



Water-Data Report 2008

**353141080524703 Local number IR-147, NCDENR Langtree Research Station MW-1D near Davidson, NC
(Bedrock)**

Piedmont and Blue Ridge crystalline-rock aquifers

Intermediate Metagneous Rock

Iredell County, NC

LOCATION.--Lat 35°31'41", long 80°52'47" referenced to North American Datum of 1983, Iredell County, NC, Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .2 mi north of Langtree Road at Davidson College Lake Campus. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 602 ft, diameter 6.25 in., steel cased to 55 ft, initially open hole from 55 to 602 ft. Well modified in December 2001, 4 in. PVC liner installed to 76 ft, open hole from 76 to 602 ft.

DATUM.--Land-surface datum is 812.51 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of 4-inch PVC liner, 2.16 ft above land-surface datum, December 12, 2001, to present.

PERIOD OF RECORD.--January 2001 to current year. Continuous record July 2002.

GAGE.--Measured periodically with steel and electric tape. (by NCDENR, Division of Water Quality, and USGS)

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.48 ft below land-surface datum, June 19, 2001; lowest water level recorded, 50.54 ft below land-surface datum, July 23, 2002.

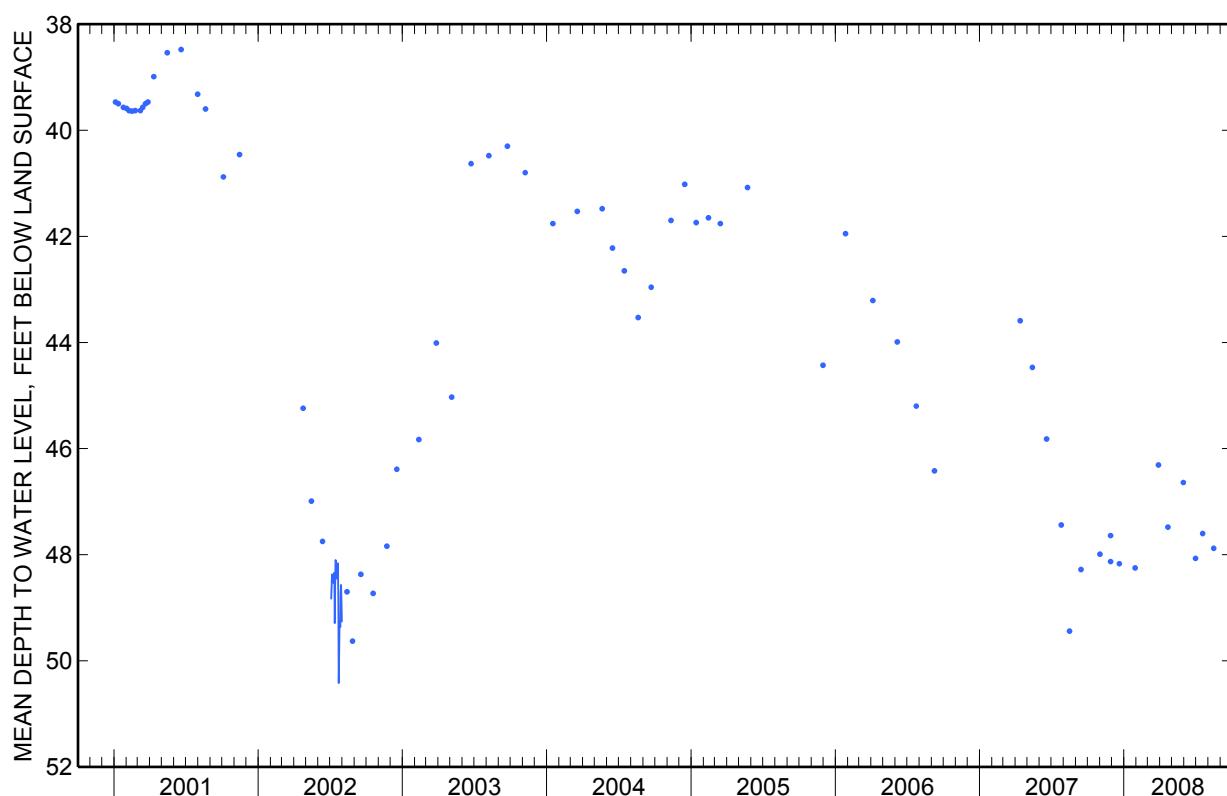
WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level
Nov 1, 2007	47.99	Apr 21, 2008	47.48
28	48.13	May 30	46.64
28	47.64	Jun 30	48.07
Dec 20	48.17	Jul 18	47.60
Jan 29, 2008	48.25	Aug 15	47.88
Mar 28	46.31	Sep 29	47.90

