



Water-Data Report 2007

353747077052001 Local number BO-419, Washington RSK near Washington, NC

Castle Hayne aquifer
 Castle Hayne Formation
 Beaufort County, NC

LOCATION.--Lat 35°37'47", long 77°05'20" referenced to North American Datum of 1983, Beaufort County, NC, Hydrologic Unit 03020103, Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 82 ft. Upper casing diameter 4 in, top of first opening 72 ft, bottom of last opening 82 ft.

PERIOD OF RECORD.--Water years 2003, 2005, 2007.

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

**WATER-QUALITY DATA
 WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Time	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μS/cm 25 degC (00095)	Temperature, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
May 16...	1500	13.68	17.30	.8	762	.1	1	7.2	320	17.4	--	--	--
Jun 07...	1115	14.44	18.06	1.8	763	.1	2	7.2	321	18.2	160	60.7	2.14

**WATER-QUALITY DATA
 WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide, water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)
May 16...	--	--	138	168	--	--	--	--	--	--	--	--	--
Jun 07...	2.31	7.35	160	195	.02	5.04	.17	33.8	1.02	222	.090	<.06	<.002

353747077052001 Local number BO-419, Washington RSK near Washington, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Total nitrogen, water, fltrd, mg/L (62854)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, µg/L (01106)	Antimony, water, fltrd, µg/L (01095)	Arsenic, water, fltrd, µg/L (01000)	Barium, water, fltrd, µg/L (01005)	Beryllium, water, fltrd, µg/L (01010)	Boron, water, fltrd, µg/L (01020)	Cadmium, water, fltrd, µg/L (01025)	Chromium, water, fltrd, µg/L (01030)	Cobalt, water, fltrd, µg/L (01035)	Copper, water, fltrd, µg/L (01040)	Hydrogen sulfide, water, unfltrd, mg/L (71875)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--	U
Jun 07...	.17	.065	E1.2	E.03	.14	6	<.06	17	<.04	E.06	E.03	1.0	U

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lithium, water, fltrd, µg/L (01130)	Manganese, water, fltrd, µg/L (01056)	Molybdenum, water, fltrd, µg/L (01060)	Nickel, water, fltrd, µg/L (01065)	Selenium, water, fltrd, µg/L (01145)	Silver, water, fltrd, µg/L (01075)	Strontium, water, fltrd, µg/L (01080)	Thallium, water, fltrd, µg/L (01057)	Vanadium, water, fltrd, µg/L (01085)	Zinc, water, fltrd, µg/L (01090)	1-Naphthol, water, fltrd, 0.7u GF, µg/L (49295)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 07...	1,620	.23	6.8	53.9	.1	.35	<.08	<.1	182	<.04	E.02	1.7	<.09

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	2,6-Diethyl-aniline, water, fltrd, 0.7u GF, µg/L (82660)	2Chloro-2',6'-diethyl acet-anilide, wat flt, µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl-methyl-aniline, water, fltrd, µg/L (61620)	3,4-Di-chloro-aniline, water, fltrd, µg/L (61625)	3,5-Di-chloro-aniline, water, fltrd, µg/L (61627)	4-Chloro-2methyl phenol, water, fltrd, µg/L (61633)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-Endo-sulfan, water, fltrd, µg/L (34362)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl oxon, water, fltrd, µg/L (61635)	Azin-phos-methyl, water, fltrd, 0.7u GF, µg/L (82686)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 07...	<.006	<.006	<.014	<.010	<.004	<.012	<.005	<.006	<.005	<.011	<.007	<.04	<.080

