



Water-Data Report 2007

**352306077321601 Local number LN-199; LU-15A near Hugo, NC**

Surficial aquifer system  
 Post Miocene (Quaternary + Pliocene) Rocks  
 Lenoir County, NC

LOCATION.--Lat 35°23'06", long 77°32'16" referenced to North American Datum of 1983, Lenoir County, NC, Hydrologic Unit 03020203, Owner: U.S. Geological Survey.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Depth 15 ft. Upper casing diameter 2 in, top of first opening 10.4 ft, bottom of last opening 15 ft.

PERIOD OF RECORD.--April 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 11

[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, (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, water, 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) |
|-----------|------|--|--------------------------------------|---|------------------------------------|--------------------------------|---|---|---|----------------------------|--|-------------------------------------|---------------------------------------|
| Apr 05... | 1045 | 6.60   | 8.82                                 | 31  | 757                                | 4.4                            | 43  | 4.2   | 127   | 13.7                       | 34                                     | 9.16                                | 2.67                                  |
| May 17... | 1330 | 6.07   | 8.29                                 | 25  | 758                                | 4.2                            | 41  | 4.3   | 131   | 13.9                       | --                                     | --                                  | --                                    |

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

Part 2 of 11

[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) | 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 fltrd 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) | Total nitrogen, wat fltrd by analysis, mg/L (62854) | Orthophosphate, water, fltrd, mg/L as P (00671) |
|-----------|---------------------------------------|------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|--|--|--|--|---|---|
| Apr 05... | 4.21                                  | 2.60                               | .05                                 | 7.05                                 | .16                                  | 5.98                               | 13.8                                | 73   | <.020                                    | 6.89   | <.002                                    | 7.25  | E.003   |
| May 17... | --                                    | --                                 | --                                  | --                                   | --                                   | --                                 | --                                  | --   | --                                       | --   | --                                       | --  | --  |

## 352306077321601 Local number LN-199; LU-15A near Hugo, NC—Continued

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

Part 3 of 11

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

| Date      | 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) | Iron, water, fltrd, µg/L (01046) | Lead, water, fltrd, µg/L (01049) |
|-----------|--------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|----------------------------------|
| Apr 05... | 753                                  | E.03                                 | E.08                                | 108                                | .33                                   | 9                                 | .23                                 | .97                                  | .80                                | 3.9                                | U  | 13                               | .42                              |
| May 17... | --                                   | --                                   | --                                  | --                                 | --                                    | --                                | --                                  | --                                   | --                                 | --                                 | U  | --                               | --                               |

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

Part 4 of 11

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

| Date      | 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) | 2,6-Diethyl-aniline, water, fltrd, 0.7u GF µg/L (82660) | 2Chloro-2',6'-diethyl acet-anilide, water, fltrd, µg/L (61618) |
|-----------|-------------------------------------|---------------------------------------|--|------------------------------------|--------------------------------------|------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|----------------------------------|--|---|--|
| Apr 05... | .9                                  | 24.3                                  | <.1                                    | 2.4                                | .64                                  | <.1                                | 37.4                                  | .07                                  | .06                                  | 14.7                             | <.09   | <.006   | <.006  |
| May 17... | --                                  | --                                    | --                                     | --                                 | --                                   | --                                 | --                                    | --                                   | --                                   | --                               | --   | --  | --   |

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

Part 5 of 11

[Remark codes: &lt;, less than; E, estimated; 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) |
|-----------|----------------------------------|--|---|---|---|---|---------------------------------------|---|---------------------------------------|---|--|---|---|
| Apr 05... | E.021                            | <.010  | <.004   | <.012   | <.005   | <.006                                   | <.005                                 | <.011   | .066                                  | <.04  | <.080  | <.010   | <.060   |
| May 17... | --                               | --   | --  | --  | --  | --                                      | --                                    | --  | --                                    | --  | --   | --  | --  |

