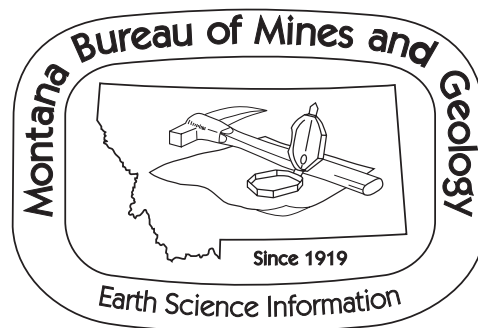


Montana Bureau of Mines and Geology

Open-file Report

Basic Data
Ground-Water Evaluation
Florence, Montana

MBMG 397



Basic Data
Ground-Water Evaluation
Florence, Montana

by

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Sponsored by the Ravalli County Water & Sewer District

Funded by the Montana Department of Natural Resources and Conservation
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I. INTRODUCTION

This document containing water quality data, water well logs and information on septic tanks within the study area is a companion document to: Ground-Water Evaluation, Florence, Montana, MBMG RI ____ (Norbeck and McDonald, 1999). Data presented in Appendices A-F provide the basis for the interpretations presented in the evaluation.

A. Acknowledgments

This study was funded under the Renewable Resource Grant and Loan Program administered by the Montana Department of Natural Resources and Conservation. The Florence County Water and Sewer District and Judy Sass of the Midwest Assistance Program provided valuable support and assistance throughout the project.

B. Location

The community of Florence is located on the west side of the Bitterroot Valley in Ravalli County in western Montana (figure 1). Situated about 30 miles north of the county seat, Hamilton, and 20 miles south of Missoula, the community within the original townsite (parts of sec. 11 and 14, T.16N., R.20W.) has a population of approximately 250 residents (Sass, 1998). Many residents are retired and many more commute to Missoula for work. The project area extends beyond the original townsite and includes sections 2, 3, 10, 11, 14, and 15, T. 10 N., R. 20 W.

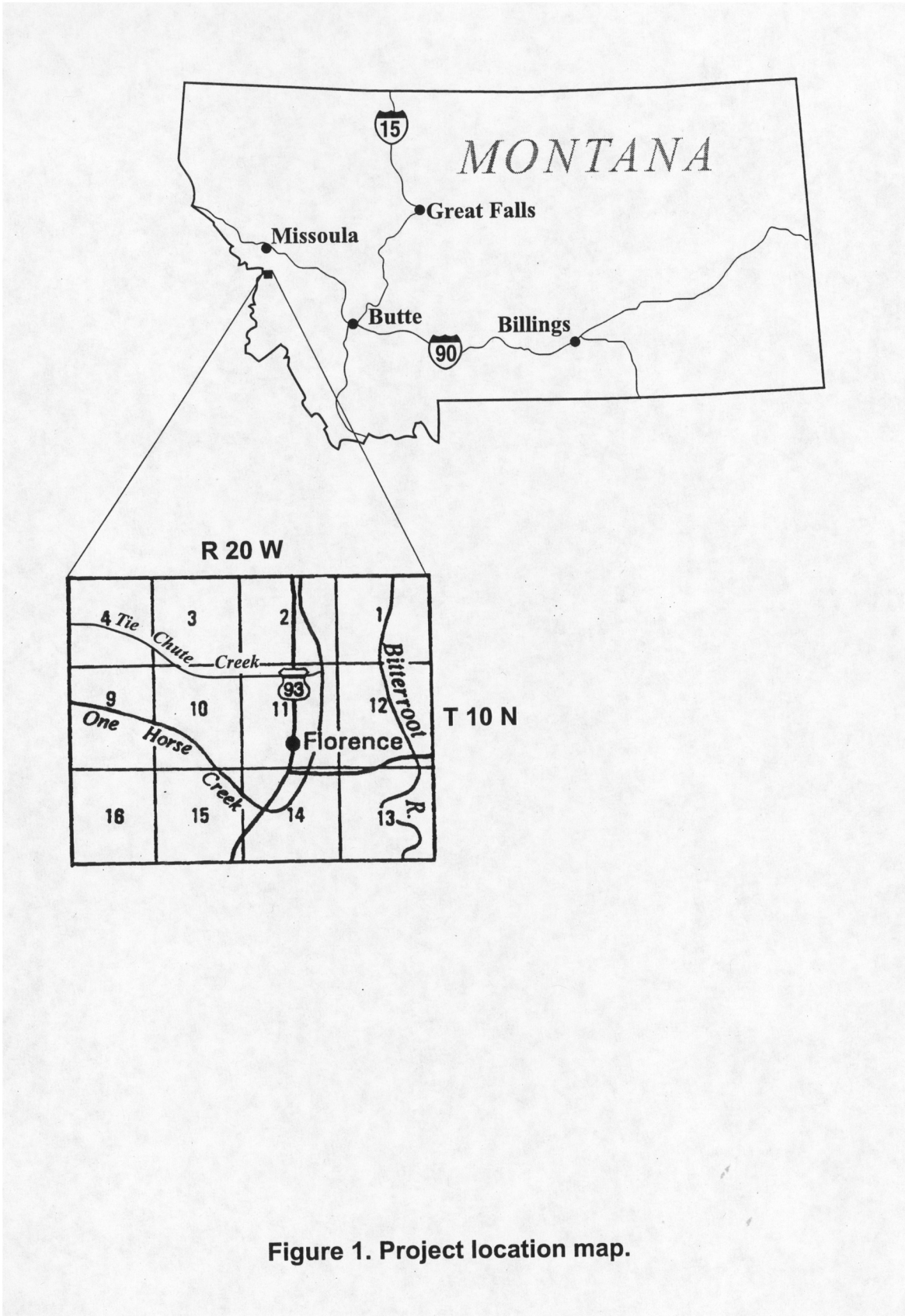


Figure 1. Project location map.

II. DATA REVIEW AND INVESTIGATION METHODS

Sediments underlying Florence are potential conduits for migration of contaminants to ground and surface water. For this study, existing data as well as newly collected data were used for ground-water characterization.

Existing reports on the geology and hydrology of the Florence area were reviewed for information pertinent to this study. Driller's logs for water wells in the study area were copied for field use during the inventory phase. U.S. Geological Survey topographic maps and plat maps from Ravalli County were used for accurate plotting of locations. Ground- and surface-water data (location, source, water levels, water quality and lithology) in the Ground-Water Information Center (GWIC) database were accessed and are included in [Appendices A-E](#).

Seepage measurements were made at 2 locations on Tie Chute Creek and 3 locations on One Horse Creek (locations shown on [plate 1](#)). The standard seepage measurement device consists of the end of a steel drum with a bladder connected to a hole in the top. The drum was set into the bottom of the stream, sealed, a bladder (polypropylene bag) containing a known amount of distilled water was connected to the device, and after 24 hours, the change in the volume of water in the bladder was measured. Ground-water recharge from surface water or discharge to surface water was estimated by computing the flow rate per unit area from the change in the volume of water in the bladder, elapsed time, and area covered by the drum. Stream flows were measured at the time the seepage measurements were conducted. Surface-water data are found in [Appendix A: Surface-water inventory data](#) and [Appendix B: Surface-water quality data](#).

Wells, springs, septic tanks and related facilities in the study area were inventoried. Ground-water inventory data are found in [Appendix C: Ground-water inventory data](#). Sites were visited and located on field maps, and pertinent data including a site sketch were recorded on inventory forms. The site sketch included the location of wells, septic tanks, drain fields, and buildings. Static water levels were measured in wells using either a steel tape or an electronic sounder. Sounding equipment was decontaminated using distilled water, soap, and chlorine to prevent the spread of iron bacteria or other contaminants. Pumping rates were measured using a bucket and stop watch, and pumping levels were measured periodically during pumping. To ensure that water samples were representative of the formation, samples were collected after the field parameters (temperature, pH, and specific conductance) stabilized or after three well bore volumes had been pumped from the well. Field parameters were considered stable when consecutive readings at 5 minute intervals did not vary by more than 10%. Instruments for the measurement of pH and S.C. were calibrated daily according to the manufacturer's recommendations.

During this study, 57 ground-water samples were collected from 54 wells. Analytical data are contained in [Appendix D: Ground-water quality data](#). Samples were collected from 36 domestic wells, 5 domestic/commercial wells, 4 public supply wells, 3 domestic/stock wells, 2 commercial wells, 1 fire protection well, 1 irrigation well, 1 well used for a medical facility, and 1 unused well. Analytical data for an additional 6 samples collected from 4 wells between 1980 and 1994 also are included.

Water usage was estimated from published data on typical household consumption (Fetter, 1980). If no well log could be found in the Montana Bureau of Mines and Geology (MBMG) files, the owner was asked for information on the total depth, lithology, casing, perforations, drilling date and other information normally found on the log. Water-level information from the inventory was used to prepare the final water-level map. Data gathered during the inventory phase was entered into the GWIC data base. [Appendix E](#) contains drillers logs of water wells.

Septic-tank and drain-field sizes were recorded on field forms. Field forms included site location, owner, the number of people in the household(s) served by the septic system, a site sketch showing the location of the septic tank and drain field relative to property boundaries, buildings, etc. Locations of septic systems also were posted on location maps. Septic system information is found in [Appendix F](#).

At the end of the first field season, the data collected to that date were reviewed, and wells were selected for sampling. Several wells were selected up-gradient (west) of town, a few were north and south of town, and the remaining wells were in town.

Whenever possible discharge rates and pumping levels were measured during sampling so that aquifer properties could be calculated. These short tests were usually not of sufficient duration to permit identification of aquifer boundaries, but they do provide estimates of aquifer properties in the immediate vicinities of the well bores. Water-level maps were drawn from water levels measured during the inventory and were used to determine ground-water flow directions and recharge/discharge relationships within the study area.

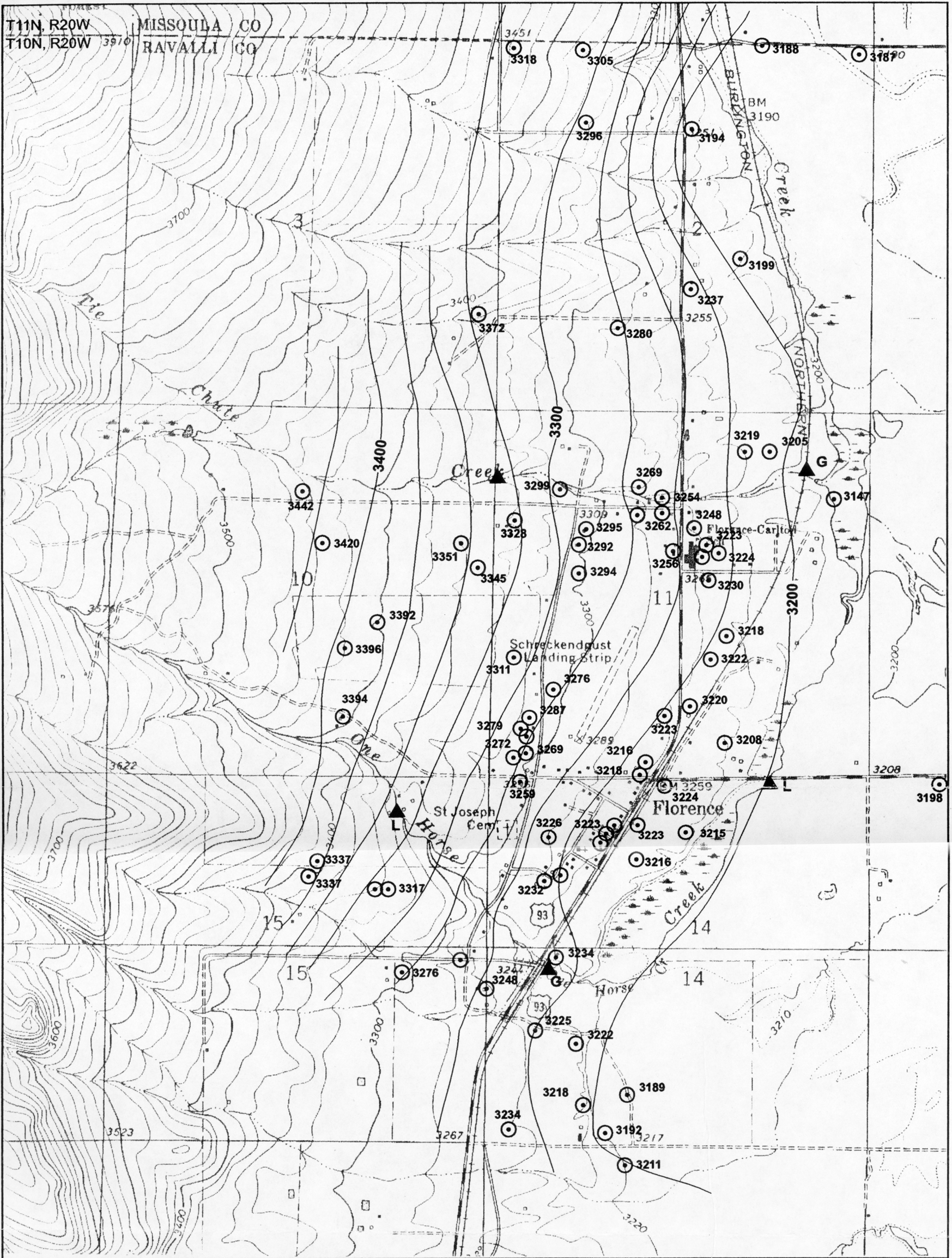
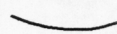


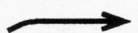
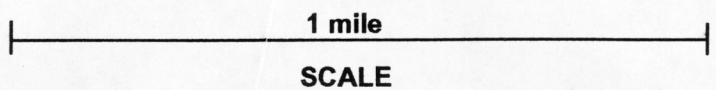


Plate 1. Ground-water levels, Florence

-  Water-level contour; interval is 25 feet
-  Well with water-level elevation
-  Seepage measurement site
G -denotes gaining stream
L -denotes losing stream
-  Ground-water flow direction



Base from USGS 7.5' Florence and Stevensville topographic maps

Appendix A

Surface-water inventory data

Florence-area surface-water inventory data

NAME	LOCATION	DATE INVENTORIED	SURF ELEV (ft)	FLOW (cfs)	SAMPLE TAKEN	SAMPLE DATE	MEMG QW #	MEMG SITE #
TIE CHUTE CREEK	10N 20W 11 BBCBC	22-Aug-97	3350	17.	Y	22-Aug-97	98Q0208	
TIE CHUTE CREEK	10N 20W 11 BBCBC	17-Oct-97	3350	62.	N			
TIE CHUTE CREEK	10N 20W 11 AAABC	6-Oct-97	3211	.1	Y	6-Oct-97	98Q0462	M:163270
ONE HORSE CREEK	10N 20W 15 AABCB	22-Aug-97	3329	26.	Y	22-Aug-97	98Q0210	
ONE HORSE CREEK	10N 20W 14 ABAAA 01	6-Oct-97	3209	.62	Y	6-Oct-97	98Q0463	M:163271
ONE HORSE CREEK	10N 20W 14 CBABB	21-Aug-97	3238	310.	Y	21-Aug-97	98Q0209	

Appendix B

Surface-water quality data

Florence-area surface-water parameters

SITE NAME	LOCATION	MBMG QW #	SAMPLE DATE	TDS CALC'D (mg/L)	TDS SUM OF DIS CONST (mg/L)	FIELD SC ($\mu\text{mho/cm}$)	LAB SC ($\mu\text{mho/cm}$)	FIELD pH	LAB pH	HRDNS AS CaCO ₃ (mg/L)	ALK AS CaCO ₃ (mg/L)	RYZNAR STAB IND	LANGELIER SAT IND	SAR	AIR TEMP (deg C)	WATER TEMP (deg C)
TIE CHUTE CREEK	10N 20W 11 BBCBC	98Q0462	22-Aug-97	35	45	46	45	6.9	6.7	15	17	12.4	-2.9	0.2	18	14.0
TIE CHUTE CREEK	10N 20W 11 AAABC	98Q0208	6-Oct-97	37	50	56	61	7.1	7.3	11	21	12.1	-2.4	0.3	11	10.5
ONE HORSE CREEK	10N 20W 15 AABCB	98Q0210	22-Aug-97	65	91	98	88	6.6	7.0	38	42	10.6	-1.8	0.2	15	13.0
ONE HORSE CREEK	10N 20W 14 ABAAA 01	98Q0463	6-Oct-97	40	56	68	59	6.8	7.6	16	26	11.2	-1.8	0.3	12	10.0
ONE HORSE CREEK	10N 20W 14 CBABB	98Q0209	21-Aug-97	44	59	77	67	6.5	6.9	26	25	11.5	-2.3	0.2	28	20.0

Florence-area surface-water major ions

SITE NAME	LOCATION	SAMPLE DATE	SAMPLE SOURCE	MBMG QW #	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	Fe (mg/L)	Mn (mg/L)	SiO2 (mg/L)	HCO3 (mg/L)	CO3 (mg/L)	Cl (mg/L)	SO4 (mg/L)	NO3 (mg/L)	F (mg/L)	PO4 (mg/L)
TIE CHUTE CREEK	10N 20W 11 BBCBC	22-Aug-97	STREAM	98Q0208	4.4	1.0	2.1	0.8	0.1	0.0	13.2	21		<.5	2.6	<.25		<.05
TIE CHUTE CREEK	10N 20W 11 AAABC	6-Oct-97	STREAM	98Q0462	3.3	0.7	2.5	0.9	0.1	0.0	12.3	26		0.7	4.2	<.25	<.05	<.05
ONE HORSE CREEK	10N 20W 15 AABCB	22-Aug-97	STREAM	98Q0210	11.3	2.3	3.2	1.2	0.1	0.2	21.3	51		0.5	<2.5	<.25		<.05
ONE HORSE CREEK	10N 20W 14 ABAAA 01	6-Oct-97	STREAM	98Q0463	4.7	1.1	2.6	1.2	0.0	0.0	9.1	32		1.3	4.3	<.25	<.05	<.05
ONE HORSE CREEK	10N 20W 14 CBABB	21-Aug-97	STREAM	98Q0209	7.3	1.9	2.6	1.2	0.1	0.0	11.2	31		1.2	3.1	<.25		<.05

Florence-area surface-water trace elements

SITE NAME	LOCATION	SAMPLE SOURC	SAMPLE DATE	MBMG QW #	Al (µg/L)	Sb (µg/L)	As (µg/L)	Ba (µg/L)	Be (µg/L)	B (µg/L)	Br (µg/L)	Cd (µg/L)	Cr (µg/L)	Co (µg/L)	Cu (µg/L)	Pb (µg/L)	Li (µg/L)	Mo (µg/L)	Ni (µg/L)	P tot dis (mg/L)	Se (µg/L)	Ag (µg/L)	Sr (µg/L)	Ti (µg/L)	Va (µg/L)	Zn (µg/L)	Zr (µg/L)
TIE CHUTE CREEK	10N 20W 11 BBCBC	STREAM	22-Aug-97	98Q0208	<30	<3	<2	12.4	<2	<30	<25	<2	<2	<2	<2	<2	18	<10	2.5	<2	<1	<2	54.	19	<5	<2	<20
TIE CHUTE CREEK	10N 20W 11 AAABC	STREAM	6-Oct-97	98Q0462	<30	<2	<1	9.7	<2	<30	<25	<2	<2	<2	<2	<2	<2	<10	<2	<1	<1	<1	30.4	<10	<5	6.5	<5
ONE HORSE CREEK	10N 20W 15 AABCB	STREAM	22-Aug-97	98Q0210	<30	<3	<2	27.1	<2	<30	<25	<2	<2	<2	<2	<2	<6	<10	2.7	<2	<1	<2	89.	<10	<5	<2	<20
ONE HORSE CREEK	10N 20W 14 ABAAA	STREAM	6-Oct-97	98Q0463	19.8	<2	<1	11.2	<2	<30	<25	<2	<2	<2	<2	12.7	<2	<10	<1	<1	<1	<1	43.9	<10	<5	4.8	<5
ONE HORSE CREEK	10N 20W 14 CBABB	STREAM	21-Aug-97	98Q0209	<30	<3	<2	18.6	<2	<30	<25	<2	<2	<2	<2	<2	<6	<10	2.4	<2	<1	<2	65.	<10	<5	<2	<20

Appendix C

Ground-water inventory data

Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 02 01		15-Jun-78				55.		6	45.	28.		60.	DOMESTIC	N		M:63906
10N 20W 02 01		20-Aug-79				65.		6	48.	42.		40.	DOMESTIC	N		M:63907
10N 20W 02 01		16-Jun-83				39.		6	36.	8.		20.	DOMESTIC	N		M:63908
10N 20W 02 01		28-Jan-94				57.		6	25.	35.		30.	DOMESTIC	N		M:63909
10N 20W 02 01		19-Jul-84				39.		6	30.	13.		50.	IRRIGATION	N		M:63910
10N 20W 02 01		1-Oct-91				208.		6	201.	45.		10.	DOMESTIC	N		M:63913
10N 20W 02 01		10-May-87				38.		6	30.	8.		50.	DOMESTIC	N		M:63912
10N 20W 02 01		10-May-94				146.		6	120.	25.		6.	DOMESTIC	Y		M:143090
10N 20W 02 A 01		9-Nov-94		110ALVM		40.5		6	12.	8.		60.	DOMESTIC	N		M:146101
10N 20W 02 A 01		20-Apr-74		110ALVM		44.		6	25.	5.		20.	DOMESTIC	N		M:63914
10N 20W 02 A 01		8-Aug-75		110ALVM		47.		6	25.	7.		26.	DOMESTIC	N		M:63915
10N 20W 02 A 01		23-Jun-88		110ALVM		38.		6		6.		50.	IRRIGATION	Y		M:63917
10N 20W 02 A 01		30-Oct-79				70.		6	60.	50.		15.	UNKNOWN	Y		M:63916
10N 20W 02 AA 01		23-May-95		110ALVM		60.		6	20.	6.		45.	DOMESTIC	N		M:63918
10N 20W 02 AA 01		28-Jul-78		110ALVM		59.		6	25.	6.		50.	DOMESTIC	N		M:63919
10N 20W 02 AA 01		2-Sep-72		110ALVM		39.		6	30.	6.		45.	DOMESTIC	N		M:63920
10N 20W 02 AAA 01		18-Jun-75		110ALVM	3190	54R	3136R	6R	27R	7R	3183R	75R	DOMESTIC	Y		M:63922
10N 20W 02 AAAABD	11-Jun-96	3-Sep-88	Y	110ALVM	3190	36.	3154	6	6.1	3.02	3187.	12.	DOMESTIC	Y		M:63921
10N 20W 02 AB 01		6-Sep-95		120SDMS		317.		6		65.		8.	DOMESTIC	N		M:152116
10N 20W 02 AB 01		10-Apr-91		110ALVM		67.		6	60.	41.		20.	DOMESTIC	Y		M:123156
10N 20W 02 ABAABA	11-Jun-96	1991	Y	110ALVM	3192	39.	3153	6	6.4	4.09	3187.9	6.	DOM/IRR	N		
10N 20W 02 AC 01		5-Sep-91				64.		6	53.	25.		30.	DOMESTIC	Y		M:124587
10N 20W 02 AC 01		28-Jun-71				76.		6	71.	34.		20.	DOMESTIC	Y		M:63924
10N 20W 02 AC 01		1-Jan-30				66.		3				20.	DOMESTIC	Y		M:63925
10N 20W 02 ACB 01		2-Nov-94			3255	76.	3179	6	70.	52.	3203.	20.	DOMESTIC	Y		M:145864
10N 20W 02 ADD 01		22-Apr-96		110ALVM	3190	50.	3140	6	40.	3.	3187.	100.	DOMESTIC	N		M:156439
10N 20W 02 B 01		2-Apr-86		120SDMS		99.		6	98.	39.		12.	DOMESTIC	N		M:63926
10N 20W 02 BA 01		26-Jul-94		120SDMS		260.		6		85.		15.	DOMESTIC	Y		M:143719
10N 20W 02 BADDAD	10-Jun-96	26-Jul-89	Y	120SDMS	3240	72.	3168	6	51.	45.59	3194.4	10.	DOMESTIC	N		M:63923
10N 20W 02 BB 01		31-May-96		120SDMS		230.		6	225.	138.		5.5	DOMESTIC	Y		M:155811

R = reported value

Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 02 BBAABA	10-Jun-96	28-Sep-92	Y	120SDMS	3345	104.	3241	6	95R	39.55	3305.5	6.7	LAWN, GARD	N		M:130944
10N 20W 02 BBBBBB	11-Jun-96		Y	120SDMS	3440	45.	3395	6		22.13	3417.9		DOMESTIC	N		
10N 20W 02 BBD 01		4-Aug-95		120SDMS	3380	383.	2997	6	370.	120.	3260.	8.	DOMESTIC	N		M:152117
10N 20W 02 BBDDBA	11-Jun-96	8-Sep-81	Y	120SDMS	3345	65.	3280	6	66R	48.87	3296.1	10R	DOMESTIC	N		M:63911
10N 20W 02 BD 01		2-Mar-72		120SDMS		54.		6	40.	31.		35.	DOMESTIC	Y		M:63927
10N 20W 02 BD 01		1-Jan-54		120SDMS		40.		4		15.		30.	DOMESTIC	N		M:63928
10N 20W 02 BD 01		1-Jan-09		120SDMS		15.		30		3.		30.	STOCKWATER	N		M:63929
10N 20W 02 BDB 01		15-Oct-73		120SDMS	3300	72.	3228	6	65.	42.	3258.	15.	DOMESTIC	N		M:63930
10N 20W 02 BDD 01		19-Oct-95		120SDMS	3260	56.	3204	6	50.	31.	3229.	20.	DOMESTIC	Y		M:153643
10N 20W 02 BDD 01		20-Sep-93		120SDMS	3260	49.	3211	6	44.	24.	3236.	30.	DOMESTIC	Y		M:138451
10N 20W 02 C 01		5-Jun-67		120SDMS		69.		6	65.	41.		50.	DOMESTIC	N		M:63931
10N 20W 02 CD 01		9-Sep-76		120SDMS	3370	72.4R	3298R	6R	70R	27R	3343R	5R	DOMESTIC	Y		M:63932
10N 20W 02 CDB 01		17-Oct-94		120SDMS	3300	63.	3237	6	55.	23.	3277.	20.	DOMESTIC	Y		M:145865
10N 20W 02 CDBABC	11-Jun-96	6-Oct-77		120SDMS	3280	130R	3150R	6R	40R	30R	3250R	30R	DOMESTIC	N		M:63933
10N 20W 02 CDBABC	29-Mar-98	6-Oct-77	N	120SDMS	3280	130.	3150	6	40R	30R	3250R	5.	DOMESTIC	N	29-Mar-98	M:63933
10N 20W 02 DB 01		1-Jan-30		120SDMS		65.		3				20.	DOMESTIC	Y		M:63934
10N 20W 02 DBACBD	12-Jun-96	1993?	Y	120SDMS	3220	64R	3156	6	24.2	20.87	3199.1	10.	DOMESTIC	N		M:124587
10N 20W 02 DBACBD	30-Mar-98	1993?	Y	120SDMS	3220	64R	3156	6					DOMESTIC	Y	30/03/98	M:124587
10N 20W 02 DBCBCA	11-Jun-96		Y		3250	37.	3213	36		13.43	3236.6		DOMESTIC	N		
10N 20W 02 DD 01		13-Nov-81				60.		6	50.	25.		10.	DOMESTIC	N		M:63935
10N 20W 03 01		1-Jun-90				72.		6		60.		6.	DOMESTIC	Y		M:120450
10N 20W 03 01		17-Oct-80				144.		6	140.	62.		6.	UNKNOWN	N		M:63937
10N 20W 03 01		26-Mar-81				82.		6	80.	30.		8.	UNKNOWN	N		M:63936
10N 20W 03 ADA 01		14-Oct-74		120SDMS		222.8		6	126.	-4.62		30.	DOMESTIC	N		M:63938
10N 20W 03 BA 01		17-Apr-72		120SDMS		190.		6	177.	35.		5.	DOMESTIC	N		M:63940
10N 20W 03 BA 01		20-Apr-72		120SDMS		77.		6	72.	1.		3.	DOMESTIC	Y		M:63939
10N 20W 03 BAA 01		27-Jul-78		120SDMS		228.		6	223.	53.		1.	DOMESTIC	N		M:63941
10N 20W 03 BAB 01		12-May-77		120SDMS		200.		6					ABANDONED	Y		M:63942
10N 20W 03 BAB 01		19-May-77		120SDMS		140.		6		51.		2.	DOMESTIC	N		M:63943
10N 20W 03 BB 01		7-Sep-88		120SDMS/211PLNC		200.		6	195.	50.		1.	DOMESTIC	N		M:63944

