

North Carolina Department of Environment and Natural Resources
Division of Water Quality

943 Washington Square Mall, Washington, NC 27889

Pumping Test Record

Skyco #14

Constant Rate Test

Site: Skyco #14, Roanoke Is., Dare Co.

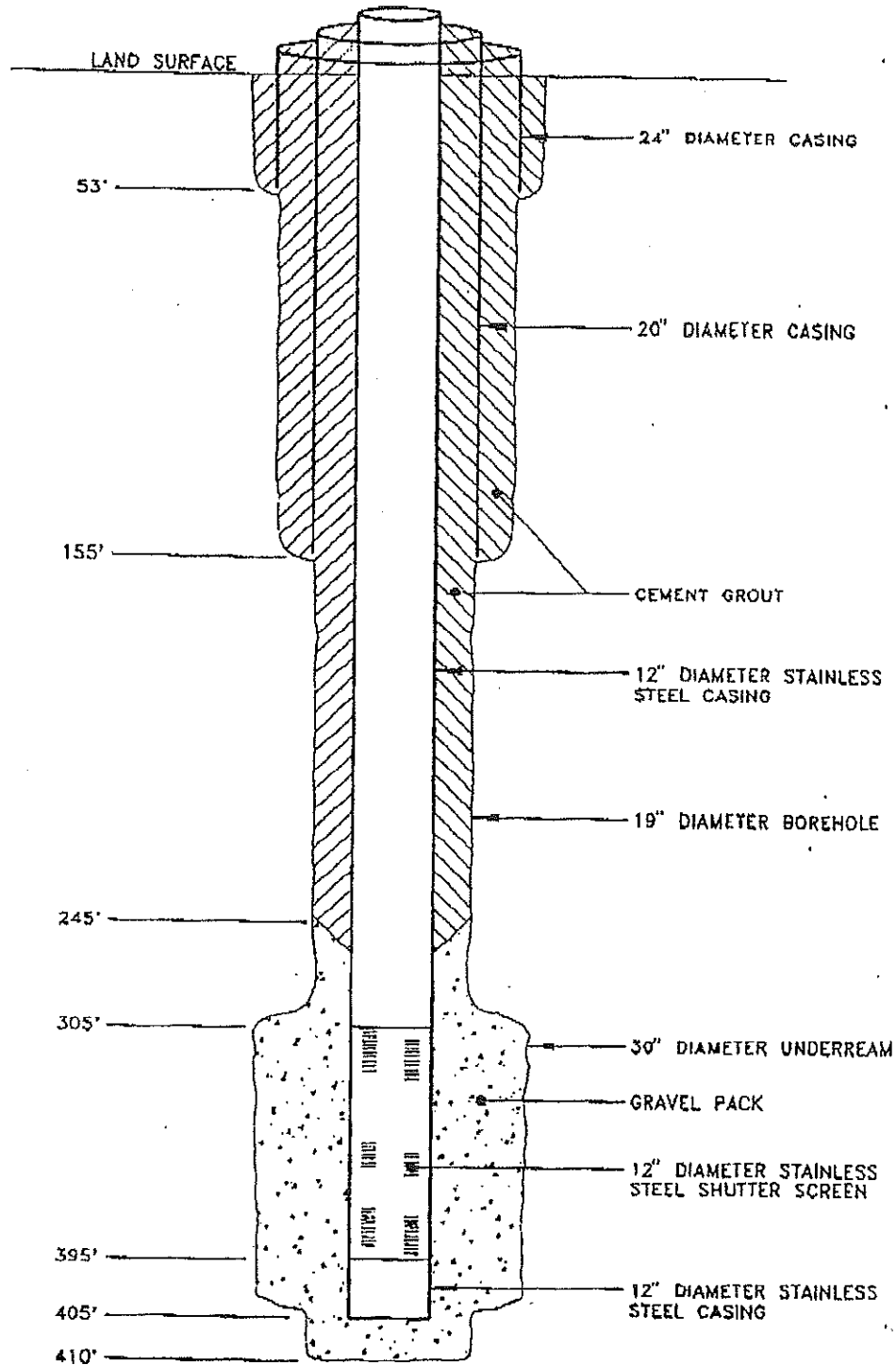
Test Conducted By: GMA

Well Construction Permit No. WS07-00862

1. WELL LOCATION:	Nearest Tn. <u>Manteo</u>	County: <u>Dare</u>	
		Quadrangle: <u>Manteo</u>	
2. OWNER:	<u>Dare County Water, 600 Mustian Street, Kill Devil Hills, NC 27948</u>		
	Name	Address	
3. USE OF WELL:	() Domestic	(X) Public	() Industry () Other
4. WELL DEPTH:	<u>200</u> ft.	Casing Diameter: <u>10</u> in.	Casing type: <u>0.365-in Steel</u>
5. DRILL CONTRACTOR:	<u>Skipper's Well Drilling</u>	Was casing grouted?	<u>Yes</u>
6. STATIC WATER LEVEL	<u>17.29</u>	feet below top of casing	
	Date measured <u>4/12/2007</u>	Casing is:	<u>3</u> ft. above land surface.
7. WELL YIELD	<u>495</u> gpm	Specific capacity	<u>10.95</u> gpm/ft-dd
8. PUMPING WATER LEVEL:	<u>62.52</u>	After 24 hrs	<u>495</u> gpm
9. CHLORINATION:	Type <u>HTH</u>	Amount	<u>10 lbs.</u>
10. TIME AND DATE PUMP STARTED:	<u>4/12/07 9:08 AM</u>	PUMP STOPPED:	<u>4/13/07 9:10 AM</u>
11. WATER LEVEL MEAS. DEVICE:	<u>Electric Tape and Press. Trans.</u>	FLOW MEAS. DEVICE:	<u>inline flow meter</u>
12. TEST PUMP:	Type: <u>Submersible</u>	Make: <u>Ga. Pacific</u>	Horsepower <u>30</u>
	Capacity: <u>400</u> gpm	at <u>200</u> ft. TDH	Intake Depth <u>126'</u>
13. SIGNATURE OF PERSON PERFORMING TEST	<u>Kelley A. Smith</u>		

RWS 1

RODANTHE WELLFIELD R.O. No. 1



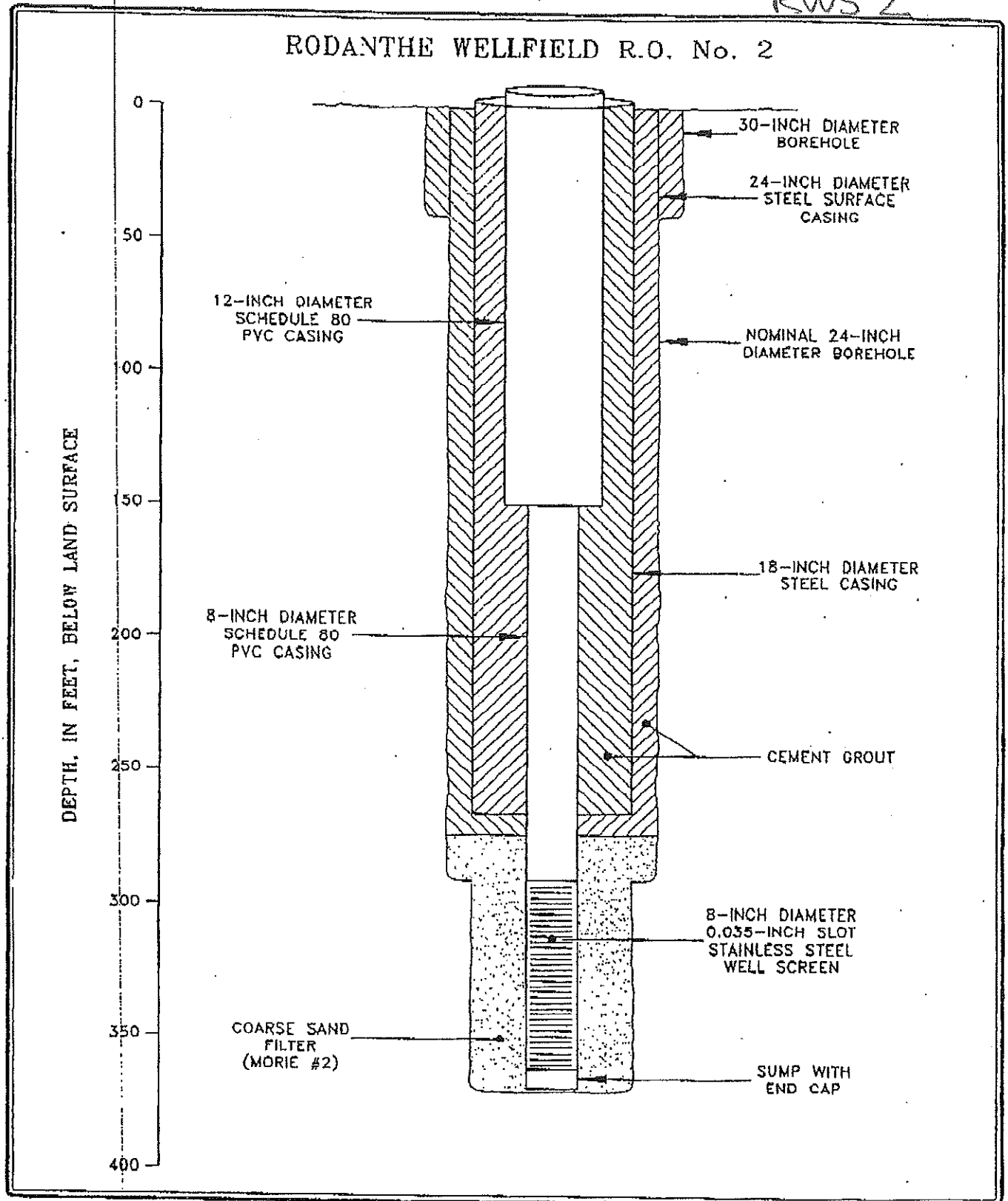
ViroGroup

AIR • WATER • SOIL TECHNOLOGY

DRN BY: CAM	DWG. NO. A-013159NB-2	DATE: 5/9/95
PROJECT NAME: RODANTHE R.O.		NUMBER: 01-03159,00

FIGURE V-1. SCHEMATIC DIAGRAM SHOWING THE CONSTRUCTION DETAILS OF R.O. No. 1.

RWS 2



ViroGroup	<i>AIR • WATER • SOIL TECHNOLOGY</i>
	DRN. BY: CAM DWG NO. A-013159NA-2 DATE: 3/9/95
	PROJECT NAME: RODANTHE R.O. NUMBER: 01-03159.00

FIGURE V-2. CONSTRUCTION DETAILS OF R.O. No. 2.

WELL CONSTRUCTION RECORD

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Bobby L Harrell CERTIFICATION # 2936

WELL CONTRACTOR COMPANY NAME Magette Well & Pump Co., Inc. PHONE # 252 332-2265

STATE WELL CONSTRUCTION PERMIT# _____ ASSOCIATED WO PERMIT# _____
(if applicable) (if applicable)

1. WELL USE (Check Applicable Box): Residential Municipal/Public Industrial Agricultural
Monitoring Recovery Heat Pump Water Injection Other If Other, List Use _____

2. WELL LOCATION:

Nearest Town: Stumpy Point County Dare
Well #1 beside ball field
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
 Ridge Slope Valley Flat
(check appropriate box)
Latitude/longitude of well location _____

3. OWNER: Stumpy Point Water & Sewer District (degrees/minutes/seconds)
Address PO Drawer 1000 Latitude/longitude source: GPS Topographic map
(Street or Route No.) (check box)

Manteo NC 27954
City or Town State Zip Code

DEPTH DRILLING LOG
From To Formation Description

Area code- Phone number _____

4. DATE DRILLED May 2002

5. TOTAL DEPTH: 197'

6. DOES WELL REPLACE EXISTING WELL? YES NO

7. STATIC WATER LEVEL Below Top of Casing: 9.53 FT.
(Use "+" if Above Top of Casing)

8. TOP OF CASING IS 2 FT. Above Land Surface*

*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.