## 352306077321601 Local number LN-199; LU-15A near Hugo, NC—Continued

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

Part 6 of 11

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

| Date         | Carbo-<br>furan,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82674) | Chlor-<br>pyrifos<br>water,<br>fltrd,<br>µg/L<br>(61636) | Chlor-<br>pyrifos<br>water,<br>fltrd,<br>µg/L<br>(38933) | cis-<br>Per-<br>methrin<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82687) | cis-<br>Propi-<br>conazole,<br>water,<br>fltrd,<br>µg/L<br>(79846) | Cyana-<br>zine,<br>water,<br>fltrd,<br>µg/L<br>(04041) | Cyflu-<br>thrin,<br>water,<br>fltrd,<br>µg/L<br>(61585) | lambda-<br>Cyhalo-<br>thrin,<br>water,<br>fltrd,<br>µg/L<br>(61595) | Cyper-<br>methrin<br>water,<br>fltrd,<br>µg/L<br>(61586) | DCPA,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82682) | Desulf-<br>inyl-<br>fipro-<br>nil,<br>water,<br>fltrd,<br>µg/L<br>(62170) | Diazi-<br>non,<br>water,<br>fltrd,<br>µg/L<br>(39572) | Dicro-<br>tophos,<br>water,<br>fltrd,<br>µg/L<br>(38454) |
|--------------|---|--|--|--|--|--|---|---|--|--|---|---|--|
| Apr<br>05... | <.020   | <.06   | <.005  | <.010  | <.013  | <.018  | <.053   | <.014   | <.046  | <.003  | <.012   | <.005   | <.08   |
| May<br>17... | --  | --   | --   | --   | --   | --   | --  | --  | --   | --   | --  | --  | --   |

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

Part 7 of 11

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

| Date         | Diel-<br>drin,<br>water,<br>fltrd,<br>µg/L<br>(39381) | Dimeth-<br>oate,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82662) | Disulf-<br>oton<br>sulfone<br>water,<br>fltrd,<br>µg/L<br>(61640) | Disul-<br>foton,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82677) | Endo-<br>sulfan<br>sulfate<br>water,<br>fltrd,<br>µg/L<br>(61590) | EPTC,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82668) | Ethion<br>monoxon<br>water,<br>fltrd,<br>µg/L<br>(61644) | Ethion,<br>water,<br>fltrd,<br>µg/L<br>(82346) | Etho-<br>prop,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82672) | Fenami-<br>phos<br>sulfone<br>water,<br>fltrd,<br>µg/L<br>(61645) | Fenami-<br>phos<br>sulf-<br>oxide,<br>water,<br>fltrd,<br>µg/L<br>(61646) | Fenami-<br>phos,<br>water,<br>fltrd,<br>µg/L<br>(61591) | Desulf-<br>inyl-<br>fipro-<br>nil<br>amide,<br>wat flt<br>µg/L<br>(62169) |
|--------------|---|---|---|---|---|--|--|--|---|---|---|---|---|
| Apr<br>05... | <.009   | <.006   | <.01  | <.02  | <.022   | <.002  | <.02   | <.016  | <.012   | <.053   | <.04  | <.03  | <.029   |
| May<br>17... | --  | --  | --  | --  | --  | --   | --   | --   | --  | --  | --  | --  | --  |