R = reported value

Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 03 BBB 01		14-Jun-78		211PLNC		165.		6					ABANDONED	N		M:63945
10N 20W 03 BCC 01		16-Dec-74		211PLNC		84.		6	78.	49.		10.	DOMESTIC	Y		M:63946
10N 20W 03 BCD 01		20-Dec-78		211PLNC		80.		6	79.	46.		5.	DOMESTIC	N		M:63947
10N 20W 03 BD 01		5-Jun-86		120SDMS		280.		6	162.	150.		10.	DOMESTIC	N		M:63948
10N 20W 03 CD 01		22-Aug-93		211PLNC		200.		6		50.		2.	DOMESTIC	Y		M:137481
10N 20W 03 D 01		20-May-88				72.		6	65.			20.	DOMESTIC	Y		M:63949
10N 20W 03 DADDCC	9-Jan-97	12-Jan-82	Y	120SDMS	3370	94R	3276R	6	FLOW			2.5-3	DOMESTIC	N		M:63950
10N 20W 03 DADDCC	29-Mar-98	12-Jan-82	Y	120SDMS	3370	94R	3276R	6	FLOW	3.47	3366.5	4.	DOMESTIC	N	29-Mar-98	M:63950
10N 20W 03 DC 01		9-May-88		120SDMS		100.		6	90.	2.		2.	ABANDONED	N		M:63951
10N 20W 10 01		13-Oct-74				65.		4	30.	11.		20.	DOMESTIC	Y		M:135567
10N 20W 10 01		8-Nov-82				28.		6		.8		15.	DOMESTIC	N		M:136546
10N 20W 10 01		23-Dec-77				51.		6	28.	12.		15.	DOMESTIC	N		M:63972
10N 20W 10 01		14-May-83				190.		6	180.	50.		1.	UNKNOWN	N		M:63974
10N 20W 10 01		11-Jul-79				35.		6	25.	15.		20.	DOMESTIC	N		M:63975
10N 20W 10 01		23-Sep-80				23.		6	170.	60.		1.	ABANDONED	N		M:63973
10N 20W 10 A 01		20-Dec-91				178.		6	160.	85.		20.	DOMESTIC	Y		M:126891
10N 20W 10 A 01		17-Jun-83				58.		6	26.	14.		15.	DOMESTIC	Y		M:63979
10N 20W 10 A 01		17-Sep-84				55.		6	19.	10.		25.	DOMESTIC	Y		M:63980
10N 20W 10 AA 01		1-Jul-92		110ALVM		39.		6	30.	9.		30.	DOMESTIC	N		M:128931
10N 20W 10 AA 01		31-Aug-93		110ALVM		38.		6	25.	9.		10.	DOMESTIC	N		M:136381
10N 20W 10 AADDBC	21-Aug-97		Y	120SDMS	3359	46.2	3313	6	19.6	8.6	3350.4	7.	DOMESTIC	N	21-Aug-97	M:162429
10N 20W 10 AB 01		26-Sep-94		110ALVM		33.		6		12.		7.	DOMESTIC	Y		M:145866
10N 20W 10 ABD 01		12-Sep-95		110ALVM	3400	29.	3371	6	25.	10.	3390.	20.	DOMESTIC	N		M:152118
10N 20W 10 ACBCC	18-Dec-96	16-Oct-77	Y	110ALVM	3435	36.	3399	6	25R	15.33	3419.7	32-33	DOMESTIC	Y		M:63981
10N 20W 10 ACC 01		29-Jul-96		120SDMS	3420	138.	3282	6	130.	26.	3994.	15.	DOMESTIC	N		M:157453
10N 20W 10 AD 01		12-Mar-95		110ALVM		34.		6	29.	9.		35.	DOMESTIC	Y		M:147579
10N 20W 10 AD 01		4-Apr-92		110ALVM		51.		6	45.	12.		20.	DOMESTIC	Y		M:123152
10N 20W 10 ADA 01		17-Oct-95		120SDMS		200.		6	195.	70.		4.	DOMESTIC	N		M:154058
10N 20W 10 ADABB	9-Jan-97	12-Jul-77		120SDMS	3350	42.9	3307	6		3.5	3346.5	15R	DOMESTIC	N		M:64043
10N 20W 10 ADACCA	19-Dec-96	18-Nov-92	Y	120SDMS	3360	50.	3310	6	33R	8.86	3351.1	13.	DOMESTIC	Y		M:132280

R = reported value

Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USF	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 10 ADACCA	24-Jul-97	18-Nov-92	Y	120SDMS	3360	50.	3310	6	33R			9.1	DOMESTIC	N	24-Jul-97	M:132280
10N 20W 10 ADCB	8-Jan-97			120SDMS	3400			6		7.99	3392.		UNKNOWN	Y		
10N 20W 10 ADCB	30-Mar-98		Y	120SDMS	3385	40.	3345	6		8.97	3376.	6.	DOMESTIC	N	30-Mar-98	M:123152
10N 20W 10 ADCC	30-Mar-98		Y	120SDMS	3380	127R	3253	6		26.98	3353.	8.	DOMESTIC	Y	16-Apr-98	M:157453
10N 20W 10 ADDACA	19-Dec-96		Y		3355			6		9.85	3345.2	26.	DOMESTIC	N		
10N 20W 10 B 01		3-Aug-85				25.		6	20.	9.		20.	DOMESTIC	Y		M:63976
10N 20W 10 B 01		1-Sep-86				28.		6	25.	7.		20.	DOMESTIC	Y		M:63978
10N 20W 10 BAA 01		18-Jun-93		211PLNC		330.		6	310.	85.		1.5	DOMESTIC	Y		M:136268
10N 20W 10 BAB 01		9-Aug-77		110ALVM		37.		6	25.	9.		30.	DOMESTIC	Y		M:63982
10N 20W 10 BADDD 0	18-Dec-96		Y	120SDMS	3450	30.	3420	6	30R	8.27	3441.7	25.	DOM/STK	Y		M:139841
10N 20W 10 BADDD 0	31-Mar-98		Y	120SDMS	3450	30.	3420	6	30R	9.64	3440.4	5.	DOM/STK	N	31-Mar-98	M:139841
10N 20W 10 BBDB 0	30-Mar-98		Y	120SDMS	3520	26.	3494	6		11.41	3508.6	5.	DOMESTIC	Y	30-Mar-98	M:63977
10N 20W 10 BCCC 01		7-Aug-77		110ALVM	3575	55R	3520R	6R	50R	18R	3557R	20R	DOMESTIC	N		M:63983
10N 20W 10 BD 01		15-Mar-95		110ALVM		35.		6	23.	13.		28.	DOMESTIC	Y		M:149650
10N 20W 10 BDCA 01		8-Dec-75		120SDMS	3480	100R	3380R	6R	60R	15R	3465R	10R	DOMESTIC	Y		M:63986
10N 20W 10 BDCC 01		2-Jan-76		110ALVM	3495	31R	3464R	6R	26R	15R	3480R	20R	DOMESTIC	N		M:63984
10N 20W 10 BDDA 01		21-Sep-77		120SDMS	3470	193R	3277R	6R	190R	41R	3429R	20R	DOMESTIC	Y	23-Jun-80	M:5808
10N 20W 10 C 01		1-Jul-86				50.		6	27.	15.		10.	DOMESTIC	N		M:63987
10N 20W 10 CAAC 01		1-Oct-58			3470	18.	3452			16.	3454.	15.	DOMESTIC	Y		M:63989
10N 20W 10 CACC 01	28-Mar-98	30-Jun-86	Y	120SDMS	3541	50.	3491	6	22R	13.87	3527.1	3.	DOMESTIC	N	28-Mar-98	M:63988
10N 20W 10 CACC 01	10-Mar-94	30-Jun-86		120SDMS	3541	50R	3491R	6R	22R	10R	3531R	25R	DOMESTIC	N	10-Mar-94	M:63988
10N 20W 10 CBCA 01		18-Jan-79		120SDMS	3530	150R	3380R	6R	155R	20R	3510R	1R	DOMESTIC	Y		M:63990
10N 20W 10 CC 01		22-Jun-77		110ALVM		43.		6	15.	9.		20.	DOMESTIC	N		M:63991
10N 20W 10 DBCAA	8-Jan-97			120SDMS	3420	127R	3293R	6		24.1	3395.9		UNKNOWN	Y		
10N 20W 10 DC 01		7-Sep-94		120SDMS		118.5		6	60.	26.		7.	DOMESTIC	Y		M:143720
10N 20W 10 DC 01		26-Aug-94		110ALVM		39.		6					ABANDONED	Y		M:143721
10N 20W 10 DC 01		22-Aug-94		120SDMS		98.5		6					ABANDONED	Y		M:143722
10N 20W 10 DC 01		10-May-95		120SDMS		118.5		6	21.	20.		12.	DOMESTIC	Y		M:149651
10N 20W 10 DC 01		26-Aug-94		110ALVM		39.		6					ABANDONED	N		M:151089
10N 20W 10 DC 01		30-Jul-95		120SDMS		98.5		6					ABANDONED	Y		M:151092

R = reported value

Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 10 DC 01		20-Jul-95		110ALVM	38.8			6					ABANDONED	N		M:151093
10N 20W 10 DC 01		27-Nov-95		110ALVM	44.			6	42.	26.5		8.	DOMESTIC	N		M:154060
10N 20W 10 DC 01		20-Jan-79		110ALVM	29.			6	26.	10.		5.	DOMESTIC	N		M:63992
10N 20W 10 DC 01		23-Aug-94		110ALVM	38.8			6					ABANDONED	Y		M:143723
10N 20W 10 DCA 01		18-Jun-91		110ALVM	44.			6	30.	13.		30.	DOMESTIC	N		M:123159
10N 20W 10 DCAA	2-May-98		Y	120SDMS	112.					38.3		8.	DOMESTIC	N	2-May-98	M:166832
10N 20W 10 DCAACB01		24-Mar-80		120SDMS/211PLNC	3400	115R	3285R	6R	110R	61R	3339R	15R	DOMESTIC	Y		M:136362
10N 20W 10 DCB 01		15-Sep-61			3400	17R	3383R	6R	13R	10R	3390R	8R	DOMESTIC	N		M:63993
10N 20W 10 DCBD 01		14-Sep-61		211PLNC	3405	112R	3293R						ABANDONED	N		M:63994
10N 20W 10 DCBD 01		11-Nov-67		110ALVM	3400	21R	3379R	6R	16R	6R	3394R	15R	DOMESTIC	N		M:63996
10N 20W 10 DCBDB	18-Dec-96		Y	120SDMS	3405	17.	3388			11.1	3393.9	5.6	DOM/STK	N		M:161808
10N 20W 10 DCBDB	24-Jul-97		Y	120SDMS	3405	17.	3388			6.		15.	DOM/STK	Y	24-Jul-97	M:161808
10N 20W 10 DCC 01		9-Nov-67		110ALVM	16.			6	11.			5-6R	DOMESTIC	N		M:63995
10N 20W 10 DCCDA	20-Aug-96	1976-81	Y		3342	25.	3317	6		11.55	3330.5	10.	DOMESTIC	Y		
10N 20W 11 01		22-May-91		120SDMS	120.			6	85.	65.		10.	DOMESTIC	N		M:123568
10N 20W 11 01		27-Sep-78		120SDMS	60.			6	40.	30.		15.	DOMESTIC	Y		M:63997
10N 20W 11 01		1-Jan-17		120SDMS	55.					50.		100.	DOMESTIC	N		M:63998
10N 20W 11 01		28-Feb-77		120SDMS	69.			6	64.	47.		10.	DOMESTIC	N		M:64001
10N 20W 11 01		1-Jan-00											DOMESTIC	N		M:64003
10N 20W 11 01		26-Apr-82		120SDMS	72.			6	67.	52.		20.	DOMESTIC			M:64004
10N 20W 11 01		11-Jul-83		120SDMS	39.			6	37.	19.		20.	STOCKWATER			M:64006
10N 20W 11 01		4-Apr-85		120SDMS	60.			6	46.	34.		7.	DOMESTIC			M:64007
10N 20W 11 01		5-Apr-83		120SDMS	58.			6	45.	35.		10.	DOMESTIC			M:64008
10N 20W 11 01		6-Jun-83		120SDMS	91.			6	88.	43.		10.	IRRIGATION			M:64011
10N 20W 11 01		1-Jan-83		120SDMS	44.			6	44.	21.		25.	DOMESTIC			M:64012
10N 20W 11 01		3-Dec-77		120SDMS	50.			6	44.	32.		20.	DOMESTIC			M:64014
10N 20W 11 01		27-Jul-77		120SDMS	73.			6	35.	19.		30.	DOMESTIC			M:64015
10N 20W 11 01		28-Mar-87		120SDMS	55.			6	50.	38.		18.	DOMESTIC			M:64016
10N 20W 11 01		20-Jan-86		120SDMS	35.			6	35.	8.		30.	DOMESTIC			M:64017

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Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 11 01		27-Mar-79		120SDMS	43.	6	29.	15.	DOMESTIC		M:64018					
10N 20W 11 01		26-Apr-82		120SDMS	59.	6	47.	20.	DOMESTIC		M:64005					
10N 20W 11 01		14-Jun-83		120SDMS	84.	8	37.	100.	IRRIGATION		M:64009					
10N 20W 11 A 01		6-Apr-93		120SDMS	80.	6	67.	20.	DOMESTIC		M:134517					
10N 20W 11 A 01		5-Apr-93		120SDMS	60.3	6	50.	35.	DOMESTIC		M:134521					
10N 20W 11 A 01		21-May-87		120SDMS	75.5	6	70.	30.	DOMESTIC		M:64019					
10N 20W 11 AA 01		17-Oct-74		120SDMS	51.	6	25.	20.	DOMESTIC		M:64020					
10N 20W 11 AADCDB	16-Jul-96	1970's	Y		3200	8	3.37	3196.6	COMMERCIAL							
10N 20W 11 AB 01		13-Jun-91		110ALVM	35.	6	34.	30.	DOMESTIC		M:123160					
10N 20W 11 AB 01		1-Jan-48		110ALVM	9.	8			DOMESTIC		M:64021					
10N 20W 11 ABACDC	9-Jan-97			120SDMS	63.	6	3177	20.73	DOMESTIC							
10N 20W 11 ABADBC	9-Jan-97	13-May-91	Y	120SDMS	3230	6	44R	3205.4	DOMESTIC		M:123569					
10N 20W 11 ABADBC	28-Mar-98	13-May-91	Y	120SDMS	3230	6	44R	5.	DOMESTIC	28-Mar-98	M:123569					
10N 20W 11 ABC 01		18-Aug-93		120SDMS	3260	6	35.	20.	DOMESTIC		M:136382					
10N 20W 11 ABCBDB	11-Jun-96	1994							DOMESTIC							
10N 20W 11 AC 01		4-May-77		211PLNC	70.	6	50.	25.	DOMESTIC		M:64022					
10N 20W 11 ACBCBB	10-Jun-96	21-Nov-72	Y	120SDMS	3262	6	35R	3245.4	PUB SUPPLY		M:64028					
10N 20W 11 ACBDD 0	10-Jun-96	4-Aug-82		120SDMS	3253	8	72R	3228.7	PUB SUPPLY		M:64023					
10N 20W 11 ACBDD 0	22-May-97	4-Aug-82	Y	120SDMS	3253	8	72R	10.	PUB SUPPLY	22-May-97	M:64023					
10N 20W 11 ACBDD 01		4-Aug-82	Y	120SDMS	3253	8	72R		PUB SUPPLY		M:64023					
10N 20W 11 ACCBA 0	10-Jun-96	6-Sep-63	Y	120SDMS	3260	6	36.9	29R	PUB SUPPLY		M:64025					
10N 20W 11 ACCBA 0	23-May-97	6-Sep-63	Y	120SDMS	3260	6	29R	3213R	PUB SUPPLY	23-May-97	M:64025					
10N 20W 11 ACCBA 0	4-May-98	6-Sep-63	Y	120SDMS	3260	6	29R	3213R	PUB SUPPLY	4-May-98	M:64025					
10N 20W 11 ACCBAD	10-Jun-96	24-Sep-92	Y	120SDMS	3255	10	75R	3223.1	UNUSED		M:130921					
10N 20W 11 ACCBAD	1-May-98	24-Sep-92	Y	120SDMS	3255	10	75R	30R	UNUSED	1-May-98	M:130921					
10N 20W 11 ACCC 01		27-Sep-67		120SDMS	3265	8R	62R	150R	PUB SUPPLY		M:64026					
10N 20W 11 ACCCA 0	10-Jun-96	7-Jul-89	N	120SDMS	3255	12	24.84	3230.2	IRRIGATION		M:64024					
10N 20W 11 ACDA 01				120SDMS	3230	6R	37R	3210R	PUB SUPPLY		M:64030					
10N 20W 11 ACDB 01		21-Apr-80		120SDMS	3242	6R	50R	3192R	UNKNOWN		M:136397					

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Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 11 AD 01		1-Jan-36			25.							5.	DOMESTIC			M:64031
10N 20W 11 ADCACC	15-Jul-96	8-May-88	Y	120SDMS	3227	35.	3192	6	30.5	28.45	3198.6	13.	LAWN			M:64032
10N 20W 11 ADCACC	21-May-97	8-May-88	Y	120SDMS	3227							12.5	LAWN		21-May-97	M:64032
10N 20W 11 B 01		24-Oct-75		120SDMS	3300	50R	3250R	6R	30R	10R	3290R	20.	DOMESTIC			M:64033
10N 20W 11 B 01		3-Sep-85		120SDMS		59.		6	32.	10.		20.	DOMESTIC			M:64034
10N 20W 11 BAB 01		1-Dec-95		120SDMS	3280	50.	3230	6	40.	4.	3276.	20.	DOMESTIC			M:154744
10N 20W 11 BAB 01		2-Dec-95		120SDMS	3280	64.	3216	6	55.	18.	3262.	20.	DOMESTIC			M:154747
10N 20W 11 BAC 01		24-Mar-80		120SDMS	3280	60.	3220	6	50.	17.	3263.	15.	DOMESTIC			M:64035
10N 20W 11 BACADD	15-Jul-96	29-Jul-75	Y	120SDMS	3280	95R	3185R	6	23.2	10.58	3269.4	8.5	DOM/IRR			M:64036
10N 20W 11 BADCDD	9-Jan-97	6-Jul-93	Y	120SDMS	3260	80R	3180R	6		6.45	3253.6	20.	DOMESTIC			M:136269
10N 20W 11 BADCDD	28-Mar-98	6-Jul-93	Y	120SDMS	3260	80R	3180R	6		7.31	3252.7	5.	DOMESTIC		28-Mar-98	M:136269
10N 20W 11 BB 01		9-Oct-91		120SDMS		46.		6	40.	8.		20.	DOMESTIC			M:124589
10N 20W 11 BB 01		9-May-96		120SDMS		57.		6	50.			20.	DOMESTIC			M:156449
10N 20W 11 BB 01		22-Sep-89		120SDMS		50.		6	45.	30.		15.	DOMESTIC			M:64038
10N 20W 11 BB 01		1-Jan-30		120SDMS		80.		4				200.	DOMESTIC			M:64037
10N 20W 11 BBDCA	19-Dec-96	8-May-96	Y	120SDMS	3305	57R	3248R	6	50R	5.95	3299.1	20.	DOMESTIC			M:156447
10N 20W 11 BC 01		9-Oct-91		120SDMS		39.		6	30.	8.		50.	DOMESTIC			M:124590
10N 20W 11 BC 01		17-Jun-78		120SDMS		50.5		6	50.	9.		12.	UNKNOWN			M:64039
10N 20W 11 BC 01		10-Oct-77		120SDMS		35.		6	25.	15.		30.	DOMESTIC			M:64040
10N 20W 11 BC 01		26-Feb-69		120SDMS		53.		6	40.	13.		11.	DOMESTIC			M:64041
10N 20W 11 BC 01		13-Jun-84		120SDMS		50.		6	20.	10.		25.	DOMESTIC			M:64013
10N 20W 11 BCA 01		12-Sep-95		110ALVM	3300	32.	3268	6	27.	11.	3289.	20.	DOMESTIC			M:152119
10N 20W 11 BCA 01		2-Mar-71		110ALVM	3300	38.5	3262	6	15.	10.	3290.	20.	DOMESTIC			M:64042
10N 20W 11 BCADAC	9-Jan-97	1984?			3300			6		9.	3291.		DOMESTIC			
10N 20W 11 BCBBDD	15-Jul-96	1975?	Y	120SDMS	3340	80R	3260R	6	28.	11.9	3328.1	6.7	DOM/IRR			
10N 20W 11 BCCA 01		12-Dec-78		120SDMS	3225	31R	3194R	6R	25R	10R	3215R	20R	DOMESTIC			M:64045
10N 20W 11 BCCC 01		23-Nov-77		120SDMS	3340	40R	3300R	6R	25R	15R	3325R	15R	DOMESTIC			M:64046
10N 20W 11 BCCD 01		25-Apr-80		120SDMS	3320	62R	3258R			12.6R	3307R		UNKNOWN			M:136395
10N 20W 11 BCDACD	22-Nov-96	14-Apr-73	Y	120SDMS	3305	38.2	3267	6	23.	10.65	3294.4	13.	DOMESTIC			M:64049

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Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 11 BCADCD	22-May-97	14-Apr-73	Y	120SDMS	3305							13.	DOMESTIC		22-May-97	M:64049
10N 20W 11 BCDD 01		16-Jan-71		120SDMS	3305	40R	3265R	6R	17R	11R	3294R	20R	DOMESTIC			M:64047
10N 20W 11 BCDD 01		1-Jan-13		120SDMS	3305			12R		20R	3285R		DOMESTIC			M:64048
10N 20W 11 BD 01		19-May-93		120SDMS		66.		6	60.	35.		15.	DOMESTIC			M:136270
10N 20W 11 BDA 01		20-Sep-88		120SDMS	3270	34.	3236	6	32.	13.	3257.	15.	DOMESTIC			M:136271
10N 20W 11 BDAAB 0	9-Jan-97	5-Jul-96	Y	120SDMS	3275	63.2	3212	6		12.37	3262.6		DOMESTIC			M:157711
10N 20W 11 BDAAB 0	22-May-97	5-Jul-96	Y	120SDMS	3275							12.	DOMESTIC		22-May-97	M:157711
10N 20W 11 BDADD	17-Dec-97		Y	120SDMS	3280							6.	DOMESTIC		17-Dec-97	M:166833
10N 20W 11 BDADD	1-May-98		Y	120SDMS								6.	DOMESTIC		1-May-98	M:166833
10N 20W 11 BDADD	8-Apr-98			120SDMS												M:166833
10N 20W 11 BDAD 01		24-Apr-76		120SDMS	3265	80.	3185	6	65.	15.	3250.	12.	DOMESTIC			M:63999
10N 20W 11 BDBAAB	7-Jan-97	30-Jun-96	Y	120SDMS	3285	66.4	3219	6		8.82	3276.2		UNKNOWN			M:157710
10N 20W 11 BDBB 01		13-Jan-79		120SDMS	3300	39R	3261R	6R	36R	8R	3292R	25R	DOMESTIC			M:64050
10N 20W 11 BDCA 01		21-Jun-77		120SDMS	3283	35.	3248	6	15.	9.	3274.	20.	DOMESTIC			M:64044
10N 20W 11 BCADA	19-Dec-96		Y	120SDMS	3305	31.	3274	6		10.04	3295.		DOMESTIC			M:160354
10N 20W 11 BCADA	29-Mar-98		Y	120SDMS	3305	31.	3274	6		10.04	3295.		DOMESTIC	29-Mar-98		M:160354
10N 20W 11 BDDAB 01		8-Apr-79		120SDMS	3240	76R	3164R	6R	20R	20R	3220R	25R	IRRIGATION			M:64029
10N 20W 11 BDDABB	10-Jun-96	11-Nov-63		120SDMS	3270	63R	3207R	6	43R	14.26	3255.7	26R	DOMESTIC			M:64027
10N 20W 11 BDDC 01		1-Dec-77		120SDMS	3275	180R	3095R	6R	90R	40R	3235R	25R	DOMESTIC			M:64051
10N 20W 11 BDDDD 01		8-Jun-75		120SDMS	3265	50.	3215	6	40.	10.	3255.	25.	DOMESTIC			M:64002
10N 20W 11 CA 01		17-Nov-92		120SDMS		39.		6	33.	11.		35.	DOMESTIC			M:132279
10N 20W 11 CB 01		19-Aug-93		120SDMS		51.		6	45.	23.		30.	DOMESTIC			M:136383
10N 20W 11 CB 01		12-Apr-96		120SDMS		140.		6		44.		5.	DOMESTIC			M:155532
10N 20W 11 CB 01		9-Oct-75		120SDMS	3310	40R	3270R	6R	35R	27R	3283R	20R	DOMESTIC			M:64052
10N 20W 11 CB 01		1-Jan-35		120SDMS		40.				30.		8.	DOMESTIC			M:64054
10N 20W 11 CB 01		28-Jul-89		120SDMS		54.		6	45.	17.		50.	IRRIGATION			M:64055
10N 20W 11 CBA 01		12-Jan-96		120SDMS	3300	63.	3237	6	58.	34.	3266.	8.	DOMESTIC			M:151139
10N 20W 11 CBAB 01		30-Oct-73		120SDMS	3300	40.	3260	6	35.	22.	3278.	12.	DOMESTIC			M:64056
10N 20W 11 CBCAA 01		30-Mar-76		120SDMS	3320	49R	3271R	6R	39R	36R	3284R	15R	DOMESTIC			M:64053

