

Water-Data Report 2012

355603079122501 Local number OR-687 COL-3 NEAR WHITE CROSS, NC (TRANSITION ZONE)

 Piedmont and Blue Ridge crystalline-rock aquifers
 Transition Zone

Orange County, NC

LOCATION.--Lat 35°56'03.10", long 79°12'25.46" referenced to North American Datum of 1983, Orange County, NC, Hydrologic Unit 03030002, near Oaks, NC. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 40 ft. Upper casing diameter 4 in; top of first opening 25 ft, bottom of last opening 40 ft.

DATUM.--Land-surface datum is 525 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 3.18 ft above land-surface datum.

PERIOD OF RECORD.--May 2011 to current year.

REMARKS.--Measured quarterly by U. S. Geological Survey and/or NCDENR personnel.

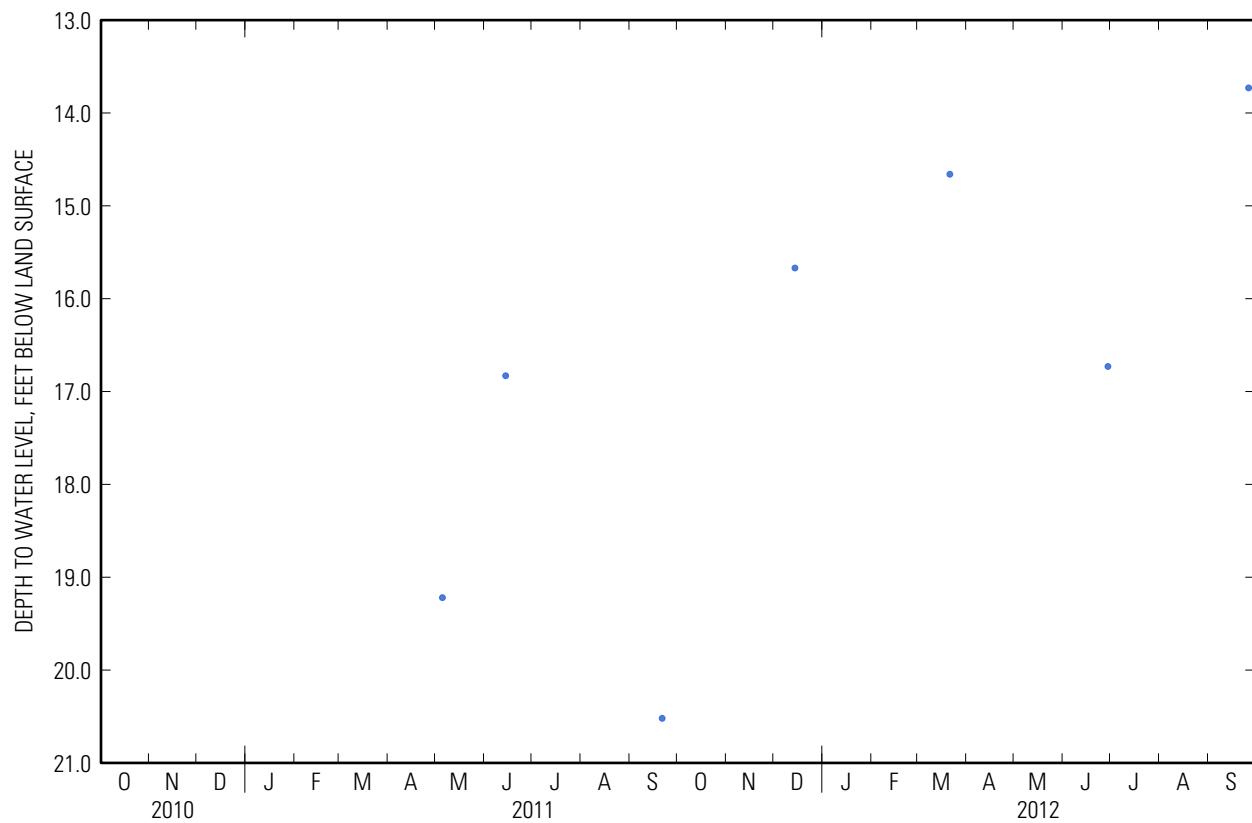
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.66 ft below land-surface datum, March 21, 2012; lowest water level measured, 20.52 ft below land-surface datum, September 21, 2011.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

[Measurement method: T, electric tape. Water-level status: --, static.]