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

Part 8 of 11

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

| Date         | Fipro-<br>nil<br>sulfide<br>water,<br>fltrd,<br>µg/L<br>(62167) | Fipro-<br>nil<br>sulfone<br>water,<br>fltrd,<br>µg/L<br>(62168) | Fipro-<br>nil,<br>water,<br>fltrd,<br>µg/L<br>(62166) | Fonofos<br>water,<br>fltrd,<br>µg/L<br>(04095) | Hexa-<br>zinone,<br>water,<br>fltrd,<br>µg/L<br>(04025) | Ipro-<br>dione,<br>water,<br>fltrd,<br>µg/L<br>(61593) | Isofen-<br>phos,<br>water,<br>fltrd,<br>µg/L<br>(61594) | Mala-<br>oxon,<br>water,<br>fltrd,<br>µg/L<br>(61652) | Mala-<br>thion,<br>water,<br>fltrd,<br>µg/L<br>(39532) | Meta-<br>laxyl,<br>water,<br>fltrd,<br>µg/L<br>(61596) | Methi-<br>althion<br>water,<br>fltrd,<br>µg/L<br>(61598) | Methyl<br>para-<br>oxon,<br>water,<br>fltrd,<br>µg/L<br>(61664) | Methyl<br>para-<br>thion,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82667) |
|--------------|---|---|---|--|---|--|---|---|--|--|--|---|--|
| Apr<br>05... | <.013   | <.024   | <.016   | <.006  | <.026   | <.026  | <.011   | <.039   | <.016  | <.007  | <.009  | <.02  | <.008  |
| May<br>17... | --  | --  | --  | --   | --  | --   | --  | --  | --   | --   | --   | --  | --   |

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

Part 9 of 11

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

| Date      | Metolachlor,<br>water,<br>fltrd,<br>µg/L<br>(39415) | Metribuzin,<br>water,<br>fltrd,<br>µg/L<br>(82630) | Molinate,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82671) | Myclobutanil<br>water,<br>fltrd,<br>µg/L<br>(61599) | Oxyfluorfen,<br>water,<br>fltrd,<br>µg/L<br>(61600) | Pendimethalin,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82683) | Phorate oxon,<br>water,<br>fltrd,<br>µg/L<br>(61666) | Phorate water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82664) | Phosmet oxon,<br>water,<br>fltrd,<br>µg/L<br>(61668) | Phosmet water,<br>fltrd,<br>µg/L<br>(61601) | Prometon,<br>water,<br>fltrd,<br>µg/L<br>(04037) | Prometryn,<br>water,<br>fltrd,<br>µg/L<br>(04036) | Propyzamide,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82676) |
|-----------|---|--|--|---|---|---|--|---|--|---|--|---|---|
| Apr 05... | E.008   | <.012  | <.003  | <.033   | <.017   | .107  | <.03   | <.020   | <.05   | <.008                                       | <.01   | <.006   | <.004   |
| May 17... | --  | --   | --   | --  | --  | --  | --   | --  | --   | --  | --   | --  | --  |

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

Part 10 of 11

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

| Date      | Propanil,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82679) | Propargite,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82685) | Simazine,<br>water,<br>fltrd,<br>µg/L<br>(04035) | Tebu-thiuron<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82670) | Tefluthrin,<br>water,<br>fltrd,<br>µg/L<br>(61606) | Terbufos oxon sulfone<br>water,<br>fltrd,<br>µg/L<br>(61674) | Terbufos water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82675) | Terbutylazine,<br>water,<br>fltrd,<br>µg/L<br>(04022) | Thiobencarb water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82681) | trans-Propiconazole,<br>water,<br>fltrd,<br>µg/L<br>(79847) | Tribuphos,<br>water,<br>fltrd,<br>µg/L<br>(61610) | Tri-fluralin,<br>water,<br>fltrd<br>0.7u GF<br>µg/L<br>(82661) | Di-chlorvos,<br>water,<br>fltrd,<br>µg/L<br>(38775) |
|-----------|--|--|--|---|--|--|--|---|---|---|---|--|---|
| Apr 05... | <.011  | <.02   | <.006  | <.02  | <.003  | <.04   | <.01   | <.01  | <.010   | <.03  | <.035   | <.009  | <.01  |
| May 17... | --   | --   | --   | --  | --   | --   | --   | --  | --  | --  | --  | --   | --  |

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

Part 11 of 11

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

| Date      | Tritium 2-sigma<br>water,<br>unfltrd<br>pCi/L<br>(75985) | Tritium water,<br>unfltrd<br>pCi/L<br>(07000) | Uranium natural<br>water,<br>fltrd,<br>µg/L<br>(22703) |
|-----------|--|---|--|
| Apr 05... | .96  | 14.4  | .39  |
| May 17... | --   | --  | --   |