9. YIELD (gpm): 125 METHOD OF TEST 24 hour test

10. WATER ZONES (depth): 172-192

11. DISINFECTION: Type HTH Amount 3 lb.

12. CASING: Wall Thickness
or Weight/Ft. Material
From 0 To 50 Ft. 16" SDR 21 PVC
From +2 To 172 Ft. 6" SDR 21 PVC
From 192 To 197 Ft. 6" SCH 10 Stainless

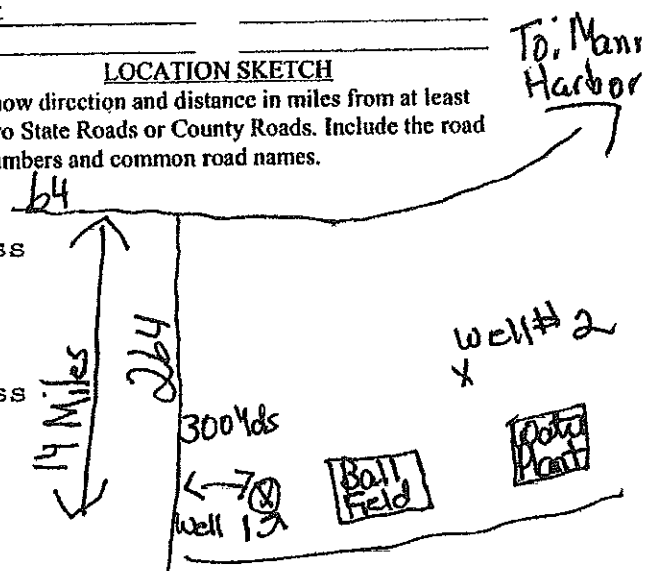
13. GROUT: Depth Material Method
From 0 To 50 Ft. neat cement pump
From 50 To 155 Ft. benonite pump

14. SCREEN: Depth Diameter Slot Size Material
From 172 To 192 Ft. 6 1/2 in. .025 in. stainless
From _____ To _____ Ft. _____ in. _____ in. _____

15. SAND/GRAVEL PACK: Depth Size Material
From 155 To 197 Ft. 2 Ricci
From _____ To _____ Ft. _____ _____

16. REMARKS: Specific capacity 4.19 gpm per foot drawdown

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

Bobby L Harrell

SIGNATURE OF PERSON CONSTRUCTING THE WELL

5/10/02

DATE

NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
OFFICE OF WATER AND AIR RESOURCES

STUMPY PT 1

GROUND WATER DIVISION

P. O. Box 27687 - Raleigh, N. C. 27611

PUMPING TEST
RECORD

- Conducted by: Chris Foldesi Well Construction Permit No. _____
1. WELL LOCATION: Nearest Town: Stumpy Point County: Dare
Beside Ball Field Well # 1 Quadrangle No. _____
(Road No., Community, or Subdivision and Lot No.)
2. OWNER: Stumpy Point Water & Sewer District PO Drawer 1000 Manteo NC 27954
Name Address
3. USE OF WELL: () Domestic (X) Public () Industrial () Irrigation () _____
Other _____
4. WELL DEPTH: 197' ft. Casing Diameter 6" in. Casing type: PVC
5. DRILLING CONTRACTOR: Magette Well & Pump Co., Inc. Was casing grouted? YES
6. STATIC WATER LEVEL: 9.53 ft. ^{above} (below) top of casing. Casing is 2.5 ft. above land
surface. Date Measured: May 6, 2002
7. WELL YIELD: 125 gpm. Specific Capacity: 4.19 gpm/ft.-dd.
8. PUMPING WATER LEVEL: 39.42 ft. after 24 hours at 125 gpm.
9. CHLORINATION: Type DTH Amount 3 pounds
10. TIME AND DATE PUMP STARTED: _____ TIME AND DATE PUMP STOPPED: _____
11. WATER LEVEL MEASURING DEVICE: _____ FLOW MEASURING DEVICE: _____
12. TEST PUMP: Type _____ Make _____ Horse Power _____
Capacity _____ gpm at _____ T D H. Intake Depth _____ ft.

Time	Water Level	Pumping Rate			Remarks
STATIC	9.53'				
30 sec.	28.90	125			
6 min.	29.20	125			
8 min.	30.22	125			
10 min.	30.74	125			
12 min.	31.13	125			
14 min.	31.50	125			
16 min.	31.78	125			
18 min.	32.02	125			
20 min.	32.27	125			
22 min.	32.82	125			
24 min.	33.21	125			
26 min.	33.58	125			

WELL CONSTRUCTION RECORD

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section

WELL CONTRACTOR (INDIVIDUAL) NAME (print) LARRY SKIPPER CERTIFICATION # 2483
 WELL CONTRACTOR COMPANY NAME SKIPPERS Well Drilling PHONE # 910 3212720
 STATE WELL CONSTRUCTION PERMIT# _____ ASSOCIATED WQ PERMITS# _____
 (if applicable) (if applicable)

1. WELL USE (Check Applicable Box): Residential Municipal/Public Industrial Agricultural
 Monitoring Recovery Heat Pump Water Injection Other If Other, List Use _____

2. WELL LOCATION:
 Nearest Town: STUMPY POINT County DAKE
 (Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
 Ridge Slope Valley Flat
 (check appropriate box)
 Latitude/longitude of well location

3. OWNER: DAKE COUNTY
 Address _____
 (Street or Route No.)

 City or Town State Zip Code

(degrees/minutes/seconds)
 Latitude/longitude source: GPS Topographic map
 (check box)

DEPTH		DRILLING LOG Formation Description
From	To	

4. DATE DRILLED 11-14-00
 5. TOTAL DEPTH: 230
 6. DOES WELL REPLACE EXISTING WELL? YES NO
 7. STATIC WATER LEVEL Below Top of Casing: _____ FT.
 (Use "+" if Above Top of Casing)
 8. TOP OF CASING IS 3 FT. Above Land Surface*
 *Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
 9. YIELD (gpm): 97 METHOD OF TEST PUMP
 10. WATER ZONES (depth): 170 - 190

LOCATION SKETCH
 Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.

11. DISINFECTION: Type 70% HTH Amount 10 lbs
 12. CASING:

From	To	Depth	Diameter	Wall Thickness or Weight/Ft.	Material
<u>4</u>	<u>3</u>	<u>250</u>	<u>4"</u>	<u>Galv'd</u>	<u>PVC</u>

From	To	Depth	Material	Method
<u>0</u>	<u>2</u>	<u>150</u>	<u>Cement</u>	<u>Pump</u>

From	To	Depth	Diameter	Slot Size	Material
<u>170</u>	<u>190</u>	<u>4</u>	<u>in.</u>	<u>3/8</u>	<u>in. PVC</u>

From	To	Depth	Size	Material
<u>152</u>	<u>230</u>	<u>Ft.</u>	<u>NO. 2</u>	<u>MOLIE</u>

16. REMARKS: _____
 I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER
Larry Skipper SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE 11-15-00

FOR OFFICE USE ONLY
 QUAD. NO. _____ SERIAL NO. _____
 Lat. _____ Long. _____ RO _____
 Minor Basin _____
 Basin Code _____
 Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GLENN ENDRESON

DRILLER REGISTRATION NUMBER: 1328

STATE WELL CONSTRUCTION PERMIT NUMBER: W50700375

1. WELL LOCATION: (Show sketch of the location below)

WELL # 3D

Nearest Town: FRISCO County: DARE

WATER PLANT ROAD
 (Road, Community, or Subdivision and Lot No.)

OWNER DARE COUNTY
 ADDRESS 600 MUSTIAN ST
 (Street or Route No.)

Kill Devil Hills N.C. 27948
 City or Town State Zip Code

DATE DRILLED 2-26-98 USE OF WELL WITHDRAWAL
 TOTAL DEPTH 80'

CUTTINGS COLLECTED YES NO

DOES WELL REPLACE EXISTING WELL? YES NO

STATIC WATER LEVEL Below Top of Casing: 6 FT.
 (Use "-" if Above Top of Casing)

TOP OF CASING IS 3 FT. Above Land Surface

Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

YIELD (gpm): 75 METHOD OF TEST AIR COMPRESSOR

WATER ZONES (depth): 60' - 80'

CHLORINATION: Type HTH Amount 6 oz.
 CASING:

DEPTH		DRILLING LOG
From	To	Formation Description
0'	10'	FINE SAND
10'	15'	COARSE SAND & SHELLS
15'	35'	MED. FINE SAND
35'	45'	FINE SAND
45'	50'	MED. SAND
50'	60'	MED. SAND & SHELLS
60'	75'	MED. to COARSE SAND & SHELLS
75'	82'	MED. to COARSE SAND
82'	90'	FINE CLEAN SAND - NO SILT

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

From	To	Depth	Diameter	Wall Thickness or Weight/Ft.	Material
0'	60'	6	#40	PVC	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

13. GROUT:

From	To	Depth	Material	Method
0'	60'	6	BENTONITE	PRESSURE
_____	_____	_____	_____	_____

4. SCREEN:

From	To	Depth	Diameter	Slot Size	Material
60'	80'	6	12	in.	STAINLESS STEEL
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

15. SAND/GRAVEL PACK:

From	To	Depth	Size	Material
60'	90'	#2	GRAVEL	
_____	_____	_____	_____	_____

6. REMARKS: SPEC. CAP. 4.2

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Glenn Endreson
 SIGNATURE OF CONTRACTOR OR AGENT

3-19-98
 DATE

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WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY			
QUAD. NO.	_____	SERIAL NO.	_____
Lat.	_____	Long.	_____ RO _____
Minor Basin	_____		
Basin Code	_____		
Header Ent.	_____	GW-1 Ent.	_____

DRILLING CONTRACTOR: GLEN ENDRERSON

STATE WELL CONSTRUCTION PERMIT NUMBER: WS3700192
CHWA WELL 4

DRILLER REGISTRATION NUMBER: 1328

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: FRISCO County: DARE

Water Plant Road
 (Road, Community, or Subdivision and Lot No.)

2. OWNER CHWA
 ADDRESS PO Box 578
 (Street or Route No.)
Buxton N.C. 27920
 City or Town State Zip Code

DEPTH		DRILLING LOG
From	To	Formation Description
0	12'	FINE SAND
12'	22'	COARSE SAND
12'	37'	FINE to MED. SAND
37'	42'	COARSE SAND
42'	52'	FINE SAND & CLAY
52'	60'	COARSE SAND & SHELLS
60'	72'	COARSE to MED. SAND
72'	75'	SHELLS, CLAY FINE SAND

3. DATE DRILLED 12-14-95 USE OF WELL WITHDRAWAL
 4. TOTAL DEPTH 75'
 5. CUTTINGS COLLECTED YES NO
 6. DOES WELL REPLACE EXISTING WELL? YES NO
 7. STATIC WATER LEVEL Below Top of Casing: 4' FT.
 (Use "+" if Above Top of Casing)
 8. TOP OF CASING IS 3 FT. Above Land Surface*

* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 100 METHOD OF TEST AIR Comp.

10. WATER ZONES (depth): 62'
72'

11. CHLORINATION: Type HTH Amount 10.02

12. CASING:

From	To	Depth	Diameter	Wall Thickness or Weight/Ft.	Material
0	62	Ft.	6"	#40	PVC
_____	_____	Ft.	_____	_____	_____
_____	_____	Ft.	_____	_____	_____

LOCATION SKETCH
 (Show direction and distance from at least two State Roads, or other map reference points)

13. GROUT:

From	To	Depth	Material	Method
0	50	Ft.	PORTLAND	PRESSURE
_____	_____	Ft.	CEMENT	Grout

14. SCREEN:

From	To	Depth	Diameter	Slot Size	Material
62	72	Ft.	6 in.	14 in.	STAINLESS
_____	_____	Ft.	_____ in.	_____ in.	_____
_____	_____	Ft.	_____ in.	_____ in.	_____

15. SAND/GRAVEL PACK:

From	To	Depth	Size	Material
60	73	Ft.	#2	GRAVEL
_____	_____	Ft.	_____	_____

16. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Handwritten signatures]

12-16-95

FOR OFFICE USE ONLY			
QUAD. NO.	_____	SERIAL NO.	_____
Lat	_____	Long.	_____
Minor Basin	_____		
Basin Code	_____		
Header Ent.	_____ GW-1 Ent		

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GLENN ENDRESON

DRILLER REGISTRATION NUMBER: 1328

STATE WELL CONSTRUCTION PERMIT NUMBER: WS700193
CHWA WELL #5

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: FRISCO County: DARE

Water plant Road
 (Road, Community, or Subdivision and Lot No.)

2. OWNER CHWA
 ADDRESS P.O. Box 578
 (Street or Route No.)
Buxton N.C. 27920
 City or Town State Zip Code

DEPTH		DRILLING LOG
From	To	Formation Description
0	14'	FINE SAND
14'	24'	COARSE SAND
24'	52'	MED. TO FINE SAND
52'	58'	COARSE SAND & SHELS
58'	72'	COARSE SAND - LITTLE SHELS
72'	75'	COARSE SAND, SHELS, CLAY-FINES

3. DATE DRILLED 12-13-95 USE OF WELL WITHDRAWAL
 4. TOTAL DEPTH 75'
 5. CUTTINGS COLLECTED YES NO
 6. DOES WELL REPLACE EXISTING WELL? YES NO
 7. STATIC WATER LEVEL Below Top of Casing: 4 FT.
 (Use "+" if Above Top of Casing)

8. TOP OF CASING IS 3 FT. Above Land Surface*

* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 100 METHOD OF TEST AIR COMP.
 10. WATER ZONES (depth): 60'
70'

11. CHLORINATION: Type HTH Amount 1002

12. CASING:

From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
0	60'	6"	#40	PC
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

13. GROUT:

From	Depth To	Material	Method
0	50	Portland Cement	PRESSURE GROUT
_____	_____	_____	_____

14. SCREEN:

From	Depth To	Diameter	Slot Size	Material
60	70	6 in.	14 in.	STAINLESS
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

15. SAND/GRAVEL PACK:

From	Depth To	Size	Material
60	72	#2	GRAVEL
_____	_____	_____	_____

16. REMARKS:

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature]

12-16-95

DATE

FOR OFFICE USE ONLY
 QUAD. NO. _____ SERIAL NO. _____
 Lat. _____ Long. _____ RO _____
 Minor Basin: _____
 Basin Code: _____
 Header Ent. _____ GW-1 Ent _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: Gleau Engstrom

STATE WELL CONSTRUCTION PERMIT NUMBER: WS700192
CHWA - WELL 6

DRILLER REGISTRATION NUMBER: 1328

1. WELL LOCATION: (Show sketch of the location below)
 Nearest Town: FRISCO County: DARE

WATER plant Road
 (Road, Community, or Subdivision and Lot No.)