R = reported value

Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 11 CBCBCA	15-Jul-96	9-Apr-80	Y	120SDMS	3330			6	21.	18.77	3311.2	4.	DOMESTIC			M:136423
10N 20W 11 CBCBCA	28-Mar-98	9-Apr-80	Y	120SDMS	3330	56.	3274	6	21.	35.11	3294.9	4.	DOMESTIC		29-Mar-98	M:136423
10N 20W 11 CBCC 01		17-Jun-75		120SDMS	3335	55R	3280R	6R	45R	25R	3310R	10R	DOMESTIC			M:64058
10N 20W 11 CBCC 01		29-Jun-78		120SDMS	3325	55R	3270R	6R	32R	17R	3308R	20R	DOMESTIC			M:64057
10N 20W 11 CBCDA 0	19-Dec-96	31-Jul-74		120SDMS	3310	46.	3264	6R	30R	15R	3295R	30R	DOMESTIC			M:64000
10N 20W 11 CBCDD 0	19-Dec-96	12-Mar-95	Y	120SDMS	3310	67R	3243R	6	52R	34.22	3275.8	20R	DOMESTIC			M:147580
10N 20W 11 CBDCA 0	28-Mar-98	12-Mar-95	Y	120SDMS	3310	67R	3243R	6	52R	36.16	3273.8	4.	DOMESTIC		28-Mar-98	M:147580
10N 20W 11 CBDAA	2-May-98	1997	Y	120SDMS	3300	60-65		6		31.5	3268.5	5.	PUBLIC		2-May-98	M:166835
10N 20W 11 CC 01		4-Dec-75		120SDMS		70.		6	60.	40.		20.	DOMESTIC			M:135658
10N 20W 11 CC 01		3-Apr-75		120SDMS		56.		6	51.	42.		20.	DOMESTIC			M:64059
10N 20W 11 CC 01		1-Jan-34						48		50.		200.	DOMESTIC			M:64063
10N 20W 11 CC 01		20-Sep-72		120SDMS		49.		6	43.	26.		20.	DOMESTIC			M:64065
10N 20W 11 CC 01		17-Jun-87		120SDMS		87.		6	75.	40.		30.	DOMESTIC			M:64068
10N 20W 11 CCA 01		21-Feb-96		120SDMS	3300	49.	3251	6	45.	29.	3271.	20.	DOMESTIC			M:155609
10N 20W 11 CCBD 01		1-Jan-80		120SDMS	3319	113.	3206	6				4.	DOMESTIC			M:136432
10N 20W 11 CCBDB 0	19-Dec-96	3-May-77		120SDMS	3320	60.	3260	6	50R	38.	3282.	20R	DOMESTIC			M:64069
10N 20W 11 CCBDD 01		1-Jan-80		120SDMS	3305	45R	3260R	6R		33.3R	3272R		DOMESTIC			M:136434
10N 20W 11 CCC 01		5-Jul-90		120SDMS	3320	64.	3256	6	56.	41.	3279.	20.	DOMESTIC			M:120451
10N 20W 11 CCCA 01		25-Nov-61		120SDMS	3305	38R	3267R	5R		27R	3278R	10R	DOMESTIC			M:64061
10N 20W 11 CCCAAA	9-Jan-97	19-Sep-61		120SDMS	3310	40R	3270	6	30R	32.4	3277.6	12R	DOMESTIC			M:64064
10N 20W 11 CCCAAB	9-Jan-97	25-May-87	Y	120SDMS	3315	100R	3215R	6	48R	35.85	3279.2	20R	DOMESTIC			M:64067
10N 20W 11 CCCAAB	22-May-97	25-May-87	Y	120SDMS	3315							9.	DOMESTIC		22-May-97	M:64067
10N 20W 11 CCCAC 0	19-Dec-96	10-May-66	Y	120SDMS	3304	37.5	3267	5	18R	34.61	3269.4	20R	UNUSED			M:64064
10N 20W 11 CCCAC 0	19-Dec-96	26-May-87	Y	120SDMS	3306	70R	3236R	6	48R	33.86	3272.1	15R	DOMESTIC			M:64066
10N 20W 11 CCCCB 0	21-Nov-96	8-Jul-65	Y	120SDMS	3435	45R	3990R	6	26R	20R	3415R	10.	DOMESTIC			M:64062
10N 20W 11 CCCD 01		19-Apr-75		120SDMS	3310	60R	3250R	6R	45R	30R	3280R	25R	DOMESTIC			M:64070
10N 20W 11 CCDC 01		1-Apr-80			3295					39.7	3255.3		UNKNOWN			M:136425
10N 20W 11 CCDD 01		12-Jan-76		120SDMS	3289	78R	3212R	6R	75R	58R	3231R	12R	DOMESTIC			M:64071
10N 20W 11 CD 01		5-Jul-92		120SDMS		80.		6	68.	45.		35.	DOMESTIC			M:130922

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Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 11 CD 01		8-Nov-68		120SDMS	55.			6	43.	39.		15.	DOMESTIC			M:64072
10N 20W 11 CD 01		16-May-77		120SDMS	80.			6	60.	50.		8.	DOMESTIC			M:64073
10N 20W 11 CD 01		27-Jan-62		120SDMS	54.			5		40.		12.	DOMESTIC			M:64075
10N 20W 11 CD 01		3-Dec-72		120SDMS	63.			6	58.	42.		20.	DOMESTIC			M:64076
10N 20W 11 CD 01		1-Jan-00		120SDMS	45.					30.		20.	COMMERCIAL			M:64074
10N 20W 11 CDACAD	9-Jan-97	21-Aug-90	Y	120SDMS	3265	76.	3189	6	56R	41.98	3223.	30R	COMMERCIAL			M:120452
10N 20W 11 CDACDC	8-Jan-97	13-Dec-93		120SDMS	3270	88R	3182R	6		49.45	3220.6	30R	DOMESTIC			M:139842
10N 20W 11 CDCD 01		28-Aug-80		120SDMS	3270	342R	2928R	6R	120R	50R	3220R	1.6	MONITORING		28-Aug-80	M:5809
10N 20W 11 CDCD 01		28-Aug-80		120SDMS	3270	342R	2928R	6R	120R	50R	3220R	75R	MONITORING		29-Aug-80	M:5809
10N 20W 11 CDCD 01		28-Aug-80		120SDMS	3270	342R	2928R	6R	120R	50R	3220R		MONITORING		10-Mar-94	M:5809
10N 20W 11 CDCDDD	16-Jul-96	2-Jun-79	INOP	120SDMS	3263	77R	3186R	6	60R	45.22	3217.8	50R	DOMESTIC			M:64078
10N 20W 11 CDDA 01		1-Jan-79		120SDMS	3262	82R	3180R	6R		47R	3215R	15R	DOMESTIC			M:136424
10N 20W 11 CDDCBA	8-Jan-97	13-Dec-93	Y	120SDMS	3260	100.	3160	6	50.4	50.37	3209.6	24R	COMMERCIAL			M:139843
10N 20W 11 CDDCBC	16-Jul-96	3-Aug-72	Y	120SDMS	3265	53R	3212R	6	45.1	50.5	3214.5	12.	FIREHOUSE			M:64077
10N 20W 11 CDDCBC	23-May-97	3-Aug-72	Y	120SDMS	3265	108.6	3154	6	51.7	49.38	3215.6	10.	FIREHOUSE		23-May-97	M:64077
10N 20W 11 DBAB	9-Feb-98		Y	120SDMS	3235			8					PUBLIC		27-Dec-97	M:163262
10N 20W 11 DBAB	8-Apr-98			120SDMS		71.9									8-Oct-97	M:163262
10N 20W 11 DBAC 01		12-May-60		120SDMS	3250	56.	3194	5			3250.	15.	DOMESTIC			M:64080
10N 20W 11 DBCAB 0	20-Dec-96	21-Feb-84	Y	120SDMS	3257	69R	3188R	6	64R	39.11	3217.9	30R	MEDICAL			M:64010
10N 20W 11 DBCAB 0	24-Jul-97	21-Feb-84	Y	120SDMS	3257	69R	3188R	6	64R			4.	MEDICAL		24-Jul-97	M:64010
10N 20W 11 DBCCA	17-Jul-96		Y	120SDMS	3255	60.	3195	6	41.2	33.22	3221.8	6.	DOM/COMM			M:161812
10N 20W 11 DBCCA	24-Jul-97		Y	120SDMS	3255	60.	3195	6		20.98	3234.	5.	DOM/COMM		24-Jul-97	M:161812
10N 20W 11 DBDA 01		20-Mar-64		110ALVM	3235	62R	3173R	6R	47R	34R	3201R	41R	DOMESTIC			M:64081
10N 20W 11 DBDAC	2-May-98		Y	110ALVM	3235	40.	3195	6		31.21	3203.8	7.	DOMESTIC		3-May-98	M:166834
10N 20W 11 DC 01		20-Feb-27				43.5		60		30.		30.	DOMESTIC			M:64083
10N 20W 11 DC 01		30-Jun-88				59.		6		37.		40.	DOMESTIC			M:64084
10N 20W 11 DC 01		11-Jan-89				59.		6		42.		20.	DOMESTIC			M:64085
10N 20W 11 DCBCBB	16-Jul-96	22-Sep-72	Y	120SDMS	3255	75.	3180	6	38.2	35.03	3220.	20R	COMMERCIAL			M:64082
10N 20W 11 DCBCBB	23-May-97	22-Sep-72	Y	120SDMS	3255			6				7.5	COMMERCIAL		23-May-97	M:64082

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Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 11 DCCAD 0	18-Dec-96	10-Feb-95	Y	120SDMS	3240	70R	3170R	6		31.74	3208.3	20.	DOMESTIC			M:147581
10N 20W 11 DCCAD 0	21-May-97	10-Feb-95	Y	120SDMS	3240							20.	DOMESTIC		21-May-97	M:147581
10N 20W 11 DCCC 01		21-Apr-80		120SDMS	3255	65R	3190R	6R		42.4R	3213R		DOMESTIC			M:136422
10N 20W 11 DCDC 01		1-Jan-36		110ALVM	3220	26.	3194	30				16.	DOMESTIC			M:64086
10N 20W 11 DDDD 01		1-Jan-59		110ALVM	3200	12R	3188R	48R		6R	3194R	16R	DOMESTIC			M:64087
10N 20W 13 BBABA		4-May-59		110ALVM	3024	50R	2974R		6R				MONITORING			M:706722
10N 20W 14 01		18-Aug-92				98.8		6	90.	48.		100.	DOMESTIC			M:131892
10N 20W 14 01		15-Nov-72			3650	70R	3580R	6R	60R	50R	3600R	20R	DOMESTIC			M:64134
10N 20W 14 01		30-Jul-73				48.		6	45.	38.		15.	DOMESTIC			M:64136
10N 20W 14 01		3-Jan-70				61.		6	54.	51.		14.	DOMESTIC			M:64137
10N 20W 14 01		19-Mar-80				80.		6	61.	50.		10.	UNKNOWN			M:64138
10N 20W 14 01		24-Mar-77		110ALVM		70.		6	55.	42.		20.	DOMESTIC			M:64139
10N 20W 14 01		1-Jan-48				55.							DOMESTIC			M:64140
10N 20W 14 01		1-Jan-58				50.							DOMESTIC			M:64141
10N 20W 14 01		1-Jan-43				56.				22.			DOMESTIC			M:64143
10N 20W 14 01		1-Jan-56				58.				22.			DOMESTIC			M:64144
10N 20W 14 01		30-Nov-62				38.						25.	DOMESTIC			M:64145
10N 20W 14 01		1-Jan-12				87.						25.	UNKNOWN			M:64147
10N 20W 14 01		24-Jul-65				61.3		6	39.	18.		60.	PUB SUPPLY			M:64149
10N 20W 14 01		23-Dec-75				61.		6	56.	47.		20.	DOMESTIC			M:64150
10N 20W 14 01		13-Sep-76		110ALVM		69.		6	64.	42.		20.	DOMESTIC			M:64152
10N 20W 14 01		7-Mar-81				84.		6	80.	56.		15.	UNKNOWN			M:64154
10N 20W 14 01		21-Nov-81				87.		6	80.	44.		10.	UNKNOWN			M:64155
10N 20W 14 01		6-Aug-84				79.		6	79.	51.		20.	DOMESTIC			M:64156
10N 20W 14 01		24-Sep-87				34.		6	29.	11.		10.	DOMESTIC			M:64157
10N 20W 14 01		1-Jun-87				80.		6	75.	52.		30.	DOMESTIC			M:64158
10N 20W 14 01		9-Aug-86				95.		6	80.	45.		8.	DOMESTIC			M:64160
10N 20W 14 01		14-Mar-88				39.		6		22.		30.	DOMESTIC			M:64161
10N 20W 14 01		01-Jan-1890				46.		48		30.		20.	STOCKWATER			M:64164

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10N 20W 14 01		1-Jan-61				62.				22.		150.	DOMESTIC			M:64146
10N 20W 14 01		23-Jul-87				67.		6	60.	28.		80.	DOMESTIC			M:64159
10N 20W 14 01		1-Feb-37				52.				22.			DOMESTIC			M:64142
10N 20W 14 01		2-Aug-63				61.		5		37.		12.	DOMESTIC			M:64135
10N 20W 14 01		29-Nov-76		110ALVM		75.		6	70.	52.		20.	DOMESTIC			M:64151
10N 20W 14 A 01		31-Aug-73		110ALVM		51.		6	51.	10.		2.	DOMESTIC			M:64165
10N 20W 14 AA 01		9-Dec-88		110ALVM		54.		6		17.		40.	DOMESTIC			M:64166
10N 20W 14 AAD 01		30-Jun-88		110ALVM	3208	90.	3118	6	80.	45.	3163.	15.	DOMESTIC			M:136384
10N 20W 14 AB 01		28-Jul-93		110ALVM		49.		6	44.	28.		30.	DOMESTIC			M:136385
10N 20W 14 AB 01		16-Jun-94		110ALVM		38.		6	35.	15.		20.	DOMESTIC			M:143091
10N 20W 14 AB 01		3-May-95		110ALVM		51.		6	45.	31.		50.	DOMESTIC			M:149654
10N 20W 14 ABA 01		12-Jan-96		120SDMS	3220	95.	3125	6		50.	3170.	15.	DOMESTIC			M:154062
10N 20W 14 ABC 01		5-Jul-95		120SDMS	3225	66.	3159	6	60.	27.	3198.	35.	DOMESTIC			M:151178
10N 20W 14 ABCAC	22-Nov-96	1993	Y	120SDMS	3243	50R	3193R	6	32.	27.98	3215.	15.	DOMESTIC			M:166186
10N 20W 14 ABCAC	29-Mar-98	1993	Y	120SDMS	3243	50R	3193R	6	32.	30.4	3212.6	5.	DOMESTIC	29-Mar-98		M:166186
10N 20W 14 AC 01		12-Jul-91		120SDMS		59.		6	50.	27.		50.	DOMESTIC			M:124564
10N 20W 14 B 01		28-Apr-76		110ALVM	3260	32R	3228R	6R	30R	17R	3243R	40R	DOMESTIC			M:64169
10N 20W 14 B 01		25-Feb-80		120SDMS		120.		6	60.	37.		7.	UNKNOWN			M:64171
10N 20W 14 B 01		30-Dec-75		110ALVM		69.		6	61.	49.		20.	DOMESTIC			M:64167
10N 20W 14 BA 01		15-May-93		110ALVM		70.		6	65.	42.		80.	DOMESTIC			M:136272
10N 20W 14 BA 01		2-Feb-62		110ALVM		50.6		5	48.	47.		12.	DOMESTIC			M:64174
10N 20W 14 BAA 01		18-Oct-93		110ALVM	3255	43.	3212	6	34.	27.5	3227.5	24.	DOMESTIC			M:143190
10N 20W 14 BAA 01		1-Jan-46		110ALVM	3255	54.	3201	36		38.	3217.	10.	DOMESTIC			M:64175
10N 20W 14 BAAAABC	20-Aug-96	1992-93	Y	120SDMS	3257	60.	3197	6	34.1	32.81	3224.2	7.5	COMMERCIAL			M:160811
10N 20W 14 BAAAABC	21-May-97	1992-93	Y	120SDMS	3257	87.	3170	6	34.3			7.3	COMMERCIAL	21-May-97		M:160811
10N 20W 14 BAAAABC	23-Jul-97	1992-93	Y	120SDMS	3257	87.	3170	6					COMMERCIAL	23-Jul-97		M:160811
10N 20W 14 BABA 01		15-May-73		120SDMS	3265	89R	3176R	6R		50R	3215R	25R	DOMESTIC			M:64176
10N 20W 14 BABC 01		25-Feb-75		110ALVM	3270	73R	3197R	5R	70R	54R	3216R	15R	DOMESTIC			M:64177
10N 20W 14 BACA 01		8-Dec-71		110ALVM	3255	59.5	3196	6	41.	39.	3216.	15.	DOMESTIC			M:64173

R = reported value

Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 14 BACAAB	22-May-97		Y	120SDMS	3255	58.8	3196	6	33.6	32.67	3222.3	12.	DOMESTIC		25-Jul-97	M:160812
10N 20W 14 BADBB	25-Jul-97		Y	120SDMS	3255	58.8	3196	6					DOMESTIC		21-May-97	M:160812
10N 20W 14 BADBB	1-May-98		Y	120SDMS	3255	58.8	3196	6		39.71	3215.3	6.	DOMESTIC		1-May-98	M:160812
10N 20W 14 BACBAC	21-Nov-96	9-Apr-73	Y	120SDMS	3263	58R	3205R	6	39.7	39.7	3223.3	1.3	DOMESTIC			M:64178
10N 20W 14 BACBAC	2-May-98	9-Apr-73	Y	120SDMS	3263	58R	3205R	6	39.7	39.7	3223.3	1.3	DOMESTIC		2-May-98	M:64178
10N 20W 14 BACBDB	21-Nov-96	1982-83	Y	120SDMS	3264	87.	3177	6	41.3	41.32	3222.7	1.	COMMERCIAL			
10N 20W 14 BACCBA	20-Nov-96		Y	120SDMS	3362							2.9	DOMESTIC			M:160813
10N 20W 14 BACCBA	21-May-97		Y	120SDMS	3362							1.7	DOMESTIC		21-May-97	M:160813
10N 20W 14 BACCCC	24-Jul-97		Y	120SDMS	3258	58.9	3199	6		24.49	3233.5	5.8	DOM/COMM		24-Jul-97	M:161813
10N 20W 14 BACDD	18-Dec-96		Y	120SDMS	3245	55R	3190R	6		28.95	3216.1		DOMESTIC			M:166187
10N 20W 14 BACDD	31-Mar-98		Y	120SDMS	3245	55R	3190R	6		31.88	3213.1	7.	DOMESTIC		31-Mar-98	M:166187
10N 20W 14 BB 01		26-Apr-94		120SDMS		51.		6	48.	30.		12.	DOMESTIC			M:141859
10N 20W 14 BB 01				120SDMS		183.		6		90.		30.	DOMESTIC			M:144723
10N 20W 14 BB 01		4-Aug-75		120SDMS	3280	55R	3225R	6R	53R	27R	3253R	20R	DOMESTIC			M:64179
10N 20W 14 BB 01		1-Jan-00		120SDMS		55.				30.		40.	DOMESTIC			M:64182
10N 20W 14 BB 01		20-Oct-82		120SDMS		42.		6	24.	12.		25.	UNKNOWN			M:64184
10N 20W 14 BB 01		26-Feb-71		120SDMS		62.		6	57.	50.		15.	DOMESTIC			M:64183
10N 20W 14 BBAA 01		24-Dec-69		120SDMS	3295	66.	3229	6	54.	51.	3244.	20.	DOMESTIC			M:64181
10N 20W 14 BBABB 01		24-May-75		120SDMS	3296	165.	3131	6	145.	80.	3216.	70.	DOMESTIC			M:64170
10N 20W 14 BBAD 01		4-May-77		120SDMS	3280	90.	3190	6	80.	70.	3210.	12.	DOMESTIC			M:64185
10N 20W 14 BBBBAA	17-Jul-96	23-Mar-95	Y	120SDMS	3305	66R	3239R	6	51.7	45.75	3259.3	12.	DOMESTIC			M:149658
10N 20W 14 BBBBAA	22-May-97	23-Mar-95	Y	120SDMS	3305							12.	DOMESTIC		22-May-97	M:149658
10N 20W 14 BBBB 01		1-Jan-80		120SDMS	3295	65.	3230	6		44.	3251.		UNKNOWN			M:135652
10N 20W 14 BBBDA 01		1-Jan-80		120SDMS	3295	60R	3235R	6R		44.2R	3251R		DOMESTIC			M:136532
10N 20W 14 BBBA 01		1-Jan-80		120SDMS	3290	65R	3225R			45.3R	3255R		UNKNOWN			M:136490
10N 20W 14 BBBA 01		1-Jan-80		120SDMS	3290	60R	3230R	6R		44R	3246R		DOMESTIC			M:136573
10N 20W 14 BBBCBA 01		17-Jan-75		120SDMS	3280	76R	3204R	6R	71R	53R	3227R	20R	DOMESTIC			M:64153
10N 20W 14 BBBCBB	17-Jul-96	15-Mar-71		120SDMS	3307	64R	3243R	6R	53R	49R	3258R	25R	LAWN			M:64180
10N 20W 14 BBDA 01		1-Jan-80		120SDMS	3278	65R	3213R	6R		52.5R	3226R		DOMESTIC			M:136576

R = reported value

Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 14 BBDAC 01		16-Dec-72		120SDMS	3269	61.	3208	6	57.	32.	3237.	15.	DOMESTIC			M:64172
10N 20W 14 BBDAD 01		16-Mar-77		120SDMS	3270	70R	3200R	6R	60R	50R	3220R	20R	DOMESTIC			M:64190
10N 20W 14 BBDAD 01		1-Jan-49		120SDMS	3270	50.	3220	4				25.	DOMESTIC			M:64198
10N 20W 14 BBDABC 01	21-Nov-96	18-Mar-77	Y	120SDMS	3282	70.	3212	6	60R	55.58	3226.4	4.8	DOMESTIC			M:64187
10N 20W 14 BBDABC 01	21-May-97	18-Mar-77	Y	120SDMS	3282							5.	DOMESTIC		21-May-97	M:64187
10N 20W 14 BBDD 01		15-Mar-77		120SDMS	3270	70R	3200R	6R	50R	40R	3230R	20R	DOMESTIC			M:64188
10N 20W 14 BBDDA 01		7-Oct-76		120SDMS	3270	60.	3210	6	45.	35.	3235.	35.	DOMESTIC			M:64189
10N 20W 14 BBDDB 01		17-Mar-77		120SDMS	3273	80R	3193R	6R	60R	50R	3223R	20R	DOMESTIC			M:64186
10N 20W 14 BBDDC 01		14-Mar-77		120SDMS	3263	70R	3193R	6R	60R	26R	3237R	20R	DOMESTIC			M:64197
10N 20W 14 BBDDCC 01	22-Nov-96	24-Apr-92	Y	120SDMS	3265	78R	3187R	6	34.9	32.83	3232.2	13.	DOM/COMM			M:128934
10N 20W 14 BBDDCC 01	24-Jul-97	24-Apr-92	Y	120SDMS	3265	78R	3187R	6				11.5	DOM/COMM		24-Jul-97	M:128934
10N 20W 14 BC 01		10-Sep-90				48.		6	35.	26.		50.	DOMESTIC			M:121309
10N 20W 14 BC 01		11-Dec-90		110ALVM		49.		6	45.	30.		15.	DOMESTIC			M:121918
10N 20W 14 BC 01		4-Jan-91				39.		6	36.	16.		40.	DOMESTIC			M:122204
10N 20W 14 BC 01		4-Oct-76		110ALVM	3265	51R	3215R	6R	45R	31R	3234R	35R	DOMESTIC			M:64192
10N 20W 14 BC 01		01-Jan-1888				60.		6				200.	DOMESTIC			M:64194
10N 20W 14 BC 01		11-Jun-82		110ALVM		50.		6	37.	25.		30.	UNKNOWN			M:64196
10N 20W 14 BC 01		7-Sep-90		110ALVM		47.		6	30.	22.		40.	DOMESTIC			M:120800
10N 20W 14 BC 01		31-Jul-73		110ALVM		46.		6	35.	6.		46.	DOMESTIC			M:64193
10N 20W 14 BCAA 01		18-Aug-72		120SDMS	3245	61.	3184	6	55.	20.	3225.	60.	DOMESTIC			M:64195
10N 20W 14 BCABC 01		1-Dec-80		120SDMS	3270	68R	3202R	4R		17R	3253R	15R	DOMESTIC		23-Jun-80	M:5814
10N 20W 14 BCABCA 01	23-May-97	28-Aug-92	Y	120SDMS	3270	59R	3211R	6	54R	39R	3231R	9.	DOM/COMM		23-May-97	M:130926
10N 20W 14 BCDA 01		1-Sep-79		120SDMS	3255	78R	3177R	6R		27.6R	3227R		DOMESTIC			M:136592
10N 20W 14 BCDB 01		8-Oct-76		120SDMS	3240	51.	3189	6	40.	28.	3212.	50.	DOMESTIC			M:64191
10N 20W 14 BCDC 01	31-Mar-98		Y	110ALVM	3245	50.	3195	6		30.02	3215.	7.	DOMESTIC		31-Mar-98	M:166185
10N 20W 14 BD 01		9-Nov-95		110ALVM		60.		6		30.		30.	DOMESTIC			M:153240
10N 20W 14 BD 01		10-Apr-95				59.		6	49.	30.		30.	DOMESTIC			M:149659
10N 20W 14 BDA 01		12-Jul-95		110ALVM	3223	53.	3170	6	48.	29.	3194.	35.	DOMESTIC			M:151097
10N 20W 14 C 01		27-Nov-90				38.		6	19.	16.		40.	DOMESTIC			M:121510