Date	Water level	Measure- ment method	Water- level status	Date	Water level	Measure- ment method	Water- level status
Dec 14, 2011	15.67	T	--	Jun 29, 2012	16.73	T	--
Mar 21, 2012	14.66	T	--	Sep 26	13.73	T	--

355603079122501 Local number OR-687 COL-3 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued



355603079122501 Local number OR-687 COL-3 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 2011 to current year.

REMARKS.--Station operated to evaluate effects of land-applied municipal biosolids on water quality.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 1 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Medium name	Sample type	Depth to water level, ft below land surface (72019)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)
12-14-2011	1131	QC sample - Artificial	Blank	--	--	--	--	--
12-14-2011	1132	QC sample - Artificial	Blank	--	--	--	--	--
12-14-2011	1235	Groundwater	Regular	15.67	3.7	5.4	221	15.6
12-14-2011	1236	QC sample - Groundwater	Replicate	--	--	--	--	--
03-21-2012	1305	Groundwater	Regular	14.66	3.5	5.3	200	15.6
03-21-2012	1306	QC sample - Groundwater	Duplicate	--	--	--	--	--
06-29-2012	1015	Groundwater	Regular	16.73	3.0	5.2	162	15.3
09-26-2012	1250	Groundwater	Regular	13.73	4.0	5.2	221	15.6

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 2 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, inflection-point, incremental titration method, field, mg/L as CaCO ₃ (00419)	Alkalinity, water, filtered, fixed endpoint titration, laboratory, mg/L as CaCO ₃ (29801)	Chloride, water, filtered, mg/L (00940)
12-14-2011	1131	--	0.031	< .011	< .03	< .06	--	< 4.6	< .06
12-14-2011	1132	--	--	--	--	--	--	--	--
12-14-2011	1235	1.6	17.0	8.72	.96	7.82	13	15.9	5.88
12-14-2011	1236	--	16.8	8.68	.96	7.70	--	16.4	5.94
03-21-2012	1305	4.2	12.5	7.07	.87	6.92	14	18.2	5.75
03-21-2012	1306	--	--	--	--	--	--	--	--
06-29-2012	1015	7.0	13.3	6.01	.80	6.75	--	18.4	5.44
09-26-2012	1250	.9	15.8	8.58	1.00	7.35	12	16.5	5.66

355603079122501 Local number OR-687 COL-3 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 3 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Fluoride, water, filtered, mg/L (00950)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, filtered, mg/L as P (00666)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Escherichia coli, Defined Substrate Technology, water, MPN/100 mL (50468)
12-14-2011	1131	< .04	< .09	< .010	< .040	< .004	< .004	< .05	< 1
12-14-2011	1132	--	--	--	--	--	--	--	--
12-14-2011	1235	< .04	8.15	.013	16.6	.025	.023	16.9	< 1
12-14-2011	1236	< .04	8.45	< .010	17.2	.026	.023	17.9	< 1
03-21-2012	1305	< .04	7.65	< .010	13.2	.027	.025	12.8	10
03-21-2012	1306	--	--	--	--	--	--	--	--
06-29-2012	1015	.05	7.10	< .010	10.4	.021	.024	10.3	< 1
09-26-2012	1250	< .04	9.64	< .010	15.3	.024	.024	16.3	< 10