2. OWNER CHWA
 ADDRESS PO. Box 578
 (Street or Route No.)
Buxton N.C. 27920
 City or Town State Zip Code

DEPTH		DRILLING LOG
From	To	Formation Description
0	14'	FINE SAND
14'	28'	COARSE SAND
28'	40'	MED. SAND
40'	52'	FINE GRAY SAND
52'	60'	COARSE SAND & SHELLS
60'	65'	MED. SAND & SHELLS
65'	73'	COARSE SAND & SHELLS
73'	75'	SHELLS, GRAY CLAY - FINE

3. DATE DRILLED 12-1-95 USE OF WELL WITHDRAWAL
 4. TOTAL DEPTH 75
 5. CUTTINGS COLLECTED YES NO
 6. DOES WELL REPLACE EXISTING WELL? YES NO
 7. STATIC WATER LEVEL Below Top of Casing: 4 FT.
 (Use "+" if Above Top of Casing)

8. TOP OF CASING IS 3 FT. Above Land Surface*
 * Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 100 METHOD OF TEST AIR Comp.

10. WATER ZONES (depth): 63'
73'

11. CHLORINATION: Type HTH Amount 10 oz.

12. CASING:

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
0	0	63	6"	#40	PVC
From	To	Ft.			
From	To	Ft.			

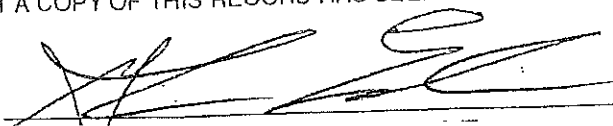
13. GROUT:
 From 0 To 50' Ft. Portland Cement Method Pressure Grout
 From _____ To _____ Ft. _____ Method _____

14. SCREEN:
 From 63 To 73 Ft. 6 in. 14 in. Stainless
 From _____ To _____ Ft. _____ in. _____ in. _____
 From _____ To _____ Ft. _____ in. _____ in. _____

15. SAND/GRAVEL PACK:
 From 60 To 74 Ft. #2 Gravel
 From _____ To _____ Ft. _____ _____

16. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

 12-5-95
 DATE

FOR OFFICE USE ONLY			
QUAD. NO. _____	SERIAL NO. _____		
Lat. _____	Long. _____	RO _____	
Minor Basin _____			
Basin Code _____			
Header Ent. _____			GW-1 Ent

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GLEN EXPEDITION

DRILLER REGISTRATION NUMBER: 1328

STATE WELL CONSTRUCTION PERMIT NUMBER: WS0700192
CHWA WELL 7

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: FEISCO County: DARE

WATER PLANT ROAD
 (Road, Community, or Subdivision and Lot No.)

2. OWNER: CHWA
 ADDRESS: P.O. Box 578
 (Street or Route No.)
BERTON N.C. 27920
 City or Town State Zip Code

DEPTH		DRILLING LOG
From	To	Formation Description
0'	10'	FINE SAND
10'	26'	COARSE SAND
26'	43'	MED. SAND - FINE SAND
43'	50'	MED. SAND
50'	58'	MED. SAND
58'	63'	MED. TO COARSE SAND
63'	72'	COARSE SAND & SHELLS
72'	75'	SHELLS, FINE SAND & CLAY

3. DATE DRILLED 12-11-95 USE OF WELL WITHDRAWAL
 4. TOTAL DEPTH 75
 5. CUTTINGS COLLECTED YES NO
 6. DOES WELL REPLACE EXISTING WELL? YES NO
 7. STATIC WATER LEVEL Below Top of Casing: 4' FT.
 (Use "+" if Above Top of Casing)

8. TOP OF CASING IS 3 FT. Above Land Surface*

* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 100 METHOD OF TEST AIR COMP.

10. WATER ZONES (depth): 72

11. CHLORINATION: Type HTH Amount 1002

12. CASING:

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
0	0	62	6"	#40	PVC
From	To	Ft.			
From	To	Ft.			

13. GROUT: Depth Material Method
 From 0 To 50 Ft. PORTLAND CEMENT PRESSURE
 From _____ To _____ Ft. _____ GROUT

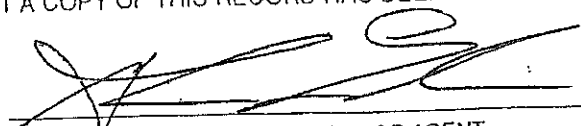
14. SCREEN: Depth Diameter Slot Size Material
 From 62 To 72 Ft. 6 in. 14 in. STAINLESS
 From _____ To _____ Ft. _____ in. _____ in. _____
 From _____ To _____ Ft. _____ in. _____ in. _____

15. SAND/GRAVEL PACK: Depth Size Material
 From 60 To 74 Ft. #2 GEORCEL
 From _____ To _____ Ft. _____ _____

16. REMARKS:

LOCATION SKETCH
 (Show direction and distance from at least two State Roads, or other map reference points)

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.



12-15-95
 DATE

8L

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GLENN ENDRESON

DRILLER REGISTRATION NUMBER: 1328

STATE WELL CONSTRUCTION

PERMIT NUMBER: WS0700192

FOR OFFICE USE ONLY		
QUAD. NO. _____	SERIAL NO. _____	
Lat _____	Long. _____	FO _____
Minor Basin _____		
Basin Code _____		
Header Ent. _____		GW-1 Ent _____

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: FRISCO County: CHWIA WELL 8
DARE

WATER PLANT ROAD

(Road, Community, or Subdivision and Lot No.)

2. OWNER CHWIA - DARE County water Dept.

ADDRESS PO. Box 528

(Street or Route No.)

Benton

City or Town

N.C.

State

279

Zip Code

3. DATE DRILLED 12-7-95 USE OF WELL withdrawal

4. TOTAL DEPTH 72

5. CUTTINGS COLLECTED YES NO

6. DOES WELL REPLACE EXISTING WELL? YES NO

7. STATIC WATER LEVEL Below Top of Casing: 3 FT.

(Use "+" if Above Top of Casing)

8. TOP OF CASING IS 4 FT. Above Land Surface*

* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 100 METHOD OF TEST AIR COMPRESSOR

10. WATER ZONES (depth): 62
72

11. CHLORINATION: Type HTH Amount 10.02

12. CASING:

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
<u>0</u>	<u>62</u>	Ft.	<u>6"</u>	<u>#40</u>	<u>PVC</u>
From _____	To _____	Ft.	_____	_____	_____
From _____	To _____	Ft.	_____	_____	_____

13. GROUT:

From	Depth	To	Material	Method
<u>0</u>	<u>50</u>	Ft.	<u>Portland Cement</u>	<u>PRESSURE Grout</u>
From _____	To _____	Ft.	_____	_____

14. SCREEN:

From	Depth	To	Diameter	Slot Size	Material
<u>62</u>	<u>72</u>	Ft.	<u>6</u>	<u>14</u>	<u>STAINLESS</u>
From _____	To _____	Ft.	_____	_____	_____
From _____	To _____	Ft.	_____	_____	_____

15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
<u>60</u>	<u>74</u>	Ft.	<u>#2</u>	<u>GRAVEL</u>
From _____	To _____	Ft.	_____	_____

16. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature]

12-7-95

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

9L

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY			
QUAD. NO. _____	SERIAL NO. _____		
Lat _____	Long. _____	RO _____	
Minor Basin _____			
Basin Code _____			
Header Ent. _____		GW-1 Ent _____	

DIGGING CONTRACTOR: Stenn Endereson

DRILLER REGISTRATION NUMBER: 1328

STATE WELL CONSTRUCTION PERMIT NUMBER: WS0700192

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: FRISCO County: DARE

WATER ASSOC. ROAD
 (Road, Community, or Subdivision and Lot No.)

2. OWNER CAPE HATTERAS WATER ASSOC.

ADDRESS P.O. BOX 578
 (Street or Route No.)

Buxton N.C. 27920
 City or Town State Zip Code

3. DATE DRILLED 4-24-96 USE OF WELL SUPPLY

4. TOTAL DEPTH 75'

5. CUTTINGS COLLECTED YES NO

6. DOES WELL REPLACE EXISTING WELL? YES NO

7. STATIC WATER LEVEL Below Top of Casing: 5 FT.

8. TOP OF CASING IS 3 FT. Above Land Surface*
(Use "+" if Above Top of Casing)

*Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 100 METHOD OF TEST Compressor

10. WATER ZONES (depth): 60
70

11. CHLORINATION: Type H.T.H. Amount 6 oz.
 CASING:

DEPTH		DRILLING LOG
From	To	Formation Description
0'	14'	MEDIUM FINE BROWN SAND
14'	26'	COARSE GRAY SAND
26'	29'	GRAY CLAY
29'	38'	SHELLS & COARSE SAND
38'	45'	MED. COARSE GRAY SAND
45'	50'	COARSE SAND
50'	55'	SHELLS & (COARSE SAND)
55'	60'	MEDIUM COARSE SAND
60'	70'	COARSE SAND - LITTLE SH.
70'	75'	FINE SAND - CLAY - INTERMITT.

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
From <u>SURFACE</u>	To <u>60</u>	Ft.	<u>6"</u>	<u>#40</u>	<u>PVC</u>
From _____	To _____	Ft.	_____	_____	_____
From _____	To _____	Ft.	_____	_____	_____

13. GROUT:

From	Depth	To	Material	Method
From <u>SURFACE</u>	To <u>50</u>	Ft.	<u>PORTLAND CEMENT</u>	<u>PRESSURE GROUT</u>
From _____	To _____	Ft.	_____	_____

14. SCREEN:

From	Depth	To	Diameter	Slot Size	Material
From <u>60</u>	To <u>70</u>	Ft.	<u>6</u>	<u>20</u>	<u>STAINLESS</u>
From _____	To _____	Ft.	_____	_____	_____
From _____	To _____	Ft.	_____	_____	_____

15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
From <u>55</u>	To <u>70</u>	Ft.	<u>#2</u>	<u>GRAVEL</u>
From _____	To _____	Ft.	_____	_____

16. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Stenn Endereson
 SIGNATURE OF CONTRACTOR OR AGENT

5-20-96
 DATE

10 L

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: Glenn Engelson

DRILLER REGISTRATION NUMBER: 1328

FOR OFFICE USE ONLY	
QUAD. NO. _____	SERIAL NO. _____
Lat _____	Long. _____ RO _____
Minor Basin _____	
Basin Code _____	
Header Ent. _____	GW-1 Ent _____

STATE WELL CONSTRUCTION PERMIT NUMBER: WS6700192

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: FRISCO County: DARE

WATER ASSOC. ROAD
 (Road, Community, or Subdivision and Lot No.)

2. OWNER CAPE HATTERAS WATER ASSOC.

ADDRESS P.O. Box 598
 (Street or Route No.)
Buxton N.C. 27920
 City or Town State Zip Code

DEPTH		DRILLING LOG Formation Description
From	To	
0-14'		MEDIUM FINE SAND
14'-28'		COARSE GRAY SAND
28'-34'		SHELLS - COARSE SAND
34'-37'		COARSE SAND
37'-42'		GRAY CLAY
42'-50'		GRAY SAND & SHELLS
50'-56'		GRAY CLAY
56'-61'		SHELLS
61'-72'		COARSE SAND - SOME SHELLS
72'-75'		FINE SAND & CLAY

3. DATE DRILLED 4-26-96 USE OF WELL SUPPLY

4. TOTAL DEPTH 75'

5. CUTTINGS COLLECTED YES NO

6. DOES WELL REPLACE EXISTING WELL? YES NO

7. STATIC WATER LEVEL Below Top of Casing: 5 FT.
 (Use "+" if Above Top of Casing)

8. TOP OF CASING IS 3 FT. Above Land Surface
 * Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 100 METHOD OF TEST COMPRESSOR

10. WATER ZONES (depth): 60'
70'

11. CHLORINATION: Type H.T.H. Amount 6.02

12. CASING:

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
From <u>SURFACE</u>	To <u>60</u>	Ft.	<u>6"</u>	<u>#40</u>	<u>PVC</u>
From _____	To _____	Ft.	_____	_____	_____
From _____	To _____	Ft.	_____	_____	_____

13. GROUT:

From	Depth	To	Material	Method
From <u>SURFACE</u>	To <u>50</u>	Ft.	<u>PORTLAND</u>	<u>PRESSURE</u>
From _____	To _____	Ft.	<u>CEMENT</u>	<u>GROUT</u>

14. SCREEN:

From	Depth	To	Diameter	Slot Size	Material
From <u>60</u>	To <u>70</u>	Ft.	<u>6</u>	<u>20</u>	<u>STAINLESS</u>
From _____	To _____	Ft.	_____	_____	_____
From _____	To _____	Ft.	_____	_____	_____

15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
From <u>55</u>	To <u>70</u>	Ft.	<u>#2</u>	<u>GRAVEL</u>
From _____	To _____	Ft.	_____	_____

16. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Glenn Engelson
 SIGNATURE OF CONTRACTOR OR AGENT

5-20-96
 DATE

Submit original to Division of Environmental Management and copy to well owner.