Highest: 46.31 Mar 28, 2008

Lowest: 48.25 Jan 29, 2008

353141080524703 Local number IR-147, NCDENR Langtree Research Station MW-1D near Mooresville, NC (Bedrock)—Continued



353141080524703 Local number IR-147, NCDENR Langtree Research Station MW-1D near Mooresville, NC (Bedrock)—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD--August 2002, March 2003, November 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; M, presence verified but not quantified; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Time	Sample medium and type	Depth	Water	Baro-	Dissolved	pH,	Specif-
			to water level, feet below	level, depth below	metric pres- sure, MP, feet	solved oxygen, mm Hg	oxygen, mg/L	ic conductance, wat umf $\mu\text{S}/\text{cm}$
			LSD (72019)	(61055)	(00025)	(00300)	(00301)	25 degC (00095)
Nov								
28...	1130	Ground water, replicate	47.64	49.80	752	.7	8	8.0 209
28...	1131	QC - Ground water, replicate	--	--	--	--	--	--
28...	1132	QC - Artificial, blank	--	--	--	--	--	--
28...	1133	QC - Ground water, spike	--	--	--	--	--	--

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

Part 2 of 19

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

Date	Temperature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO ₃ (00900)	Calcium water, mg/L (00915)	Magnes-iun, 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, Bromide water, mg/L (71870)	Fluor-ide, water, mg/L (00940)	Silica, water, mg/L as SiO ₂ (00955)	Sulfate water, mg/L (00945)
		CaCO ₃	mg/L	mg/L	mg/L	mg/L	mg/L as CaCO ₃	mg/L	mg/L	mg/L	mg/L	mg/L
Nov												
28...	17.5	86	31.3	1.78	1.90	8.14	68	83	E.02	1.72	<.12	28.2 34.1
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--

353141080524703 Local number IR-147, NCDENR Langtree Research Station MW-1D near Mooresville, NC (Bedrock)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 19

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

Date	Residue on evap. 180degC wat flt	Ammonia mg/L (70300)	Nitrate + nitrite water, fltrd, mg/L (00608)	Nitrite water, fltrd, mg/L (00631)	Total nitro- gen, by anal ysis, mg/L (00613)	Ortho- phos- phate, water, fltrd, mg/L (62854)	Organic carbon, water, fltrd, mg/L (00671)	Colipge F-spec, FAMP, 2-step, absence	Colipge som, Ec CN13hst 2-step, absence	E coli, MI MF, pres or absence	Total coli- form, water, col/ 100 mL	Alum- inum, water, col/ 100 mL	Anti- mony, water, fltrd, μg/L (01095)	
Nov														
28...	161	<.020	.09	.004	.10	.014	E.2	U	U	<1	<1	3.1	<.14	
28...	--	--	--	--	--	--	--	--	--	<1	<1	--	--	
28...	--	<.020	<.04	<.002	<.06	<.006	--	--	--	--	--	<1.6	<.14	
28...	--	--	--	--	--	--	--	--	--	--	--	--	--	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 19

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

Date	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)	Lithium water, fltrd, μg/L (01130)	Mangan- ese, water, fltrd, μg/L (01056)	
Nov														
28...	1.4	3	<.01	18	E.02	.12	.02	<1.0	U	<8	<.08	E1.0	1.3	
28...	--	--	--	--	--	--	--	--	--	--	--	--	--	
28...	<.06	<.4	<.01	V24	<.04	<.12	<.02	<1.0	--	--	<.08	<1.0	<.2	
28...	--	--	--	--	--	--	--	--	--	--	--	--	--	

