

Water-Data Report 2008

353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)

Piedmont and Blue Ridge crystalline-rock aquifers
Mafic Metavolcanic Rock

Randolph County, NC

LOCATION.--Lat 35°37'07.72", long 79°45'20.60" referenced to North American Datum of 1983, Randolph County, NC, Hydrologic Unit 03030003, 6 mi southeast of Asheboro at the North Carolina Zoo. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 260 ft, diameter 6.25 in., cased to 70 ft, open hole from 70 ft to 260 ft.

DATUM.--Land-surface datum is 638.97 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of steel casing, 2.97 ft above land-surface datum.

PERIOD OF RECORD.--April 2007 to current year.

GAGE.--Measured periodically with electric tape by NCDENR and USGS.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 28.93 ft below land-surface datum, April 15, 2007; lowest water level recorded, 35.98 ft below land-surface datum, September 20, 2007.

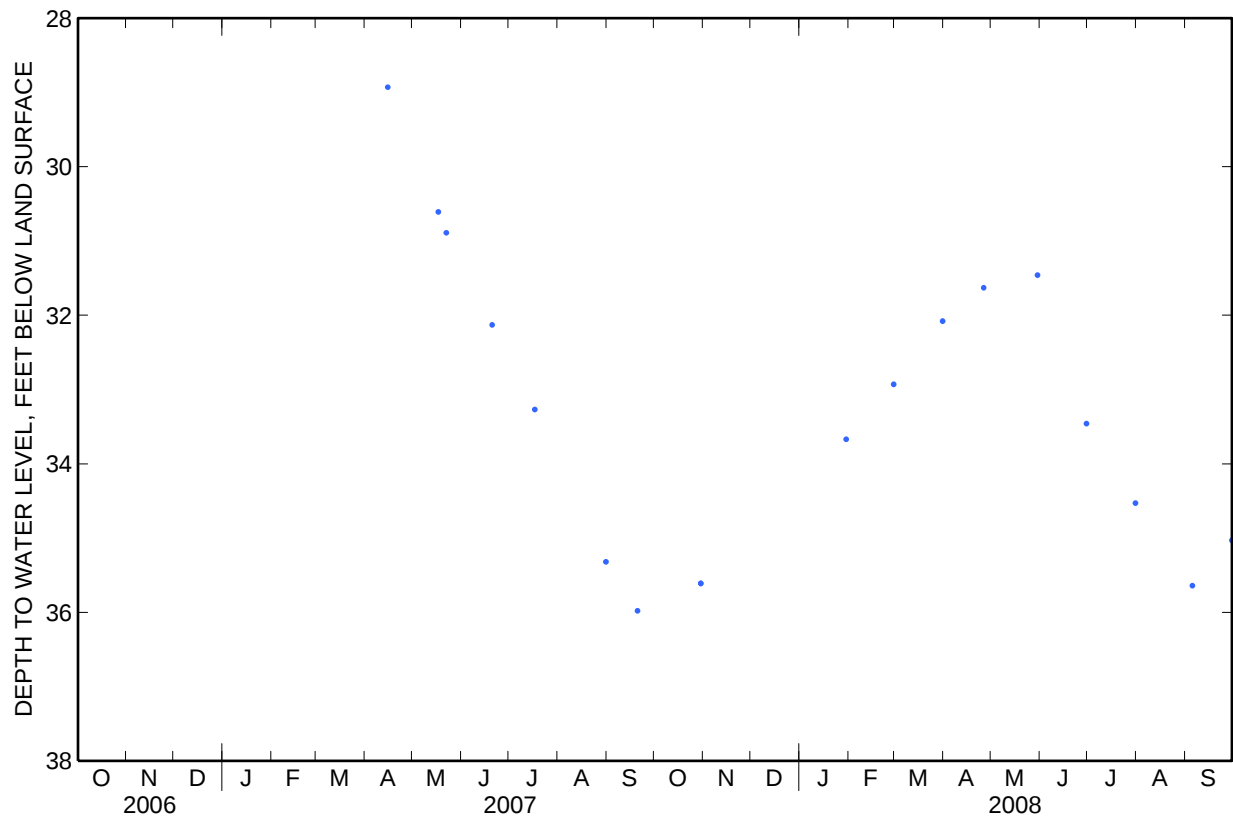
WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level
Oct 30, 2007	35.61	May 30, 2008	31.46
30	35.61	Jun 30	33.46
Jan 30, 2008	33.67	Jul 31	34.53
Feb 29	32.93	Sep 5	35.64
Mar 31	32.08	30	35.03
Apr 26	31.63		

Highest: 31.46 May 30, 2008

Lowest: 35.64 Sep 05, 2008

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2007, October 2007, March 2008.

REMARKS.--Well is part of Piedmont/Mountains ground-water study and 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.]