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 4 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Fecal coliform, M-FC MF (0.45 micron) method, water, filtered, col/100 mL (31616)	Iron, water, filtered, µg/L (01046)	1,4-Dichlorobenzene, water, unfiltered, recoverable, µg/L (34571)	Atrazine, water, unfiltered, recoverable, µg/L (39630)	Bromacil, water, unfiltered, recoverable, µg/L (30234)	Camphor, water, unfiltered, recoverable, µg/L (62817)	Carbaryl, water, unfiltered, recoverable, µg/L (39750)	Carbazole, water, unfiltered, recoverable, µg/L (77571)	Chlorpyrifos, water, unfiltered, recoverable, µg/L (38932)
12-14-2011	1131	4	14.4	< .08	< .16	< .16	< .08	< .06	< .020	< .12
12-14-2011	1132	--	--	< .08	< .16	< .16	< .08	< .06	< .020	< .12
12-14-2011	1235	< 2	< 3.2	< .08	.08	< .16	< .08	< .06	< .020	< .12
12-14-2011	1236	< 2	< 3.2	< .08	.07	< .16	< .08	< .06	< .020	< .12
03-21-2012	1305	22	45.2	--	--	--	--	--	--	--
03-21-2012	1306	26	--	--	--	--	--	--	--	--
06-29-2012	1015	< 1	< 3.2	--	--	--	--	--	--	--
09-26-2012	1250	2	< 3.2	--	--	--	--	--	--	--

355603079122501 Local number OR-687 COL-3 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 5 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	DEET, water, unfiltered, recoverable, µg/L (61947)	Diazinon, water, unfiltered, recoverable, µg/L (39570)	Dichlorvos, water, unfiltered, recoverable, µg/L (30218)	Metalaxy, water, unfiltered, recoverable, µg/L (04254)	Metola-chlor, water, unfiltered, recoverable, µg/L (82612)	p-Cresol, water, unfiltered, recoverable, µg/L (77146)	Penta-chlorophenol, water, unfiltered, recoverable, µg/L (39032)	Prometon, water, unfiltered, recoverable, µg/L (39056)	Thiabendazole, water, filtered, recoverable, micrograms per liter (62801)
12-14-2011	1131	0.03	<.32	<.08	<.16	<.04	<.08	<1.6	<.16	<.060
12-14-2011	1132	<.04	<.32	<.08	<.16	<.04	<.08	<1.6	<.16	--
12-14-2011	1235	.04	<.32	<.08	<.16	<.04	<.08	<1.6	<.16	<.060
12-14-2011	1236	.03	<.32	<.08	<.16	<.04	<.08	<1.6	<.16	<.060
03-21-2012	1305	--	--	--	--	--	--	--	--	--
03-21-2012	1306	--	--	--	--	--	--	--	--	--
06-29-2012	1015	--	--	--	--	--	--	--	--	--
09-26-2012	1250	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 6 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	1,7-Dimethylxanthine, water, filtered, recoverable, micrograms per liter (62030)	1-Methyl-naphthalene, water, unfiltered, recoverable, µg/L (81696)	2,6-Dimethyl-naphthalene, water, unfiltered, recoverable, µg/L (62805)	2-Methyl-naphthalene, water, unfiltered, recoverable, µg/L (62805)	3,4-Dichlorophenyl isocyanate, water, unfiltered, recoverable, µg/L (30194)	3-beta-Coprostanol, water, unfiltered, recoverable, µg/L (63145)	3-Methyl-1H-indole, water, unfiltered, recoverable, µg/L (62806)	3-tert-Butyl-4-hydroxy-anisole, water, unfiltered, recoverable, µg/L (62807)	4-Cumylphenol, water, unfiltered, recoverable, µg/L (61702)
12-14-2011	1131	<.100	<.04	<.04	<.04	<.32	<1.6	<.04	<.16	<.04
12-14-2011	1132	--	<.04	<.04	<.04	<.32	<1.6	<.04	<.16	<.04
12-14-2011	1235	<.100	<.04	<.04	<.04	<.32	<1.6	<.04	<.16	<.04
12-14-2011	1236	<.100	<.04	<.04	<.04	<.32	<1.6	<.04	<.16	<.04
03-21-2012	1305	--	--	--	--	--	--	--	--	--
03-21-2012	1306	--	--	--	--	--	--	--	--	--
06-29-2012	1015	--	--	--	--	--	--	--	--	--
09-26-2012	1250	--	--	--	--	--	--	--	--	--