353747077052001 Local number BO-419, Washington RSK near Washington, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 6 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Ben-flu- alin, water, fltrd 0.7u GF µg/L (82673)	Car- baryl, water, fltrd 0.7u GF µg/L (82680)	Carbo- furan, water, fltrd 0.7u GF µg/L (82674)	Chlor- pyrifos oxon, water, fltrd, µg/L (61636)	Chlor- pyrifos water, fltrd, µg/L (38933)	cis- Per- methrin water fltrd 0.7u GF µg/L (82687)	cis- Propi- cona- zole, water, fltrd, µg/L (79846)	Cyana- zine, water, fltrd, µg/L (04041)	Cyflu- thrin, water, fltrd, µg/L (61585)	lambda- Cyhalo- thrin, water, fltrd, µg/L (61595)	Cyper- methrin water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7u GF µg/L (82682)	Desulf- inyl- fipro- nil, water, fltrd, µg/L (62170)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 07...	<.010	<.060	<.020	<.06	<.005	<.010	<.013	<.018	<.053	<.014	<.046	<.003	<.012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 7 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Diazi- non, water, fltrd, µg/L (39572)	Dicro- tophos, water, fltrd, µg/L (38454)	Diel- drin, water, fltrd, µg/L (39381)	Dimeth- oate, water, fltrd 0.7u GF µg/L (82662)	Disulf- oton sulfone water, fltrd, µg/L (61640)	Disul- foton, water, fltrd 0.7u GF µg/L (82677)	Endo- sulfan sulfate water, fltrd, µg/L (61590)	EPTC, water, fltrd 0.7u GF µg/L (82668)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Etho- prop, water, fltrd 0.7u GF µg/L (82672)	Fenami- phos sulfone water, fltrd, µg/L (61645)	Fenami- phos sulf- oxide, water, fltrd, µg/L (61646)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 07...	<.005	<.08	<.009	<.006	<.01	<.02	<.022	<.002	<.02	<.016	<.012	<.053	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

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Date	Fenami- phos, water, fltrd, µg/L (61591)	Desulf- inyl- fipro- nil amide, wat flt µg/L (62169)	Fipro- nil sulfide water, fltrd, µg/L (62167)	Fipro- nil sulfone water, fltrd, µg/L (62168)	Fipro- nil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexa- zinone, water, fltrd, µg/L (04025)	lpro- dione, water, fltrd, µg/L (61593)	Isofen- phos, water, fltrd, µg/L (61594)	Mala- oxon, water, fltrd, µg/L (61652)	Mala- thion, water, fltrd, µg/L (39532)	Meta- laxyl, water, fltrd, µg/L (61596)	Methi- althion water, fltrd, µg/L (61598)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 07...	<.03	<.029	<.013	<.024	<.016	<.006	<.026	<.026	<.011	<.039	<.016	<.007	<.009

353747077052001 Local number BO-419, Washington RSK near Washington, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 9 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Methyl para- oxon, water, fltrd, µg/L (61664)	Methyl para- thion, water, fltrd, 0.7u GF µg/L (82667)	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Moli- nate, water, fltrd, 0.7u GF µg/L (82671)	Myclo- butanil water, fltrd, µg/L (61599)	Oxy- fluor- fen, water, fltrd, µg/L (61600)	Pendi- meth- alin, water, fltrd, 0.7u GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd, 0.7u GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)	Prome- ton, water, fltrd, µg/L (04037)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 07...	<.02	<.008	<.010	<.012	<.003	<.033	<.017	<.020	<.03	<.020	<.05	<.008	<.01

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 10 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Prome- tryn, water, fltrd, µg/L (04036)	Propy- zamide, water, fltrd, 0.7u GF µg/L (82676)	Pro- panil, water, fltrd, 0.7u GF µg/L (82679)	Propar- gite, water, fltrd, 0.7u GF µg/L (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water, fltrd, 0.7u GF µg/L (82670)	Teflu- thrin, water, fltrd, µg/L (61606)	Ter- bufos oxon sulfone water, fltrd, µg/L (61674)	Terbu- fos, water, fltrd, 0.7u GF µg/L (82675)	Ter- buthyl- azine, water, fltrd, µg/L (04022)	Thio- bencarb water, fltrd, 0.7u GF µg/L (82681)	trans- Propi- conazole, water, fltrd, µg/L (79847)	Tribu- phos, water, fltrd, µg/L (61610)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 07...	<.006	<.004	<.011	<.02	<.006	<.02	<.003	<.04	<.01	<.01	<.010	<.03	<.035