Date	Time	Sample medium and type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Barometric pressure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC μ S/cm (00095)
Oct									
30...	1230	Ground water, replicate	35.61	38.58	776	3.9	39	6.2	91
30...	1231	QC - Ground water, replicate	--	--	--	--	--	--	--
Mar									
03...	1525	Ground water, regular	32.75	35.72	753	--	--	5.8	103
03...	1530	QC - Ground water, replicate	--	--	--	--	--	--	--

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.]

Date	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, mg/L fltrd, (00915)	Magnesium, water, mg/L fltrd, (00925)	Potassium, water, mg/L fltrd, (00935)	Sodium, water, mg/L fltrd, (00930)	ANC, wat unf infl pt titr., field, mg/L as CaCO3 (00419)	Alkalinity, wat flt inf tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt infl pt titr., field, mg/L (00453)	Bicarbonate, wat unf infl pt titr., field, mg/L (00450)	Bromide, water, mg/L fltrd, (71870)	Chloride, water, mg/L fltrd, (00940)	Fluoride, water, mg/L fltrd, (00950)
Oct													
30...	15.9	27	9.52	.837	1.19	6.14	--	43	53	--	E.01	2.23	<.12
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	15.9	35	12.5	.999	1.28	6.44	48	--	--	58	E.01	2.27	<.12
03...	--	31	10.7	.946	1.27	6.52	--	--	--	--	E.01	2.27	<.12

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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.]

Date	Silica, water, fltrd, mg/L as SiO2 (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)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitro- gen, wat flt by anal ysis, mg/L (62854)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Organic carbon, water, fltrd, mg/L (00681)	Colipge F-spec, 2-step, pres or absence /L (99335)	Colipge som, Ec CN13hst 2-step, pres or absence /L (99332)	E coli, MI MF, water, col/ 100 mL (90901)	Total coli- form, MI MF, water, col/ 100 mL (90900)
Oct													
30...	30.3	.67	86	<.020	<.04	<.002	<.06	.026	E.3	U	U	<1	E3
30...	--	--	--	--	--	--	--	--	--	--	--	<1	E1
Mar													
03...	31.2	.45	91	<.020	E.03	<.002	<.06	.027	--	--	--	--	--
03...	31.9	.54	90	<.020	<.04	<.002	<.06	.027	--	--	--	--	--

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.]

Date	Alum- inum, water, fltrd, µg/L (01106)	Anti- mony, water, fltrd, µg/L (01095)	Arsenic water, fltrd, µg/L (01000)	Barium, water, fltrd, µg/L (01005)	Beryll- ium, water, fltrd, µg/L (01010)	Boron, water, fltrd, µg/L (01020)	Cadmium water, fltrd, µg/L (01025)	Chrom- ium, water, fltrd, µg/L (01030)	Cobalt water, fltrd, µg/L (01035)	Copper, water, fltrd, µg/L (01040)	Hydro- gen sulfide water, unfltrd mg/L (71875)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)
Oct													
30...	<1.6	E.11	.20	14	.01	E4	<.04	.15	.30	E.95	U	17	.58
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	E1.2	E.12	.27	15	.02	1.6	<.04	.18	.36	E.73	--	16	.15
03...	E1.4	E.11	.27	14	.02	1.6	<.04	.18	.34	<1.0	--	17	.14

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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.]

Date	Lithium water, fltrd, µg/L (01130)	Mangan- ese, water, fltrd, µg/L (01056)	Molyb- denum, water, fltrd, µg/L (01060)	Nickel, water, fltrd, µg/L (01065)	Selen- ium, water, fltrd, µg/L (01145)	Silver, water, fltrd, µg/L (01075)	Stront- ium, water, fltrd, µg/L (01080)	Thall- ium, water, fltrd, µg/L (01057)	Vana- dium, water, fltrd, µg/L (01085)	Zinc, water, fltrd, µg/L (01090)	1-Naph- thol, water, fltrd 0.7u GF µg/L (49295)	2,6-Di- ethyl- aniline water, fltrd 0.7u GF µg/L (82660)	2Chloro -2',6'- diethyl acet- anilide wat flt µg/L (61618)
Oct													
30...	1.4	106	E.1	.25	.27	<.1	34.2	<.04	.32	4,770	<.04	<.006	<.010
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	--	144	<.2	1.2	.21	<.1	--	--	--	3,900	--	--	--
03...	--	135	E.1	.26	.22	<.1	--	--	--	3,790	--	--	--

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.]

Date	CIAT, water, fltrd, µg/L (04040)	2-Ethyl -6- 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)	Ben- flur- alin, water, fltrd 0.7u GF µg/L (82673)	Car- baryl, water, fltrd 0.7u GF µg/L (82680)
Oct													
30...	<.014	<.010	<.006	<.008	<.005	<.006	<.006	<.006	<.007	<.04	<.120	<.004	<.060
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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

Date	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- conazole, 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)	Diazi- non, water, fltrd, µg/L (39572)	Dicro- tophos, water, fltrd, µg/L (38454)
Oct													
30...	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

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.]