R = reported value

Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 14 CA 01		12-Dec-92		110ALVM	50.	50.		6	45.	30.		30.	DOMESTIC			M:132281
10N 20W 14 CB 01		14-Oct-89		110ALVM	42.	42.		6	37.	22.		50.	DOMESTIC			M:64199
10N 20W 14 CBABBB	21-May-97	Late 40's ?	Y	110ALVM	31.9	31.9	3118	6		11.17	3138.8	7.5	DOMESTIC	21-May-97		M:160815
10N 20W 14 CBCDA	17-Dec-96	27-Dec-90	Y	120SDMS	50.	50.	3205	6	27R	29.8	3225.2	14.3	DOMESTIC			M:121919
10N 20W 14 CBCDA	2-May-98	27-Dec-90	Y	120SDMS	50.	50.	3205	6	27R	29.8	3225.2	14.3	DOMESTIC	2-May-98		M:121919
10N 20W 14 CBD 01		28-Dec-90		120SDMS	43.	43.		6	30.	18.		40.	DOMESTIC			M:135481
10N 20W 14 CBDCCD	20-Aug-96	15-Mar-88		120SDMS	3245	48R	3197R	6	26.1	23.41	3221.6	12.	DOMESTIC			M:64162
10N 20W 14 CC 01		9-May-91		120SDMS	49.	49.		6	44.	30.		30.	DOMESTIC			M:123096
10N 20W 14 CC 01		10-Sep-92		120SDMS	58.	58.		6	48.	25.		30.	DOMESTIC			M:130927
10N 20W 14 CC 01		28-Jul-93		120SDMS	49.	49.		6	44.	25.		50.	DOMESTIC			M:136386
10N 20W 14 CC 01		11-Dec-93		120SDMS	49.	49.		6	45.	28.		35.	DOMESTIC			M:139844
10N 20W 14 CC 01		18-Jul-89		120SDMS	49.	49.		6		23.		50.	DOMESTIC			M:64200
10N 20W 14 CC 01		3-Feb-90		120SDMS	48.	48.		6	43.	28.		50.	DOMESTIC			M:64201
10N 20W 14 CC 01		8-Apr-90		120SDMS	49.	49.		6	44.	30.		30.	DOMESTIC			M:64202
10N 20W 14 CC 01		8-Jun-90		120SDMS	49.	49.		6	41.	25.		30.	DOMESTIC			M:64203
10N 20W 14 CC 01		1-Jul-92		120SDMS	62.	62.		6	45.	22.		50.	DOMESTIC			M:128933
10N 20W 14 CC 01		10-Sep-92		120SDMS	55.	55.		6	50.	25.		30.	DOMESTIC			M:130925
10N 20W 14 CC 01		2-Jun-92		120SDMS	50.	50.		6	45.	26.		100.	DOMESTIC			M:128935
10N 20W 14 CCCC	17-Dec-96	15-Jun-91	Y	120SDMS	3265	54R	3211R	6	45R	30.53	3234.5	30R	DOMESTIC			M:123097
10N 20W 14 CCDA	17-Dec-96	24-Apr-88	Y	120SDMS	3230	39.	3191	6		18.23	3211.8	40R	DOMESTIC			M:64163
10N 20W 14 CCDA	2-May-98	24-Apr-88	Y	120SDMS	3230	39.	3191	6		18.23	3211.8	40R	DOMESTIC	2-May-98		M:64163
10N 20W 14 CDAABC	7-Jan-97	5-Feb-92		120SDMS	3215	50R	3165R	6R	45R	26.49	3188.5	50R	DOMESTIC			M:126895
10N 20W 14 CDCDCC	8-Jan-97	2-Sep-91		120SDMS	3220	49.	3171	6	40R	28.13	3191.9	40R	DOMESTIC			M:124592
10N 20W 15 01		23-May-85			69.	69.		6	60.	37.		30.	DOMESTIC			M:64205
10N 20W 15 01		30-Aug-84			222.	222.		6					PLUGGED			M:64206
10N 20W 15 01		21-Sep-85			46.	46.		6		19.			DOMESTIC			M:64207
10N 20W 15 01		4-Jan-83			95.	95.		6	90.	50.		8.	DOMESTIC			M:64204
10N 20W 15 AAA 01		12-Apr-95		120SDMS	70.	70.		6	65.	48.		30.	UNKNOWN			M:149661
10N 20W 15 AAAD 01		29-Jul-65		120SDMS	3310	77.	3240	8	65.	45.	3262.	125.	STOCKWATER			M:64168

R = reported value

Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USF	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 15 AABAA	21-Aug-97	1-Jan-96	Y	120SDMS	3339			6	49.7	35.8	3303.2	13.	DOMESTIC		21-Aug-97	M:156450
10N 20W 15 AABD 01		6-Jun-96		120SDMS	3340	65.	3275	6	60.	40.	3300.	15.	DOMESTIC			
10N 20W 15 ACADA	17-Dec-96	1982?		120SDMS	3350	60R	3290R	6		32.85	3317.2	27.2	DOMESTIC			
10N 20W 15 ACADBD	17-Dec-96		Y	120SDMS	3355	90.	3265	6		41.75	3313.3	5.5	DOMESTIC			M:166188
10N 20W 15 ACADBD	31-Mar-98		Y	120SDMS	3355	90.	3265	6				5.5	DOMESTIC		31-Mar-98	M:166188
10N 20W 15 ACBA 01		22-Jul-73		120SDMS	3360	123.	3237	6			3360.	0.0	ABANDONED			M:64211
10N 20W 15 ACBBB	17-Dec-96		N	211PLNC	3405	100R	3305R	6		18.28	3386.7		UNUSED			
10N 20W 15 ACBBCC	17-Dec-96	2-Oct-76	Y	211PLNC	3385	270R	3115R	6	265R	48.09	3336.9	6.	DOM/STK			M:64209
10N 20W 15 ACBBCC	3-May-98	2-Oct-76	Y	211PLNC	3385	270R	3115R	6		37.2	3347.8	8.	DOM/STK		3-May-98	M:64209
10N 20W 15 ACDA 01		8-Oct-73		211PLNC	3325	72R	3253R	6R	65R	47R	3278R	30R	DOMESTIC			M:64210
10N 20W 15 ACDD 01		15-Jan-76		120SDMS	3320	66R	3254R	6R	60R	25R	3295R	7R	DOMESTIC			M:64212
10N 20W 15 AD 01		21-Sep-89		110ALVM		50.		6	45.	23.		20.	DOMESTIC			M:64213
10N 20W 15 AD 01		3-Jul-91		110ALVM		39.		6	35.	8.		50.	DOMESTIC			M:124593
10N 20W 15 AD 01		6-Nov-92		120SDMS		87.		6	80.	55.		30.	DOMESTIC			M:126892
10N 20W 15 ADB 01		24-Mar-77		120SDMS	3335	80R	3255R	6R	60R	48R	3287R	12R	DOMESTIC			M:64214
10N 20W 15 ADDA 01		10-Jul-74		110ALVM	3255	44R	3211R	6R	16R	15R	3240R	25R	DOMESTIC			M:64216
10N 20W 15 ADDA 01		17-Jul-73		110ALVM	3295	62R	3233R	6R	55R	18R	3277R	25R	DOMESTIC			M:64215
10N 20W 15 BDDA 01		1-Jan-80			3378	21R	3357R			4R	3374R		DOMESTIC			M:136608
10N 20W 15 C 01		1-Feb-93				191.		6	428.	100.			ABANDONED			M:133857
10N 20W 15 CA 01		28-Jul-92				60.		6	45.	30.		30.	DOMESTIC			M:130928
10N 20W 15 CA 01		6-Sep-88		211PLNC		300.		6		50.		1.	DOMESTIC			M:64217
10N 20W 15 CBAADB	16-Dec-96	17-Feb-87	Y	120SDMS	3310	62R	3248R	6	50R	33.37	3276.6	10.	DOMESTIC			M:64208
10N 20W 15 CBAADB	30-Mar-98	17-Feb-87	Y	120SDMS	3310	60.4	3250	6		34.27	3275.7	5.	DOMESTIC		30-Mar-98	M:64208
10N 20W 15 DA 01		6-Oct-92		110ALVM		39.		6	34.	18.		40.	DOMESTIC			M:130929
10N 20W 15 DAABB	16-Dec-96	28-Jun-95	Y	120SDMS	3280	150R	3130R	6		20.08	3259.9	20.	DOM/COMM			M:151174
10N 20W 15 DAABB	23-Jul-97	28-Jun-95	Y	120SDMS	3280	150R	3130R	6		9.42	3270.6	13.6	DOM/COMM		23-Jul-97	M:151174
10N 20W 15 DAADA	17-Dec-96		Y		3265	20.6	3244			16.65	3248.4		DOMESTIC			
10N 20W 15 DB 01		20-Apr-93		110ALVM		36.		6	31.	16.		20.	DOMESTIC			M:134525
10N 20W 15 DBAA 01		1-Jan-80			3310					29.2R	3281R		DOMESTIC			M:136609

R = reported value

Florence-area ground-water inventory data

LOCATION	DATE INVENTORIED	DATE DRILLED	PUMP?	GEOLOGIC SOURCE	SURFACE ELEVATION (ft)	TOTAL DEPTH (ft)	BOTTOM ELEVATION (ft)	CASING DIAMETER (in)	PUMPING WATER LEVEL (ft)	STATIC WATER LEVEL (ft)	WATER LEVEL ELEVATION (ft)	PUMPING RATE, Q (gpm)	USE	SAMPLE TAKEN	SAMP DATE	GWIC SITE NUMBER
10N 20W 15 DBB 01		29-Apr-93		120SDMS		100.		6		46.		5.	DOMESTIC			M:134616
10N 20W 15 DBBD	1-May-98		Y	120SDMS	3340	60.	3280	6				6.	DOMESTIC		1-May-98	M:130928
10N 20W 15 DBC 01		29-Apr-93		120SDMS		60.		6		35.		15.	DOMESTIC			M:134720
10N 20W 15 DCD 01		24-Feb-81		120SDMS		60.		6	55.	30.		12.	UNKNOWN			M:64218
10N 20W 15 DCD 01		19-Feb-81				580.		6	300.	20.		1.	UNKNOWN			M:64219
10N 20W 15 DDD 01		3-Jun-71		110ALVM		35.		6	15.	2.		50.	DOMESTIC			M:64220
10N 20W 23 ACADD	7-Jan-97	1991?	Y	110ALVM	3215	36R	3179R	6		4.26	3210.7		DOMESTIC			
10N 20W 23 BABDBB	7-Jan-97		Y	110ALVM	3224	50R	3174R	6	45R	9.3	3214.7	30R	DOMESTIC			M:64305

Appendix D

Ground-water quality data

Florence-area ground-water parameters

LOCATION	GEOLOGIC SOURCE	SAMPLE SOURCE	MBMG QW #	SITE NO	SAMPLE DATE	TDS CALCULATED (mg/L)	TDS SUM OF DIS CONST (mg/L)	FLD SC (µmho/cm)	LAB SC (µmho/cm)	FIELD pH	LAB pH	HRDNS AS CaCO3 (mg/L)	ALK AS CaCO3 (mg/L)	RYZNAR STABILITY INDEX	LANGELIER SATURATION INDEX	SAR	AIR TEMP (deg C)	WATER TEMP (deg C)
10N 20W 02 CDBABC	120SDMS	WELL	98Q0858	M:63933	29-Mar-98	109	145	150	139	6.5	6.7	45	58	10.5	-1.9	0.7		8.0
10N 20W 02 DBACBD	120SDMS	WELL	98Q0855	M:124587	30/03/98	69	89	107	109	6.3	5.7	37	33	12.1	-3.2	0.2		
10N 20W 03 DADDCC	120SDMS	WELL	98Q0872	M:63950	29-Mar-98	119	158	147	152	6.4	6.1	49	64	10.9	-2.4	0.7		7.9
10N 20W 10 AADDBC	120SDMS	WELL	98Q0211	M:162429	21-Aug-97	51	68	63	67	6.6	6.4	22	26	12.1	-2.8	0.3	22	9.0
10N 20W 10 ADACCA	120SDMS	WELL	98Q0062	M:132280	24-Jul-97	53	65	63	75	5.9	6.1	22	21	12.6	-3.2	0.3	23	10.5
10N 20W 10 ADCB	120SDMS	WELL	98Q0861	M:123152	30-Mar-98	47	58	65	65	6.3	5.5	19	18	13.4	-4.0	0.3		9.3
10N 20W 10 ADCC	120SDMS	WELL	98Q0856	M:157453	16-Apr-98	110	151	148	150	6.3	6.6	54	66	10.2	-1.8	0.6		
10N 20W 10 BADD0	120SDMS	WELL	98Q0868	M:139841	31-Mar-98	39	47	50	52	6.3	5.4	13	13	14.1	-4.3	0.4		8.3
10N 20W 10 BBDB	120SDMS	WELL	98Q0857	M:63977	30-Mar-98	23	27	29	32	6.3	5.7	8	7	14.8	-4.6	0.3		5.8
10N 20W 10 BDDA	120SDMS	WELL	80Q0912	M:5808	23-Jun-80	83	110	97	88	7.0	7.0	29	43	10.8	-1.9	0.6		11.5
10N 20W 10 CACC	120SDMS	WELL	98Q0865	M:63988	28-Mar-98	32	42	48	7	6.6	5.5	13	16	13.8	-4.2	0.3		9.3
10N 20W 10 CACC	120SDMS	WELL	94Q0919	M:63988	10-Mar-94	38	52	46	53	6.5	6.2	19	23	12.6	-3.2	0.3		6.1
10N 20W 10 DC-AA	120SDMS	WELL	98Q0905	M:166832	2-May-98	87	111	90	92	7.3	6.1	27	38	11.9	-2.9	0.5		10.4
10N 20W 10 DCBDB	120SDMS	WELL	98Q0059	M:161808	24-Jul-97	39	48	38	45	5.9	7.5	12	14	12.2	-2.4	0.3	20	11.5
10N 20W 11 ABADBC	120SDMS	WELL	98Q0867	M:123569	28-Mar-98	63	82	100	96	6.5	5.9	31	30	12.1	-3.1	0.3		10.2
10N 20W 11 ACBDD	120SDMS	WELL	97Q0791	M:64023	22-May-97	76	101	100	93	6.4	6.4	36	41	11.3	-2.4	0.5	14	11.0
10N 20W 11 ACCBA	120SDMS	WELL	97Q0804	M:64025	23-May-97	79	101	101	95	6.5	6.6	38	35	11.2	-2.3	0.5	19	12.5
10N 20W 11 ACCBA	120SDMS	WELL	98Q0909	M:64025	4-May-98	76	99	93	96	7.0	6.5	33	39	11.3	-2.4	0.5		11.9
10N 20W 11 ACCBAD	120SDMS	WELL	98Q0910	M:130921	1-May-98	79	103	110	111	6.6	6.4	31	40	11.5	-2.5	0.5		14.2
10N 20W 11 ADCACC	120SDMS	WELL	97Q0799	M:64032	21-May-97	133	156	261	222	5.7	6.1	89	38	11.0	-2.4	0.5	20	13.5
10N 20W 11 BADCDD	120SDMS	WELL	98Q0864	M:136269	28-Mar-98	55	66	94	97	6.4	5.5	25	19	13.1	-3.8	0.4		5.1
10N 20W 11 BCDACD	120SDMS	WELL	97Q0801	M:64049	22-May-97	70	82	94	90	6.0	6.1	32	20	12.3	-3.1	0.4	26	9.5
10N 20W 11 BDAAB	120SDMS	WELL	97Q0789	M:157711	22-May-97	66	87	83	83	6.4	6.5	30	34	11.5	-2.5	0.5	22	10.5
10N 20W 11 BDADD	120SDMS	WELL	98Q0658	M:165710	17-Dec-97	67	89	67	76	6.9	6.5	30	36	11.5	-2.5	0.4		9.0
10N 20W 11 BDADD	120SDMS	WELL	98Q0898	M:166833	1-May-98	65	84	90	91	6.6	5.7	30	31	12.4	-3.4	0.4		9.5
10N 20W 11 BDADD	120SDMS	WELL	98Q0898	M:166833	8-Apr-98													
10N 20W 11 BCADA	120SDMS	WELL	98Q0853	M:160354	29-Mar-98	70	95	101	99	6.5	6.1	32	41	11.7	-2.8	0.5		
10N 20W 11 CBCBCA	120SDMS	WELL	98Q0866	M:136423	29-Mar-98	52	64	55	56	6.4	5.8	15	19	13.3	-3.8	0.5		10.5
10N 20W 11 CBDCA	120SDMS	WELL	98Q0863	M:147580	28-Mar-98	45	55	55	54	6.4	5.8	15	17	13.4	-3.8	0.4		10.5
10N 20W 11 CBDAA	120SDMS	WELL	98Q0900	M:166835	2-May-98	56	68	82	85	6.3	5.5	23	18	13.3	-3.9	0.4		10.7

Florence-area ground-water parameters

LOCATION	GEOLOGIC SOURCE	SAMPLE SOURCE	MBMG QW #	SITE NO	SAMPLE DATE	TDS CALCULATED (mg/L)	TDS SUM OF DIS CONST (mg/L)	FLD SC (µmho/cm)	LAB SC (µmho/cm)	FIELD pH	LAB pH	HRDNS AS CaCO3 (mg/L)	ALK AS CaCO3 (mg/L)	RYZNAR STABILITY INDEX	LANGELIER SATURATION INDEX	SAR	AIR TEMP (deg C)	WATER TEMP (deg C)
10N 20W 11 CCCAAB	120SDMS	WELL	97Q0809	M:64067	22-May-97	58	72	59	56	6.2	6.5	21	23	12.1	-2.8	0.4	26	11.0
10N 20W 11 CDCD 01	120SDMS	WELL	80Q2175	M:5809	28-Aug-80	226	285	184	214	7.9	7.9	77	95	8.5	-0.3	0.7		12.2
10N 20W 11 CDCD 01	120SDMS	WELL	80Q2176	M:5809	29-Aug-80	102	119	55	65	7.3	7.3	21	28	11.3	-2.0	0.5		10.0
10N 20W 11 CDCD 01	120SDMS	WELL	94Q0917	M:5809	10-Mar-94	96	129	106	112	6.6	6.7	33	53	10.9	-2.1	0.7		11.3
10N 20W 11 CDDCBC	120SDMS	WELL	97Q0808	M:64077	23-May-97	74	93	74	85	6.6	6.8	27	30	11.5	-2.4	0.5	14	12.0
10N 20W 11 DBAB	120SDMS	WELL	98Q0657	M:163262	27-Dec-97	100	122	94	101	6.6	6.5	35	37	11.4	-2.5	0.5		11.4
10N 20W 11 DBCAB 0	120SDMS	WELL	98Q0056	M:64010	24-Jul-97	72	86	104	111	6.3	7.7	35	24	10.7	-1.5	0.4	13	20.0
10N 20W 11 DBCCA	120SDMS	WELL	98Q0065	M:161812	24-Jul-97	66	80	88	159	6.4	6.4	28	24	12.1	-2.9	0.4	28	13.0
10N 20W 11 DBDAC	110ALVM	WELL	98Q0904	M:166834	3-May-98	60	73	90	90	6.5	5.6	25	20	13.1	-3.8	0.4		11.1
10N 20W 11 DCBCBB	120SDMS	WELL	97Q0802	M:64082	23-May-97	50	61	57	50	6.4	6.4	20	18	12.5	-3.0	0.3	22	12.5
10N 20W 11 DCCAD 0	120SDMS	WELL	97Q0806	M:147581	21-May-97	60	73	76	70	6.6	6.4	24	21	12.3	-2.9	0.4	26	12.0
10N 20W 14 ABCAC	120SDMS	WELL	98Q0869	M:166186	29-Mar-98	75	92	113	112	6.5	5.7	31	27	12.4	-3.4	0.5		10.5
10N 20W 14 BAAABC	120SDMS	WELL	97Q0794	M:160811	21-May-97	59	72	66	62	5.9	6.2	23	22	12.6	-3.2	0.4	21	12.0
10N 20W 14 BADBB	120SDMS	WELL	97Q0793	M:160812	21-May-97	95	117	147	134	6.1	6.2	51	36	11.4	-2.6	0.6	23	12.0
10N 20W 14 BACAAB	120SDMS	WELL	98Q0907	M:160812	1-May-98	71	90	107	111	6.4	5.6	27	30	12.6	-3.5	0.6		11.2
10N 20W 14 BACBAC	120SDMS	WELL	98Q0903	M:64178	2-May-98	77	99	110	112	6.5	5.7	35	36	12.2	-3.2	0.5		11.0
10N 20W 14 BACCBA	120SDMS	WELL	97Q0790	M:160813	21-May-97	79	99	111	99	6.1	6.3	44	33	11.4	-2.6	0.4	21	11.5
10N 20W 14 BACCCC	120SDMS	WELL	98Q0061	M:161813	24-Jul-97	69	87	90	112	6.3	6.9	34	29	11.2	-2.2	0.4	28	13.0
10N 20W 14 BACDD	120SDMS	WELL	98Q0860	M:166187	31-Mar-98	60	75	83	86	6.3	5.8	26	24	-557.5	566.7	0.4		10.9
10N 20W 14 BBBBAA	120SDMS	WELL	97Q0803	M:149658	22-May-97	97	126	103	96	6.7	6.8	40	47	10.6	-1.9	0.6	20	11.0
10N 20W 14 BBDCBC	120SDMS	WELL	97Q0798	M:64187	21-May-97	94	123	121	132	6.3	6.5	52	46	10.8	-2.1	0.3	26	12.0
10N 20W 14 BBDDCC	120SDMS	WELL	98Q0055	M:128934	24-Jul-97	79	101	113	146	6.0	7.6	42	37	10.2	-1.3	0.4	14	10.0
10N 20W 14 BCABC 0	120SDMS	WELL	80Q0911	M:5814	23-Jun-80	64	84	64	83	6.7	6.7	30	33	11.3	-2.3	0.3		11.0
10N 20W 14 BCABCA	120SDMS	WELL	97Q0805	M:130926	23-May-97	74	94	96	96	6.1	6.3	40	33	11.5	-2.6	0.3	27	10.0
10N 20W 14 BCDC	110ALVM	WELL	98Q0862	M:166185	31-Mar-98	40	50	60	61	6.4	5.6	17	17	13.4	-3.9	0.3		7.8
10N 20W 14 CBABBB	110ALVM	WELL	97Q0800	M:160815	21-May-97	96	132	132	119	6.5	6.6	65	58	10.2	-1.8	0.3	21	10.0
10N 20W 14 CBCDA	120SDMS	WELL	98Q0902	M:121919	2-May-98	89	126	148	159	6.5	6.1	53	59	10.9	-2.4	0.3		10.8
10N 20W 14 CCDA 0	120SDMS	WELL	98Q0899	M:64163	2-May-98	62	80	897	87	6.4	5.7	33	30	12.4	-3.4	0.2		11.4
10N 20W 15 AABAA	120SDMS	WELL	98Q0207	M:156450	21-Aug-97	61	80	69	77	6.3	6.2	24	30	12.1	-2.9	0.4	27	10.0
10N 20W 15 ACADB	120SDMS	WELL	98Q0859	M:166188	31-Mar-98	138	188	177	186	6.3	6.2	70	81	10.3	-2.1	0.4		

Florence-area ground-water parameters

LOCATION	GEOLOGIC SOURCE	SAMPLE SOURCE	MBMG QW #	SITE NO	SAMPLE DATE	TDS CALCULATED (mg/L)	TDS SUM OF DIS CONST (mg/L)	FLD SC (µmho/cm)	LAB SC (µmho/cm)	FIELD pH	LAB pH	HRDNS AS CaCO3 (mg/L)	ALK AS CaCO3 (mg/L)	RYZNAR STABILITY INDEX	LANGELIER SATURATION INDEX	SAR	AIR TEMP (deg C)	WATER TEMP (deg C)
10N 20W 15 ACBBCC	211PLNC	WELL	98Q0906	M:64209	3-May-98	544	797	622	985	8.6	7.9	45	409	7.6	0.1	10.6		11.0
10N 20W 15 CBAADB	120SDMS	WELL	98Q0854	M:64208	30-Mar-98	108	151	170	171	6.3	6.2	69	70	10.4	-2.1	0.3		10.9
10N 20W 15 DAAAB 0	120SDMS	WELL	98Q0066	M:151174	23-Jul-97	127	176	178	222	7.0	7.1	84	79	9.3	-1.1	0.3		13.0
10N 20W 15 DBBD	120SDMS	WELL	98Q0908	M:130928	1-May-98	236	345	432	456	6.8	6.8	169	175	8.3	-0.7	0.5		9.0

Florence-area ground-water major ions

LOCATION	GEOLOGIC SOURCE	SAMPLE SOURCE	MBMG QW #	SITE NO	SAMPLE DATE	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	Fe (mg/L)	Mn (mg/L)	SiO2 (mg/L)	HCO3 (mg/L)	CO3 (mg/L)	Cl (mg/L)	SO4 (mg/L)	NO3 as N (mg/L)	F (mg/L)	PO4 (mg/L)
10N 20W 02 CDBABC 01	120SDMS	WELL	98Q0858	M:63933	29-Mar-98	12.3	3.4	10.6	1.0	0.018	0.002	41.8	70		1.6	3.6	<.25	0.24	<.05
10N 20W 02 DBACBD	120SDMS	WELL	98Q0855	M:124587	30/03/98	10.6	2.6	3.3	3.6	0.008	0.002	20.9	41	0	1.4	4.9	1.10	<.05	0.07
10N 20W 03 DADDC01	120SDMS	WELL	98Q0872	M:63950	29-Mar-98	13.7	3.6	10.8	0.9	0.068	<.001	45.8	78		1.7	3.6	<.25	0.09	<.05
10N 20W 10 AADDBC	120SDMS	WELL	98Q0211	M:162429	21-Aug-97	6.3	1.5	3.3	0.7	0.127	0.005	19.6	32		0.9	3.4	<.25		<.05
10N 20W 10 ADACCA 01	120SDMS	WELL	98Q0062	M:132280	24-Jul-97	6.5	1.5	3.5	0.9	<.003	<.002	20.8	25		2.2	3.8	0.87		<.05
10N 20W 10 ADCB	120SDMS	WELL	98Q0861	M:123152	30-Mar-98	5.7	1.2	3.4	1.1	0.030	0.005	21.2	22		2.6	<.25	0.55	0.05	<.05
10N 20W 10 ADCC	120SDMS	WELL	98Q0856	M:157453	16-Apr-98	16.0	3.5	9.5	1.3	0.016	0.011	35.8	80	0	1.0	3.3	<.25	0.16	<.05
10N 20W 10 BADDD 01	120SDMS	WELL	98Q0868	M:139841	31-Mar-98	4.1	0.8	3.1	1.0	0.120	0.005	17.5	16		0.8	3.3	0.43	<.05	<.05
10N 20W 10 BBDB 01	120SDMS	WELL	98Q0857	M:63977	30-Mar-98	2.3	0.4	1.7	0.4	<.005	0.001	10.4	9		<.5	3.3	<.25	<.05	<.05
10N 20W 10 BDDA 01	120SDMS	WELL	80Q0912	M:5808	23-Jun-80	8.5	2.0	7.3	1.5	<.010	<.010	32.7	53		0.6	3.8	0.44	0.17	
10N 20W 10 CACC 01	110ALVM	WELL	98Q0865	M:63988	28-Mar-98	3.6	0.9	2.6	0.4	<.005	<.001	14.5	20		<.05	<.25	<.25	<.05	<.05
10N 20W 10 CACC 01	110ALVM	WELL	94Q0919	M:63988	10-Mar-94	5.1	1.6	2.5	0.6	0.003	<.002	14.4	28		<.2	<.1	<.05	0.04	<.15
10N 20W 10 DCAA	120SDMS	WELL	98Q0905	M:166832	2-May-98	7.5	2.0	6.4	0.7	0.007	0.001	43.7	46		0.6	3.7	<.25	0.08	<.05
10N 20W 10 DCBDB	120SDMS	WELL	98Q0059	M:161808	24-Jul-97	3.1	1.1	2.6	1.0	0.090	0.005	18.0	17		0.4	4.4	0.05		<.05
10N 20W 11 ABADBC 01	120SDMS	WELL	98Q0867	M:123569	28-Mar-98	9.0	2.1	4.1	0.9	<.005	0.001	22.4	37		1.8	3.0	1.61	0.08	<.05
10N 20W 11 ACBDD 01	120SDMS	WELL	97Q0791	M:64023	22-May-97	10.1	2.5	7.1	1.0	0.107	<.004	25.2	50		2.1	2.8	0.90		<.1
10N 20W 11 ACCBA 01	120SDMS	WELL	97Q0804	M:64025	23-May-97	10.6	2.8	7.3	1.1	<.003	<.004	29.1	43		2.9	3.9	0.54		<.05
10N 20W 11 ACCBA 01	120SDMS	WELL	98Q0909	M:64025	4-May-98	9.3	2.4	6.6	1.2	<.005	<.001	26.9	47		1.6	3.9	0.45	<.05	<.05
10N 20W 11 ACCBAD 01	120SDMS	WELL	98Q0910	M:130921	1-May-98	8.5	2.3	6.2	1.1	<.005	0.005	27.3	49		3.3	4.7	1.08	<.05	<.05
10N 20W 11 ADCACC 01	120SDMS	WELL	97Q0799	M:64032	21-May-97	22.8	7.8	10.8	2.2	<.003	<.004	26.8	46		19.7	11.6	8.30		<.1
10N 20W 11 BADCDD 01	120SDMS	WELL	98Q0864	M:136269	28-Mar-98	7.2	1.8	4.4	3.6	0.115	0.190	14.5	23		3.4	6.7	1.40	<.05	<.05
10N 20W 11 BCDACD 01	120SDMS	WELL	97Q0801	M:64049	22-May-97	8.9	2.3	5.6	1.8	0.015	<.004	23.2	25		6.7	7.2	1.80		<.1
10N 20W 11 BDAAB 01	120SDMS	WELL	97Q0789	M:157711	22-May-97	8.4	2.1	5.8	1.1	0.012	0.059	22.7	42		1.5	3.4	0.60		<.1
10N 20W 11 BDADD	120SDMS	WELL	98Q0658	M:166833	17-Dec-97	8.4	2.1	4.6	0.9	0.017	<.001	23.2	43	0	1.6	4.2	0.53	0.07	<.05
10N 20W 11 BDADD	120SDMS	WELL	98Q0898	M:166833	1-May-98	8.3	2.1	4.6	1.0	0.058	<.001	23.8	38		1.7	4.1	0.61	<.05	<.05
10N 20W 11 BCADA	120SDMS	WELL	98Q0853	M:160354	29-Mar-98	9.2	2.2	6.6	10.7	0.099	0.005	25.4	49	0	0.8	<.25	<.25	0.05	<.05
10N 20W 11 CBCBCA 01	120SDMS	WELL	98Q0866	M:136423	29-Mar-98	4.4	1.0	4.0	0.9	<.005	<.001	26.8	24		<.5	2.9	<.25	<.05	<.05
10N 20W 11 CBDCA	120SDMS	WELL	98Q0863	M:147580	28-Mar-98	4.2	1.1	3.8	1.0	<.005	<.001	23.1	21		0.9	<.25	0.27	<.05	<.05
10N 20W 11 CBDAA	120SDMS	WELL	98Q0900	M:166835	2-May-98	6.1	2.0	4.8	1.6	0.022	0.004	20.2	22	0	4.8	4.3	1.60	<.05	<.05
10N 20W 11 CCCAAB 01	120SDMS	WELL	97Q0809	M:64067	22-May-97	6.0	1.4	4.2	0.9	<.003	<.004	27.7	28		0.5	3.6	0.28		<.05
10N 20W 11 CDCD 01	120SDMS	WELL	80Q2175	M:5809	28-Aug-80	20.9	6.1	14.4	2.0	0.110	0.150	41.3	116	0	73.4	10.0	0.19	0.08	
10N 20W 11 CDCD 01	120SDMS	WELL	80Q2176	M:5809	29-Aug-80	5.9	1.5	5.0	0.9	0.160	0.012	31.9	34		36.1	3.5	0.13	0.01	
10N 20W 11 CDCD 01	120SDMS	WELL	94Q0917	M:5809	10-Mar-94	9.1	2.6	9.0	1.6	0.447	0.051	40.8	64		0.2	<.1	0.30	0.21	<.15
10N 20W 11 CDDCBC 01	120SDMS	WELL	97Q0808	M:64077	23-May-97	7.5	2.1	5.9	1.1	0.124	0.007	34.9	37		0.8	3.2	0.43		<.05