FOR OFFICE USE ONLY
 QUAD. NO. _____ SERIAL NO. _____
 Lat _____ Long. _____ RO _____
 Minor Basin: _____
 Basin Code: _____
 Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GLENN ANDRESON

STATE WELL CONSTRUCTION

DRILLER REGISTRATION NUMBER: 1328

PERMIT NUMBER: W50700395

WELL LOCATION: (Show sketch of the location below)

WELL # 11 D

Nearest Town: FRISCO County: DARE

Water Plant Road
 (Road, Community, or Subdivision and Lot No.)

OWNER DARE COUNTY

ADDRESS 600 MUSTIAN ST
 (Street or Route No.)

Kill Devil Hills N.C. 27948
 City or Town State Zip Code

DATE DRILLED 3-3-98 USE OF WELL Withorhaul

TOTAL DEPTH 95'

CUTTINGS COLLECTED YES NO

DOES WELL REPLACE EXISTING WELL? YES NO
 STATIC WATER LEVEL Below Top of Casing: 6 FT.
 (Use "-" if Above Top of Casing)

TOP OF CASING IS 3 FT. Above Land Surface*

*Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0119

YIELD (gpm): 75 METHOD OF TEST AIR COMPRESSOR

WATER ZONES (depth): 75' - 95'

DEPTH		DRILLING LOG
From	To	Formation Description
0'	10'	FINE SAND
10'	22'	COARSE SAND
22'	26'	FINE SAND
26'	40'	COARSE SAND
40'	50'	COARSE SAND & SHELLS
50'	55'	SHELLS
55'	70'	COARSE SAND & SHELLS
70'	75'	SHELLS - clay mixture
75'	80'	SHELLS
80'	90'	SAND SHELLS - mix
90'	100'	SHELLS - SAND - SILTS
		(mix)

CHLORINATION: Type A.T.# Amount 6oz.

If additional space is needed use back of form

CASING:

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

From	Depth	To	Diameter	Well Thickness	Material
				or Weight/Ft.	
0	0	75	6	#46	PVC

GROUT:

From	Depth	To	Material	Method
0	0	70	Bestwhite	pressure

SCREEN:

From	Depth	To	Diameter	Size	Material
75	75	95	6	12	Stainless Steel

SAND/GRAVEL PACK:

From	Depth	To	Size	Material
75	75	95	#2	GRAVEL

REMARKS: Spec. Cap. 4.2

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature] 3-17-98
 SIGNATURE OF CONTRACTOR OR AGENT DATE

FOR OFFICE USE ONLY
 QUAD. NO. _____ SERIAL NO. _____
 Lat. _____ Long. _____ RO _____
 Minor Basin _____
 Basin Code _____
 Header Ent. _____ GVI-1 Ent _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GLENN ENDRESEN

STATE WELL CONSTRUCTION

DRILLER REGISTRATION NUMBER: 1328

PERMIT NUMBER: W50700375

WELL LOCATION: (Show sketch of the location below)

WELL # 12 D

Nearest Town: ERISCO County: DARE

WATER PLANT ROAD
 (Road, Community, or Subdivision and Lot No.)

OWNER DARE COUNTY

ADDRESS 600 MUSTION ST.
 (Street or Route No.)

KILL DEVIL HILLS N.C. 27948
 City or Town State Zip Code

DATE DRILLED 5-13-98 USE OF WELL WATER

TOTAL DEPTH 95'

CUTTINGS COLLECTED YES NO

DOES WELL REPLACE EXISTING WELL? YES NO

STATIC WATER LEVEL Below Top of Casing: 7 FT.
 (Use "-" if Above Top of Casing)

TOP OF CASING IS 3 FT. Above Land Surface

Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 20 .0113

YIELD (gpm): 25 METHOD OF TEST AIR COMPRESSOR

WATER ZONES (depth): 25'
95'

CHLORINATION: Type A.T.H. Amount 602

1. CASING:

From	To	Depth	Diameter	Well Thickness or Weight Ft.	Material
0	75	Ft.	6	#41	DUC.
From	To	Ft.			
From	To	Ft.			

2. GROUT:

From	To	Depth	Material	Method
0	70	Ft.	BENTONITE	PRESSURE GROUT
From	To	Ft.		

3. SCREEN:

From	To	Depth	Diameter	Slot Size	Material
75	95	Ft.	6	12	STAINLESS STEEL
From	To	Ft.			
From	To	Ft.			

4. SAND/GRAVEL PACK:

From	To	Depth	Size	Material
75	95	Ft.	#2	GRAVEL
From	To	Ft.		

REMARKS: SPEC. CIP. 6

DEPTH		DRILLING LOG
From	To	Formation Description
0 - 11'		FINE SAND
11 - 18'		COARSE SAND
18 - 22'		COARSE SAND & SHELLS
22 - 30'		CLAY - GRAY
30 - 40'		MED. COARSE SAND
40 - 50'		SAND, CLAY - SHELL MIX
50 - 60'		CONCS - SAND & SHELLS
60 - 74'		COARSE SAND SHELLS
74 - 76'		SAND - CLAY - SILTS
76 - 80'		SHELLS
80 - 90'		SHELLS, SAND, SILTS
90 - 100'		SHELLS, SAND, SILTS

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 20. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature]
 SIGNATURE OF CONTRACTOR OR AGENT

3-19-98
 DATE

Submit original to Division of Environmental Management and copy to well owner.

FOR OFFICE USE ONLY		
QUAD. NO.	SERIAL NO.	
Lat	Long.	FO
Minor Basin		
Basin Code		
Header Ent.		GW-1 Ent

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GLENN ENDRESON

DRILLER REGISTRATION NUMBER: 1328

STATE WELL CONSTRUCTION

PERMIT NUMBER: NIS 0700375

WELL LOCATION: (Show sketch of the location below)

WELL # 13D

Nearest Town: FRISCO County: DARE

WATER PLANT ROAD
 (Road, Community, or Subdivision and Lot No.)

OWNER DARE COUNTY

ADDRESS 600 MUSTIAN ST.
 (Street or Route No.)

KILL DEVIL HILLS N.C. 27948
 City or Town State Zip Code

DATE DRILLED 3-5-98 USE OF WELL WITHDRAWAL

TOTAL DEPTH 95'

CUTTINGS COLLECTED YES NO

DOES WELL REPLACE EXISTING WELL? YES NO

STATIC WATER LEVEL Below Top of Casing: 8 FT.

(Use "-" if Above Top of Casing)

TOP OF CASING IS 3 FT. Above Land Surface*

*Casing Terminated above below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

YIELD (gpm): 75 METHOD OF TEST AIR COMPRESSOR

WATER ZONES (depth): 75'
95'

CHLORINATION: Type H.T.H. Amount 602

CASING:

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
<u>0</u>	<u>0</u>	<u>75</u>	<u>6</u>	<u>#40</u>	<u>PVC</u>
From	To	Ft.			
From	To	Ft.			

GROUT:

From	Depth	To	Material	Method
<u>0</u>	<u>0</u>	<u>70</u>	<u>BENTONITE</u>	<u>PREPAC</u>
From	To	Ft.		

SCREEN:

From	Depth	To	Diameter	Slot Size	Material
<u>75'</u>	<u>75'</u>	<u>95'</u>	<u>6</u>	<u>12</u>	<u>STAINLESS STEEL</u>
From	To	Ft.			
From	To	Ft.			

SAND/GRAVEL PACK:

From	Depth	To	Size	Material
<u>75</u>	<u>75</u>	<u>95</u>	<u>#7</u>	<u>GRAVEL</u>
From	To	Ft.		

REMARKS: SPEC. CHG. 9.4

DEPTH		DRILLING LOG
From	To	Formation Description
<u>0'-15'</u>		<u>FINE SAND</u>
<u>15'-30'</u>		<u>COARSE SAND & SHELLS</u>
<u>30'-40'</u>		<u>GRAY CLAY - SHELLS - INTERMEDIATE</u>
<u>40'-55'</u>		<u>COARSE SAND & SHELLS</u>
<u>55'-60'</u>		<u>SHELLS</u>
<u>60'-72'</u>		<u>COARSE SAND & SHELLS</u>
<u>72'-75'</u>		<u>COARSE SAND & CLAY</u>
<u>75'-80'</u>		<u>SHELLS - LITTLE CLAY MIX</u>
<u>80'-100'</u>		<u>SHELLS WITH FINE SAND MIX</u>

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature]
 SIGNATURE OF CONTRACTOR OR AGENT

3-19-98
 DATE

FOR OFFICE USE ONLY		
QUAD. NO.	SERIAL NO.	
Lat. _____	Long. _____	RO _____
Minor Basin _____		
Basin Code _____		
Header Ent. _____	GW-1 Ent _____	

14L

WELL CONSTRUCTION RECORD

INSTALLING CONTRACTOR: GLENN ENDRESEN

DRILLER REGISTRATION NUMBER: 1328

STATE WELL CONSTRUCTION

PERMIT NUMBER: WS0700142

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: FRISCO County: DARE

WATER ASSOC. ROAD
 (Road, Community, or Subdivision and Lot No.)

2. OWNER CARE HATTERAS WATER ASSOC.
 ADDRESS P.O. BOX 578

Buxton N.C. 27920
 City or Town State Zip Code

3. DATE DRILLED 5-3-96 USE OF WELL Supply

4. TOTAL DEPTH 70

5. CUTTINGS COLLECTED YES NO

6. DOES WELL REPLACE EXISTING WELL? YES NO

7. STATIC WATER LEVEL Below Top of Casing: 5 FT.

8. TOP OF CASING IS 3 FT. Above Land Surface*

* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 100 METHOD OF TEST COMPRESSOR

10. WATER ZONES (depth): 60'
70'

11. CHLORINATION: Type HTH Amount 6.02

12. CASING:

DEPTH		DRILLING LOG
From	To	Formation Description
0'	12'	BROWN SAND-MED.
12'	25'	COARSE TO MEDIUM SAND
25'	32'	COARSE GRAY SAND
32'	36'	MEDIUM SAND GRAY
36'	42'	MEDIUM TO FINE SAND
42'	55'	MEDIUM SAND GRAY
55'	61'	COARSE SAND
61'	72'	COARSE SAND & SHELL
72'	75'	SHELLS COARSE SAND

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From <u>SURFACE</u> To <u>60</u> Ft.	<u>6"</u>	<u>#40</u>	<u>PVC</u>
From _____ To _____ Ft.	_____	_____	_____
From _____ To _____ Ft.	_____	_____	_____

13. GROUT:

Depth	Material	Method
From <u>SURFACE</u> To <u>50</u> Ft.	<u>PORTLAND</u>	<u>PRESSURE</u>
From _____ To _____ Ft.	<u>CEMENT</u>	<u>GROUT</u>

14. SCREEN:

Depth	Diameter	Slot Size	Material
From <u>60</u> To <u>70</u> Ft.	<u>6"</u>	<u>20</u> in.	<u>STAINLESS</u>
From _____ To _____ Ft.	_____	_____	_____
From _____ To _____ Ft.	_____	_____	_____

15. SAND/GRAVEL PACK:

Depth	Size	Material
From <u>55</u> To <u>70</u> Ft.	<u>#2</u>	<u>GRAVEL</u>
From _____ To _____ Ft.	_____	_____

16. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Glenn Endresen
 SIGNATURE OF CONTRACTOR OR AGENT

5-20-96
 DATE

FOR OFFICE USE ONLY

QUAD. NO. _____ SERIAL NO. _____

Lat. _____ Long. _____ RO _____

Minor Basin _____

Basin Code _____

Header Ent. _____ GW-1 Ent _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GLENN ENDRESON

STATE WELL CONSTRUCTION

DRILLER REGISTRATION NUMBER: 1328

PERMIT NUMBER: HS0700325

WELL LOCATION: (Show sketch of the location below)

WELL # 15D

Nearest Town: FRISCO County: DARE

Water Plant Road
 (Road, Community, or Subdivision and Lot No.)

OWNER DARE COUNTY

ADDRESS 600 MUSTIAN ST.
 (Street or Route No.)