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 11 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Tri- flur- alin, water, fltrd, 0.7u GF µg/L (82661)	1,1,1,2 -Tetra- chloro- ethane, water, unfltrd µg/L (77562)	1,1,1- Tri- chloro- ethane, water, unfltrd µg/L (34506)	1,1,2,2 -Tetra- chloro- ethane, water, unfltrd µg/L (34516)	CFC-113 water, unfltrd µg/L (77652)	1,1,2- Tri- chloro- ethane, water, unfltrd µg/L (34511)	1,1-Di- chloro- ethane, water, unfltrd µg/L (34496)	1,1-Di- chloro- ethene, water, unfltrd µg/L (34501)	1,1-Di- chloro- propene water, unfltrd µg/L (77168)	1,2,3,4 -Tetra- methyl- benzene water, unfltrd µg/L (49999)	1,2,3,5 -Tetra- methyl- benzene water, unfltrd µg/L (50000)	1,2,3- Tri- chloro- benzene water, unfltrd µg/L (77613)	1,2,3- Tri- chloro- propane water, unfltrd µg/L (77443)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 07...	<.009	<.04	<.04	<.10	<.04	<.04	<.06	<.02	<.04	<.1	<.1	<.1	<.12

353747077052001 Local number BO-419, Washington RSK near Washington, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 12 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	1,2,3-Tri-methyl-benzene water, unfltrd µg/L (77221)	1,2,4-Tri-chloro-benzene water, unfltrd µg/L (34551)	1,2,4-Tri-methyl-benzene water, unfltrd µg/L (77222)	Dibromo-chloro-propane water, unfltrd µg/L (82625)	1,2-Di-bromo-ethane water, unfltrd µg/L (77651)	1,2-Di-chloro-benzene water, unfltrd µg/L (34536)	1,2-Di-chloro-ethane water, unfltrd µg/L (32103)	1,2-Di-chloro-propane water, unfltrd µg/L (34541)	1,3,5-Tri-methyl-benzene water, unfltrd µg/L (77226)	1,3-Di-chloro-benzene water, unfltrd µg/L (34566)	1,3-Di-chloro-propane water, unfltrd µg/L (77173)	1,4-Di-chloro-benzene water, unfltrd µg/L (34571)	2,2-Di-chloro-propane water, unfltrd µg/L (77170)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 07...	<.1	<.1	<.04	<.5	<.04	<.04	<.1	<.02	<.04	<.04	<.1	<.04	<.06

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 13 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	2-Chloro-toluene water, unfltrd µg/L (77275)	2-Ethyl-toluene water, unfltrd µg/L (77220)	3-Chloro-propene water, unfltrd µg/L (78109)	4-Chloro-toluene water, unfltrd µg/L (77277)	4-Iso-propyl-toluene water, unfltrd µg/L (77356)	Acetone water, unfltrd µg/L (81552)	Acrylo-nitrile water, unfltrd µg/L (34215)	Benzene water, unfltrd µg/L (34030)	Bromo-benzene water, unfltrd µg/L (81555)	Bromo-chloro-methane water, unfltrd µg/L (77297)	Bromo-di-chloro-methane water, unfltrd µg/L (32101)	Bromo-ethene water, unfltrd µg/L (50002)	Bromo-methane water, unfltrd µg/L (34413)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 07...	<.04	<.04	<.08	<.04	<.08	<6	<.4	<.02	<.02	<.06	<.04	<.1	<.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 14 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Carbon di-sulfide water, unfltrd µg/L (77041)	Chloro-benzene water, unfltrd µg/L (34301)	Chloro-ethane water, unfltrd µg/L (34311)	Chloro-methane water, unfltrd µg/L (34418)	cis-1,2-Di-chloro-ethene water, unfltrd µg/L (77093)	cis-1,3-Di-chloro-propene water, unfltrd µg/L (34704)	Di-bromo-chloro-methane water, unfltrd µg/L (32105)	Di-bromo-methane water, unfltrd µg/L (30217)	Di-chloro-di-fluoro-methane water, unfltrd µg/L (34668)	Di-chloro-methane water, unfltrd µg/L (34423)	Di-ethyl ether water, unfltrd µg/L (81576)	Diiso-propyl ether water, unfltrd µg/L (81577)	Ethyl methac-rylate water, unfltrd µg/L (73570)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 07...	<.06	<.02	<.1	<.1	<.02	<.06	<.1	<.04	<.14	<.04	<.1	<.06	<.1