355603079122501 Local number OR-687 COL-3 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 7 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	4-Epichlortetraacycline, water, filtered, recoverable, e, microgram s per liter (63731)	4-Epoxytetracycline, water, filtered, recoverable, e, microgram s per liter (63729)	4-Epitetracycline, water, filtered, recoverable, e, microgram s per liter (63727)	4-Nonylphenol, recoverable, µg/L (62809)	4-Nonylphenol diethoxylate, recoverable, µg/L (62829)	4-Nonylphenol monoethoxylate, recoverable, µg/L (61703)	4-tert-Octylphenol diethoxylate, recoverable, µg/L (61704)	4-tert-Octylphenol monoethoxylate, recoverable, µg/L (62486)	4-tert-Octylphenol, recoverable, µg/L (62485)
12-14-2011	1131	<.010	<.010	<.010	<.02	E.6	<1.6	<1.6	<.2	<.6
12-14-2011	1132	--	--	--	<.02	<1.6	<1.6	<1.6	<.2	<.6
12-14-2011	1235	<.010	<.010	<.010	<.02	E.2	<1.6	<1.6	<.2	<.6
12-14-2011	1236	<.010	<.010	<.010	<.02	E.2	<1.6	<1.6	<.2	<.6
03-21-2012	1305	--	--	--	--	--	--	--	--	--
03-21-2012	1306	--	--	--	--	--	--	--	--	--
06-29-2012	1015	--	--	--	--	--	--	--	--	--
09-26-2012	1250	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 8 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	4-tert-Octylphenol, water, unfiltered, recoverable, µg/L (62810)	5-Methyl-1H-benzotriazole, water, unfiltered, recoverable, µg/L (61944)	9,10-Anthraquinone, water, unfiltered, recoverable, µg/L (62813)	Acetaminophen, water, filtered, recoverable, µg/L (62000)	Acetophenone, water, unfiltered, recoverable, µg/L (62811)	Tetrahydro-naphthalene, water, unfiltered, recoverable, µg/L (62812)	Albuterol, water, filtered, recoverable, µg/L (62020)	Anhydroergosterol, water, filtered, recoverable, µg/L (63674)	Hydrocortisone, water, filtered, recoverable, µg/L (34220)
12-14-2011	1131	<.4	<1.28	<.04	<.120	<.4	<.04	<.080	<.005	<.02
12-14-2011	1132	<.4	<1.28	<.04	--	<.4	<.04	--	--	<.02
12-14-2011	1235	<.4	<1.28	<.04	<.120	<.4	<.04	<.080	<.005	<.02
12-14-2011	1236	<.4	<1.28	<.04	<.120	<.4	<.04	<.080	<.005	<.02
03-21-2012	1305	--	--	--	--	--	--	--	--	--
03-21-2012	1306	--	--	--	--	--	--	--	--	--
06-29-2012	1015	--	--	--	--	--	--	--	--	--
09-26-2012	1250	--	--	--	--	--	--	--	--	--