Florence-area ground-water major ions

LOCATION	GEOLOGIC SOURCE	SAMPLE SOURCE	MBMG QW #	SITE NO	SAMPLE DATE	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	Fe (mg/L)	Mn (mg/L)	SiO2 (mg/L)	HCO3 (mg/L)	CO3 (mg/L)	Cl (mg/L)	SO4 (mg/L)	NO3 as N (mg/L)	F (mg/L)	PO4 (mg/L)
10N 20W 11 DBAB	120SDMS	WELL	98Q00657	M:163262	9-Feb-98	9.1	3.0	6.5	1.2	<0.005	0.001	46.4	45	0	4.6	4.3	2.45	<0.05	<0.05
10N 20W 11 DBCAB 01	120SDMS	WELL	98Q00056	M:64010	24-Jul-97	8.6	3.3	5.3	1.6	<0.003	0.005	24.6	29		6.2	4.8	2.80		<0.05
10N 20W 11 DBCCA	120SDMS	WELL	98Q00065	M:161812	24-Jul-97	7.3	2.3	5.3	1.1	0.008	0.003	25.5	29		3.7	4.1	1.80		<0.05
10N 20W 11 DBDAC	110ALVM	WELL	98Q00904	M:166834	3-May-98	6.8	2.1	4.1	1.4	<0.005	<0.001	23.5	24		4.7	4.4	1.85	<0.05	<0.05
10N 20W 11 DCBCBB 01	120SDMS	WELL	97Q00802	M:64082	23-May-97	5.5	1.6	3.3	1.1	<0.003	<0.004	22.2	22		2.3	3.0	0.50		<1
10N 20W 11 DCCAD 01	120SDMS	WELL	97Q00806	M:147581	21-May-97	6.0	2.3	4.7	1.1	<0.003	<0.004	23.4	25		4.7	4.4	1.40		<0.05
10N 20W 14 ABCAC	120SDMS	WELL	98Q00869	M:166186	29-Mar-98	8.9	2.1	6.8	1.2	<0.005	<0.001	23.2	33		4.5	9.4	2.44	0.07	<0.05
10N 20W 14 BAAABC	120SDMS	WELL	97Q00794	M:160811	21-May-97	5.7	2.1	4.3	1.0	0.034	<0.004	24.3	26		1.8	5.3	1.06		<1
10N 20W 14 BADBB	120SDMS	WELL	97Q00793	M:160812	21-May-97	12.7	4.6	9.7	1.3	0.015	<0.004	27.4	44		6.2	5.3	5.50		<1
10N 20W 14 BADBD	120SDMS	WELL	98Q00907	M:160812	1-May-98	7.1	2.4	7.0	1.3	0.007	<0.001	25.0	36		2.0	7.4	1.35	<0.05	<0.05
10N 20W 14 BACBAC 01	120SDMS	WELL	98Q00903	M:64178	2-May-98	9.2	2.9	6.4	1.3	<0.005	<0.001	27.3	43		1.6	5.4	1.15	<0.05	<0.05
10N 20W 14 BACCBA	120SDMS	WELL	97Q00790	M:160813	21-May-97	11.9	3.5	5.3	1.0	<0.003	0.047	25.2	40		4.4	4.4	3.03		<1
10N 20W 14 BACCCC	120SDMS	WELL	98Q00061	M:161813	24-Jul-97	8.7	2.9	4.9	1.1	0.006	0.003	23.4	36		2.4	5.9	1.80		<0.05
10N 20W 14 BACDD	120SDMS	WELL	98Q00860	M:166187	31-Mar-98	7.1	2.1	4.5	1.1	0.006	<0.001	22.8	29		1.2	6.1	1.01	<0.05	<0.05
10N 20W 14 BBBBAA 01	120SDMS	WELL	97Q00803	M:149658	22-May-97	11.1	2.9	8.2	0.7	<0.003	<0.004	41.1	57		0.9	3.8	0.22		<1
10N 20W 14 BBDCBC 01	120SDMS	WELL	97Q00798	M:64187	21-May-97	14.1	4.0	5.5	0.6	<0.003	<0.004	32.1	56		4.0	4.7	1.60		<1
10N 20W 14 BBDDCC 01	120SDMS	WELL	98Q00055	M:128934	24-Jul-97	11.4	3.3	6.1	1.1	<0.003	<0.002	23.6	45		2.8	5.3	2.80		<0.05
10N 20W 14 BCABC 01	120SDMS	WELL	80Q0911	M:5814	23-Jun-80	8.4	2.3	3.4	1.3	<0.01	<0.01	22.7	40		0.8	3.5	1.72		0.20
10N 20W 14 BCABCA 01	120SDMS	WELL	97Q00805	M:130926	23-May-97	10.7	3.3	4.8	1.3	<0.003	<0.004	24.4	41		1.8	6.1	1.10		<0.05
10N 20W 14 BCDC	110ALVM	WELL	98Q00862	M:166185	31-Mar-98	4.9	1.3	3.0	1.0	0.036	0.005	13.8	20		1.3	4.1	0.35	<0.05	<0.05
10N 20W 14 CBABBB	110ALVM	WELL	97Q00800	M:160815	21-May-97	19.3	4.1	5.1	0.7	<0.003	<0.004	24.5	71		1.8	4.8	0.81		<1
10N 20W 14 CBCDA 01	120SDMS	WELL	98Q00902	M:121919	2-May-98	45.8	3.4	5.2	1.2	<0.005	<0.001	20.0	72		2.9	4.4	0.78	<0.05	<0.05
10N 20W 14 CCDA 01	120SDMS	WELL	98Q00899	M:64163	2-May-98	8.7	2.7	2.9	1.2	<0.005	<0.001	21.8	36		1.6	4.3	0.73	<0.05	<0.05
10N 20W 15 AABAA	120SDMS	WELL	98Q00207	M:156450	21-Aug-97	7.1	1.5	4.8	0.7	0.023	0.006	25.0	336		0.7	2.8	0.34		<0.05
10N 20W 15 ACADB	120SDMS	WELL	98Q00859	M:166188	31-Mar-98	19.7	5.1	6.9	0.8	0.059	<0.002	55.4	98	0	0.9	<2.5	0.44	<0.05	<0.05
10N 20W 15 ACBBCC 01	211PLNC	WELL	98Q00906	M:64209	3-May-98	14.7	2.0	162.5	1.2	<0.005	0.001	12.2	499		26.7	71.9	<25	7.12	<0.05
10N 20W 15 CBAADB 01	120SDMS	WELL	98Q00854	M:64208	30-Mar-98	21.1	3.9	4.9	1.2	0.013	<0.001	28.4	85		1.7	4.3	0.52	0.09	<0.05
10N 20W 15 DAABB 01	120SDMS	WELL	98Q00066	M:151174	23-Jul-97	25.3	5.0	5.9	1.0	0.006	0.003	34.3	96		2.2	5.1	0.89		<0.05
10N 20W 15 DBBD	120SDMS	WELL	98Q00908	M:130928	1-May-98	47.3	12.3	13.9	1.4	0.020	<0.001	27.5	213	0	10.1	11.3	7.17	0.10	<0.05

Florence-area ground-water trace elements

LOCATION	GEOLOGIC SOURCE	SAMPLE SOURCE	MBMG QW #	SITE NO	SAMPLE DATE	Aluminum, Al (µg/L)	Antimony, Sb (µg/L)	Arsenic, As (µg/L)	Barium, Ba (µg/L)	Beryllium, Be (µg/L)	Boron, B (µg/L)	Bromide, Br (µg/L)	Cadmium, Cd (µg/L)	Chromium, Cr (µg/L)	Cobalt, Co (µg/L)	Copper, Cu (µg/L)	Lead, Pb (µg/L)	Lithium, Li (µg/L)	Molybdenum, Mo (µg/L)	Nickel, Ni (µg/L)	Nitrite, NO ₂ N (mg/L)	Total dissolved phosphorous, P (mg/L)	Selenium, Se (µg/L)	Silver, Ag (µg/L)	Strontium, Sr (µg/L)	Titanium, Ti (µg/L)	Vanadium, Va (µg/L)	Zinc, Zn (µg/L)	Zirconium, Zr (µg/L)
10N 20W 02 CDBABC 01	120SDMS	WELL	98Q0858	M:63933	29-Mar-98	<15	<2	1.14	82	<2	<30	<25	<2	<2	<2	10	<2	<50	<10	2.5	1.2	<1	<1	123	<10	<5	12	<5	
10N 20W 02 DBACBD	120SDMS	WELL	98Q0855	M:124587	30/03/98	<15	<2	<1	30	<2	<30	<25	<2	2.7	<2	17	<2	<50	<10	2.2	<1	<1	<1	85	<10	<5	127	<5	
10N 20W 03 DADDC0 01	120SDMS	WELL	98Q0872	M:63950	29-Mar-98	<15	<2	1.23	90	<2	<30	<25	<2	2.7	<2	<2	<2	<50	<10	2.5	1.	<1	<1	184	<10	<5	22	<5	
10N 20W 10 AADDBC	120SDMS	WELL	98Q0211	M:162429	21-Aug-97	<30	<3	<2	9	<2	<30	<25	<2	<2	<2	3	<2	<6	<10	<2	<2	<2	<1	59	<10	<5	7	<20	
10N 20W 10 ADAACA 01	120SDMS	WELL	98Q0062	M:132280	24-Jul-97	<30	<2	<1	12	<2	<30	<25	<2	<2	<2	<2	<2	<6	<10	<2	<2	<2	<1	73	<10	<5	31	<20	
10N 20W 10 ADCB	120SDMS	WELL	98Q0861	M:123152	30-Mar-98	<15	<2	<1	12	<2	<30	<25	<2	<2	<2	3	<2	<50	<10	<2	<2	<2	<1	66	<10	<5	4	<5	
10N 20W 10 ADCC	120SDMS	WELL	98Q0856	M:157453	16-Apr-98	<15	<2	<1	62	<2	<30	<25	<2	3.7	<2	4	<2	<50	<10	2.7	<2	<2	<1	184	<10	<5	157	<5	
10N 20W 10 BADD0 01	120SDMS	WELL	98Q0868	M:139841	31-Mar-98	<15	<2	<1	10	<2	<30	<25	<2	<2	<2	<2	<2	<50	<10	<2	0.	<1	<1	46	<10	<5	122	<5	
10N 20W 10 BBDB 01	120SDMS	WELL	98Q0857	M:63977	30-Mar-98	<15	<2	<1	5	<2	<30	<25	<2	<2	<2	6	<2	<50	<10	<2	0.	<1	<1	22	<10	<5	100	<5	
10N 20W 10 CACC 01	120SDMS	WELL	98Q0865	M:63988	28-Mar-98	<15	<2	<1	4	<2	<30	<25	<2	<2	<2	117	<2	<50	<10	<2	.2	<1	<1	26	<10	<5	13	<5	
10N 20W 10 CACC 01	120SDMS	WELL	94Q0919	M:63988	10-Mar-94	<15	<2	<1	3	<2	<30	<100	<2	<2	<2	47	<2	<6	<10	<2	<2	<1	<1	24	<10	<5	17	<20	
10N 20W 10 DCAA	120SDMS	WELL	98Q0905	M:166832	2-May-98	<15	<2	<1	26	<2	<30	<25	<2	<2	<2	31	<2	<5	<10	<2	<2	<1	<1	81	<10	<5	108	<5	
10N 20W 10 DCBDB	120SDMS	WELL	98Q0059	M:161808	24-Jul-97	73.2	<2	<1	10	<2	<30	<25	<2	<2	<2	4	<2	<6	<10	<2	<2	<2	<1	37	<10	<5	36	<20	
10N 20W 11 ABADBC 01	120SDMS	WELL	98Q0867	M:123569	28-Mar-98	<15	<2	<1	9	<2	<30	<25	<2	<2	<2	18	<2	<50	<10	<2	2.3	<1	<1	81	<10	<5	<2	<5	
10N 20W 11 ACBDD 01	120SDMS	WELL	97Q0791	M:64023	22-May-97	<30	<2	<1	9	<2	<100	<25	<2	<2	<2	<2	<2	<10	<10	<2	<2	<2	<1	90	<10	<5	13	<20	
10N 20W 11 ACCBA 01	120SDMS	WELL	97Q0804	M:64025	23-May-97	<30	<3	<2	19	<2	<30	<25	<2	<2	<2	<2	<2	<10	<10	<2	<2	<2	<1	96	<10	<5	<2	<20	
10N 20W 11 ACCBA 01	120SDMS	WELL	98Q0909	M:64025	4-May-98	<15	<2	<1	22	<2	<30	<25	<2	<2	<2	<2	<2	<5	<10	<2	<2	<1	<1	97	14	<5	48	<5	
10N 20W 11 ACCBAD 01	120SDMS	WELL	98Q0910	M:130921	1-May-98	<15	<2	<1	26	<2	<30	<25	<2	2.5	<2	4	<2	<5	<10	<2	<2	<1	<1	90	13	<5	45	<5	
10N 20W 11 ADCACC 01	120SDMS	WELL	97Q0799	M:64032	21-May-97	<30	<3	<2	48	<2	<30	<25	<2	2.2	<2	14	<2	<10	<10	3.6	<0.5	<2	<1	1.1	230	<10	<5	7	<20
10N 20W 11 BADCDD 01	120SDMS	WELL	98Q0864	M:136289	28-Mar-98	<15	<2	<1	34	<2	<30	<25	<2	<2	<2	6	<2	<50	<10	2.98	1.4	<1	<1	86	<10	<5	6	<5	
10N 20W 11 BCDADD 01	120SDMS	WELL	97Q0801	M:64049	22-May-97	<30	<3	<1	30	<2	<30	<25	<2	<2	<2	4	<2	<10	<10	<2	<0.5	<2	<1	81	<10	<5	18	<20	
10N 20W 11 BDAAB 01	120SDMS	WELL	97Q0789	M:157711	22-May-97	<80	<3	<10	<6	2.	<30	<25	<2	<2	2.5	<10	<2	<10	<20	<2	<0.5	<2	<1	75	<10	<5	41	<2	<20
10N 20W 11 BDADD	120SDMS	WELL	98Q0658	M:166833	17-Dec-97	<15	<2	<1	12	<2	<30	<25	<2	<2	<2	<2	<2	<5	<10	<2	<0.5	<1	<1	81	<10	<5	168	<5	
10N 20W 11 BDADD	120SDMS	WELL	98Q0898	M:166833	17-Dec-97	<15	<2	<1	12	<2	<30	<25	<2	<2	<2	<2	<2	<5	<10	<2	<0.5	<1	<1	81	<10	<5	168	<5	
10N 20W 11 BCADA	120SDMS	WELL	98Q0853	M:160354	29-Mar-98	<15	<2	<1	13	<2	<30	<25	<2	<2	<2	<2	<2	<50	<10	<2	<0.5	<1	<1	91	<10	<5	60	<5	
10N 20W 11 CBACA 01	120SDMS	WELL	98Q0866	M:136423	29-Mar-98	<15	<2	<1	10	<2	<30	<25	<2	<2	<2	57	<2	<50	<10	<2	.6	<1	<1	49	<10	<5	10	<5	
10N 20W 11 CBDBA	120SDMS	WELL	98Q0863	M:147580	28-Mar-98	<15	<2	<1	9	<2	<30	<25	<2	<2	<2	<2	<2	<50	<10	<2	.5	<1	<1	47	<10	<5	11	<5	
10N 20W 11 CBDAA	120SDMS	WELL	98Q0900	M:166835	22-May-97	<15	<2	<1	17	<2	<30	<25	<2	<2	<2	24	<2	<50	<10	<2	<2	<1	<1	74	<10	<5	42	<5	
10N 20W 11 CCCAAB 01	120SDMS	WELL	97Q0809	M:64067	22-May-97	<30	<3	<2	16	<2	<30	<25	<2	<2	<2	<2	<2	<10	<10	<2	<0.5	<2	<1	56	<10	<5	<2	<20	
10N 20W 11 CDCD 01	120SDMS	WELL	94Q0917	M:5809	10-Mar-94	<30	<3	<2	71	<2	<30	<100	<2	<2	<2	<2	<2	<6	<10	<2	<0.5	<2	<1	116	<10	<5	61	<20	
10N 20W 11 DDCBC 01	120SDMS	WELL	97Q0808	M:64077	23-May-97	<30	<3	<2	46	<2	<30	<25	<2	<2	<2	<2	<2	<10	<10	<2	<0.5	<2	<1	76	<10	<5	32	<20	
10N 20W 11 DBAB	120SDMS	WELL	98Q0657	M:163262	9-Feb-98	<30	<2	<1	15	<2	<30	<25	<2	<2	<2	47	3.3	<5	<10	2.7	<0.5	<1	<1	113	<10	<5	33	<5	
10N 20W 11 DBCAB 01	120SDMS	WELL	98Q0056	M:64010	24-Jul-97	<30	<2	<1	15	<2	<30	<25	<2	<2	<2	32	<2	<6	<10	<2	<2	<2	<1	101	<10	<5	6	<20	
10N 20W 11 DBCCA	120SDMS	WELL	98Q0065	M:161812	24-Jul-97	<30	<2	<1	11	<2	<30	<25	<2	<2	<2	32	<2	<6	<10	<2	<2	<2	<1	74	<10	<5	240	<20	
10N 20W 11 DBDAC	110ALVM	WELL	98Q0904	M:166834	3-May-98	<15	<2	<1	15	<2	<30	<25	<2	<2	<2	8	<2	<5	<10	<2	<2	<1	<1	71	<10	<5	24	<5	
10N 20W 11 DCBCBB 01	120SDMS	WELL	97Q0802	M:64082	23-May-97	<30	<3	<2	6	<2	<30	<25	<2	<2	<2	11	<2	<10	<10	<2	<2	<2	<1	53	<10	<5	<2	<20	
10N 20W 11 DCCAD 01	120SDMS	WELL	97Q0806	M:147581	21-May-97	<30	<3	<2	10	<2	<30	<25	<2	<2	<2	<2	<2	<10	<10	<2	<0.5	<2	<1	62	<10	<5	56	<20	
10N 20W 14 ABCAC	120SDMS	WELL	98Q0869	M:166186	29-Mar-98	<15	<2	<1	29	<2	<30	<25	<2	<2	<2	3	<2	<50	<10	<2	2.7	<1	<1	99	<10	<5	76	<5	
10N 20W 14 BAAABC	120SDMS	WELL	97Q0794	M:161811	21-May-97	<30	<3	<2	14	<2	<30	<25	<2	<2	<2	3	<2	<6	<10	<2	<0.5	<2	<1	62	<10	<5	21	<20	
10N 20W 14 BADD0 01	120SDMS	WELL	97Q0793	M:160812	21-May-97	<30	<3	<2	30	<2	<30	<25	<2	<2	<2	<2	<2	<10	<10	<30	<0.5	<2	<1	119	<10	<5	23	<20	
10N 20W 14 BADBB	120SDMS	WELL	98Q0907	M:160812	1-May-98	<15	<2	<1	41	<2	<30	<25	<2	2.5	<2	9	<2	<5	<10	<2	<0.5	<2	<1	78	<10	<5	280	<5	
10N 20W 14 BACBAC 01	120SDMS	WELL	98Q0903	M:64178	2-May-98	<15	<2	<1	41	<2	<30	<25	<2	<2	<2	8	<2	<5	<10	<2	<2	<1	<1	99	<10	<5	18	<5	
10N 20W 14 BACBBA	120SDMS	WELL	97Q0790	M:160813	21-May-97	<80	<10	<10	<6	7.9	<30	<25	<2	<2	<2	<2	<2	<10	<20	<2	<0.5	<2	<1	102	<10	<5	2	<20	
10N 20W 14 BACC00	120SDMS	WELL	98Q0061	M:161813	24-Jul-97	<30	<2	<1	19	<2	<30	<25	<2	<2	<2	<2	<2	<6	<10	<2	<2	<2	<1	89	<10	<5	7	<20	
10N 20W 14 BACDD	120SDMS	WELL	98Q0860	M:166187	31-Mar-98	<15	<2	<1	15	<2	<30	<25	<2	<2	<2	3	<2	<50	<10	<2	1.2	<1	<1	76	<10	<5	152	<5	
10N 20W 14 BBBBAA 01	120SDMS	WELL	97Q0803	M:1																									

Florence-area ground-water trace elements

LOCATION	GEOLOGIC SOURCE	SAMPLE SOURCE	MBMG QW #	SITE NO	SAMPLE DATE	Aluminum, Al (µg/L)	Antimony, Sb (µg/L)	Arsenic, As (µg/L)	Barium, Ba (µg/L)	Beryllium, Be (µg/L)	Boron, B (µg/L)	Bromide, Br (µg/L)	Cadmium, Cd (µg/L)	Chromium, Cr (µg/L)	Cobalt, Co (µg/L)	Copper, Cu (µg/L)	Lead, Pb (µg/L)	Lithium, Li (µg/L)	Molybdenum, Mo (µg/L)	Nickel, Ni (µg/L)	Nitrite, NO ₂ as N (mg/L)	Total dissolved phosphorous, P (mg/L)	Selenium, Se (µg/L)	Silver, Ag (µg/L)	Strontium, Sr (µg/L)	Titanium, Ti (µg/L)	Vanadium, Va (µg/L)	Zinc, Zn (µg/L)	Zirconium, Zr (µg/L)
10N 20W 14 BBDDCC 01	120SDMS	WELL	98Q0055	M:128934	24-Jul-97	<30	<2	<1	17	<2	<30	<25	<2	21.1	<2	<2	<2	<6	<10	<2		<2	<2	<1	117	<10	<5	60	<20
10N 20W 14 BCABCA 01	120SDMS	WELL	97Q0805	M:130926	23-May-97	<30	<3	<2	15	<2	<30	<25	<2	546.7	<2	<2	<2	>10	<10	<2		<2	>1	>1	90	>10	>5	10	>20
10N 20W 14 BCDC	110ALVM	WELL	98Q0862	M:166185	31-Mar-98	<15	<2	<1	8	<2	<30	<25	<2	<2	<2	4	<2	<50	<10	<2	.9	<1	<1	50	<10	<5	304	<5	
10N 20W 14 CBABBB	110ALVM	WELL	97Q0800	M:160815	21-May-97	<30	<3	<2	25	<2	<30	<25	<2	<2	<2	25	<2	<10	<10	<2	>.05	<2	<1	152	<10	<5	<2	<20	
10N 20W 14 CBCDA 01	120SDMS	WELL	98Q0902	M:121919	2-May-98	<15	<2	<1	22	<2	<30	<25	<2	2.2	<2	<2	<2	<5	<10	<2		<1	<1	186	<10	<5	88	<5	
10N 20W 14 CCDA 01	120SDMS	WELL	98Q0899	M:64163	2-May-98	<15	<2	<1	11	<2	<30	<25	<2	<2	<2	<2	<2	<5	<10	<2		<1	<1	111	19	<5	3	<5	
10N 20W 15 AABAA	120SDMS	WELL	98Q0207	M:156450	21-Aug-97	<30	<3	<2	21	<2	<30	<25	<2	2.8	<2	<2	<2	<6	<10	<2		<2	<1	70	>10	<5	151	>20	
10N 20W 15 ACADB	120SDMS	WELL	98Q0859	M:166188	31-Mar-98	<15	<2	<1	52	<2	<30	<25	<2	3.4	<2	13	<2	<50	<10	<2		<1	>1	181	<10	<5	30	<5	
10N 20W 15 ACBBCC 01	211PLNC	WELL	98Q0906	M:64209	3-May-98	<15	<2	5.7	20	<2	251	167	<2	13.2	<2	4	2.07	190	<10	<2		<1	<1	330	<10	<5	45	<5	
10N 20W 15 CBAADB 01	120SDMS	WELL	98Q0854	M:64208	30-Mar-98	<15	<2	<1	24	<2	<30	<25	<2	3.4	<2	3	<2	<50	<10	<2	.1	<1	<1	173	<10	<5	11	<5	
10N 20W 15 DAABB 01	120SDMS	WELL	98Q0066	M:151174	23-Jul-97	<30	<2	<1	35	<2	<30	<25	<2	<2	<2	3	<2	<6	<10	<2		<2	<2	223	<10	<5	30	<20	
10N 20W 15 DBBD	120SDMS	WELL	98Q0908	M:130928	1-May-98	<30	<2	<1	117	<2	<30	<25	<2	9.	<2	5	<2	25	<10	<2	4.8	<1	<1	503	17	<5	112	<5	

Appendix E

Driller's logs of water wells

DRILLER'S LOGS FROM
MBMG GROUND WATER INFORMATION CENTER DATABASE

WELL ID #..... M:63922
 LOCATION..... 10N 20W 02 AAA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 54.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 GRAY SANDY TOPSOIL
 1.0 2.5 1.5 TAN SAND WITH SMALL GRAVEL
 2.5 8.0 5.5 SAND GRAVEL COBBLESTONES AND BOULDERS
 8.0 27.0 19.0 COARSE TAN SILTY SAND AND SEEPS
 27.0 41.5 14.5 TAN SILTY SAND WITH CLAY MIXED IN. WATER.
 41.5 46.0 4.5 SILTY SAND AND GRAVEL
 46.0 54.0 8.0 CLEAN COARSE SAND AND GRAVEL WITH WATER.