Date	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)	Fenami- phos, water, fltrd, µg/L (61591)	Desulf- inyl- fipro- nil amide, wat flt µg/L (62169)
Oct													
30...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053	<.06	<.03	<.029
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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

Date	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)	Ipro- 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)	Methid- athion, water, fltrd, µg/L (61598)	Methyl para- oxon, water, fltrd, µg/L (61664)	Methyl para- thion, water, fltrd 0.7u GF µg/L (82667)
Oct													
30...	<.013	<.024	<.020	<.010	<.008	<.01	<.006	<.020	<.016	<.007	<.004	<.01	<.008
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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

Date	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 water, fltrd, µg/L (61601)	Prome- ton, water, fltrd, µg/L (04037)	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)
Oct													
30...	<.010	<.012	<.003	<.010	<.006	<.012	<.03	<.040	<.008	<.01	<.006	<.004	<.006
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued

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.]

Date	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- butyl- azine, water, fltrd, µg/L (04022)	Thio- bencarb water, fltrd 0.7u GF µg/L (82681)	trans- Propi- cona- zole, water, fltrd, µg/L (79847)	Tribu- phos, water, fltrd, µg/L (61610)	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)
Oct 30...	<.04	<.006	<.02	<.003	<.04	<.02	<.01	<.010	<.02	<.035	<.006	<.04	<.02
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

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.]

Date	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)	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)
Oct 30...	<.10	<.04	<.06	<.04	<.02	<.04	<.1	<.1	<.1	<.12	<.1	<.1	<.04
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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

Date	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)	2- Chloro- toluene water, unfltrd µg/L (77275)	2- Ethyl- toluene water, unfltrd µg/L (77220)	3- Chloro- propene water, unfltrd µg/L (78109)
Oct													
30...	<.5	<.04	<.02	<.1	<.02	<.04	<.04	<.1	<.02	<.06	<.04	<.04	<.08
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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

Date	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)	Tri- bromo- methane water, unfltrd µg/L (32104)	Bromo- methane water, unfltrd µg/L (34413)	Carbon di- sulfide water, unfltrd µg/L (77041)	Chloro- benzene water, unfltrd µg/L (34301)
Oct													
30...	<.04	<.08	<4	<.4	<.02	<.02	<.06	<.04	<.1	<.08	<.4	<.06	<.02
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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

Date	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, wat unf 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)	Ethyl methyl ketone, water, unfltrd µg/L (81595)	Ethyl-benzene, water, unfltrd µg/L (34371)
Oct 30...	<.1	<.1	<.02	<.10	<.1	<.04	<.14	<.04	<.1	<.06	<.1	<1.6	<.04
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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

Date	Hexa-chloro-buta-diene, 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 acrylo-nitrile, water, unfltrd µg/L (81593)	Methyl acryl-ate, water, unfltrd µg/L (49991)	Methyl methac-rylate, water, unfltrd µg/L (81597)	Methyl tert-pentyl ether, water, unfltrd µg/L (50005)	meta-+ para-Xylene, water, unfltrd µg/L (85795)	Naphth-alene, water, unfltrd µg/L (34696)	Methyl n-butyl ketone, water, unfltrd µg/L (77103)	n-Butyl benzene, water, unfltrd µg/L (77342)
Oct 30...	<.1	<.1	<.40	<.4	<.04	<.2	<.6	<.2	<.06	<.08	<.2	<.6	<.1
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued

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.]

Date	n-Propyl-benzene water, unfltrd µg/L (77224)	o-Xylene, water, unfltrd µg/L (77135)	sec-Butyl-benzene water, unfltrd µg/L (77350)	Styrene water, unfltrd µg/L (77128)	t-Butyl 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)	trans-1,2-Di-chloro-ethene, water, unfltrd µg/L (34546)	trans-1,3-Di-chloro-propene water, unfltrd µg/L (34699)
Oct													
30...	<.04	<.04	<.04	<.04	<.04	<.1	<.06	<.04	<.08	<.1	<.02	<.02	<.10
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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

Date	trans-1,4-Di-chloro-2-butene, wat unf µg/L (73547)	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-chloro-vos, water, fltrd, µg/L (38775)	Gross alpha 30 day recount wat unf Th-230, pCi/L (63016)	Gross alpha radioac 72 hr, wat unf Th-230, pCi/L (63014)	Gross beta 30 day recount wat unf Cs-137, pCi/L (63017)	Gross beta radioac 72 hr, wat unf Cs-137, pCi/L (63015)	Ra-226, water, fltrd, radon method pCi/L (09511)	Ra-228, water, fltrd, pCi/L (81366)	Rn-222 2-sigma water, unfltrd pCi/L (76002)
Oct													
30...	<.6	<.02	<.08	E.04	<.1	<.01	R-.6	R-.5	1.2	1.1	.019	R.09	27
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued

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.]

Date	Uranium		Data base number	Medium code
	Rn-222, water, unfltrd pCi/L (82303)	natural water, fltrd, µg/L (22703)		
Oct				
30...	590	.05	01	WG
30...	--	--	04	WGQ
Mar				
03...	--	.05	01	WG
03...	--	.05	04	WGQ