353141080524703 Local number IR-147, NCDENR Langtree Research Station MW-1D near Mooresville, NC (Bedrock)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 19

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

Date	Molybdenum, water, filtrd, μg/L (01060)	Nickel, water, filtrd, μg/L (01065)	Selenium, water, filtrd, μg/L (01145)	Silver, water, filtrd, μg/L (01075)	Strontium, water, filtrd, μg/L (01080)	Thallium, water, filtrd, μg/L (01057)	Vanadium, water, filtrd, μg/L (01085)	Zinc, water, filtrd, μg/L (01090)	1-Naphthalol, water, filtrd, μg/L (49295)	2,6-Diethyl-aniline, water, filtrd, μg/L (82660)	2-Chloro-2'-6'-diethylacetanilide, water, water filt μg/L (61618)	2-Ethyl-6-methyl- CIAT, water, filtrd, μg/L (04040)
Nov												
28...	14.2	E.18	2.4	<.1	36.7	<.04	8.5	E1.0	<.04	<.006	<.010	<.014
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.2	<.20	<.04	<.1	<.80	<.04	<.04	<1.8	--	--	--	--
28...	--	--	--	--	--	--	--	--	E.02	.099	.093	E.035
												E.094

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 19

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

Date	3,4-Dichloro-aniline, water, filtrd, μg/L (61625)	3,5-Dichloro-aniline, water, filtrd, μg/L (61627)	4-Chloro-2methylphenol, water, filtrd, μg/L (61633)	Acetochlor, water, filtrd, μg/L (49260)	Alachlor, water, filtrd, μg/L (46342)	alpha-Endosulfan, water, filtrd, μg/L (34362)	Atrazine, water, filtrd, μg/L (39632)	Azinophos-methyl, water, filtrd, μg/L (61635)	Azinophos-methyl, water, filtrd, μg/L (82686)	Benzofuran, water, filtrd, μg/L (82673)	Carbaryl, water, filtrd, μg/L (82680)	Carbofuran, water, filtrd, μg/L (82674)	Chloropyrifos, water, filtrd, μg/L (61636)
Nov													
28...	<.006	<.008	<.005	<.006	<.006	<.006	<.007	<.04	<.120	<.004	<.060	<.020	<.06
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	E.082	.092	E.048	.100	.100	.085	.103	E.03	E.065	.066	E.094	E.083	E.01

353141080524703 Local number IR-147, NCDENR Langtree Research Station MW-1D near Mooresville, NC (Bedrock)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 7 of 19

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

Date	cis-Per-methrin Chlor-pyrifos water, fltrd, 0.7u GF μg/L (38933)	cis-Propiconazole, water, fltrd, 0.7u GF μg/L (82687)	Cyana-zine, water, fltrd, 0.7u GF μg/L (79846)	Cyflu-thrin, water, fltrd, 0.7u GF μg/L (04041)	Lambda-Cyhalothrin, water, fltrd, 0.7u GF μg/L (61585)	Cyber-methrin water, fltrd, 0.7u GF μg/L (61586)	DCPA, water, fltrd, 0.7u GF μg/L (82682)	Desulf-inyl-fipro-nil, water, fltrd, 0.7u GF μg/L (62170)	Diazi-non, water, fltrd, 0.7u GF μg/L (39572)	Dicrop-tophos, water, fltrd, 0.7u GF μg/L (38454)	Diel-drin, water, fltrd, 0.7u GF μg/L (39381)	Dimeth-oate, water, fltrd, 0.7u GF μg/L (82662)
Nov												
28...	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08	<.009
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	.090	.089	E.022	.074	E.057	E.035	E.063	.104	.085	.093	E.04	.098