Kill Devil Hills N.C. 27948
 City or Town State Zip Code

DATE DRILLED 3-4-98 USE OF WELL Withdrawal

TOTAL DEPTH 95'

CUTTINGS COLLECTED YES NO

DOES WELL REPLACE EXISTING WELL? YES NO

STATIC WATER LEVEL Below Top of Casing: 8 FT.
 (Use "-" if Above Top of Casing)

TOP OF CASING IS 3 FT. Above Land Surface*

*Casing Terminated above or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0119

YIELD (gpm): 75 METHOD OF TEST AIR COMPRESSOR

WATER ZONES (depth): 75'
95'

CHLORINATION: Type HTH Amount 602

CASING:

From	Depth	To	Diameter	Wall Thickness or Weight Ft.	Material
From <u>0</u>	Depth <u>75</u>	To <u>75</u> Ft.	<u>6"</u>	<u>#40</u>	<u>PVC</u>
From _____	To _____	Ft.			
From _____	To _____	Ft.			

GROUT:

From	Depth	To	Material	Method
From <u>0</u>	Depth <u>70</u>	To <u>70</u> Ft.	<u>PORTLAND CEMENT</u>	<u>PRESSURE</u>
From _____	To _____	Ft.		

SCREEN:

From	Depth	To	Diameter	Slot Size	Material
From <u>75</u>	Depth <u>95</u>	To <u>95</u> Ft.	<u>6</u> in.	<u>12</u> in.	<u>STAINLESS STEEL</u>
From _____	To _____	Ft.			
From _____	To _____	Ft.			

SAND/GRAVEL PACK:

From	Depth	To	Size	Material
From <u>75</u>	Depth <u>95</u>	To <u>95</u> Ft.	<u>#2</u>	<u>GRAVEL</u>
From _____	To _____	Ft.		

REMARKS: SPEC. CAP. 3.5

DEPTH		DRILLING LOG
From	To	Formation Description
<u>0 - 12'</u>		<u>FINE YELLOW SAND</u>
<u>12' - 28'</u>		<u>COARSE SAND</u>
<u>28' - 36'</u>		<u>COARSE SAND & SHELLS</u>
<u>36' - 40'</u>		<u>GREEN CLAY</u>
<u>40' - 65'</u>		<u>COARSE SAND & SHELLS</u>
<u>65' - 72'</u>		<u>CLAY SHELLS & SAND MIX</u>
<u>72' - 80'</u>		<u>SHELLS</u>
<u>80' - 100'</u>		<u>SHELLS - SAND - SILTS (MIX)</u>

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature]
 SIGNATURE OF CONTRACTOR OR AGENT

3-19-98
 DATE

FOR OFFICE USE ONLY
 QUAD. NO. _____ SERIAL NO. _____
 Lat _____ Long. _____ RO _____
 Minor Basin _____
 Basin Code _____
 Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GLENN ENDRESON

STATE WELL CONSTRUCTION PERMIT NUMBER: W50700325

DRILLER REGISTRATION NUMBER: 1328

WELL LOCATION: (Show sketch of the location below)

WELL # 16 D

Nearest Town: FRISSCO County: DARE

Water Plant Road
 (Road, Community, or Subdivision and Lot No.)

OWNER DARE COUNTY

ADDRESS 600 Mustang St.
 (Street or Route No.)

Kill Devil Hills N.C. 27948
 City or Town State Zip Code

DATE DRILLED 5-12-98 USE OF WELL Withdrawal

TOTAL DEPTH 95'

CUTTINGS COLLECTED YES NO

DOES WELL REPLACE EXISTING WELL? YES NO

STATIC WATER LEVEL Below Top of Casing: 7 FT.
 (Use "-" if Above Top of Casing)

TOP OF CASING IS 3 FT. Above Land Surface*

*Casing Terminated above or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

YIELD (gpm): 25 METHOD OF TEST AIR COMPRESSOR

WATER ZONES (depth): 25'
95'

CHLORINATION: Type H.T.H. Amount 602

CASING:

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
From <u>0</u>	To <u>25</u>	Ft.	<u>6"</u>	<u>#40</u>	<u>P.V.C.</u>
From _____	To _____	Ft.	_____	_____	_____
From _____	To _____	Ft.	_____	_____	_____

LOCATION SKETCH
 (Show direction and distance from at least two State Roads, or other map reference points)

GROUT:

From	Depth	To	Material	Method
From <u>0</u>	To <u>70</u>	Ft.	<u>BENTONITE</u>	<u>PRESSURE</u>
From _____	To _____	Ft.	_____	<u>GROUT</u>

SCREEN:

From	Depth	To	Diameter	Slot Size	Material
From <u>75</u>	To <u>95</u>	Ft.	<u>6</u>	<u>12</u>	<u>STAINLESS STEEL</u>
From _____	To _____	Ft.	_____	_____	_____
From _____	To _____	Ft.	_____	_____	_____

SAND/GRAVEL PACK:

From	Depth	To	Size	Material
From <u>75</u>	To <u>95</u>	Ft.	<u>#2</u>	<u>GRAVEL</u>
From _____	To _____	Ft.	_____	_____

REMARKS: SPEC. CAP. 3.5

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature] 3-19-98
 SIGNATURE OF CONTRACTOR OR AGENT DATE
 Submitted to: Division of Environmental Management and sent to well owner

FOR OFFICE USE ONLY
 QUAD. NO. _____ SERIAL NO. _____
 Lat. _____ Long. _____ RO _____
 Minor Basin _____
 Basin Code _____
 Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DIGGING CONTRACTOR: GLENN ENDRERSON

STATE WELL CONSTRUCTION

OWNER REGISTRATION NUMBER: 1328

PERMIT NUMBER: WS0700375

WELL LOCATION: (Show sketch of the location below)

WELL # 17D

Nearest Town: FRISCO County: PERC

Water Plant Road
 (Road, Community, or Subdivision and Lot No.)

OWNER PERC County

ADDRESS 600 Multihar St.
 (Street or Route No.)

KILL DEVIL HILLS N.C. 27948
 City or Town State Zip Code

DATE DRILLED 3-11-98 USE OF WELL WATER SUPPLY

TOTAL DEPTH 95'

CUTTINGS COLLECTED YES NO

DOES WELL REPLACE EXISTING WELL? YES NO

STATIC WATER LEVEL Below Top of Casing: 8 FT.
 (Use "-" if Above Top of Casing)

TOP OF CASING IS 3 FT. Above Land Surface

Well Terminated above/below land surface is illegal unless a variance is issued
 in accordance with 15A NCAC 2C .0119

YIELD (gpm): 75 METHOD OF TEST AIR COMPRESSOR

WATER ZONES (depth): 75'

CHLORINATION: Type LiTH. Amount: 602

DISINFECTANT: _____

DEPTH		DRILLING LOG
From	To	Formation Description
0 - 12'		FINE SAND
12' - 25'		MED COARSE SAND
25' - 32'		COARSE SAND & SHELLS
32' - 37'		CLAY CLAY
37' - 40'		MED. SAND - FINES
40' - 50'		COARSE SAND & SHELLS
50' - 60'		COARSE SAND & SHELLS
60' - 70'		COARSE SAND & SHELLS
70' - 78'		SAND CLAY SHELLS - med
78' - 82'		SHELLS - sand - med clay
82' - 90'		SHELLS - sand - med clay
90' - 100'		SHELLS

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

From	Depth	To	Diameter	Wgt. Thickness or Weight Ft.	Material
0		75	6"	440	PVC
From	To	Ft.			
From	To	Ft.			

GROUT:

From	Depth	To	Material	Method
0		70	Bentonite	PRESSURE
From	To	Ft.		

SCREEN:

From	Depth	To	Diameter	Slot Size	Material
75		95	6"	12"	STAINLESS STEEL
From	To	Ft.			
From	To	Ft.			

SAND-GRAVEL PACK:

From	Depth	To	Size	Material
75		95	#2	Gravel
From	To	Ft.		

REMARKS: Spec. Cap. 3

I HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C .0119 WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.


 SIGNATURE OF CONTRACTOR OR AGENT
 DATE: 3-19-98
 Permit original to Division of Environmental Management and copy to well owner

FOR OFFICE USE ONLY
 QUAD. NO. _____ SERIAL NO. _____
 Lat. _____ Long. _____ E.O. _____
 Minor Basin: _____
 Basin Code: _____
 Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DIGGING CONTRACTOR: GLENN ENDRERSON

STATE WELL CONSTRUCTION PERMIT NUMBER: W50700375

OWNER REGISTRATION NUMBER: 1328

WELL LOCATION: (Show sketch of the location below)

WELL # 19D

Nearest Town: FRISCO County: DARE

WATER Plant Road
 (Road, Community, or Subdivision and Lot No.)

OWNER: DARE County

ADDRESS: 600 MUSTIAN St.
 (Street or Route No.)

Kill Devil Hills N.C. 27948
 City or Town State Zip Code

DATE DRILLED 5-14-98 USE OF WELL WATER

TOTAL DEPTH 95'

CUTTINGS COLLECTED YES NO

DOES WELL REPLACE EXISTING WELL? YES NO

STATIC WATER LEVEL Below Top of Casing: 8 FT.

TOP OF CASING IS 3 FT. Above Land Surface
 (Use "-" if Above Top of Casing)

Casing Terminated at or below land surface is illegal unless a variance is issued in accordance with 15A NCAG 2C .0119

YIELD (gpm): 25 METHOD OF TEST AIR COMPRESSOR

WATER ZONES (depth): 25'
95'

CHLORINATION: Type H.T.H. Amount 6.02
 SING:

DEPTH		DRILLING LOG
From	To	Formation Description
0	10'	FINE SAND
10'	22'	COARSE SAND
22'	41'	COARSE SAND & SHELLS
41'	50'	GRAY CLAY
50'	62'	FINE SAND
62'	76'	COARSE SAND
76'	80'	SHELLS
80'	90'	SHELLS & SAND
90'	100'	SHELLS - SAND CUTS

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distances from at least two State Roads, or other map reference points)

From	To	Depth	Diameter	Wall Thickness or Weight Ft.	Material
0	25	Ft.	6"	#40	P.H.C.
From	To	Ft.			
From	To	Ft.			

GROUT:

From	To	Depth	Material	Method
0	70	Ft.	BENTONITE	PRESSURE
From	To	Ft.		

SCREEN:

From	To	Depth	Diameter	Slot Size	Material
75	95	Ft.	6 in.	12 in.	STAINLESS STEEL
From	To	Ft.			
From	To	Ft.			

SAND/GRAVEL PACK:

From	To	Depth	Size	Material
75	95	Ft.	#2	GRAVEL
From	To	Ft.		

REMARKS: SPEC. CAP. 4.3

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAG 2C WELL CONSTRUCTION STANDARDS AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature]
 SIGNATURE OF CONTRACTOR OR AGENT

3-19-98
 DATE

Submit original to Division of Environmental Management and copy to well owner.

FOR OFFICE USE ONLY
 QUAD. NO. _____ SERIAL NO. _____
 Lat _____ Long. _____ RO _____
 Minor Basin _____
 Basin Code _____
 Header Ent. _____ GW-1 Ent _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GLENN ENDRESON

STATE WELL CONSTRUCTION PERMIT NUMBER: WS0700190
CHWA WELL 20

DRILLER REGISTRATION NUMBER: 1328

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: FRISCO County: DARE

Water Plant Road
 (Road, Community, or Subdivision and Lot No.)

2. OWNER C. HWA

ADDRESS P.O. Box 728
 (Street or Route No.)

Buxton N.C. 27920
 City or Town State Zip Code

3. DATE DRILLED 11-20-95 USE OF WELL Withdrawal

4. TOTAL DEPTH 74'

5. CUTTINGS COLLECTED YES NO

6. DOES WELL REPLACE EXISTING WELL? YES NO

7. STATIC WATER LEVEL Below Top of Casing: 4 FT.
 (Use "+" if Above Top of Casing)

8. TOP OF CASING IS 3 FT. Above Land Surface*

* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 100 METHOD OF TEST Air Comp.

10. WATER ZONES (depth): 62'
72'

11. CHLORINATION: Type HTH Amount 10.02

12. CASING:

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
0	0	62	6"	#40	PVC
From	To	Ft.			
From	To	Ft.			

13. GROUT:

From	Depth	To	Material	Method
0	0	50	Portland	PRESSURE
From	To	Ft.	Cement	GROUT

14. SCREEN:

From	Depth	To	Diameter	Slot Size	Material
62	62	72	6	14	STAINLESS
From	To	Ft.			
From	To	Ft.			

15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
60	60	73	#2	GRAVEL
From	To	Ft.		

16. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature]

12-18-95
 DATE

DEPTH		DRILLING LOG
From	To	Formation Description
0'	14'	FINE GRAY SAND
14'	48'	COARSE GRAY SAND
48'	50'	FINE GRAY SAND
50'	60'	FINE GRAY SAND LITTLE CLAY
60'	74'	COARSE SAND & SHELS

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

FOR OFFICE USE ONLY	
QUAD. NO. _____	SERIAL NO. _____
Lat. _____	Long. _____ RO _____
Minor Basin _____	
Basin Code _____	
Header Ent. _____	GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: GLENN ENDRESON

DRILLER REGISTRATION NUMBER: 1328

STATE WELL CONSTRUCTION WSD 700193

PERMIT NUMBER: CHWA Well #21

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: FRISCO County: DARE

P.O. Box WATER PLANT ROAD
 (Road, Community, or Subdivision and Lot No.)