355603079122501 Local number OR-687 COL-3 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 9 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Azithromyc in, water, filtered, recoverabl e, microgram s per liter (62792)	BDE congener, water, unfiltered, recoverable, µg/L (63147)	Benzo[a]-pyrene, water, unfiltered, recoverable, µg/L (34247)	Benzo-phenone, water, unfiltered, recoverable, µg/L (62814)	beta-Sitos-terol, water, unfiltered, recoverable, µg/L (62815)	beta-Stig-mastanol, water, unfiltered, recoverable, µg/L (61948)	Bis(2-ethylhexyl) phthalate, water, unfiltered, recoverable, µg/L (39100)	Caffeine, water, filtered, recoverable, µg/L (50305)	Caffeine, water, unfiltered, recoverable, µg/L (81436)
12-14-2011	1131	< .005	< .04	< .02	< .08	< 4.8	< 3.4	< 2	< .060	< .08
12-14-2011	1132	--	< .04	< .02	< .08	< 4.8	< 3.4	< 2	--	< .08
12-14-2011	1235	< .005	< .04	< .02	< .08	< 4.8	< 3.4	< 2	< .060	< .08
12-14-2011	1236	< .005	< .04	< .02	< .08	< 4.8	< 3.4	< 2	< .060	< .08
03-21-2012	1305	--	--	--	--	--	--	--	--	--
03-21-2012	1306	--	--	--	--	--	--	--	--	--
06-29-2012	1015	--	--	--	--	--	--	--	--	--
09-26-2012	1250	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 10 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Carbamaze pine, water, filtered, recoverabl e, microgram s per liter (62793)	Chloramph enicol, water, filtered, recoverabl e, microgram s per liter (65194)	Chlortetra cycline, water, filtered, recoverabl e, microgram s per liter (61744)	Choles-terol, water, unfiltered, recoverable, µg/L (62818)	Ciprofloxa cin, water, filtered, recoverabl e, microgram s per liter (62898)	Codeine, water, filtered, recoverabl e, microgram s per liter (62003)	Cotinine, water, filtered, recoverabl e, µg/L (62005)	Cotinine, water, unfiltered, recoverabl e, µg/L (61945)	Dehydronif edipine, water, filtered, recoverabl e, microgram s per liter (62004)
12-14-2011	1131	< .005	< .100	< .010	< 1.6	< .005	< .046	< .038	< .08	< .080
12-14-2011	1132	--	--	--	< 1.6	--	--	--	< .08	--
12-14-2011	1235	< .005	< .100	< .010	< 1.6	< .005	< .046	< .038	< .08	< .080
12-14-2011	1236	< .005	< .100	< .010	< 1.6	< .005	< .046	< .038	< .08	< .080
03-21-2012	1305	--	--	--	--	--	--	--	--	--
03-21-2012	1306	--	--	--	--	--	--	--	--	--
06-29-2012	1015	--	--	--	--	--	--	--	--	--
09-26-2012	1250	--	--	--	--	--	--	--	--	--