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 8 of 19

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

Date	Disulf-ton sulfone water, fltrd, 0.7u GF μg/L (61640)	Disul-foton, water, fltrd, 0.7u GF μg/L (82677)	Endo-sulfan sulfate water, fltrd, 0.7u GF μg/L (61590)	EPTC, water, fltrd, 0.7u GF μg/L (82668)	Ethion monoxon water, fltrd, 0.7u GF μg/L (61644)	Ethion, water, fltrd, 0.7u GF μg/L (82346)	Etho-prop, water, fltrd, 0.7u GF μg/L (82672)	Fenami-phos sulf-oxide, water, fltrd, 0.7u GF μg/L (61645)	Fenami-phos sulf-oxide, water, fltrd, 0.7u GF μg/L (61646)	Fenami-phos sulf-oxide, water, fltrd, 0.7u GF μg/L (61591)	Desulf-inyl-fipro-nil, water, fltrd, 0.7u GF μg/L (62169)	Fipro-nil sulfide water, fltrd, 0.7u GF μg/L (62167)
Nov												
28...	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053	<.04	<.03	<.029	<.013
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	.09	E.07	.090	.102	E.07	.101	.096	E.052	E.01	.07	E.053	.081

353141080524703 Local number IR-147, NCDENR Langtree Research Station MW-1D near Mooresville, NC (Bedrock)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 9 of 19

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

Date	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-athon, water, fltrd, μg/L (61598)	Methyl-para-oxon, water, fltrd, μg/L (61664)	Methyl para-thion, water, fltrd, 0.7u GF (82667)	Metola-chlor, water, fltrd, μg/L (39415)	Metri-buzin, water, fltrd, μg/L (82630)
Nov													
28...	<.020	<.010	<.008	<.01	<.006	<.020	<.016	<.007	<.004	<.01	<.008	<.010	<.012
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	E.083	.093	.063	M	.108	.059	.083	.090	.094	E.04	.069	.095	.069

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 10 of 19

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

Date	Moli-nate, water, fltrd, 0.7u GF μg/L (82671)	Myclo-butanil water, fltrd, μg/L (61599)	Oxy-fluor-fen, water, fltrd, 0.7u GF μg/L (61600)	Pendi-meth-alin, water, fltrd, 0.7u GF μg/L (82683)	Phorate oxon, water, fltrd, μg/L (61666)	Phorate oxon, 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)	Prome-tryn, water, fltrd, μg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF μg/L (82676)	Pro-pamil, water, fltrd, 0.7u GF μg/L (82679)	Pro-par-gite, water, fltrd, 0.7u GF μg/L (82685)
Nov													
28...	<.003	<.010	<.006	<.012	<.03	<.040	<.05	<.008	<.01	<.006	<.004	<.006	<.04
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	.104	.090	.059	.084	E.07	.074	M	E.008	.09	.100	.093	.103	.10

353141080524703 Local number IR-147, NCDENR Langtree Research Station MW-1D near Mooresville, 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; M, presence verified but not quantified; R, radchem non-detect, below ssLc; U, analyzed for but not detected; V, value affected by contamination.]

Date	Simazine, water, filtrd, μg/L (04035)	Tebuthiuron, water, filtrd, 0.7u GF (82670)	Tefluthrin, water, filtrd, (61606)	Terbufos, oxon sulfone water, filtrd, μg/L (61674)	Terbutylfos, water, filtrd, 0.7u GF (82675)	Terbutylazine, water, filtrd, μg/L (04022)	Thiobencarb, water, filtrd, 0.7u GF (82681)	trans-Propiconazole, water, filtrd, μg/L (79847)	Tributylphos, water, filtrd, 0.7u GF (61610)	Trifluoralin, water, filtrd, μg/L (82661)	1,1,1,2-Tetra-chloroethane, water, unfiltrd, μg/L (77562)	1,1,1-Tri-chloroethane, water, unfiltrd, μg/L (34506)	1,1,2-Tri-chloroethane, water, unfiltrd, μg/L (34516)
Nov													
28...	<.006	<.02	<.003	<.04	<.02	<.01	<.010	<.02	<.035	<.006	<.04	<.02	<.10
28...	--	--	--	--	--	--	--	--	--	--	<.04	<.02	<.10
28...	--	--	--	--	--	--	--	--	--	--	<.04	<.02	<.10
28...	.099	.07	E.061	E.04	E.15	.10	.110	E.07	E.084	.074	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 12 of 19