WELL ID #..... M:145864
 LOCATION..... 10N 20W 02 ACB 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 76.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL
 1.0 76.0 75.0 SAND GRAVEL BOULDERS WATER BEARING 52-76'

WELL ID #..... M:156439
 LOCATION..... 10N 20W 02 ADD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 50.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 3.0 3.0 TOPSOIL
 3.0 43.0 40.0 RIVER SILT SMALL GRAVEL W.B.
 43.0 50.0 7.0 SAND AND GRAVEL W.B.

WELL ID #..... M:130944
 LOCATION..... 10N 20W 02 BAA 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 104.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 46.0 46.0 LOOSE DECOMPOSED GRANITE- GRAVEL
 46.0 56.0 10.0 LIGHT TAN CLAY
 56.0 85.0 29.0 INTERMITTENT VOLCANIC ASH & CLAY
 85.0 104.0 19.0 VOLCANIC ASH GRAVEL IMBEDDED. TAN. WATER BEARING.

WELL ID #..... M:164469
 LOCATION..... 10N 20W 02 BAA 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 422.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 80.0 80.0 ASH MIXED SAND & GRAVEL & BOULDERS
 80.0 419.0 339.0 DG MIXED SCHIST WB
 419.0 422.0 103.0 NATURAL PACK DG MIXED BLUE CLAY

WELL ID #..... M:152117
 LOCATION..... 10N 20W 02 BBD 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 383.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 80.0 80.0 SAND GRAVEL BOULDERS
 80.0 376.0 296.0 GREY MIXED CLAY DECOMPOSED GRANITE WATER BEARING
 376.0 383.0 7.0 NATURAL GRAVEL PACK

WELL ID #..... M:63930
 LOCATION..... 10N 20W 02 BDB 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 72.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 50.0 50.0 DECOMPOSED GRANITE
 50.0 60.0 10.0 SAND AND DECOMPOSED GRANITE
 60.0 72.0 12.0 GRAVEL WITH WATER

WELL ID #..... M:153643
 LOCATION..... 10N 20W 02 BDD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 56.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 56.0 56.0 SAND & GRAVEL & BOULDERS
 31.0 56.0 25.0 WATER BEARING

WELL ID #..... M:138451
 LOCATION..... 10N 20W 02 BDD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 49.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL
 1.0 24.0 23.0 ROCKS SAND & GRAVEL
 24.0 49.0 25.0 SAND & GRAVEL WATER BEARING

WELL ID #..... M:145865
 LOCATION..... 10N 20W 02 CDB 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 63.0
 FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 63.0 63.0 SAND GRAVEL BOULDERS WATER BEARING 40'-63'

WELL ID #..... M:63938
 LOCATION..... 10N 20W 03 ADA 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 222.8
 FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 BLACK TOPSOIL
 1.0 36.0 35.0 DECOMPOSED GRANITE SAND GRAVEL GRANITE BOULDERS
 36.0 37.0 1.0 WHITE CLAY GRAVEL
 37.0 54.0 17.0 SAND GRAVEL AND WATER
 54.0 100.0 46.0 WHITE CLAY GRAVEL AND WATER
 100.0 104.0 4.0 GRAVEL SAND AND WATER
 104.0 114.0 10.0 GREEN CLAY AND SAND
 114.0 116.0 2.0 WHITE CLAY SAND AND GRAVEL
 116.0 120.0 4.0 SAND AND WATER
 120.0 130.0 10.0 WHITE CLAY AND GRAVEL
 130.0 133.0 3.0 GRAVEL SAND AND WATER
 133.0 152.0 19.0 WHITE CLAY AND SAND
 152.0 164.0 12.0 GREEN CLAY SAND AND WATER
 164.0 174.0 10.0 GRAY CLAY SAND AND GRAVEL
 174.0 176.0 2.0 GREEN CLAY SAND AND WATER
 176.0 180.0 4.0 BROWN CLAY AND GRAVEL
 180.0 188.0 8.0 GRAY CLAY GRAVEL SAND AND WATER
 188.0 192.0 4.0 BLUE CLAY
 192.0 193.0 1.0 GRAVEL SAND AND WATER
 193.0 198.0 5.0 BLUE CLAY
 198.0 204.0 6.0 SAND GRAVEL AND WATER
 204.0 221.0 17.0 BLUE CLAY
 221.0 222.0 1.0 SAND AND WATER

WELL ID #..... M:63941
 LOCATION..... 10N 20W 03 BAA 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 228.0
 FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL
 1.0 154.0 153.0 SAND GRAVEL BOULDERS
 154.0 195.0 41.0 SAND GRAVEL AND BLUE CLAY
 195.0 228.0 33.0 SAND GRAVEL BOULDERS AND BLUE CLAY

WELL ID #..... M:63942
 LOCATION..... 10N 20W 03 BAB 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 200.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 50.0 50.0 SAND GRAVEL AND ROCKS
 50.0 125.0 75.0 WET SAND
 125.0 200.0 75.0 LAYERS OF CLAY ROCK AND GRAVEL

WELL ID #..... M:63943
 LOCATION..... 10N 20W 03 BAB 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 140.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 30.0 30.0 SAND GRAVEL BOULDERS
 30.0 60.0 30.0 SAND CLAY GRAVEL AND CLAY
 60.0 113.0 53.0 SANDY CLAY GRAVEL STRINGERS
 113.0 120.0 7.0 BROKEN ROCK GRAVEL AND WATER
 120.0 140.0 20.0 ROCK AND CLAY

WELL ID #..... M:63945
 LOCATION..... 10N 20W 03 BBB 01
 AQUIFER..... 211PLNC
 AQUIFER DESCRIPTION. PLUTONIC ROCKS (UPPER CRETACEOUS)
 TOTAL DEPTH..... 165.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 20.0 20.0 BOULDERS SAND AND GRAVEL
 20.0 165.0 145.0 GRANITE AND GRANITE ROCK

WELL ID #..... M:63946
 LOCATION..... 10N 20W 03 BCC 01
 AQUIFER..... 211PLNC
 AQUIFER DESCRIPTION. PLUTONIC ROCKS (UPPER CRETACEOUS)
 TOTAL DEPTH..... 84.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 49.0 49.0 SAND GRAVEL CLAY MIXED
 49.0 62.0 13.0 SATURATION TO WATER BEARING (6 GPM)
 62.0 84.0 22.0 BEDROCK WEATHER ZONE. WATER BEARING (4 GPM)
 62.0 84.0 22.0 DYNAMITE BLASTS 16' 19' AND 44'.

WELL ID #..... M:63947
 LOCATION..... 10N 20W 03 BCD 01
 AQUIFER..... 211PLNC
 AQUIFER DESCRIPTION. PLUTONIC ROCKS (UPPER CRETACEOUS)
 TOTAL DEPTH..... 80.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 15.0 15.0 SAND GRAVEL AND BROWN BOULDERS
 15.0 63.0 48.0 INTERMITTENT LAYERS OF CLAY AND SAND GRAVEL
 63.0 80.0 17.0 WEATHER ZONE. GRAY GRANITE BEDROCK. SATURATED.

WELL ID #..... M:152118
 LOCATION..... 10N 20W 10 ABD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 29.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 10.0 10.0 SAND GRAVEL BOULDERS
 10.0 29.0 19.0 SAND AND GRAVEL BOULDERS WATER BEARING

WELL ID #..... M:132280
 LOCATION..... 10N 20W 10 ACA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 49.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 38.0 38.0 ROCKS SAND & GRAVEL TIGHT PACKED WATER BEARING
 38.0 49.0 11.0 SAND CONGLOMERATE INTERMITTENT LARGE ROCKS TIGHT
 38.0 49.0 11.0 WATER BEARING

WELL ID #..... M:157453
 LOCATION..... 10N 20W 10 ACC 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 138.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 23.0 23.0 SAND GRAVEL BOULDERS
 23.0 57.0 34.0 CEMENTED SAND & GRAVEL BOULDERS WB
 57.0 79.0 22.0 CEMENTED SAND ROCKS CLAY LAYERS
 79.0 82.0 3.0 TAN CLAY
 82.0 121.0 39.0 ASH CEMENTED SAND WB
 121.0 134.0 13.0 TAN ASH
 134.0 137.0 3.0 SAND & GRAVEL WB
 137.0 138.0 1.0 TAN ASH

WELL ID #..... M:63981
 LOCATION..... 10N 20W 10 ACCB 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 39.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 18.0 18.0 SAND GRAVEL BOULDERS BROWN
 18.0 39.0 21.0 SAND AND GRAVEL BROWN WATER BEARING

WELL ID #..... M:154058
 LOCATION..... 10N 20W 10 ADA 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 200.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL BLACK
 1.0 26.0 25.0 SAND & GRAVEL BROWN
 26.0 45.0 19.0 CLAY & GRAVEL BROWN
 45.0 58.0 13.0 CLAY & SAND LT BROWN
 58.0 65.0 7.0 SAND & GRAVEL GRAY TRACE OF WATER
 65.0 190.0 125.0 CLAY & SAND BROWN
 190.0 200.0 10.0 SAND & GRAVEL BROWN WATER INCREASING TO 4 GPM

WELL ID #..... M:136268
 LOCATION..... 10N 20W 10 BAA 01
 AQUIFER..... 211PLNC
 AQUIFER DESCRIPTION. PLUTONIC ROCKS (UPPER CRETACEOUS)
 TOTAL DEPTH..... 330.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 90.0 90.0 D-G
 90.0 130.0 40.0 WEATHERED ROCK
 130.0 380.0 250.0 BROKEN ROCK W.B. CAVED BACK TO 330

WELL ID #..... M:63982
 LOCATION..... 10N 20W 10 BAB 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 37.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 37.0 37.0 SAND & GRAVEL- BOULDERS- BROWN WATER BEARING

WELL ID #..... M:63983
 LOCATION..... 10N 20W 10 BCCC 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 55.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 55.0 55.0 SAND GRAVEL BOULDERS BROWN WATER BEARING

WELL ID #..... M:63986
 LOCATION..... 10N 20W 10 BDCA 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 100.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 20.0 20.0 BOULDERS AND GRAVEL
 20.0 35.0 15.0 GRAVEL AND SAND
 35.0 45.0 10.0 SAND & CLAY
 45.0 50.0 5.0 SAND
 50.0 165.0 115.0 SANDY CLAY

WELL ID #..... M:63984
 LOCATION..... 10N 20W 10 BDCC 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 31.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 13.0 13.0 SAND GRAVEL CLAY BOULDERS BROWN
 13.0 28.0 15.0 SAND & GRAVEL WATER BEARING
 28.0 31.0 3.0 SAND GRAVEL CLAY MIX BROWN

WELL ID #..... M:5808
 LOCATION..... 10N 20W 10 BDDA 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 193.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 18.0 18.0 CLAY GRAVEL & BOULDERS
 18.0 54.0 36.0 CLAY GRAVEL SAND COBBLESTONES & WATER
 54.0 87.0 33.0 CLAY SAND & GRAVEL
 87.0 91.0 4.0 TAN CLAY SAND GRAVEL & WATER
 91.0 100.0 9.0 GRAY SANDY CLAY
 100.0 126.0 26.0 TAN CLAY AND GRAVEL
 126.0 133.0 7.0 BROWN SAND
 133.0 140.0 7.0 TAN CLAY SAND & GRAVEL
 140.0 145.0 5.0 GRAY CLAY SAND GRAVEL & WATER
 145.0 151.0 6.0 BROWN CLAY SAND & GRAVEL
 151.0 155.0 4.0 GRAY CLAY SAND GRAVEL & WATER
 155.0 159.0 4.0 SAND AND WATER
 159.0 176.0 17.0 GRAY CLAY SAND & GRAVEL
 176.0 178.0 2.0 GRAY CLAY SAND & WATER
 178.0 190.0 12.0 GRAY CLAY SAND & GRAVEL
 190.0 192.0 2.0 FINE SAND AND WATER
 192.0 193.0 1.0 COARSE SAND SMALL GRAVEL & WATER

WELL ID #..... M:63988
 LOCATION..... 10N 20W 10 CACC
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 50.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 10.0 10.0 SAND GRAVEL BOULDERS
 10.0 35.0 25.0 SAND GRAVEL BOULDERS W/ WATER
 35.0 50.0 15.0 SAND GRAVEL CLAY

WELL ID #..... M:63990
 LOCATION..... 10N 20W 10 CBCA 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 150.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 19.0 19.0 SAND GRAVEL BOULDERS
 19.0 74.0 55.0 SAND GRAVEL CLAY SATURATION
 74.0 150.0 76.0 SAND GRAVEL CLAY WATER BEARING

WELL ID #..... M:123159
 LOCATION..... 10N 20W 10 DCA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 44.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 2.0 2.0 TOPSOIL
 2.0 44.0 42.0 GRAVEL

WELL ID #..... M:136362
 LOCATION..... 10N 20W 10 DCAA 01
 AQUIFER..... 120SDMS
 211PLNC
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 PLUTONIC ROCKS (UPPER CRETACEOUS)
 TOTAL DEPTH..... 115.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 28.0 28.0 SAND & GRAVEL
 28.0 36.0 8.0 BROWN SANDY CLAY - SATURATED
 36.0 97.0 61.0 INTERMIT LAYERS OF SEDIMENTS & VOLCANIC ASH - TAN
 97.0 115.0 18.0 INTERMIT LAYERS OF SAND & GRAV - DECOMPOSED
 97.0 115.0 18.0 GRANITE - WATER BEARING

WELL ID #..... M:63996
 LOCATION..... 10N 20W 10 DCBD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 21.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL
 1.0 21.0 20.0 DECOMPOSED GRANITE SAND GRAVEL LARGE GLACIAL
 1.0 21.0 20.0 BOULDERS

WELL ID #..... M:63994
 LOCATION..... 10N 20W 10 DCBD 01
 AQUIFER..... 211PLNC
 AQUIFER DESCRIPTION. PLUTONIC ROCKS (UPPER CRETACEOUS)
 TOTAL DEPTH..... 112.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL
 1.0 13.0 12.0 CLAY AND BOULDERS
 13.0 34.0 21.0 YELLOW CLAY AND GRAVEL (SEEP OF WATER FROM 9' TO
 13.0 34.0 21.0 13' IN BOULDERS)
 34.0 112.0 78.0 GREY CLAY AND DECOMPOSED GRANITE

WELL ID #..... M:63995
 LOCATION..... 10N 20W 10 DCC 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 16.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL
 1.0 17.0 16.0 DECOMPOSED GRANITE. SAND GRAVEL AND LARGE
 BOULDERS

WELL ID #..... M:136382
 LOCATION..... 10N 20W 11 ABC 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 43.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 27.0 27.0 BOULDERS SAND AND GRAVEL
 27.0 43.0 16.0 CEMENTED SAND & GRAVEL CONGLOMERAT BOULDERS
 27.0 43.0 16.0 INTERMITTENT WATER BEARING

WELL ID #..... M:64025
 LOCATION..... 10N 20W 11 ACCB 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 44.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	17.3	17.3	BOULDERS SAND & GRAVEL
17.3	18.0	0.7	GRAVEL
18.0	22.0	4.0	BOULDERS SAND & GRAVEL
22.0	25.0	3.0	BROWN GRANITE SAND & GRAVEL
26.0	39.0	13.0	CLAY GRAVEL & BOULDERS
39.0	42.0	3.0	GRAVEL SAND & WATER

WELL ID #..... M:64028
 LOCATION..... 10N 20W 11 ACCC 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 52.7

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	10.0	10.0	GRAVEL AND COBBLESTONES
10.0	12.0	2.0	GRAVEL AND SEEP OF WATER
12.0	25.0	13.0	GRAVEL AND TAN CLAY
25.0	32.0	7.0	SANDY YELLOW CLAY
32.0	35.0	3.0	SAND GRAVEL & WATER
35.0	43.0	8.0	YELLOW CLAY AND SAND
43.0	48.0	5.0	SAND AND WATER
48.0	50.0	2.0	GRAVEL & WATER CLAY
50.0	52.8	2.8	SANDY CLAY AND GRAVEL

WELL ID #..... M:64026
 LOCATION..... 10N 20W 11 ACCC 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 71.9

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	28.0	28.0	GRAVEL BOULDERS & CLAY
28.0	30.0	2.0	GRAVEL AND BOULDERS
30.0	31.0	1.0	GOING INTO WATER IN GRANITE
31.0	35.5	4.5	WATER IN GRANITE AND BOULDERS
35.5	36.5	1.0	SANDY ROCKS WATER
36.5	42.0	5.5	MORE WATER IN GRANITE
42.0	44.0	2.0	LOST WATER SOME CLAY
44.0	47.5	3.5	WATER IN BROKEN GRANITE
47.5	50.0	2.5	CLAY NO WATER
50.0	52.0	2.0	WATER SAND GRANITE
52.0	58.0	6.0	WATER GRANITE
58.0	60.0	2.0	SOME SANDY WATER
60.0	64.0	4.0	CLAY SHUT OFF WATER
64.0	69.0	5.0	WATER GRANITE
69.0	70.0	1.0	CLAY AND BOULDERS

WELL ID #..... M:64027
 LOCATION..... 10N 20W 11 ACCC 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 63.4

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	1.0	1.0	TOPSOIL
1.0	25.0	24.0	CLAY GRAVEL & BOULDERS
25.0	29.0	4.0	SAND GRAVEL SOME WATER
29.0	36.0	7.0	CLAY AND GRAVEL
36.0	39.0	3.0	SAND GRAVEL & WATER
39.0	56.0	17.0	SAND GRAVEL & CLAY
56.0	60.0	4.0	CLAY AND GRAVEL
60.0	63.0	3.0	GRAVEL AND WATER
63.0	66.0	3.0	CLAY AND GRAVEL

WELL ID #..... M:64030
 LOCATION..... 10N 20W 11 ACDA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 42.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	35.0	35.0	SAND AND GRAVEL
35.0	40.0	5.0	SAND
40.0	42.0	2.0	SAND AND GRAVEL WITH WATER

WELL ID #..... M:64029
 LOCATION..... 10N 20W 11 ACDB 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 76.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	3.0	3.0	GRAVEL
3.0	20.0	17.0	SANDY CLAY (TAN)
20.0	40.0	20.0	CLAY
40.0	68.0	28.0	SANDY CLAY (BROWN)
68.0	75.0	7.0	SANDY GRAVEL
75.0	77.0	2.0	GRAVEL WATER

WELL ID #..... M:154747
 LOCATION..... 10N 20W 11 BAB 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 64.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	1.0	1.0	TOPSOIL
1.0	59.0	58.0	SAND & GRAVEL & BOULDERS & INTERMITTENT
1.0	59.0	58.0	CLAY LAYERS
59.0	64.0	5.0	SAND & GRAVEL -WATER BEARING

WELL ID #..... M:154744
 LOCATION..... 10N 20W 11 BAB 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 50.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL
 1.0 23.0 22.0 SAND & GRAVEL & BOULDERS
 23.0 25.0 2.0 GRAY CLAY
 25.0 50.0 25.0 TIGHT SAND & GRAVEL & BOULDERS-WATER BEARING

WELL ID #..... M:64035
 LOCATION..... 10N 20W 11 BAC 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 60.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 6.0 6.0 CLAY AND SAND
 6.0 20.0 14.0 SAND
 20.0 30.0 10.0 CLAY
 30.0 40.0 10.0 SAND
 40.0 60.0 20.0 SAND AND GRAVEL

WELL ID #..... M:64036
 LOCATION..... 10N 20W 11 BACC 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 95.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 18.0 18.0 CLAY GRAVEL SAND & COBBLESTONES
 18.0 27.0 9.0 SAND GRAVEL & WATER
 27.0 58.0 31.0 CLAY GRAVEL & BOULDERS
 58.0 63.0 5.0 CLAY GRAVEL WATER
 63.0 80.0 17.0 CLAY GRAVEL & BOULDERS
 80.0 95.0 15.0 SAND GRAVEL & WATER

WELL ID #..... M:136269
 LOCATION..... 10N 20W 11 BACCDD
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 80.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 2.0 2.0 SOIL
 2.0 45.0 43.0 SAND GRAVEL BOULDERS
 45.0 65.0 20.0 CEMENTED SAND GRAVEL
 65.0 70.0 5.0 GRAVEL SAND
 70.0 80.0 10.0 CEMENTED SAND GRAVEL

WELL ID #..... M:152119
 LOCATION..... 10N 20W 11 BCA 01

AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 32.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 11.0 11.0 SAND GRAVEL BOULDERS
 11.0 32.0 21.0 SAND AND GRAVEL BOULDERS WATER BEARING

WELL ID #..... M:64042
 LOCATION..... 10N 20W 11 BCA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 38.5

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 11.4 11.4 PIT
 11.4 17.0 5.6 CLAY AND BOULDERS
 17.0 36.0 19.0 CLAY SAND & GRAVEL
 36.0 38.5 2.5 GRAVEL AND WATER

WELL ID #..... M:64043
 LOCATION..... 10N 20W 11 BCAB 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 110.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 45.0 45.0 GRAVEL- BOULDERS
 45.0 80.0 35.0 CLAY AND SAND
 80.0 110.0 30.0 CLAY
 110.0 115.0 5.0 SAND

WELL ID #..... M:160354
 LOCATION..... 10N 20W 11 BCB 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 90.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 2.0 2.0 TOP SOIL
 2.0 18.0 16.0 SAND GRAVEL AND COBBLES LGT BRN GRANITE W/B
 18.0 65.0 47.0 SAND AND GRAVEL WITH LGT BRN GRANITE W/B
 65.0 80.0 15.0 DARK BRN SAND AND SILT W/B
 80.0 90.0 10.0 SAND AND GRAVEL LGT BRN

WELL ID #..... M:160360
 LOCATION..... 10N 20W 11 BCB 02
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 157.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 6.0 6.0 TOPSOIL
 6.0 18.0 12.0 SAND GRAVEL COBBLES BOULDERS AND LIT BRN GRANITE
 18.0 49.0 31.0 SAND GRAVEL AND LIT BRN GRANITE
 49.0 65.0 16.0 SAND AND DARK BRN SILT
 65.0 85.0 20.0 LIT GRAY FLY ASH
 85.0 120.0 35.0 DRK BRN CLAY 8 GPM
 120.0 135.0 15.0 BLUE CLAY
 135.0 150.0 15.0 BLUE SEDIMENTARY ROCK
 150.0 157.0 7.0 SAND GRAVEL AND GRANITE WB

WELL ID #..... M:64045
 LOCATION..... 10N 20W 11 BCCA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 31.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 9.0 9.0 OPEN HOLE
 9.0 31.0 22.0 SAND- GRAVEL BOULDERS- BROWN WATER BEARING

WELL ID #..... M:64046
 LOCATION..... 10N 20W 11 BCCC 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 40.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 40.0 40.0 SAND AND GRAVEL

WELL ID #..... M:64049
 LOCATION..... 10N 20W 11 BCDD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 39.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 3.0 3.0 DIRT AND BOULDERS
 3.0 12.0 9.0 GRAVEL AND BOULDERS
 12.0 24.0 12.0 CLAY AND GRAVEL
 24.0 32.0 8.0 STICKY CLAY & GRAVEL
 32.0 39.0 7.0 GRAVEL AND WATER

WELL ID #..... M:64047
 LOCATION..... 10N 20W 11 BCDD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 40.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 18.0 18.0 SAND GRAVEL AND COBBLESTONES
 18.0 40.0 22.0 SAND- GRAVEL AND WATER

WELL ID #..... M:136271
 LOCATION..... 10N 20W 11 BDA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 34.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL
 1.0 34.0 33.0 SAND GRAVEL BOULDERS

WELL ID #..... M:63999
 LOCATION..... 10N 20W 11 BDAD 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 80.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 40.0 40.0 GRAVEL- BOULDERS
 40.0 50.0 10.0 GRAVEL
 50.0 60.0 10.0 CLAY
 60.0 80.0 20.0 CLAY- STRIPS OF GRAVEL

WELL ID #..... M:160755
 LOCATION..... 10N 20W 11 BDB 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 40.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 8.0 8.0 SAND GRAVEL ROCKS
 8.0 36.0 28.0 SAND GRAVEL BOULDERS W.B.
 36.0 40.0 4.0 TIGHT CEMENTED SAND AND GRAVEL W.B.

WELL ID #..... M:160825
 LOCATION..... 10N 20W 11 BDB 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 39.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 7.0 7.0 SAND GRAVEL ROCKS
 7.0 39.0 32.0 SAND GRAVEL BOULDERS W.B.