355603079122501 Local number OR-687 COL-3 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 11 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Diethyl phthalate, water, unfiltered, recoverable, e, microgram s per liter (34336)	Diltiazem, water, filtered, recoverabl e, microgram s per liter (62008)	Ramime, water, filtered, recoverabl e, microgram s per liter (62796)	Diphenhyd ramine, Limonene, water, unfiltered, recoverabl e, microgram s per liter (62819)	(0.7 micron glass fiber, filter), recoverabl e, microgram s per liter (62694)	Enrofloxac in, water, filtered, recoverabl e, microgram s per liter (66495)	Erythromyc in, water, filtered, recoverabl e, microgram s per liter (62797)	Fluoranthene, water, unfiltered, recoverable, e, microgram s per liter (34376)	Hexahydrohexamethylcyclopentabenzopyran, water, unfiltered, recoverable, e, µg/L (62823)
12-14-2011	1131	< .4	<.060	<.058	<.16	<.010	<.005	<.008	<.02	<.04
12-14-2011	1132	< .4	--	--	<.16	--	--	--	<.02	<.04
12-14-2011	1235	< .4	<.060	<.058	<.16	<.010	<.005	<.008	<.02	<.04
12-14-2011	1236	< .4	<.060	<.058	<.16	<.010	<.005	<.008	<.02	<.04
03-21-2012	1305	--	--	--	--	--	--	--	--	--
03-21-2012	1306	--	--	--	--	--	--	--	--	--
06-29-2012	1015	--	--	--	--	--	--	--	--	--
09-26-2012	1250	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 12 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Ibuprofen, water, filtered, recoverabl e, microgram s per liter (62014)	Indole, water, unfiltered, recoverabl e, microgram s per liter (62824)	Isoborneol, water, unfiltered, recoverabl e, microgram s per liter (62825)	Isochlortet racycline, water, filtered, recoverabl e, microgram s per liter (64175)	Isoepichlorotetracycl ine, water, filtered, recoverabl e, microgram s per liter (64047)	Iso-phorone, water, unfiltered, recoverabl e, microgram s per liter (34408)	Isopropylbenzene, water, unfiltered, recoverable, e, µg/L (77223)	Iso-quinoline, water, unfiltered, recoverable, e, µg/L (62826)	Lincomycin, water, filtered, recoverabl e, microgram s per liter (62894)
12-14-2011	1131	<.050	<.04	<.090	<.010	<.010	<.050	<.04	<.04	<.005
12-14-2011	1132	--	<.04	<.090	--	--	<.050	<.04	<.04	--
12-14-2011	1235	<.050	<.04	<.090	<.010	<.010	<.050	<.04	<.04	<.005
12-14-2011	1236	<.050	<.04	<.090	<.010	<.010	<.050	<.04	<.04	<.005
03-21-2012	1305	--	--	--	--	--	--	--	--	--
03-21-2012	1306	--	--	--	--	--	--	--	--	--
06-29-2012	1015	--	--	--	--	--	--	--	--	--
09-26-2012	1250	--	--	--	--	--	--	--	--	--

355603079122501 Local number OR-687 COL-3 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 13 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Lomefloxacin, water, filtered, recoverable, microgram s per liter (62900)	Menthol, water, unfiltered, recoverable, µg/L (62827)	Methyl salicylate, water, unfiltered, recoverable, µg/L (62828)	Naphthalene, water, unfiltered, recoverable, µg/L (34696)	(0.7 micron glass fiber filter), recoverable, e, microgram s per liter (62757)	Ofloxacin, water, filtered, recoverable, e, microgram s per liter (62899)	Ormetoprim, water, filtered, recoverable, e, microgram s per liter (62962)	Oxytetracycline, water, filtered, recoverable, e, microgram s per liter (61759)	Phenanthrene, water, unfiltered, recoverable, µg/L (34461)
12-14-2011	1131	< .005	< .32	< .08	< .02	< .005	< .005	< .005	< .010	< .02
12-14-2011	1132	--	< .32	< .08	< .02	--	--	--	--	< .02
12-14-2011	1235	< .005	< .32	< .08	< .02	< .005	< .005	< .005	< .010	< .02
12-14-2011	1236	< .005	< .32	< .08	< .02	< .005	< .005	< .005	< .010	< .02
03-21-2012	1305	--	--	--	--	--	--	--	--	--
03-21-2012	1306	--	--	--	--	--	--	--	--	--
06-29-2012	1015	--	--	--	--	--	--	--	--	--
09-26-2012	1250	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 14 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Phenol, water, unfiltered, recoverable, µg/L (34694)	Pyrene, water, unfiltered, recoverable, µg/L (34469)	Roxithromycin, water, filtered, recoverable, e, microgram s per liter (62895)	Sarafloxacin, water, filtered, recoverable, e, microgram s per liter (62771)	(0.7 micron glass fiber filter), recoverable, e, microgram s per liter (62774)	Sulfadiazine, water, filtered, recoverable, e, microgram s per liter (62963)	Sulfachloroxine, water, filtered, recoverable, e, microgram s per liter (62776)	Sulfadimethoxine, water, filtered, recoverable, e, microgram s per liter (61762)	Sulfamethoxazole, water, filtered, recoverable, e, microgram s per liter (62775)
12-14-2011	1131	< .16	< .02	< .005	< .005	< .005	< .005	< .005	< .005	< .005
12-14-2011	1132	< .16	< .02	--	--	--	--	--	--	--
12-14-2011	1235	< .16	< .02	< .005	< .005	< .005	< .005	< .005	< .005	< .005
12-14-2011	1236	< .16	< .02	< .005	< .005	< .005	< .005	< .005	< .005	< .005
03-21-2012	1305	--	--	--	--	--	--	--	--	--
03-21-2012	1306	--	--	--	--	--	--	--	--	--
06-29-2012	1015	--	--	--	--	--	--	--	--	--
09-26-2012	1250	--	--	--	--	--	--	--	--	--