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

Date	CFC-113 water, unfiltrd μg/L (77652)	1,1,2-Tri-chloroethane, water, unfiltrd μg/L (34511)	1,1-Di-chloroethane, water, unfiltrd μg/L (34496)	1,1-Di-chloroethene, water, unfiltrd μg/L (34501)	1,1-Di-propene water, unfiltrd μg/L (77168)	1,2,3,4-Tetra-methylbenzene water, unfiltrd μg/L (49999)	1,2,3,5-Tetra-methylbenzene water, unfiltrd μg/L (50000)	1,2,3-Chloro-benzene water, unfiltrd μg/L (77613)	1,2,3-Chloro-propane water, unfiltrd μg/L (77443)	1,2,3-Chloro-benzene water, unfiltrd μg/L (77221)	1,2,4-Chloro-benzene water, unfiltrd μg/L (34551)	1,2,4-Chloro-propane water, unfiltrd μg/L (77222)	Dibromo-chloropropane water, unfiltrd μg/L (82625)
Nov													
28...	<.04	<.06	<.04	<.02	<.04	<.1	<.1	<.1	<.12	<.1	<.1	<.04	<.5
28...	<.04	<.06	<.04	<.02	<.04	<.1	<.1	<.1	<.12	<.1	<.1	E.08	<.5
28...	<.04	<.06	<.04	<.02	<.04	<.1	<.1	<.1	<.12	<.1	<.1	<.04	<.5
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

353141080524703 Local number IR-147, NCDENR Langtree Research Station MW-1D near Mooresville, NC (Bedrock)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 13 of 19

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

Date	1,2-Dibromo-ethane, water, unfltrd	1,2-Dichloro-benzene, water, unfltrd	1,2-Dichloro-ethane, water, unfltrd	1,2-Dichloro-propane, water, unfltrd	Tri-methyl-benzene, water, unfltrd	1,3-Dichloro-benzene, water, unfltrd	1,3-Dichloro-propane, water, unfltrd	1,4-Dichloro-benzene, water, unfltrd	2,2-Dichloro-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)
Nov													
28...	<.04	<.02	<.1	<.02	<.04	<.04	<.1	<.02	<.06	<.04	<.04	<.08	<.04
28...	<.04	<.02	<.1	<.02	<.04	<.04	<.1	<.02	<.06	<.04	<.04	<.08	<.04
28...	<.04	<.02	<.1	<.02	<.04	<.04	<.1	<.02	<.06	<.04	<.04	<.08	<.04
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 14 of 19

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

Date	4-Iso-propyl-toluene, water, unfltrd	Acetone	Acrylo-nitrile	Benzene	Bromo-benzene	Bromo-chloro-methane	Bromo-chloro-methane	Bromo-ethene, water, unfltrd	Bromo-methane, water, unfltrd	Bromo-methane, water, unfltrd	Tri-bromo-methane, water, unfltrd	Bromo-sulfide, water, unfltrd	Carbon-benzene, water, unfltrd	Chloro-ethane, water, unfltrd
	µg/L (77356)	µg/L (81552)	µg/L (34215)	µg/L (34030)	µg/L (81555)	µg/L (77297)	µg/L (32101)	µg/L (50002)	µg/L (32104)	µg/L (34413)	µg/L (77041)	µg/L (34301)	µg/L (34311)	
Nov														
28...	<.08	<4	<.4	<.02	<.02	<.06	<.04	<.1	<.08	<.4	<.06	<.02	<.1	
28...	<.08	<4	<.4	<.02	<.02	<.06	<.04	<.1	<.08	<.4	<.06	<.02	<.1	
28...	<.08	<4	<.4	<.02	<.02	<.06	<.04	<.1	<.08	<.4	<.06	<.02	<.1	
28...	--	--	--	--	--	--	--	--	--	--	--	--	--	

353141080524703 Local number IR-147, NCDENR Langtree Research Station MW-1D near Mooresville, NC (Bedrock)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 15 of 19