WELL ID #..... M:64050
 LOCATION..... 10N 20W 11 BDBB 01

AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 39.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOILS
 1.0 20.0 19.0 SAND GRAVEL BOULDERS
 20.0 39.0 19.0 SAND GRAVEL WATER BEARING

WELL ID #..... M:64044
 LOCATION..... 10N 20W 11 BDCA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 35.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 35.0 35.0 SAND- GRAVEL BOULDERS- BROWN WATER BEARING

WELL ID #..... M:64051
 LOCATION..... 10N 20W 11 BDDC 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 180.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 BLACK DIRT AND GRAVEL
 1.0 29.0 28.0 CLAY GRAVEL & BOULDERS
 29.0 33.0 4.0 CLAY GRAVEL COBBLESTONES & WATER
 33.0 35.0 2.0 CLAY & BOULDERS GRAVEL WATER
 35.0 42.0 7.0 CLAY BOULDERS GRAVEL WATER
 42.0 51.0 9.0 CLAY AND BOULDERS
 51.0 62.0 11.0 SAND GRAVEL CLAY BOULDERS WATER
 62.0 85.0 23.0 CLAY AND GRAVEL
 85.0 88.0 3.0 SAND GRAVEL & WATER
 88.0 90.0 2.0 CLAY SAND GRAVEL & WATER
 90.0 94.0 4.0 SAND AND WATER
 94.0 98.0 4.0 SAND SMALL GRAVEL & WATER
 98.0 136.0 38.0 GRAY CLAY SAND & GRAVEL
 136.0 140.0 4.0 SAND GRAVEL & WATER
 140.0 180.0 40.0 BLUE GRAY CLAY SAND SMALL GRAVEL

WELL ID #..... M:64002
 LOCATION..... 10N 20W 11 BDDD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 50.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL & GRAVEL
 1.0 45.0 44.0 BOULDERS AND GRAVEL
 45.0 50.0 5.0 GRAVEL & SAND WATER AQUIFER USED

WELL ID #..... M:151139
 LOCATION..... 10N 20W 11 CBA 01
 AQUIFER.....
 AQUIFER DESCRIPTION.

TOTAL DEPTH..... 63.0

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FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	17.0	17.0	SAND GRAVEL ROCKS
17.0	37.0	20.0	SAND GRAVEL ROCKS WATER BEARING
37.0	63.0	26.0	SAND GRAVEL BOULDERS WATER BEARING

WELL ID #..... M:64056

LOCATION..... 10N 20W 11 CBAB 01

AQUIFER..... 211PLNC

AQUIFER DESCRIPTION. PLUTONIC ROCKS (UPPER CRETACEOUS)

TOTAL DEPTH..... 40.0

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FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	40.0	40.0	DECOMPOSED GRANITE

WELL ID #..... M:64053

LOCATION..... 10N 20W 11 CBCA 01

AQUIFER..... 110ALVM

AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)

TOTAL DEPTH..... 49.0

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FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	36.0	36.0	GRAVEL SAND CLAY & BOULDERS
36.0	39.5	3.5	SAND GRAVEL & WATER
39.5	49.0	9.5	CLAY GRAVEL & BOULDERS

WELL ID #..... M:64000

LOCATION..... 10N 20W 11 CBCB 01

AQUIFER..... 110ALVM

AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)

TOTAL DEPTH..... 44.0

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FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	30.0	30.0	SAND GRAVEL
30.0	44.0	14.0	GRAVEL BOULDERS W/ WATER

WELL ID #..... M:64058

LOCATION..... 10N 20W 11 CBCC 01

AQUIFER..... 111ALVM

AQUIFER DESCRIPTION. ALLUVIUM (HOLOCENE)

TOTAL DEPTH..... 55.0

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FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	50.0	50.0	SAND AND GRAVEL
50.0	55.0	5.0	GRAVEL W/WATER

WELL ID #..... M:64057
 LOCATION..... 10N 20W 11 CBCC 01
 AQUIFER..... 111ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (HOLOCENE)
 TOTAL DEPTH..... 55.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 31.0 31.0 SAND GRAVEL & CLAY
 31.0 35.0 4.0 SAND GRAVEL & WATER
 35.0 55.0 20.0 CLAY

WELL ID #..... M:147580
 LOCATION..... 10N 20W 11 CBDC 01
 AQUIFER..... 111ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (HOLOCENE)
 TOTAL DEPTH..... 67.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 67.0 67.0 SAND GRAVEL BOULDERS DECOMPOSED GRANITE W.B.

WELL ID #..... M:155609
 LOCATION..... 10N 20W 11 CCA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 49.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 29.0 29.0 SAND GRAVEL BOULDERS
 29.0 49.0 20.0 SAND GRAVEL BOULDERS WATER BEARING

WELL ID #..... M:64069
 LOCATION..... 10N 20W 11 CCB 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 60.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 38.0 38.0 DECOMPOSED GRANITE (DRY)
 38.0 60.0 22.0 DECOMPOSED GRANITE (WET)

WELL ID #..... M:120451
 LOCATION..... 10N 20W 11 CCC 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 64.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 40.0 40.0 ORIGINAL WELL-NO LOG
 40.0 45.0 5.0 SAND
 45.0 52.0 7.0 CLAY
 52.0 63.0 11.0 SAND AND GRAVEL WATER BEARING
 63.0 64.0 1.0 RED SAND

WELL ID #..... M:64061
 LOCATION..... 10N 20W 11 CCCA 01

AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 38.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 10.0 10.0 PIT
 10.0 33.0 23.0 CLAY- SAND AND GRANITE GRAVEL
 33.0 38.0 5.0 SAND GRAVEL AND WATER

WELL ID #..... M:64067
 LOCATION..... 10N 20W 11 CCCAAB
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 100.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 34.0 32.0 SAND GRAVELS AND BOULDERS
 34.0 40.0 6.0 SAND GRAVEL WITH WATER
 40.0 75.0 35.0 SAND GRAVEL AND CLAY
 75.0 85.0 10.0 SAND GRAVEL WITH WATER
 85.0 100.0 15.0 SAND AND CLAY

WELL ID #..... M:64062
 LOCATION..... 10N 20W 11 CCCC 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 46.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 3.0 3.0 TOPSOIL
 3.0 40.0 37.0 SAND GRAVEL & BOULDERS
 40.0 44.0 4.0 SAND & MICA
 44.0 45.0 1.0 GRAVEL AND WATER

WELL ID #..... M:64070
 LOCATION..... 10N 20W 11 CCCD 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 60.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 8.0 8.0 SAND GRAVEL CLAY MIX-TAN
 8.0 12.0 4.0 TIGHT CLUSTER OF BOULDERS IN ABOVE MIXTURE
 12.0 37.0 25.0 SAND GRAVEL CLAY MIX TAN TIGHT
 37.0 41.0 4.0 SAND & GRAVEL BROWN W.B.
 41.0 45.0 4.0 CLAY TAN
 45.0 57.0 12.0 SAND & GRAVEL BROWN WATER BEARING
 57.0 60.0 3.0 TIGHT SAND BROWN

WELL ID #..... M:64071
 LOCATION..... 10N 20W 11 CCDD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 77.5

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 47.0 47.0 DUG WELL
 47.0 68.0 21.0 CLAY BOULDERS & GRAVEL
 68.0 77.5 9.5 CLAY GRAVEL & WATER

WELL ID #..... M:139842
 LOCATION..... 10N 20W 11 CDA 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 88.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 45.0 45.0 SAND GRAVEL COBBLES
 45.0 55.0 10.0 SAND GRAVEL
 55.0 79.0 24.0 CEMENTED GRAVEL SAND
 79.0 88.0 9.0 SAND GRAVEL

WELL ID #..... M:5809
 LOCATION..... 10N 20W 11 CDCD 01
 AQUIFER..... 110ALVM
 . 120SDMS
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 . SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 342.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 46.0 46.0 CLAY GRAVEL SAND & COBBLESTONES
 46.0 85.0 39.0 CLAY GRAVEL SAND & WATER
 85.0 124.0 39.0 SAND GRAVEL & WATER
 124.0 150.0 26.0 TAN CLAY SAND & GRAVEL
 150.0 190.0 40.0 GRAY CLAY & SAND
 190.0 193.0 3.0 SAND & WATER
 193.0 195.0 2.0 GRAY CLAY SAND & GRAVEL
 195.0 245.0 50.0 GRAY CLAY & SAND
 245.0 303.0 58.0 GRAY CLAY SAND & SEEPS OF WATER
 303.0 305.0 2.0 SAND & WATER
 305.0 336.0 31.0 CALY SAND & WATER
 336.0 340.0 4.0 HARD GRAY CLAY
 340.0 342.0 2.0 SAND & WATER

WELL ID #..... M:64077
 LOCATION..... 10N 20W 11 CDCD 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 77.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 17.0 17.0 SAND GRAVEL & COBBLESTONES W/ BOULDERS
 17.0 26.0 9.0 SAND GRAVEL & COBBLESTONES
 26.0 48.0 22.0 GRAVEL EMBEDDED IN BROWN CLAY
 48.0 52.0 4.0 DECOMPOSED GRANITE

52.0	53.0	1.0 GRAVEL COBBLESTONES & DECPMPOSED GRAINTE WATER
53.0	57.0	4.0 DECOMPOSED GRANITE WITH SAND MIXED IN.
55.0	77.0	22.0 SAND GRAVEL BOULDERS BROWN W.B.

WELL ID #..... M:139843
 LOCATION..... 10N 20W 11 CDD 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (QUATERNARY)
 TOTAL DEPTH..... 100.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	45.0	45.0	SAND GRAVEL COBBLES
45.0	50.0	5.0	SAND GRAVEL
50.0	82.0	32.0	CEMENTED SAND GRAVEL
82.0	92.0	10.0	SAND GRAVEL
92.0	100.0	8.0	SAND CLAY

WELL ID #..... M:64080
 LOCATION..... 10N 20W 11 DBAC 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 56.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	56.0	56.0	SAND GRAVEL & CLAY

WELL ID #..... M:64081
 LOCATION..... 10N 20W 11 DBDA 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 61.7

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	1.0	1.0	DIRT
1.0	34.0	33.0	GRAVEL AND COBBLESTONES MIXED W/TAN SILTY CLAY
34.0	35.0	1.0	DIRTY FINE SAND & GRAVEL STRONG SEEP OF WATER
35.0	43.0	8.0	MED TO FINE GRAVEL EMBEDDED IN HARD TAN COLORED
35.0	43.0	8.0	CLAY.
43.0	60.0	17.0	TAN SILTY MUDY CLAY. SOME WATER IN SANDY STRATAS.
60.0	62.0	2.0	COARSE SAND & GRAVEL. WATER.

WELL ID #..... M:64082
 LOCATION..... 10N 20W 11 DCBC 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 41.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	41.0	41.0	SAND GRAVEL BOULDERS WATER BEARING

WELL ID #..... M:147581
 LOCATION..... 10N 20W 11 DCCAD
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 70.0

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FROM (FT) TO (FT). THICKNESS DESC.....
    0.0      1.0      1.0 SOIL
    1.0     70.0     69.0 SAND GRAVEL

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WELL ID #..... M:64086
LOCATION..... 10N 20W 11 DCDC 01
AQUIFER..... 110ALVM
AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
TOTAL DEPTH..... 26.0

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FROM (FT) TO (FT). THICKNESS DESC.....
    0.0      0.7      0.7 SOIL
    0.7     26.0     25.3 COARSE GRAVEL

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WELL ID #..... M:64087
LOCATION..... 10N 20W 11 DDDD 01
AQUIFER..... 110ALVM
AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
TOTAL DEPTH..... 12.0

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FROM (FT) TO (FT). THICKNESS DESC.....
    0.0      3.0      3.0 SOIL AND CLAY
    3.0     12.0      9.0 RIVER GRAVEL

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WELL ID #..... M:136384
LOCATION..... 10N 20W 14 AAD 01
AQUIFER.....
AQUIFER DESCRIPTION.
TOTAL DEPTH..... 90.0

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FROM (FT) TO (FT). THICKNESS DESC.....
    0.0     45.0     45.0 GRAVEL SAND
    45.0    55.0     10.0 GRAVEL SAND WITH WATER
    55.0    85.0     30.0 SAND CLAY
    85.0    90.0      5.0 GRAVEL WITH WATER

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WELL ID #..... M:154062
LOCATION..... 10N 20W 14 ABA 01
AQUIFER..... 120SDMS
AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
TOTAL DEPTH..... 95.0

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FROM (FT) TO (FT). THICKNESS DESC.....
    0.0      2.0      2.0 SOIL
    2.0     50.0     48.0 SAND GRAVEL COBBLES
    50.0     95.0     45.0 GRAVEL SAND

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WELL ID #..... M:149658
LOCATION..... 10N 20W 14 BBBBAA
AQUIFER..... 120SDMS
AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
TOTAL DEPTH..... 66.0

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FROM (FT) TO (FT). THICKNESS DESC.....

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0.0	51.0	51.0 SAND GRAVEL BOULDERS
51.0	52.0	1.0 GREY CLAY
52.0	66.0	14.0 SAND GRAVEL WATER BEARING

WELL ID #..... M:151178
 LOCATION..... 10N 20W 14 ABC 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 66.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 44.0 44.0 SAND & GRAVEL & ROCKS
 44.0 60.0 16.0 RIVER SILT-LARGE GRAVEL
 60.0 66.0 6.0 SAND & GRAVEL-WATER BEARING

WELL ID #..... M:167414
 LOCATION..... 10N 20W 14 ADB 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 69.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 30.0 30.0 SAND GRAVEL
 30.0 60.0 30.0 SAND SMALL GRAVEL BOULDERS WB
 60.0 69.0 9.0 CEMENTED SAND GRAVEL & BOULDERS W/B

WELL ID #..... M:64175
 LOCATION..... 10N 20W 14 BAA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 54.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 54.0 54.0 SANDY & GRAVELLY SOIL

WELL ID #..... M:143190
 LOCATION..... 10N 20W 14 BAA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 43.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL
 1.0 10.0 9.0 SAND GRAVEL COBBLES LIGHT BROWN
 10.0 43.0 33.0 SAND GRAVEL 1' PACK

WELL ID #..... M:64176
 LOCATION..... 10N 20W 14 BABA 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 89.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 40.0 40.0 DRY SAND AND GRAVEL
 40.0 50.0 10.0 DAMP GRAVEL

50.0	60.0	10.0 WET GRAVEL
60.0	70.0	10.0 WET SAND
70.0	85.0	15.0 COARSE SAND & GRAVEL
85.0	89.0	4.0 GRAVEL WITH WATER

WELL ID #..... M:64177
 LOCATION..... 10N 20W 14 BABC 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 73.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 6.0 6.0 PIT
 6.0 54.0 48.0 CLAY SAND BOULDERS & GRANITE GRAVEL
 54.0 59.8 5.8 SAND GRANITE GRAVEL & WATER
 59.8 70.0 10.2 CLAY GRAVEL
 70.0 73.0 3.0 CLAY GRAVEL WATER

WELL ID #..... M:64178
 LOCATION..... 10N 20W 14 BACBAC
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 58.5

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 DIRT
 1.0 4.0 3.0 CLAY- LARGE GRAVELS
 4.0 54.0 50.0 GRAVEL AND BOULDERS
 54.0 58.5 4.5 GRAVEL AND WATER

WELL ID #..... M:64173
 LOCATION..... 10N 20W 14 BACA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 59.5

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 4.0 4.0 PIT
 4.0 49.0 45.0 CLAY- GRAVEL AND COBBLESTONES
 49.0 59.5 10.5 SAND GRAVEL AND WATER

WELL ID #..... M:64181
 LOCATION..... 10N 20W 14 BBAA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 66.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL
 1.0 41.0 40.0 SAND GRAVEL AND BOULDERS
 41.0 66.0 25.0 SAND & GRAVEL WATER BEARING

WELL ID #..... M:64170
 LOCATION..... 10N 20W 14 BBAB 01
 AQUIFER..... 112ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (PLEISTOCENE)
 TOTAL DEPTH..... 165.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 20.0 20.0 BOULDERS
 20.0 35.0 15.0 GRAVEL
 35.0 55.0 20.0 BOULDERS AND WATER
 55.0 80.0 25.0 SAND AND GRAVEL
 80.0 95.0 15.0 SANDY CLAY
 95.0 143.0 48.0 CLAY
 143.0 165.0 22.0 PACKED SAND- GRAVEL IN IT 2ND WATER

WELL ID #..... M:64185
 LOCATION..... 10N 20W 14 BBAD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 90.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 90.0 90.0 SAND- GRAVEL - ROCKS

WELL ID #..... M:64180
 LOCATION..... 10N 20W 14 BBBC 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 64.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 30.0 30.0 PIT
 30.0 51.0 21.0 SAND GRAVEL & YELLOW CLAY
 51.0 56.0 5.0 TAN CLAY SAND GRAVEL
 56.0 60.0 4.0 SAND GRAVEL & WATER
 60.0 64.0 4.0 WATER & GRAVEL

WELL ID #..... M:64153
 LOCATION..... 10N 20W 14 BBCB 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 76.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 5.0 5.0 OPEN HOLE
 5.0 36.0 31.0 SAND & GRAVEL & BOULDERS
 36.0 61.0 25.0 SAND AND GRAVEL WATER BEARING
 61.0 76.0 15.0 SAND AND GRAVEL TAN WATER BEARING

WELL ID #..... M:163041
 LOCATION..... 10N 20W 14 BBD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 49.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 2.0 2.0 TOP SOIL
 2.0 49.0 47.0 SAND/GRAVEL BOULDERS WB

WELL ID #..... M:64190
 LOCATION..... 10N 20W 14 BBDA 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 70.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 70.0 70.0 SAND GRAVEL SMALL ROCK

WELL ID #..... M:64172
 LOCATION..... 10N 20W 14 BBDA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 61.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL
 1.0 61.0 60.0 SAND GRAVEL SOME BOULDERS WATER BEARING

WELL ID #..... M:64187
 LOCATION..... 10N 20W 14 BBDC 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 80.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 80.0 80.0 SAND GRAVEL SMALL ROCK

WELL ID #..... M:64197
 LOCATION..... 10N 20W 14 BBDD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 70.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 40.0 40.0 FREE STANDING EXISTING WELL
 40.0 70.0 30.0 SAND & GRAVEL

WELL ID #..... M:128934
 LOCATION..... 10N 20W 14 BBDDCC
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 80.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 2.0 2.0 SOIL
 2.0 34.0 32.0 SAND GRAVEL BOULDERS
 34.0 64.0 30.0 SAND GRAVEL
 64.0 80.0 16.0 CLAY

WELL ID #..... M:64189
 LOCATION..... 10N 20W 14 BBDD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 60.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 10.0 10.0 SAND GRAVEL
 10.0 20.0 10.0 GRAVEL COBBLESTONES
 20.0 45.0 25.0 DRY SAND GRAVEL
 45.0 60.0 15.0 SAND GRAVEL W/ WATER

WELL ID #..... M:64188
 LOCATION..... 10N 20W 14 BBDD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 70.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 70.0 70.0 SAND GRAVEL SMALL ROCK

WELL ID #..... M:64186
 LOCATION..... 10N 20W 14 BBDD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 80.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 80.0 80.0 SAND GRAVEL SMALL ROCK

WELL ID #..... M:64195
 LOCATION..... 10N 20W 14 BCAA 01
 AQUIFER..... 110ALVM

AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)

TOTAL DEPTH..... 61.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	1.0	1.0	TOPSOIL
1.0	61.0	60.0	SAND AND GRAVEL WATER BEARING

WELL ID #..... M:5814

LOCATION..... 10N 20W 14 BCAB 01

AQUIFER..... 110ALVM

AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)

TOTAL DEPTH..... 68.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	40.0	40.0	SAND & GRAVEL
40.0	51.0	11.0	SAND & GRAVEL W/ WATER

WELL ID #..... M:130926

LOCATION..... 10N 20W 14 BCABCA

AQUIFER..... 120SDMS

AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)

TOTAL DEPTH..... 59.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	59.0	59.0	SAND & GRAVEL W.B.

WELL ID #..... M:160764

LOCATION..... 10N 20W 14 BCD 01

AQUIFER..... 110ALVM

AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)

TOTAL DEPTH..... 60.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	1.0	1.0	SOIL
1.0	14.0	13.0	SAND GRAVEL COBBLES
14.0	45.0	31.0	SAND GRAVEL CLAY SEAMS
45.0	56.0	11.0	SAND GRAVEL WITH WATER
56.0	58.0	2.0	CLAY GRAVEL
58.0	60.0	2.0	SAND GRAVEL WITH WATER

WELL ID #..... M:136592
 LOCATION..... 10N 20W 14 BCDA 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 78.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 6.0 6.0 CLAY SAND & GRAVEL
 6.0 14.0 8.0 SANDY CLAY
 14.0 21.0 7.0 SILTY CLAY
 21.0 29.0 8.0 SAND GRAVEL AND CLAY SEEPS OF WATER
 29.0 33.0 4.0 CLAY SAND & WATER
 33.0 40.0 7.0 SAND AND WATER
 40.0 45.0 5.0 SAND- GRAVEL AND WATER
 45.0 56.0 11.0 CLAY SAND AND WATER
 56.0 61.0 5.0 SAND AND WATER
 61.0 74.0 13.0 SAND- SMALL GRAVEL AND WATER
 74.0 78.0 4.0 SAND- GRAVEL AND WATER
 78.0 78.0 0.0 GRAY CLAY

WELL ID #..... M:64191
 LOCATION..... 10N 20W 14 BCDB 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 51.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 40.0 40.0 SAND & GRAVEL
 40.0 51.0 11.0 SAND AND GRAVEL W/WATER

WELL ID #..... M:151097
 LOCATION..... 10N 20W 14 BDA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 53.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 29.0 29.0 SAND GRAVEL ROCKS
 29.0 53.0 24.0 SAND AND GRAVEL WATER BEARING

WELL ID #..... M:121919
 LOCATION..... 10N 20W 14 CBCD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 50.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 50.0 50.0 SAND GRAVEL AND D.G. WATER BEARING

WELL ID #..... M:135481
 LOCATION..... 10N 20W 14 CBD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 43.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 2.0 2.0 TOPSOIL
 2.0 43.0 41.0 SAND AND GRAVEL WATER BEARING 2 FOOT PACK

WELL ID #..... M:124592
 LOCATION..... 10N 20W 14 CCC 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 49.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 49.0 49.0 SAND AND GRAVEL W.B.

WELL ID #..... M:64163
 LOCATION..... 10N 20W 14 CDAB 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 39.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 2.0 2.0 TOPSOIL
 2.0 39.0 37.0 SAND & GRAVEL W B

WELL ID #..... M:149661
 LOCATION..... 10N 20W 15 AAA 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 70.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 30.0 30.0 SAND GRAVEL BOULDERS
 30.0 55.0 25.0 CLAY
 55.0 67.0 12.0 SAND GRAVEL WB
 67.0 70.0 3.0 GREY CLAY

WELL ID #..... M:64168
 LOCATION..... 10N 20W 15 AAAD 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 77.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 46.0 46.0 BOULDERS & CLAY
 46.0 67.0 21.0 SAND (FINE) AND WATER
 67.0 70.9 3.9 CLAY
 70.9 78.9 8.0 WATER- SAND AND GRAVEL

WELL ID #..... M:156450
 LOCATION..... 10N 20W 15 AABAA

AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 65.0
 ..
 FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 65.0 65.0 SAND DECOMPOSED GRANITE & GRAVEL W.B.

WELL ID #..... M:64209
 LOCATION..... 10N 20W 15 ACBBCC
 AQUIFER..... 211PLNC
 AQUIFER DESCRIPTION. PLUTONIC ROCKS (UPPER CRETACEOUS)
 TOTAL DEPTH..... 270.0
 ..
 FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 40.0 40.0 DECOMPOSED GRANITE
 40.0 270.0 230.0 MEDIUM HARD GRANITE

WELL ID #..... M:64211
 LOCATION..... 10N 20W 15 ACBA 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 123.0
 ..
 FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 TOPSOIL
 1.0 73.0 72.0 INTERMITTENT LAYERS SAND GRAVEL CLAY MIXED GREY
 73.0 122.0 49.0 CLAY SAND AND GRAVEL GREY
 122.0 165.0 43.0 SEDIMENTARY ROCK CLAY LAYERS

WELL ID #..... M:64210
 LOCATION..... 10N 20W 15 ACDA 01
 AQUIFER..... 211PLNC
 AQUIFER DESCRIPTION. PLUTONIC ROCKS (UPPER CRETACEOUS)
 TOTAL DEPTH..... 72.0
 ..
 FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 10.0 10.0 DECOMPOSED GRANITE AND BOULDERS
 10.0 50.0 40.0 DECOMPOSED GRANITE
 50.0 72.0 22.0 DECOMPOSED GRANITE W/GRAVEL

WELL ID #..... M:64212
 LOCATION..... 10N 20W 15 ACDD 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 66.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	18.0	18.0	CLAY & GRAVEL
18.0	20.0	2.0	SAND
20.0	37.0	17.0	CLAY GRAVEL & AOLIEN
37.0	39.0	2.0	CLAY GRAVEL & SEEP OF WATER
39.0	50.0	11.0	CLAY GRAVEL & BOULDERS
50.0	53.0	3.0	SAND
53.0	64.0	11.0	SAND GRAVEL & WATER
64.0	66.0	2.0	BLUE GRAY CLAY & GRAVEL

WELL ID #..... M:64214
 LOCATION..... 10N 20W 15 ADB 01
 AQUIFER.....
 AQUIFER DESCRIPTION.
 TOTAL DEPTH..... 80.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	80.0	80.0	SAND GRAVEL ROCK

WELL ID #..... M:64216
 LOCATION..... 10N 20W 15 ADDA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 44.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	6.0	6.0	SAND GRAVEL WATER
6.0	23.0	17.0	SAND
23.0	26.0	3.0	CLAY
26.0	44.0	18.0	SAND GRAVEL
44.0	44.0	0.0	GRAVEL COARSE SAND

WELL ID #..... M:64215
 LOCATION..... 10N 20W 15 ADDA 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 62.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	1.0	1.0	TOPSOIL
1.0	14.0	13.0	BOULDERS
14.0	62.0	48.0	SAND GRAVEL CLAY MIXED AND INT. WATER BEARING

WELL ID #..... M:64208
 LOCATION..... 10N 20W 15 CBAADB
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 60.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 1.0 1.0 SAND GRAVEL ROCKS
 1.0 60.0 59.0 INTERMITTANT LAYERS OF SAND AND GRAVEL MIXED
 AND SEPARATE W.B.

WELL ID #..... M:151174
 LOCATION..... 10N 20W 15 DAABB
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 150.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 2.0 2.0 SOIL
 2.0 15.0 13.0 SILTY SAND & GRAVEL
 15.0 45.0 30.0 SILTY SAND & GRAVEL
 45.0 130.0 85.0 CLAY & SAND
 130.0 150.0 20.0 CLAY & GRAVEL LAYERS

WELL ID #..... M:134616
 LOCATION..... 10N 20W 15 DBB 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 100.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 2.0 2.0 SOIL
 2.0 12.0 10.0 SAND GRAVEL
 12.0 31.0 19.0 SAND
 31.0 57.0 26.0 CLAY SAND
 57.0 62.0 5.0 SAND GRAVEL SILT
 62.0 100.0 38.0 CLAY SAND ROCK CHUNKS

WELL ID #..... M:134720
 LOCATION..... 10N 20W 15 DBC 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 60.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 2.0 2.0 SOIL
 2.0 36.0 34.0 SAND CLAY GRAVEL
 36.0 60.0 24.0 SAND GRAVEL

WELL ID #..... M:130928
 LOCATION..... 10N 20W 15 DBBD
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 60.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 30.0 30.0 SOIL SAND GRAVEL
 30.0 60.0 30.0 SAND GRAVEL

WELL ID #..... M:160347
 LOCATION..... 10N 20W 15 DBD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 48.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 24.0 24.0 SAND ASH ROCKS
 24.0 48.0 24.0 SAND GRAVEL ROCKS W.B.