355603079122501 Local number OR-687 COL-3 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 15 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Sulfathiazole, water, filtered (0.7 micron glass fiber filter), recoverable, e, microgram s per liter (62021)	Tetracycline, water, filtered (0.7 micron chloroethene water, unfiltered, recoverable, e, microgram s per liter (62778))	Tribromo-methane, water, filtered (0.7 micron glass fiber filter), recoverable, e, microgram s per liter (34475)	Tributyl phosphate, water, filtered (0.7 micron glass fiber filter), recoverable, e, microgram s per liter (62781)	Triclosan, water, filtered (0.7 micron methane, water, unfiltered, recoverable, e, microgram s per liter (32104))	Triethyl citrate, water, filtered (0.7 micron phosphate, water, unfiltered, recoverable, e, microgram s per liter (62832))	Trimethoprim, water, filtered (0.7 micron phosphate, water, unfiltered, recoverable, e, microgram s per liter (61708))	Trimethoprim, water, filtered (0.7 micron phosphate, water, unfiltered, recoverable, e, microgram s per liter (62833))	
12-14-2011	1131	<.091	<.005	<.16	<.010	<.16	<.064	<.32	<.04	<.005
12-14-2011	1132	--	--	<.16	--	<.16	<.064	<.32	<.04	--
12-14-2011	1235	<.091	<.005	<.16	<.010	<.16	<.064	<.32	<.04	<.005
12-14-2011	1236	<.091	<.005	<.16	<.010	<.16	<.064	<.32	<.04	<.005
03-21-2012	1305	--	--	--	--	--	--	--	--	--
03-21-2012	1306	--	--	--	--	--	--	--	--	--
06-29-2012	1015	--	--	--	--	--	--	--	--	--
09-26-2012	1250	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 16 of 16

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Tris(2-butoxyethyl) phosphate, water, unfiltered, recoverable, e, µg/L (62834)	Tris(2-chloroethyl) phosphate, water, unfiltered, recoverable, e, µg/L (62830)	Tris(di-chloroisopropyl) phosphate, water, unfiltered, recoverable, e, µg/L (62831)	Tylosin, water, filtered, recoverable, e, µg/L (61707)	Virginiamycin, water, filtered, recoverable, e, µg/L (62896)	Warfarin, water, filtered, recoverable, e, µg/L (62897)	Warfarin, water, filtered, recoverable, e, µg/L (62024)
12-14-2011	1131	<.08	<.64	<.16	<.32	<.010	<.005	<.080
12-14-2011	1132	<.08	<.64	<.16	<.32	--	--	--
12-14-2011	1235	<.08	<.64	<.16	<.32	<.010	<.005	<.080
12-14-2011	1236	<.08	<.64	<.16	<.32	<.010	<.005	<.080
03-21-2012	1305	--	--	--	--	--	--	--
03-21-2012	1306	--	--	--	--	--	--	--
06-29-2012	1015	--	--	--	--	--	--	--
09-26-2012	1250	--	--	--	--	--	--	--