, water, unfltrd	1,4-Di- chloro- benzene, water, unfltrd	2,2-Di- chloro- propane, water, unfltrd	2- Chloro- toluene, water, unfltrd	2- Ethyl- toluene, water, unfltrd	3- Chloro- propene, water, unfltrd	4- Chloro- toluene, water, unfltrd	
	μg/L (77651)	μg/L (34536)	μg/L (32103)	μg/L (34541)	μg/L (77226)	μg/L (34566)	μg/L (77173)	μg/L (34571)	μg/L (77170)	μg/L (77275)	μg/L (77220)	μg/L (78109)	μg/L (77277)	
<b>Dec</b>														
17...	<.04	<.02	<.1	<.02	<.04	<.04	<.1	<.02	<.06	<.04	<.04	<.08	<.04	
17...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	.49	.44	1.4	.43	.43	.42	1.4	.43	.62	.43	.41	E1.87	.44	
17...	--	--	--	--	--	--	--	--	--	--	--	--	--	--

## 354954078421301 Local number WK-349, Piedmont Major Aquifer Study Site 12, at Raleigh, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 14 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	4-Iso-	Acrylo-			Bromo-	Bromo-	Bromo-	Tri-	Bromo-	Carbon	Chloro-	Chloro-
	propyl-	Acetone	nitrile	Benzene	benzene	chloro-	di-	bromo-	bromo-	di-	benzene	ethane,
	toluene	water,	water,	water,	water,	methane	chloro-	ethene,	methane	sulfide	water,	water,
	water,	unfltrd	unfltrd	unfltrd	unfltrd	water,	methane	water,	water,	water,	unfltrd	unfltrd
	μg/L	(77356)	μg/L	(81552)	μg/L	(34215)	μg/L	(34030)	μg/L	(81555)	μg/L	(34311)
<b>Dec</b>												
17...	<.08	<4	<.4	<.02	<.02	<.06	<.04	<.1	<.08	<.4	<.06	<.02
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	.80	65	12	.47	.42	.90	.45	1.9	.92	E2.3	.65	.43
17...	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 15 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	cis-	cis-	Di-	Di-	Di-	Di-	Diiso-	Ethyl	Ethyl	Hexa-	
	1,2-Di-	1,3-Di-	bromo-	chloro-	chloro-	ethyl	propyl	methac-	methyl	chloro-	
	Chloro-	chloro-	chloro-	chloro-	methane	fluoro-	ether,	ether,	benzene	buta-	
	methane	ethene,	propene	methane	methane	methane	water,	water,	water,	diene,	
	water,	water,	water,	water,	water,	water,	unfltrd	unfltrd	unfltrd	water,	
	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	wat unf	unfltrd	unfltrd	unfltrd	unfltrd	
	μg/L										
<b>Dec</b>											
17...	<.1	<.02	<.10	<.1	<.04	<.14	<.04	<.1	<.06	<.1	<1.6
17...	--	--	--	--	--	--	--	--	--	--	--
17...	E1.3	.45	.72	1.8	.46	E1.05	.4	1.9	.84	2.5	41.2
17...	--	--	--	--	--	--	--	--	--	--	--

## 354954078421301 Local number WK-349, Piedmont Major Aquifer Study Site 12, at Raleigh, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 16 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Hexa-chloro-ethane, water, unfltrd	Iodo-methane, water, unfltrd	Iso-butyl ketone, water, unfltrd	Iso-propyl benzene, water, unfltrd	Methyl acrylo-nitrile, water, unfltrd	Methyl acryl-ate, water, unfltrd	Methyl methacrylate, water, unfltrd	Methyl pentyl ether, water, unfltrd	meta-+ para-Xylene, water, unfltrd	Naphthalene, water, unfltrd	Methyl n-butyl ketone, water, unfltrd	n-Butyl benzene, water, unfltrd	n-Propyl benzene, water, unfltrd
	µg/L (34396)	µg/L (77424)	µg/L (78133)	µg/L (77223)	µg/L (81593)	µg/L (49991)	µg/L (81597)	µg/L (50005)	µg/L (85795)	µg/L (34696)	µg/L (77103)	µg/L (77342)	µg/L (77224)
<b>Dec</b>													
17...	<.1	<.40	<.4	<.04	<.2	<.6	<.2	<.06	<.08	<.2	<.6	<.1	<.04
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	1.8	E3.70	4.5	.41	5.0	15.1	3.1	.91	.90	3.1	7.4	1.5	.39
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 17 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	o-Xylene, water, unfltrd	sec-Butyl-benzene, water, unfltrd	Styrene, water, unfltrd	t-Butyl ethyl ether, water, unfltrd	Methyl t-butyl ether, water, unfltrd	tert-Butyl benzene, water, unfltrd	Tetra-chloro-ethene, water, unfltrd	Tetra-chloro-methane, water, unfltrd	Tetra-hydro-furan, water, unfltrd	Toluene, water, unfltrd	trans-1,2-Di-chloro-ethene, water, unfltrd	trans-1,3-Di-chloro-propene, water, unfltrd	trans-1,4-Di-chloro-2-butene, wat unf
	µg/L (77135)	µg/L (77350)	µg/L (77128)	µg/L (50004)	µg/L (78032)	µg/L (77353)	µg/L (34475)	µg/L (32102)	µg/L (81607)	µg/L (34010)	µg/L (34546)	µg/L (34699)	µg/L (73547)
<b>Dec</b>													
17...	<.04	<.04	<.04	<.04	E.1	<.06	E.02	<.08	<1	<.02	<.02	<.10	<.6
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	.40	.42	.39	.44	1.8	.93	.45	.89	18	.44	.45	1.23	6.1
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

## 354954078421301 Local number WK-349, Piedmont Major Aquifer Study Site 12, at Raleigh, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 18 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Tri-chloro-ethene, water, unfltrd μg/L (39180)	Tri-chloro-fluoro-methane, water, unfltrd μg/L (34488)	Tri-chloro-methane, water, unfltrd μg/L (32106)	Vinyl chloride, water, unfltrd μg/L (39175)	Di-chlorvos, water, unfltrd μg/L (38775)	Gross alpha 30 day radioac	Gross alpha 30 day radioac	Gross beta 72 hr, recount	Gross beta 72 hr, recount	Gross beta 72 hr, radioac	Ra-226, water, filtrd, radon method pCi/L (63015)	Ra-228, water, filtrd, method pCi/L (09511)	Rn-222, water, unfltrd pCi/L (81366)	Rn-222, water, unfltrd pCi/L (76002)	Rn-222, water, unfltrd pCi/L (82303)
<b>Dec</b>															
17...	<.02	<.08	.27	<.1	<.01	R.1	2.7	3.6	2.0	.020	R.16	40	1,870		
17...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
17...	.43	.86	.68	.9	--	--	--	--	--	--	--	--	--	--	
17...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO**  
**SEPTEMBER 2008**

Part 19 of 19

[QC, quality control sample. Remark codes:  
 <, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Uranium natural water, filtrd, μg/L (22703)	Data base number	Medium code
<b>Dec</b>			
17...	2.44	01	WG
17...	<.02	04	OAO
17...	--	04	WGQ
17...	--	04	WGQ