WELL ID #..... M:160346
 LOCATION..... 10N 20W 15 DBD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 47.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 22.0 22.0 SAND AND VOLCANIC ASH
 22.0 38.0 16.0 SAND SPARSE GRAVEL
 38.0 47.0 9.0 TIGHT CEMENTED SAND AND GRAVEL

WELL ID #..... M:64219
 LOCATION..... 10N 20W 15 DCD 01
 AQUIFER..... 120SDMS
 AQUIFER DESCRIPTION. SEDIMENTS (TERTIARY)
 TOTAL DEPTH..... 580.0

FROM (FT) TO (FT). THICKNESS DESC.....
 0.0 40.0 40.0 YELLOW CLAY
 40.0 280.0 240.0 BLUE CLAY
 280.0 290.0 10.0 GRAVEL
 290.0 580.0 290.0 GLACIER CLAY & SILT

WELL ID #..... M:64218
 LOCATION..... 10N 20W 15 DCD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (QUATERNARY)
 TOTAL DEPTH..... 60.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	20.0	20.0	SAND & CLAY
20.0	30.0	10.0	CLAY
30.0	40.0	10.0	GRAVEL
40.0	55.0	15.0	CLAY
55.0	80.0	25.0	GRAVEL & SAND

WELL ID #..... M:64220
 LOCATION..... 10N 20W 15 DDD 01
 AQUIFER..... 110ALVM
 AQUIFER DESCRIPTION. ALLUVIUM (CRETACEOUS)
 TOTAL DEPTH..... 35.0

FROM (FT)	TO (FT)	THICKNESS	DESC.....
0.0	6.0	6.0	TOPSOIL
6.0	35.0	29.0	SAND GRAVEL WATER BEARING

Appendix F
Septic system information

Florence area septic system information

Location	Date installed	Replace?	Size of tank (gal)	Depth to top of tank (ft)	Length of drain field (ft)	Depth of Drain Field (ft)	Elevation (ft)	Purpose of tank	No. households/businesses served	No. people served	Distance from nearest well (ft)	Remarks
10N 20W 02 AAAABD	1989		1000	3	50	~3	3190	Household	1	2	~70	
10N 20W 02 AABBB	1994		1000		3 at 70		3193	Household	1	3 Bedrooms		
10N 20W 02 AABDB	1993	Y	1000		4 at 60	2' Trench	3193	Household	1	3 Bedrooms	<100	Standard System
10N 20W 02 ABAABA	1989	Y	1000	-2.5	50	~3	3192	Household	1	4	~100	
10N 20W 02 ABBBB	1994		1000		3 at 95		3200	Household	1	3 Bedrooms	150	
10N 20W 02 ABBBD	1993	Y	1000		5 at 65		3192	Household	1	4 Bedrooms	100+	Standard System
10N 20W 02 ABCCA	1991		1000		2 at 100		3219	Household	1	3 Bedrooms	55	
10N 20W 02 ABCDD	1990		1000		2 at 85		3221	Household	1	3 Bedrooms		
10N 20W 02 BACBC	1994		1500		3 at 80		3319	Household	1	3 Bedrooms	100+	Depth to G.W. & Bedrock >5'
10N 20W 02 BACB	1995		1500		3 at 70		3340	Household	1	3 Bedrooms	100+	Not on Floodplain
10N 20W 02 BADDADD	1989		1000	-3	50	~3	3240	Household	1	3	~150	1-2% Land Slope
10N 20W 02 BBAABA	1993		1000	2 to Inlet	3 at ~50		3365	Household	1			
10N 20W 02 BBBABB	1996?		1000				3340	Household	1			
10N 20W 02 BBBBBD	1992		1000		3 at 80		3422	Household	1	3	100	
10N 20W 02 BBBBCD	1994		1000		3 at 70		3418	Household	1	3 Bedrooms	135	
10N 20W 02 BBCC	1983		1000		4 at 60		3410	Household	1	3 Bedrooms	150-200	
10N 20W 02 BBDDBA	1982		1000	3?	50		3345	Household	1		100+	
10N 20W 02 BCAAAD	1993	Y	1000		190 linear		3324	Household	1	2 Bedrooms	110	Standard System
10N 20W 02 DBACBD	1991		1000		3 at 100		3220	Household	1	2	100	Gravity Pressure Dosed
10N 20W 02 DBBB	1992		1000		310 linear		3250	Household	1	3 Bedrooms	110	Standard System
10N 20W 02 DBCBCA	1986		1000	-3	2 at 80		3250	Household	1	2	~100	
10N 20W 02 DBDB	1983		1000		4 at 50		3230	Household	1	2 Bedrooms		
10N 20W 02 DBDCC	1987		1000		4 at 50		3234	Household	1	2 Bedrooms		
10N 20W 03 BCE1/2S1/2	1984		1000		3 at 80		3710	Household	1	4		
10N 20W 03 CAE1/2	1980		1000		3 at 125		3542	Household	1	4		
10N 20W 03 DADDCC	1983		1000		3 at 73		3370	Household	1	3		
10N 20W 04 AAA	1976		1000		2-6' rings grav		3920	Household	1		100	
10N 20W 04 AAW1/2	1977		1000		3 at 60		3975	Household	1	2 Bedrooms	200	
10N 20W 09 ABDD	1985		1000		3 at 80		3680	Household	1	3 Bedrooms	100+	
10N 20W 09 AC	1993		1000		3 at 80		3662	Household	House, shop	3 Bedrooms	~250	
10N 20W 09 AD BC	1979		1000		3 at 83		3658	Household	1	4 Bedrooms	100	
10N 20W 09 BS1/2	1996		1000		3 at 80		3804	Household	1	3 Bedrooms	100+	Ends are capped. Depth to G.W. >8'
10N 20W 10 ACBCC	1990		1000		3 at 80		3435	Household	1	4		
10N 20W 10 ADABB	1984		1000		3 at 95		3350	Household	1	3 Bedrooms		
10N 20W 10 ADACCA							3360	Household	1	2		
10N 20W 10 ADDACA							3355	Household	1	2		
10N 20W 10 BADDDD	1995		1000		3 at 65	1' Trench	3450	Household	1	2	109	3 chamber mound syst, depth to G.W. 70"

Florence area septic system information

Location	Date installed	Replace?	Size of tank (gal)	Depth to top of tank (ft)	Length of drain field (ft)	Depth of Drain Field (ft)	Elevation (ft)	Purpose of tank	No. households/businesses served	No. people served	Distance from nearest well (ft)	Remarks
10N 20W 10 BB	1987		1000		285 Linear		3500	Household	1	3 Bedrooms	100	100' to Creek
10N 20W 10 CAC	1981		1000		180 Linear		3482	Household	1		100	Location may not be exact on the plat map
10N 20W 10 DCC	1996		1000		250 Linear		3379	Household	1	2 Bedrooms		
10N 20W 10 DBADB	1992		1000		3 at 70		3400	Household	1	3 Bedrooms	100	
10N 20W 10 DBCAA	1996		1000		3 at 80	24"	3420	Household	1	3 Bedrooms	125	
10N 20W 10 DCBDB							3405	Household	1	4-5		
10N 20W 11 AAACD	1992		1000		130 Linear		3205	Commercial	1 Shop	3 Employees		
10N 20W 11 ABADBC	1991		1000		220 linear		3230	Household	1	3 Bedrooms		
10N 20W 11 ABCCCC	1993		1000		195 Linear		3257	Household	1	3 Bedrooms	130	
10N 20W 11 ABCCDD	1993		1000		260 Linear		3260	Household	1	4 Bedrooms	100+	
10N 20W 11 ABBDCD	1993		1000		4 at 60		3240	Household	1	3 Bedrooms	53	119' to Drain.
10N 20W 11 ABBDD	1993		1000		2 at 97		3242	Household	1	3 Bedrooms	100+	
10N 20W 11 ABCA	1991		1000		240 Linear		3220	Household	1	3 Bedrooms	100+	
10N 20W 11 ABCBDB	1993		1000	6" +/-	245 linear		3256	Household	1	2	120	
10N 20W 11 ABDBCC	1990		1250		400 Linear		3241	Household	1	5 Bedrooms	101 to Stream	
10N 20W 11 AC	1997		1000		20x50 Drained		3247	Household	1	2 Bedrooms	100	>8' to G.W.
10N 20W 11 ACBBB	1995	Y	1000		2 at 80		3261	Household	1	2 Bedrooms	100+	
10N 20W 11 ACBC	1978		6500		5 Rings	20?	3262	School				Three Holding Tanks with Pumps
10N 20W 11 ACBCD	1990		1000		160 Linear		3260	Household	1	2 Bedrooms		Water Line for this Subdivision
10N 20W 11 ACCCAB	1995		1000		150 Linear		3257	Household	1 Duplex	4 Bedrooms		>8' to G.W. Water line for this subd
10N 20W 11 ACCCAD	1977		1000		128 Linear		3253	Household	1	3 Bedrooms		Water Line for this Subdivision
10N 20W 11 ACCCCB	1978		1000		5 Rings		3265	Household	2	4 Bedrooms		Water Line for this Subdivision
10N 20W 11 ACCCCC	1977		1000		128 Linear		3265	Household	1	3 Bedrooms		Water Line for this Subdivision
10N 20W 11 ACCCD	1991	Y	1000		2-3 Rings		3260	Household	1	3 Bedrooms		Water Line for this Subdivision
10N 20W 11 ACCDA	1979		1000		340 lin-2 rings		3238	Household	1-4 Plex Unit	8 Bedrooms		Water Line for this Subdivision
10N 20W 11 ACD	1982	Y			800 Linear		3242	Other	Trailer Court			Bitterroot Pines Trailer Court
10N 20W 11 ACDBA	1979	Y			Rings	-7' Deep	3239	Commercial	1			
10N 20W 11 ACDC	1978		1000		3 at 50		3238	Household	1	3 Bedrooms		Water Line for this Subdivision
10N 20W 11 ACDCB	1978		1000		128 Linear		3239	Household	1	3 Bedrooms		Water Line for this Subdivision
10N 20W 11 ACDCCA	1978		1000		128 Linear		3242	Household	1	3 Bedrooms		Water Line for this Subdivision
10N 20W 11 ACDDBA	1993		1000		3 at 50		3232	Household	1	2 Bedrooms		Water Line for this Subdivision
10N 20W 11 ACDDBB	1993		1000		150 Linear		3234	Household	1	2 Bedrooms		Water Line for this Subdivision
10N 20W 11 ACDDCA	1978		1000		170 Linear		3239	Household	1	3 Bedrooms		Water Line for this Subdivision
10N 20W 11 ADCACC	1995	Y	1000		3 at 50		3227	Household	1	2	-50	Gravity Pressured Dosed
10N 20W 11 BADAAC	1997		1000		195 Linear		3280	Household	1	3 Bedrooms		
10N 20W 11 BADCD	1993		1000		seep bed 2x35		3260	Household	1		115	
10N 20W 11 BBDC	1996		1000		260 Linear		3305	Household	1	3	100+	
10N 20W 11 BBDC	1996		1000		3 at 65		3330	Household	1	3 Bedrooms	100+	
10N 20W 11 BBDDDB	1996		1000		285 Linear		3301	Household	1		100+	
10N 20W 11 BCAA	1994	Y			3 at 50		3274	Household	1			

Florence area septic system information

Location	Date installed	Replace?	Size of tank (gal)	Depth to top of tank (ft)	Length of drain field (ft)	Depth of Drain Field (ft)	Elevation (ft)	Purpose of tank	No. households/businesses served	No. people served	Distance from nearest well (ft)	Remarks
10N 20W 11 BCABB	1986		1000		185 Linear		3321	Household	1	3 Bedrooms		
10N 20W 11 BCADAC	1996	Y	1000		4 at 75		3300	Household	1	5 Bedrooms	54	
10N 20W 11 BCADC	1996		1000		3 at 80		3312	Household	1	3 Bedrooms	100+	
10N 20W 11 BCBBDD	1975		1000		330 Linear		3340	Household	1	2	~100	
10N 20W 11 BCBCD	1995	Y	1000		330 Linear	2' Max	3336	Household	1	3 Bedrooms	100+	
10N 20W 11 BCCABB	1977		1000		250 Linear		3339	Household	1	3 Bedrooms	80	
10N 20W 11 BCCBD	1977		1000		2 at 170		3329	Household	1	3 Bedrooms	150	35' to G.W.
10N 20W 11 BCCDCC	1977		1000		330 Linear		3340	Household	1	3 Bedrooms	100	
10N 20W 11 BCCDD	1994		1000		4 at 65	3	3320	Household			100+	
10N 20W 11 BCDAB	1997		1000		3 at 80		3313	Household	1	3 Bedrooms	100+	
10N 20W 11 BCDACD	1973		750	4 +/-	130 Linear		3303	Household	1	3	107	12 ft to G.W.
10N 20W 11 BCDBC	1978		1000		250 Linear		3320	Household	1	4 Bedrooms	150	
10N 20W 11 BCDCD	1996		1000		4 at 70	2	3310	Household	1	3 Bedrooms	120	
10N 20W 11 BCDCA	1995	Y	1000		4 at 50		3307	Household	1	2 Bedrooms	100+	
10N 20W 11 BDABAD	1990	Y	1000		200 Linear		3275	Household	1	3 Bedrooms		
10N 20W 11 BDBAAB	1996		1000		195 Linear		3285	Household	1	3 Bedrooms		
10N 20W 11 BDDDD	1975		1000		10' Pit		3267	Church	1			
10N 20W 11 BDDDD	1978		1000		2 at 75		3267	Household	1			
10N 20W 11 CABC	1995		1000		150 Linear		3238	Commercial	1		100	No building at time of inspection
10N 20W 11 CBAC	1976		1000		188 Linear		3318	Household	1	3 Bedrooms		
10N 20W 11 CBACC	1976		1000		3 at 55		3315	Household	1	3 Bedrooms	121	
10N 20W 11 CBBAB	1975		1000		6 Rings		3320	Household	1	6		
10N 20W 11 CBBAC	1976		1000		4 at 47		3322	Household	1	3 Bedrooms		
10N 20W 11 CBBAD	1979		1000		188 Linear		3322	Household	1	3 Bedrooms		
10N 20W 11 CBBCA	1980		1000		200 Linear		3337	Household	1	5 Bedrooms	105	
10N 20W 11 CBBCD	1989		1000		3 at 70		3331	Household	1	3 Bedrooms		
10N 20W 11 CBC	1985		1000		115 linear		3315	Household	1	3 Bedrooms		
10N 20W 11 CBCA	1985		1000		150 linear		3319	Household	1	3 Bedrooms		
10N 20W 11 CBCBCA	1970?						3330	Household	1	3		Pumped Pressured Dosed
10N 20W 11 CBCBD	1978		1000		125 Linear		3339	Household	1	2 Bedrooms	150	
10N 20W 11 CBCCC	1975		1000		150 lin-6 ring		3338	Household	1	3 Bedrooms		
10N 20W 11 CBCD	1991		1000		3 at 65		3332	Household	1	3 Bedrooms	100+	
10N 20W 11 CBCDA							3310	Household	2	7		House and a Rental
10N 20W 11 CBCDD	1995		1000		3 at 95		3310	Household	1	2	120	
10N 20W 11 CBDB	1977		1000		188 Linear		3315	Household	1	3 Bedrooms		
10N 20W 11 CBDCD	1992		1000		4 at 45		3309	Household	2	6 Bedrooms	200+	
10N 20W 11 CCBAA	1991	Y	1000		200 Linear	30"-40"	3322	Household	1	2 Bedrooms	105	
10N 20W 11 CCBDB	1979	Y	1000		5 Rings		3325	Household	1	3 Bedrooms		
10N 20W 11 CCCAC2							3306	Household	1	2		Tank with a Ring
10N 20W 11 CCCCCA	1962		2000	-1.5	85		3435	Household	1	2		Home Built Tank
10N 20W 11 CDACAD	1990		1000		2 at 50		3265	Commercial	1 Bank	4 Employees		

Florence area septic system information

Location	Date installed	Replace?	Size of tank (gal)	Depth to top of tank (ft)	Length of drain field (ft)	Depth of Drain Field (ft)	Elevation (ft)	Purpose of tank	No. households/businesses served	No. people served	Distance from nearest well (ft)	Remarks
10N 20W 11 CDACDC	1993		1000		3 at 80		3270	Household	1	3 Bedrooms	100+	>8 to G.W.
10N 20W 11 CDAD	1995	Y	2-1500		4 at 75		3258	Commercial	Grocery store		102	
10N 20W 11 CDCCB	1980		1000		150 Linear		3269	Household	1	2 Bedrooms		
10N 20W 11 CDCDA	1993	Y	1000		4 at 60		3260	Household	1	3 Bedrooms	100+	156' to the Zip Trip Well
10N 20W 11 CDDAA	1984		1500		4 at 85		3259	Household	2	6 Bedrooms		
10N 20W 11 CDDCBA	1994		1000		225 Linear	2' sand fill	3260	Commercial	Zip Trip			
10N 20W 11 DB	1996				3 at 70		3362	Household	1	3 Bedrooms		
10N 20W 11 DBBAAA	1978		1000		180 Linear		3251	Household	1	2 Bedrooms		Water Line for this Subdivision
10N 20W 11 DBBAB	1978		1000		180 Linear		3253	Household	1	2 Bedrooms		Water Line for this Subdivision
10N 20W 11 DBBBB	1984		1000		2 sets 3' rings		3265	Household	1	2	150	Next to the Well for the Subdivision
10N 20W 11 DBCAB	1985				150 Linear		3257	Commercial	Dentist Office	1		
10N 20W 11 DBCDBB	1995		1600		3 at 90		3255	Com. & HH	Business, house	2 + Business	100	
10N 20W 11 DCADA	1996		1500		3 at 90	2'	3305	Household	House, cabin	4 Bedrooms		Cess pool, house; septic tank cabin & trlr
10N 20W 11 DCBCBB	1995	Y	1000	18-24"	Drainbed		3255	Commercial	Restaurant, bus.		~100	Press. dosed, 2 systems, alternate 3 mos
10N 20W 11 DCCAD	1994				3 at 71		3240	Household		2	100+	
10N 20W 14 ABCA	1993		1000		255 Linear		3239	Household		3 Bedrooms	115	
10N 20W 14 ABCBCB	1993		1000				3243	Household	1	4	100+	
10N 20W 14 ABCCA	1993		1000		320 Linear		3221	Household	1	3 Bedrooms	100+	
10N 20W 14 ABCCC	1995		1000		3 at 80		3250	Household	1	3 Bedrooms	130	
10N 20W 14 BAAABC	1993		1000		160 Linear		3257	Commercial	Office Building	14 Employees	100+	
10N 20W 14 BABAA	1990		1000		6' deep seep pit		3262	Household	1	2 Bedrooms		
10N 20W 14 BABAD	1980's	Y	1000		3 at 50		3265	Commercial	Clothing Store			
10N 20W 14 BABC	1993		1000		180 sq. ft.		3271	Household	1	3 Bedrooms	102	
10N 20W 14 BABCB	1993		1000		16x30 Bed		3250	Household	1	2 Bedrooms	100+	
10N 20W 14 BACAAAB	1995		1000		330 Linear		3255	Household	1	3 Bedrooms	100+	Capped Ends
10N 20W 14 BACBA	1993	Y	1000		150 Linear		3262	Household	1	2 Bedrooms		
10N 20W 14 BACBAC	1996		1000		5' rings		3262	Household	1	5	50+/-	
10N 20W 14 BACBDB	1977		1000		3 at 50		3264	Commercial	Post Office, old	3 Employees	160	System may since have been replaced
10N 20W 14 BACCB	1987	Y	1000		400 sqft Bed		3270	Household	1	2 Bedrooms		
10N 20W 14 BACCBBA	1994		1000	3+/-	4 at 40		3362	Household	1	2	40	
10N 20W 14 BACDD	1995		1000		210 Linear		3245	Household	1	7	100+	
10N 20W 14 BADA	1996		1000		285 Linear	2' Trench	3241	Household	1	3 Bedrooms	100+	
10N 20W 14 BBABB	1977		1000		375sqft,6-7'Rings		3297	Household	1	3 Bedrooms		
10N 20W 14 BBABD	1975		1000		7 Rings Pit		3298	Household	1	3 Bedrooms		
10N 20W 14 BBABD	1975		1000		7 Rings Pit		3298	Household	1	3 Bedrooms		
10N 20W 14 BBACA	1975		1000		3 at 40		3292	Household	1	3		
10N 20W 14 BBACB	1997		1000		145 linear		3280	Household	1	2 Bedrooms	100	
10N 20W 14 BBACC	1976		1000		150 Linear		3285	Household	1	3 Bedrooms		
10N 20W 14 BBADC	1975		1000		3 at 40		3280	Household	1	3 Bedrooms	120	
10N 20W 14 BBBAA	1990	Y	1000		3 at 90		3297	Household	1	3 Bedrooms		

Florence area septic system information

Location	Date installed	Replace?	Size of tank (gal)	Depth to top of tank (ft)	Length of drain field (ft)	Depth of Drain Field (ft)	Elevation (ft)	Purpose of tank	No. households/businesses served	No. people served	Distance from nearest well (ft)	Remarks
10N 20W 14 BBBAA	1993		1000		195 Linear		3305	Household	1	2	150+	
10N 20W 14 BBCAD	1976		1000		150 Linear		3283	Household	1	3 Bedrooms		
10N 20W 14 BBBCDA	1976		1000		150 Linear		3290	Household	1	3 Bedrooms		
10N 20W 14 BBBCDC	1992		1000		3 at 55		3278	Household	1	2 Bedrooms		
10N 20W 14 BBDA	1972		1000		2 at 75		3280	Household	1	3 Bedrooms	100	3 lots with identical septic systems
10N 20W 14 BBDA	1988	Y	1000		640 sqft Bed		3278	Household	1	3 Bedrooms	106	
10N 20W 14 BBDBA	1976		1000		150 Linear		3280	Household	1	3 Bedrooms		
10N 20W 14 BBDBA	1974		1000		Seepage Pit		3278	Household	1	3 Bedrooms	164	
10N 20W 14 BBDBD	1976		1000		2 at 60		3282	Household	1	3 Bedrooms		
10N 20W 14 BBDCBC	1975		1000	<6"	150 Linear		3282	Household	1	3 Bedrooms	75+/-	
10N 20W 14 BBDC	1976		1000		3 at 40		3281	Household	1	3 Bedrooms		
10N 20W 14 BBDD	1975		1000		10 Rings Pit		3260	Com. & HH	Laundromat, tlr	6		
10N 20W 14 BBDDCC	1986		1000	1	210 Linear		3263	Household	1	2	111	Identical system, shop behind house
10N 20W 14 BCD	1997		1000		3 at 70		3251	Household	1	3 Bedrooms	100+	
10N 20W 14 BCDDB	1987		1500 & 500		300 Linear		3259	Com. & HH	Conven store, apt			
10N 20W 14 BCDDB	1988		1000		2 at 100		3259	Commercial	RV Dump	10 RV Sites		
10N 20W 14 BCDDB	1993	Y	2-1000		5 at 100		3258	Commercial				
10N 20W 14 BDB	1996		1000		3 at 70		3240	Household	1	3 Bedrooms	100+	
10N 20W 14 BDBB	1993		1500		2 at 100		3250	Household	House, Shop	2 Bedrooms	100+	
10N 20W 14 BDBC	1993		1000		3 at 80		3255	Household	1	3 Bedrooms	100+	
10N 20W 14 BDBD	1996		1000		5 at 55		3247	Household	1	4 Bedrooms		
10N 20W 14 CBABBB	1984		1000	2	Rings		3260	Household	1	4	110	
10N 20W 14 CBCAD	1989		1000		210 Linear		3267	Household	1	3 Bedrooms		
10N 20W 14 CBCDA			1000 or 1500				3255	Household	1	2		
10N 20W 14 CBCDB	1990		1000		195 Linear		3261	Household	1	3 Bedrooms		
10N 20W 14 CBCDC	1992		1000		195 Linear		3260	Household	1	3 Bedrooms	110	
10N 20W 14 CBDC	1990		1000		195 Linear		3260	Household	1	3 Bedrooms		
10N 20W 14 CBDC	1990		1000		333 Linear		3245	Household	1	3 Bedrooms		
10N 20W 14 CBDCDD	1990		1000		195 Linear		3257	Household	1	3 Bedrooms		
10N 20W 14 CBDD	1988		1000		3 at 70		3223	Household	1	3 Bedrooms		
10N 20W 14 CCAAD	1988		1000		3 at 70		3215	Household	1	3 Bedrooms	100	
10N 20W 14 CCABB	1990		1000		260 Linear		3259	Household	1	4 Bedrooms		
10N 20W 14 CCADA	1988		1000		210 Linear		3263	Household	1	3 Bedrooms		
10N 20W 14 CCBBB	1993		1000		3 at 80		3265	Household	1	3 Bedrooms	100	
10N 20W 14 CCBC	1990		1000		195 Linear		3262	Household	1	3 Bedrooms		
10N 20W 14 CCBD	1991		1000		195 Linear		3260	Household	1	3 Bedrooms		
10N 20W 14 CCCAAB	1992		1500		390 Linear	1'	3258	Household	1	3 Bedrooms	85	Shallow Capped
10N 20W 14 CCCCC	1992		1000		6 at 60		3265	Household	1	2	150	Shallow Capped
10N 20W 14 CCCDA	1990		1000		285 Linear		3255	Household	1	3 Bedrooms		Raised System
10N 20W 14 CCGDD	1990		1000		195 Linear		3260	Household	1	3 Bedrooms		Raised Drain Field
10N 20W 14 CCDA	1995		1000		195 Linear		3230	Household	1	2	110	Raised Drain Field

Florence area septic system information

Location	Date installed	Replace?	Size of tank (gal)	Depth to top of tank (ft)	Length of drain field (ft)	Depth of Drain Field (ft)	Elevation (ft)	Purpose of tank	No. households/businesses served	No. people served	Distance from nearest well (ft)	Remarks
10N 20W 14 CCDCB	1990		1000		375 Linear		3255	Household	1	3 Bedrooms		
10N 20W 14 CCDDDC	1991		1000		195 Linear		3244	Household	1	3 Bedrooms		Raised System
10N 20W 14 CDAABC	1991		1000		2 at 100		3215	Household	1	3 Bedrooms	150	
10N 20W 15 ACADAD							3350	Household	1	2		
10N 20W 15 ACADBD							3355	Household	1	2		
10N 20W 15 ACBBCC			1000		200		3385	Household	1	3	400	
10N 20W 15 ADDDDA	1995		1000		Ring System		3260	Household	1	3 Bedrooms	100+	
10N 20W 15 DAAAAB	1991	Y	1000		380 Linear		3260	Household	1	4 Bedrooms		>60" to G.W.
10N 20W 15 DAABB	1995		1000		240 Linear		3270	Com. & HH	House, auto Shop	4		
10N 20W 15 DABBBA	1995		1000		320 Linear	1-1.5	3310	Household	House, Trailer	4 Bedrooms		Shallow Capped
10N 20W 15 DBAAAAB	1986		1000		240 Linear		3310	Household	1	2		
10N 20W 15 DBBAB	1993		1000		3 at 100		3330	Household	1	3 Bedrooms	350	Depth to G.W. >8'