2. OWNER CHWA
 ADDRESS P.O. Box 498
 (Street or Route No.)

Buxton N.C. 27920
 City or Town State Zip Code

3. DATE DRILLED 9-2-95 USE OF WELL Withdrawal

4. TOTAL DEPTH 74'

5. CUTTINGS COLLECTED YES NO

6. DOES WELL REPLACE EXISTING WELL? YES NO

7. STATIC WATER LEVEL Below Top of Casing: 5' FT.

8. TOP OF CASING IS 3 FT. Above Land Surface*
 (Use "+" if Above Top of Casing)

* Casing Terminated at/or below land surface is illegal unless a variance is issued
 in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 100 METHOD OF TEST Air Comp.

10. WATER ZONES (depth): 63
73

11. CHLORINATION: Type HTH Amount 1002

12. CASING:

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
<u>0</u>	<u>03</u>	<u>63</u>	<u>6"</u>	<u>#40</u>	<u>PVC</u>
From _____	To _____	Ft. _____	_____	_____	_____
From _____	To _____	Ft. _____	_____	_____	_____

13. GROUT:

From	Depth	To	Material	Method
<u>0</u>	<u>0</u>	<u>50</u>	<u>PORTLAND</u>	<u>PRESSURE</u>
From _____	To _____	Ft. _____	<u>CEMENT</u>	<u>GROUT</u>

14. SCREEN:

From	Depth	To	Diameter	Slot Size	Material
<u>03</u>	<u>03</u>	<u>73</u>	<u>6"</u>	<u>#14</u>	<u>STAINLESS</u>
From _____	To _____	Ft. _____	_____	_____	_____
From _____	To _____	Ft. _____	_____	_____	_____

15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
<u>00</u>	<u>00</u>	<u>73</u>	<u>#2</u>	<u>GRAVEL</u>
From _____	To _____	Ft. _____	_____	_____

16. REMARKS:

DEPTH		DRILLING LOG
From	To	Formation Description
<u>0'-30'</u>		<u>COARSE SAND</u>
<u>30'-45'</u>		<u>SAND & SHELLS COARSE</u>
<u>45'-68'</u>		<u>MED. COARSE SAND (GRAY)</u>
<u>68'-73</u>		<u>SHELLS & COARSE SAND</u>
<u>73'-74</u>		<u>GRAY CLAY</u>
_____		_____
_____		_____
_____		_____
_____		_____
_____		_____
_____		_____
_____		_____
_____		_____
_____		_____
_____		_____

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.


 SIGNATURE OF CONTRACTOR OR AGENT

12-18-95
 DATE

FOR OFFICE USE ONLY
 QUAD. NO. _____ SERIAL NO. _____
 Lat _____ Long. _____ RO _____
 Minor Basin _____
 Basin Code _____
 Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DILLING CONTRACTOR: GLENN ENDRESCA

STATE WELL CONSTRUCTION

DILLER REGISTRATION NUMBER: 1328

PERMIT NUMBER: WS0700375

WELL LOCATION: (Show sketch of the location below)

WELL # 22

Nearest Town: FRISCO County: DARE

WATER Plant Road
 (Road, Community, or Subdivision and Lot No.)

OWNER DARE County

ADDRESS 600 MUSTIAN St.
 (Street or Route No.)

KILL DEVIL HILLS N.C. 27948
 City or Town State Zip Code

DATE DRILLED 3-16-98 USE OF WELL Water

TOTAL DEPTH 90'

CUTTINGS COLLECTED YES NO

DOES WELL REPLACE EXISTING WELL? YES NO

STATIC WATER LEVEL Below Top of Casing: 7 FT.
 (Use "+" if Above Top of Casing)

TOP OF CASING IS 3 FT. Above Land Surface*

*Casing Terminated above or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0113

YIELD (gpm): 75 METHOD OF TEST AIR COMPRESSOR

WATER ZONES (depth): 70'
90'

CHLORINATION: Type H.T.H. Amount 0.02

CASING:

DEPTH		DRILLING LOG
From	To	Formation Description
0	12'	FINE SAND
12'	21'	COARSE SAND
21'	33'	COARSE SAND & SHELLS
33'	37'	COARSE CLAY
37'	44'	FINE SAND & CLAY
44'	60'	MED. TO FINE SAND & CLAY
60'	72'	MED. SAND
72'	80'	SHELLS, SAND MIX
80'	90'	SHELLS, SILTS - SAND
90'	95'	SILTS & CLAY

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

From	Depth	To	Diameter	Well Thickness or Weight/Ft.	Material
0	0	70	6"	#40	P.V.C.
From		To			
From		To			

3. GROUT:

From	Depth	To	Material	Method
0	0	70	Portland	PRESSURE
From		To		

SCREEN:


From	Depth	To	Diameter	Slot Size	Material
70	70	90	6	12	STAINLESS STEEL
From		To			
From		To			

SAND/GRAVEL PACK:

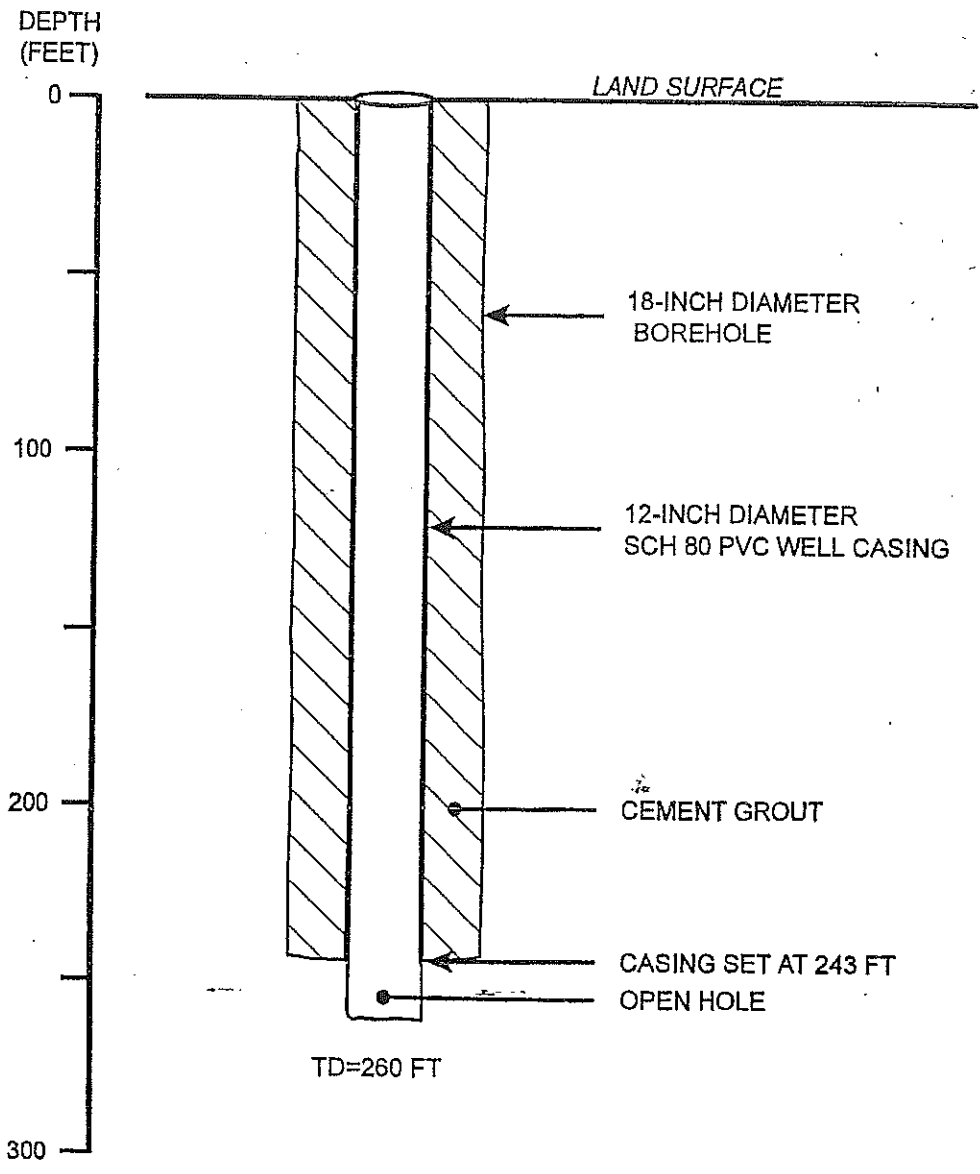
From	Depth	To	Size	Material
70	70	90	#2	GRAVEL
From		To		

REMARKS: SPER. CIP. 2

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.


 SIGNATURE OF CONTRACTOR OR AGENT
 Submit original to Division of Environmental Management and copy to well owner.
 DATE 3-19-98

CONSTRUCTION DETAILS
 DARE COUNTY HATTERAS WATER SYSTEM
 REVERSE OSMOSIS PRODUCTION WELL
PW-1



Pr. Name: DARE CO. HATTERAS R.O. WELLFIELD	
Pr. No. FH7-574	Date: 11/25/98
DWG No. DAREPW1.CDR	Rev. No.

GROUNDWATER
 AND
 ENVIRONMENTAL SERVICES

FIGURE III-1. SCHEMATIC DIAGRAM SHOWING CONSTRUCTION DETAILS OF REVERSE OSMOSIS PRODUCTION WELL PW-1.

TABLE III-2.

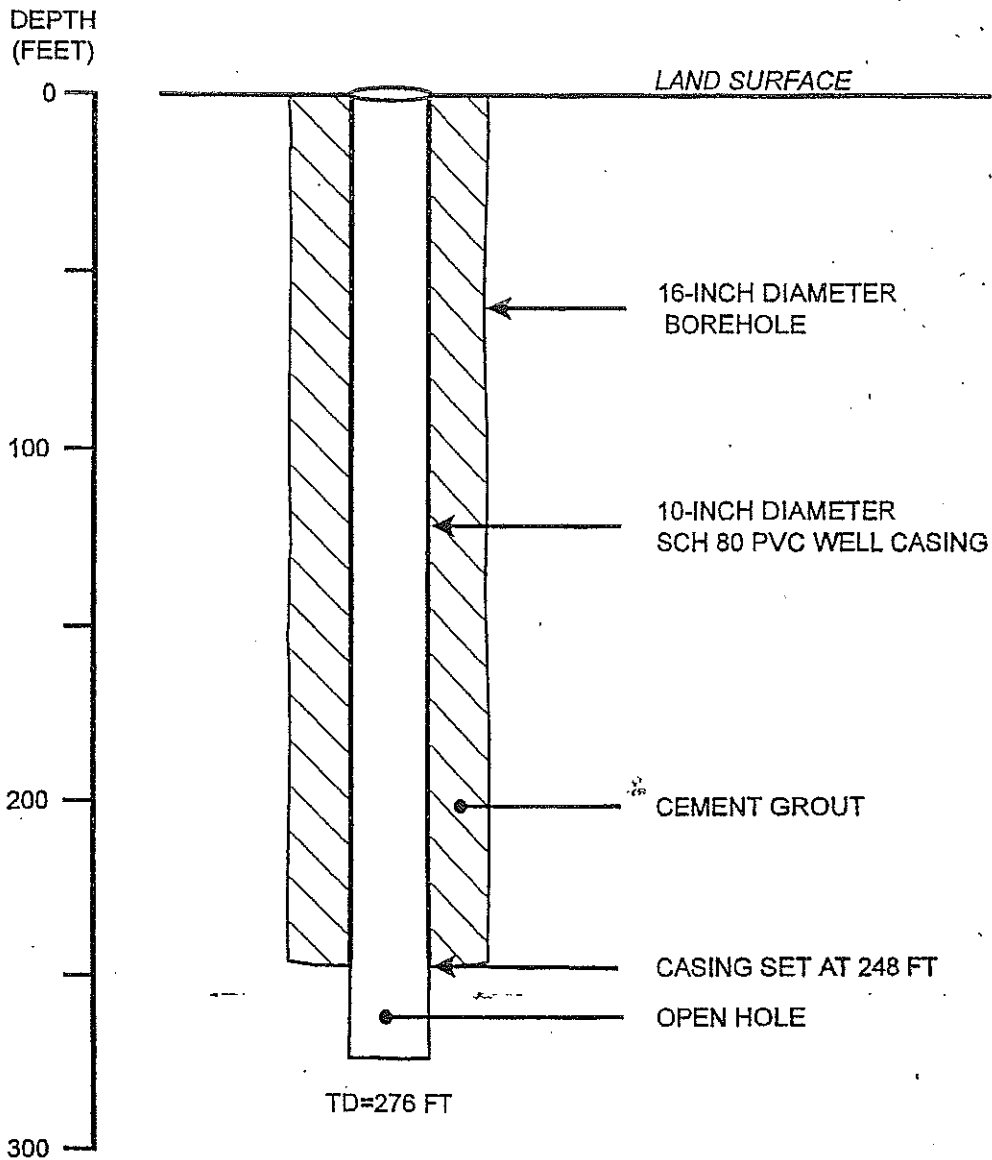
HATTERAS REVERSE OSMOSIS WELLFIELD
STEP DRAWDOWN TEST - WELL PW-1

Test Date: 11/18/98 Recorded By: Scott Manahan Static Water Level: 2.81 ft. Below Measuring Point (BMP)*				
Pumping Rate (GPM)	Time (Minutes)	Pumping Water Level (Ft. BMP)	Drawdown (Feet)	Specific Capacity (GPM/Ft)
600	5	11.94	9.13	62.9
	10	11.98	9.17	
	20	12.08	9.27	
	30	12.10	9.29	
	40	12.21	9.40	
	50	12.28	9.47	
	60	12.30	9.49	
	80	12.35	9.54	
700	5	15.08	12.27	56.0
	10	14.83	12.02	
	20	15.15	12.34	
	30	15.17	12.36	
	40	15.25	12.44	
	50	15.28	12.47	
	60	15.30	12.49	
	80	15.32	12.51	
770	5	17.30	14.49	51.7
	10	17.28	14.47	
	20	17.22	14.41	
	30	17.38	14.57	
	40	17.41	14.60	
	50	17.42	14.61	
	60	17.42	14.61	
	70	17.44	14.63	
	80	17.46	14.65	
	140	17.57	14.76	
	380	17.63	14.82	
	430	17.68	14.87	
	460	17.69	14.88	
1440	17.67	14.86		

*Measuring point is top of casing approximately 2.8 feet above land surface.