353747077052001 Local number BO-419, Washington RSK near Washington, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 15 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Ethyl methyl ketone, water, unfltrd µg/L (81595)	Ethyl-benzene, water, unfltrd µg/L (34371)	Hexa-chloro-butadiene, water, unfltrd µg/L (39702)	Hexa-chloro-ethane, water, unfltrd µg/L (34396)	Iodo-methane, water, unfltrd µg/L (77424)	Iso-butyl methyl ketone, water, unfltrd µg/L (78133)	Iso-propyl-benzene, water, unfltrd µg/L (77223)	Methyl acrylonitrile, water, unfltrd µg/L (81593)	Methyl acrylate, water, unfltrd µg/L (49991)	Methyl methacrylate, water, unfltrd µg/L (81597)	Methyl tert-pentyl ether, water, unfltrd µg/L (50005)	meta-+ para-Xylene, water, unfltrd µg/L (85795)	Naphthalene, water, unfltrd µg/L (34696)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 07...	<1.6	<.02	<.1	<.1	<.40	<.2	<.04	<.4	<.4	<.2	<.04	<.08	<.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 16 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Methyl n-butyl ketone, water, unfltrd µg/L (77103)	n-Butyl benzene, water, unfltrd µg/L (77342)	n-propyl-benzene, water, unfltrd µg/L (77224)	o-Xylene, water, unfltrd µg/L (77135)	sec-Butyl-benzene, water, unfltrd µg/L (77350)	t-Butyl ethyl ether, water, unfltrd µg/L (50004)	Methyl t-butyl ether, water, unfltrd µg/L (78032)	tert-Butyl-benzene, water, unfltrd µg/L (77353)	Tetra-chloro-ethene, water, unfltrd µg/L (34475)	Tetra-chloro-methane, water, unfltrd µg/L (32102)	Tetra-hydro-furan, water, unfltrd µg/L (81607)	Toluene, water, unfltrd µg/L (34010)
May 16...	--	--	--	--	--	--	--	--	--	--	--	--
Jun 07...	<.4	<.1	<.04	<.04	<.04	<.04	<.04	<.1	<.08	<.04	<.08	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 17 of 17

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	trans-1,2-Di-chloro-ethene, water, unfltrd µg/L (34546)	trans-1,3-Di-chloro-propene, water, unfltrd µg/L (34699)	trans-1,4-Di-chloro-2-butene, water, unfltrd µg/L (73547)	Tri-bromo-methane, water, unfltrd µg/L (32104)	Tri-chloro-ethene, water, unfltrd µg/L (39180)	Tri-chloro-methane, water, unfltrd µg/L (34488)	Tri-chloro-methane, water, unfltrd µg/L (32106)	Vinyl chloride, water, unfltrd µg/L (39175)	Di-chloro-vos, water, unfltrd µg/L (38775)	Tritium 2-sigma, water, unfltrd pCi/L (75985)	Tritium, water, unfltrd pCi/L (07000)	Uranium natural, water, unfltrd µg/L (22703)
May 16...	--	--	--	--	--	--	--	--	--	.58	.2	--
Jun 07...	<.02	<.10	<.6	<.08	<.02	<.08	<.04	<.1	<.01	--	--	<.04