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

Date	cis- Chloro- methane water, unfltrd	cis- 1,2-Di- chloro- ethene, water, unfltrd	cis- 1,3-Di- chloro- propene water, unfltrd	Di- bromo- chloro- methane water, unfltrd	Di- bromo- chloro- methane water, unfltrd	Di- chloro- di- fluoro- methane water, unfltrd	Di- chloro- di- methane water, unfltrd	Di- ethyl ether, water, unfltrd	Diiso- propyl ether, water, unfltrd	Ethyl methac- rylate, water, unfltrd	Ethyl methyl ketone, water, unfltrd	Ethyl- benzene water, unfltrd	Hexa- chloro- buta- diene, water, unfltrd
	µg/L (34418)	µg/L (77093)	µg/L (34704)	µg/L (32105)	µg/L (30217)	µg/L (34668)	µg/L (34423)	µg/L (81576)	µg/L (81577)	µg/L (73570)	µg/L (81595)	µg/L (34371)	µg/L (39702)
Nov													
28...	<.1	<.02	<.10	<.1	<.04	<.14	<.04	<.1	<.06	<.1	<1.6	<.04	<.1
28...	<.1	<.02	<.10	<.1	<.04	<.14	<.04	<.1	<.06	<.1	<1.6	<.04	<.1
28...	<.1	<.02	<.10	<.1	<.04	<.14	<.04	<.1	<.06	<.1	<1.6	<.04	<.1
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 16 of 19

[QC, quality control sample. Remark codes: <, less than; E, estimated; M, presence verified but not quantified; 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 methac- rylate, water, unfltrd	Methyl tert- pentyl ether, water, unfltrd	meta- + para- Xylene, water, unfltrd	Naphth- Xylene, water, unfltrd	Methyl n-butyl ketone, water, unfltrd	n- Butyl benzene water, unfltrd	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)
Nov													
28...	<.1	<.40	<.4	<.04	<.2	<.6	<.2	<.06	<.08	<.2	<.6	<.1	<.04
28...	<.1	<.40	<.4	<.04	<.2	<.6	<.2	<.06	<.08	<.2	<.6	<.1	<.04
28...	<.1	<.40	<.4	<.04	<.2	<.6	<.2	<.06	<.08	<.2	<.6	<.1	<.04
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

353141080524703 Local number IR-147, NCDENR Langtree Research Station MW-1D near Mooresville, 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; M, presence verified but not quantified; 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 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- butene, water, unfltrd
	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)
Nov													
28...	<.04	<.04	<.04	<.04	<.1	<.06	<.04	<.08	<1	<.02	<.02	<.10	<.6
28...	<.04	<.04	<.04	<.04	<.1	<.06	<.04	<.08	<1	<.02	<.02	<.10	<.6
28...	<.04	<.04	<.04	<.04	<.1	<.06	<.04	<.08	<1	<.02	<.02	<.10	<.6
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 18 of 19

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

Date	Tri-chloro- ethene, water, unfltrd	Tri-fluoro- methane water, unfltrd	Tri-chloro- methane water, unfltrd	Vinyl chlor- ide, water, unfltrd	Di-chloro- vos, water, unfltrd	Gross alpha 30 day recount	Gross alpha 72 hr, wat unf	Gross beta 30 day recount	Gross beta 72 hr, wat unf	Ra-226, water, filtrd,	Ra-228, water, filtrd,	Rn-222 2-sigma	Rn-222, water, unfltrd
	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)	µg/L (38775)	(63016)	(63014)	(63017)	(63015)	(09511)	(81366)	pCi/L (76002)	pCi/L (82303)
Nov													
28...	<.02	<.08	E.06	<.1	<.01	R-.4	1.6	3.2	2.2	.052	R.05	20	280
28...	<.02	<.08	E.06	<.1	--	--	--	--	--	--	--	--	--
28...	<.02	<.08	<.02	<.1	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	E.02	--	--	--	--	--	--	--	--

353141080524703 Local number IR-147, NCDENR Langtree Research Station MW-1D near Mooresville, 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;
 M, presence verified but not quantified;
 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
Nov			
28...	1.59	01	WG
28...	--	04	<i>WGQ</i>
28...	<.02	04	<i>OAQ</i>
28...	--	04	<i>WGQ</i>