CONSTRUCTION DETAILS
 DARE COUNTY HATTERAS WATER SYSTEM
 REVERSE OSMOSIS PRODUCTION WELL

PW-2



Pr. Name: DARE CO. HATTERAS R.O. WELLFIELD

Pr. No. FH7-574

Date: 11/25/98

DWG No. DAREPW2.CDR Rev. No.

GROUNDWATER
 AND
 ENVIRONMENTAL SERVICES

FIGURE III-2. SCHEMATIC DIAGRAM SHOWING CONSTRUCTION DETAILS OF REVERSE OSMOSIS PRODUCTION WELL PW-2.

TABLE III-3.

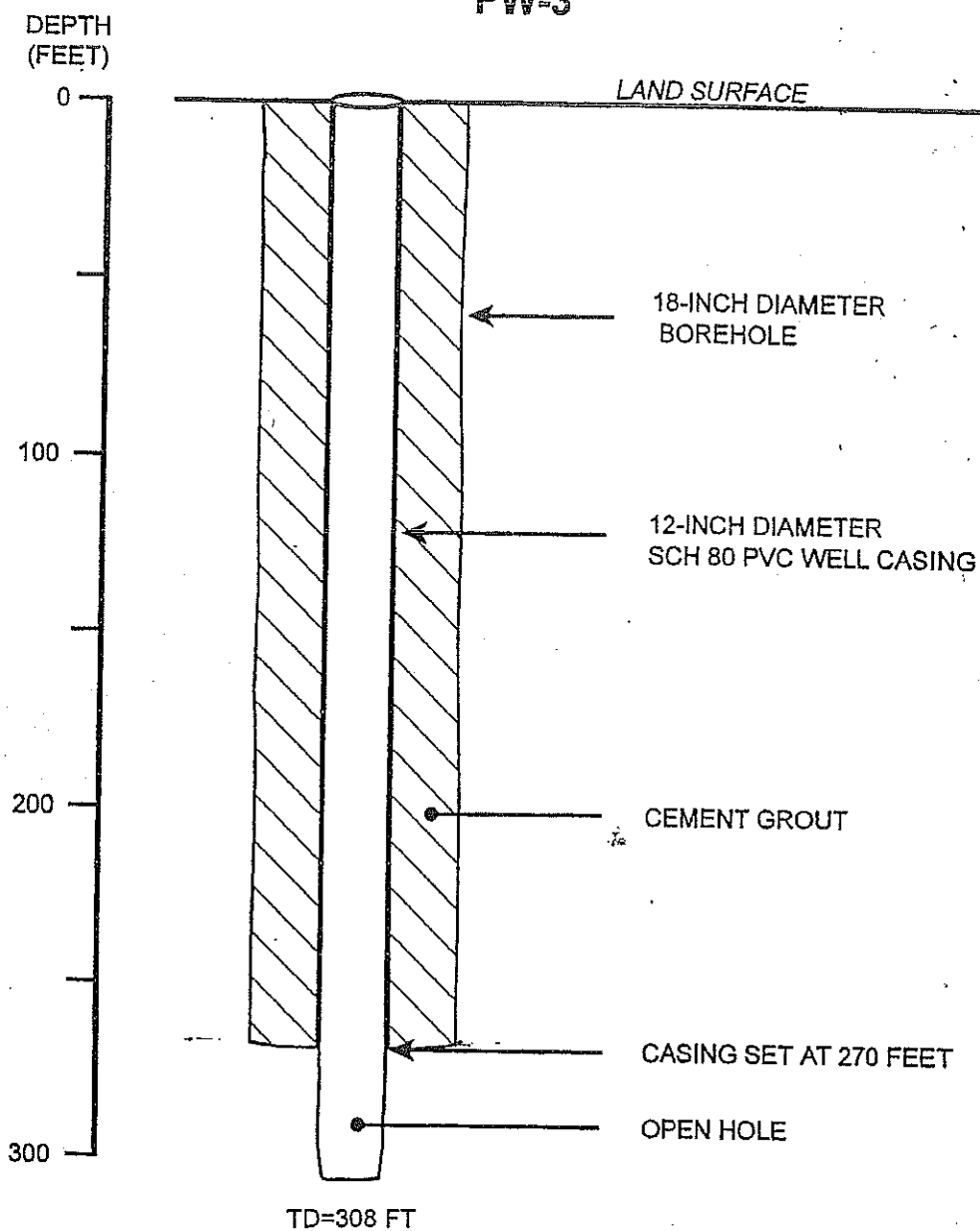
HATTERAS REVERSE OSMOSIS WELLFIELD
STEP DRAWDOWN TEST - WELL PW-2

Test Date: 8/04/95 Recorded By: Mike Romero Static Water Level: 4.62 ft. Below Measuring Point (BMP)*				
Pumping Rate (GPM)	Time (Minutes)	Pumping Water Level (Ft. BMP)	Drawdown (Feet)	Specific Capacity (GPM/Ft)
700	5	7.55	2.93	152.8
	10	7.73	3.11	
	20	7.69	3.07	
	30	8.07	3.45	
	40	8.25	3.63	
	50	8.15	3.53	
	60	8.05	3.43	
	1380	8.44	3.87	
	2040	8.97	4.35	
	3120	8.87	4.25	
	4140	8.90	4.28	
	4440	9.20	4.58	
4800	8.94	4.32		
1000	5	9.53	4.95	170.9
	10	10.04	5.46	
	20	10.31	5.73	
	30	10.34	5.76	
	40	10.35	5.77	
	50	10.23	5.65	
	60	10.27	5.64	
	300	10.43	5.85	
	630	10.30	5.72	
1380	10.37	5.75		
1375	5	12.25	7.67	171.9
	10	12.43	7.85	
	20	12.07	7.49	
	30	12.06	7.48	
	40	12.57	7.99	
	50	11.69	7.11	
	60	12.36	7.78	
	300	12.58	8.00	
	480	12.50	7.92	

*Measuring point is top of PVC casing approximately 3.1 feet above land surface.

CONSTRUCTION DETAILS
 DARE COUNTY HATTERAS WATER SYSTEM
 REVERSE OSMOSIS PRODUCTION WELL

PW-3



Pr. Name: DARE CO. HATTERAS R.O. WELLFIELD	
Pr. No. FH7-574	Date: 11/25/98
DWG No. DAREPW3.CDR	Rev. No.

GROUNDWATER
 AND
 ENVIRONMENTAL SERVICES

FIGURE III-3. SCHEMATIC DIAGRAM SHOWING CONSTRUCTION DETAILS OF REVERSE OSMOSIS PRODUCTION WELL PW-3.

TABLE III-4.

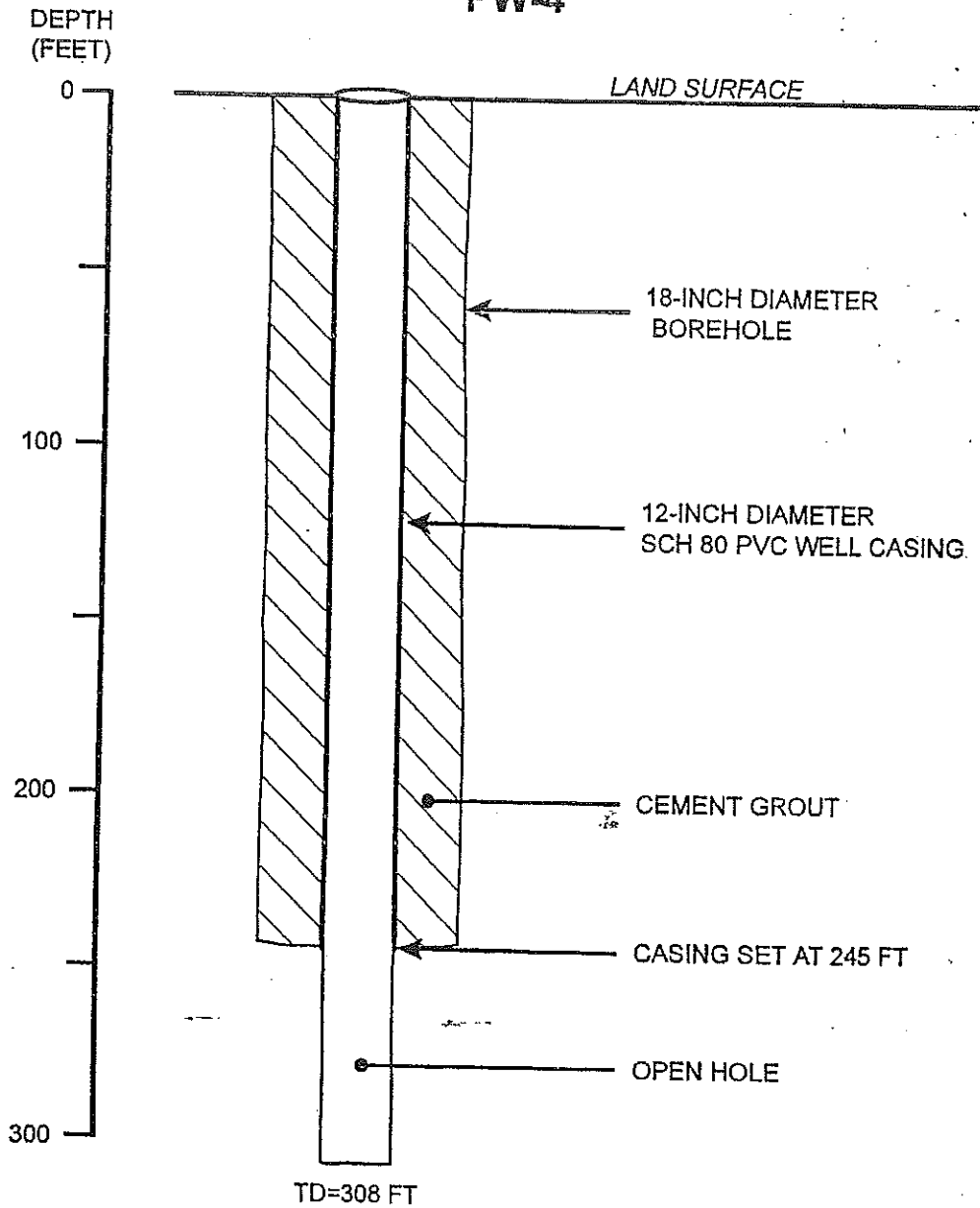
HATTERAS REVERSE OSMOSIS WELLFIELD
STEP DRAWDOWN TEST - WELL PW-3

Test Date: 11/11/98 Recorded By: Scott Manahan Static Water Level: 2.25 ft. Below Measuring Point (BMP)*				
Pumping Rate (GPM)	Time (Minutes)	Pumping Water Level (Ft. BMP)	Drawdown (Feet)	Specific Capacity (GPM/Ft)
400	5	45.10	42.85	8.3
	10	48.34	46.09	
	15	49.18	46.93	
	20	49.75	47.50	
	30	49.80	47.55	
	40	50.39	48.14	
	50	50.63	48.38	
	60	50.66	48.41	
500	5	60.02	57.77	7.9
	10	60.35	58.10	
	20	63.10	60.85	
	30	65.36	63.11	
	40	65.60	63.35	
	50	65.78	63.53	
	60	65.86	63.61	
600	5	75.07	72.82	7.7
	10	76.19	73.94	
	15	77.36	75.11	
	20	78.43	76.18	
	30	77.75	75.50	
	40	78.26	76.01	
	50	78.23	75.98	
	60	77.98	75.73	
	70	79.29	77.04	
	80	79.14	76.89	
	90	79.73	77.48	
1440	78.47	76.22		

*Measuring point is top of casing approximately 2.3 feet above land surface.

CONSTRUCTION DETAILS
 DARE COUNTY HATTERAS WATER SYSTEM
 REVERSE OSMOSIS PRODUCTION WELL

PW-4



M MISSIMER
 INTERNATIONAL, INC.

Pr. Name: DARE CO. HATTERAS R.O. WELLFIELD
 Pr. No. FH7-574 Date: 11/25/98
 DWG No. DAREPW4.CDR Rev. No.

GROUNDWATER
 AND
 ENVIRONMENTAL SERVICES

FIGURE III-4. SCHEMATIC DIAGRAM SHOWING CONSTRUCTION DETAILS OF REVERSE OSMOSIS PRODUCTION WELL PW-4.

TABLE III-5.

HATTERAS REVERSE OSMOSIS WELLFIELD
STEP DRAWDOWN TEST - WELL PW-4

Test Date: 11/16/98 Recorded By: Scott Manahan Static Water Level: 2.40 ft. Below Measuring Point (BMP)*				
Pumping Rate (GPM)	Time (Minutes)	Pumping Water Level (Ft. BMP)	Drawdown (Feet)	Specific Capacity (GPM/Ft)
500	5	37.19	34.79	12.4
	10	41.26	38.86	
	20	41.64	39.24	
	30	42.33	39.93	
	40	42.81	40.41	
	50	42.86	40.46	
	60	42.82	40.42	
600	5	47.16	44.76	12.4
	10	47.87	45.47	
	20	50.15	47.75	
	30	50.53	48.13	
	40	50.58	48.18	
	50	50.76	48.36	
	60	50.83	48.34	
720	5	60.45	58.05	12.0
	10	60.53	58.13	
	20	60.67	58.27	
	30	60.98	58.58	
	40	61.10	58.70	
	50	61.27	58.87	
	60	61.36	58.96	
	70	61.43	59.03	
	80	61.55	59.15	
	90	61.61	59.21	
	320	62.03	59.63	
	390	62.13	59.73	
	490	62.35	59.95	
1440	58.22	55.82		

*Measuring point is top of casing approximately 2.4 feet above land surface.



COUNTY OF DARE
MANTEO, NORTH CAROLINA 27954

WATER DISTRIBUTION

600 MUSTIAN STREET
KILL DEVIL HILLS NC 27948
(919) 441-7788

Gale Johnson, P.G.
NC Public Water Supply
1634 Mail Service Center
Raleigh, NC 27699-1634

July 1, 2014

Dear Mr. Johnson:

Please find enclosed a copy of the Wellhead Protection Plan for Dare County. The plan has been revised with your recommendations, and includes a well construction record for the new Skyco Well 14. I have read and approve the plan as presented.

Dare County has provide public notice of the plan by advertising in the Coastland Times on June 1, 2014 and given the public 30 days to review the document. No public comments were received concerning the plan.

I have attached a copy of the newspaper affidavit confirming the notices publication.

Sincerely,

A handwritten signature in black ink that reads "KC Flatt". The signature is written in a cursive, somewhat stylized font.

Ken Flatt
Dare County Utilities Director

NOTICE TO CREDITORS

Having qualified as Ancillary Administrator of the Estate of Nicholas Kashkashian, Sr., deceased, of 1330 Stephen Way, Southampton, PA 18966, the undersigned does hereby notify all persons, firms and corporations having claims against the Estate of said Decedent to exhibit them to the undersigned c/o Kellogg and Evans, P.A., Attorneys at Law, P. O. Box 189, Manteo, NC 27954, on or before the 16th day of August, 2014, or this notice will be pleaded in bar of their recovery. All persons, firms and corporations indebted to the said Estate will please make immediate payment to the undersigned.

This 9th day of May, 2014.
Nicholas Kashkashian, Jr.,
Ancillary Administrator
Estate of Nicholas Kashkashian, Sr.
Charles D. Evans
KELLOGG AND EVANS, P. A.
Attorneys at Law
201 Ananias Dare Street
P. O. Box 189
Manteo, NC 27954
(252) 473-2171

5-18, 25, 6-1, 8c

**NORTH CAROLINA
DARE COUNTY
IN THE GENERAL COURT OF JUSTICE
SUPERIOR COURT DIVISION
FILE NO. 13-SP-345
BEFORE THE CLERK**

IN THE MATTER OF:
The Foreclosure of Lot 61, Phase 2,
Pirates Cove, Village Landings at
Ballast Point for Non-Payment of
Association Fees
Owner(s) of Record:
Milton Kobus

**AMENDED
NOTICE OF SALE**

Under and by virtue of the power of sale contained in the governing documents of the P.C. Homeowners' Association, Inc. and Village Landings at Ballast Point, the Declaration of Protective Covenants and also allowed by North Carolina General Statutes Chapters 47A and 47C, default having been made in the payment of duly levied documents, and the assessments being a lien on the real estate described hereinbelow, and the said P.C. Homeowners' Association, Inc. and Village Landings at Ballast Point, having petitioned the Clerk of the Superior Court for hearing on the question of foreclosure for unpaid assessments, and the Clerk having entered an Order herein on authorizing the undersigned Association to proceed with the sale of said property:

TAKE NOTICE THAT THE UNDERSIGNED WILL SELL AT PUBLIC AUCTION TO THE HIGHEST BIDDER FOR CASH AT THE COURTHOUSE DOOR in Manteo, North Carolina, on June 18, 2014, 11:00 AM, the property particularly described as follows:

Being Lot No. 61, Phase 2 as shown and depicted on that certain map or plat thereof entitled, "PIRATES COVE, VILLAGE LANDINGS AT BALLAST POINT, NAGS HEAD TOWNSHIP, DARE COUNTY, NORTH CAROLINA, PHASE 2" prepared by Bissell Professional Group, dated October 19, 1998, and recorded in Plat Cabinet D, Slide 247, of the Dare County Registry, which plat is incorporated herein by this reference for a more particular description of said property.

Together with all rights and easements appurtenant to said Lot, including, without limitation, all rights and interest in and to the common elements appurtenant to said Lot, as specifically enumerated in the Declaration of Protective Covenants contained in declarations dated February 11, 1997, of record in Book 2096, Page 105, recorded in the Office of the Register of Deeds of Dare County, North Carolina.

This property is to be sold subject to any ad valorem taxes which constitute liens against the premises, restrictive covenants of record, the liability of future assessments which are not yet due and payable but which constitute a lien on the property, and any other encumbrances of record, which may have priority over the lien of P.C. Homeowners' Association, Inc. and Village Landings at Ballast Point, as well as any transfer taxes or revenue stamps required to be paid as a result of the sale.

A deposit of five percent (5%) of the total bid or a cash deposit of \$500.00, whichever is greater, will be required of the last and highest bidder immediately upon conclusion of the sale. The balance of the purchase price shall be due in cash or certified funds at a closing to take place within thirty (30) days of the date of sale. The undersigned shall convey title to the property by non-warranty deed which deed shall be tendered to the highest bidder within ten (10) days from the date Report of Foreclosure Sale is filed in the office of the



On Monday June 9, 2014 the Dare County Planning Board will conduct a Public Hearing to receive comments on a proposed text amendment to the SP-C, (Stumpy Point Commercial) zoning district to add breweries to the list of conditional uses available in this district. This proposed text amendment has been submitted by Mr. Paul Charron. The Planning Board is soliciting public input on this matter prior to making its recommendation to the Board of Commissioners.

Any person may appear at this hearing to present comments to the Planning Board. Written comments may also be submitted to Dare County Planning Board at P. O. Box 1000, Manteo, NC.

DATE: Monday, June 9, 2014
TIME: 7:00 p.m.
PLACE: Dare County
Administrative Building
Dare County Commissioners
Meeting Room
954 Marshall Collins Drive
Manteo, NC 27954

6-1, 8c



PUBLIC NOTIFICATION

The Dare County Water Department, with assistance from the North Carolina Rural Water Association, is in the process of updating their Wellhead Protection Program. This is a voluntary program intended to assist us in protecting the system's water supply from contamination, and to identify vulnerable areas around our wells called "Wellhead Protection Areas." Another goal of this program is to make residents and businesses aware that chemicals and other pollutants spilled or dumped in the vicinity of the "Wellhead Protection Areas" can be drawn into the wells, possibly contaminating the system's drinking water supply.

The Dare County Water Department is asking for your help in developing this program. A draft copy of the Wellhead Protection Plan will be available for review and comment at the Dare County Water Department, at 600 Mustain Street In-Kill Devil Hills, for a period of thirty days. You can also review the Wellhead Protection Plan on line at the web link:

<http://www.darenc.com/water/Papers/WellheadProtection2013.pdf>

Please submit any comments or suggestions to the Dare County Water Department. All written public comments will be reviewed by the Wellhead Protection Committee, and any suggestions or comments that may be beneficial will be incorporated into the program.

If you have any questions or comments, please feel free to contact Mr. Ken Flatt, Utilities Director, at (252) 475-5606.

6-1c



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June 3, 2014
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**ADVERTISEMENT FOR PROPOSALS
POST-STORM DEBRIS
REMOVAL/INFRASTRUCTURE
RECONSTRUCTION SERVICES**

Sealed Proposals will be received by the Town of Nags Head, North Carolina at the Town Hall in Nags Head until 2:00 p.m. local time, Tuesday, June 17, 2014 for post-disaster debris removal and hauling, and infrastructure reconstruction services for the Towns of Nags Head, Southern Shores and Duck for the fiscal year beginning July 1, 2014 and ending June 30, 2015. The Scope of Services includes:

- Pickup, hauling and deposition of storm-generated construction and demolition (C&D), and vegetative debris from town-owned property and rights-of-way (R-O-Ws), and NCDOT maintained R-O-Ws, as directed by town personnel. All such debris will be delivered to the proper Dare County disposal or staging site.

- Removal of sand from town-owned property and R-O-Ws, and possibly NCDOT owned R-O-Ws.

- Reconstruction of town-owned infrastructure including streets and waterlines, where applicable.

At said place and time, and promptly thereafter, all Proposals that have been duly received will be publicly opened.

All Proposals must be in accordance with the Documents on file with the Town of Nags Head Public Works Project Coordinator, Nags Head Town Hall, 5401 S. Croatan Hwy., PO Box 99, Nags Head, NC, 27959-0099.

A complete proposal package may be obtained from David Ryan, P.E., Project Coordinator, Town of Nags Head, Town Hall, 5401 S. Croatan Hwy., P. O. Box 99, Nags Head, NC 27959-0099, (252) 441-8221, Fax number (252) 441-0776, or david.ryan@nagsheadnc.gov.

Proposers must be properly licensed contractors in the State of North Carolina. The successful Proposer must also possess a Town of Nags Head Privilege License before commencing any work within the town. Owner reserves the right to reject any or all Proposals, including without limitation the rights to reject any or all nonconforming or nonresponsive Proposals, and to reject



PUBLIC NOTIFICATION

The Dare County Water Department, with assistance from the North Carolina Rural Water Association, is in the process of updating their Wellhead Protection Program. This is a voluntary program intended to assist us in protecting the system's water supply from contamination, and to identify vulnerable areas around our wells called "Wellhead Protection Areas." Another goal of this program is to make residents and businesses aware that chemicals and other pollutants spilled or dumped in the vicinity of the "Wellhead Protection Areas" can be drawn into the wells, possibly contaminating the system's drinking water supply.

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Please submit any comments or suggestions to the Dare County Water Department. All written public comments will be reviewed by the Wellhead Protection Committee, and any suggestions or comments that may be beneficial will be incorporated into the program.

If you have any questions or comments, please feel free to contact Mr. Ken Flatt, Utilities Director, at (252) 475-5606.

6-1c

NORTH CAROLINA

DARE COUNTY.

AFFIDAVIT OF PUBLICATION

Before the undersigned, a Notary Public of said County and State, duly commissioned, qualified, and authorized by law to administer oaths, personally appeared

Susan M. Simpson,.....

..... *Treasurer*....., who being first duly sworn, deposes and says: that he (she) is of The Times Printing Co., Inc., engaged in the publication of a newspaper known as THE COASTLAND TIMES, published, issued, and entered as second class mail in the Town of Manteo, in said County and State; that he is authorized to make this affidavit and sworn statement; that the notice or other legal advertisement, a true copy of which is attached hereto, was published in THE COASTLAND TIMES on the following dates:

June 1, 2014.....

.....; and that the said newspaper in which said notice, paper, document, or legal advertisement was published was, at the time of each and every such publication, a newspaper meeting all of the requirements and qualifications of Sections 1-596 and 1-597 of the General Statutes of North Carolina and was a qualified newspaper within the meaning of Section 1-597 of the General Statutes of North Carolina.

This *26th* day of *June*, 2014

Sworn to and subscribed to before me, this *26th*.....

day of *June*....., 2014

Patricia A. McCleney

Notary Public

My Commission expires: *Aug. 12, 2015*