



Palm Beach County Water Utilities Department



**Hillsboro Regional Aquifer Storage and
Recovery Pilot Project
SFWMD Cooperative Agreement
Contract No. C-10801-A1
Payment Application No. 1**

**PBCWUD Project No. 98 – 66B
February 2002**



February 15, 2002

Water Utilities Department

Administration

P.O. Box 16097

West Palm Beach, FL 33416-6097

(561) 641-3429

FAX: (561) 641-3472

www.pbcwater.com



**Palm Beach County
Board of County
Commissioners**

Warren H. Newell, Chairman

Carol A. Roberts, Vice Chair

Karen T. Marcus

Mary McCarty

Burt Aaronson

Tony Masilotti

Addie L. Greene

County Administrator

Robert Weisman

Mr. Pete Kwiatkowski, P.G.
South Florida Water Management District
3301 Gun Club Road
West Palm Beach, FL 33416

**HILLSBORO REGIONAL AQUIFER STORAGE & RECOVERY
PROJECT NO. C-10801-A1**

**INVOICE NO. 10801-001
TASK #1 thru #8**

Submitted in accordance with the South Florida Water Management District Contract C-10801-A1 are the following:

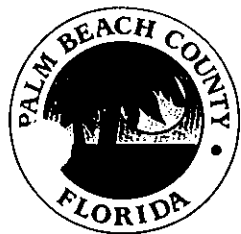
- Task #1** Construct two surficial aquifer monitoring wells, collect and analyze background groundwater and canal water quality samples.
- Task #2** Conceptual Design: Plans & specifications for ASR, surficial wells, raw water piping, instrumentation and control, electrical.
- Task #3** A) FDEP UIC Class V Well Construction Permit.
D) NPDES or General Discharge Permit.
E) Miscellaneous permits (Right of Way, well construction, WUP, Health Dept.).
- Task #4** Final Design: Contract documents ASR, surficial wells, raw water piping electrical, instrumentation and control.
- Task #5** Bidding Phase (Preconstruction meeting, answer bidder queries).
- Task #6** B) Drill upper borehole and set surface casing on ASR well.
D) Complete construction on three of the surficial supply wells.
E) Complete installation of supply piping within the Hillsboro Canal Right of Way.
F) Receive mechanical & electrical components on-site for surficial aquifer production wells.
- Task #7** B) Complete installation of mechanical and electrical components on three of the surficial aquifer supply wells.
- Task #8** A) Complete mechanical and electrical components of ASR well, complete disinfection of ASR well, background water quality of ASR and Monitor wells (Drinking Water Standards).
B) Complete construction of remaining two surficial aquifer wells, complete mechanical and electrical components of surficial aquifer wells, complete disinfection of surficial wells.

TOTAL AMOUNT DUE TO PALM BEACH COUNTY.....\$973,750.00

"An Equal Opportunity
Affirmative Action Employer"

Sincerely,

Steve McGrew, P.E.
Attachments



**Water Utilities Department
Engineering**

P.O. Box 16097
West Palm Beach, FL 33416-6097
(561) 641-3429
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Equal Opportunity
Affirmative Action Employer

February 13, 2002

Mr. Pete Kwiatkowski, P.G.
South Florida Water Management District
P. O. Box 24680
West Palm Beach, FL 33416-4680

RE: Hillsboro Regional Aquifer Storage and Recovery Pilot Project
SFWMD Cooperative Agreement Contract No. C-10801-A1
WUD Project No. 98-66

Dear Kwiatkowski:

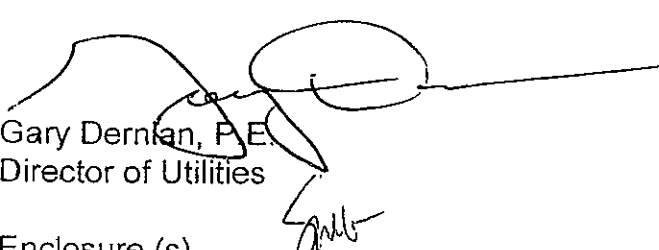
Palm Beach County Water Utilities Department has completed portions of the Hillsboro Regional Aquifer Storage and Recovery Pilot Project and we are requesting payment under the terms of the Amended SFWMD Cooperative Agreement Contract No. C-10801-A1. The following Task Deliverables have been completed:

<u>Task</u>	<u>Description</u>
1	<u>Construct two surficial aquifer monitoring wells</u> , collect and analyze background groundwater and canal water quality samples
2	<u>Conceptual Design:</u> Plans & specifications for ASR, surficial wells, raw water piping, instrumentation and control, electrical
3	<u>Permitting:</u> a. FDEP UIC Class V Well Construction Permit d. NPDES or General Discharge Permit e. Miscellaneous permits (Right of Way, well construction, WUP, Health Department)
4	<u>Final Design:</u> Contract documents ASR, surficial wells, raw water piping, electrical, instrumentation and control
5	<u>Bidding Phase:</u> Preconstruction meeting, answer bidder queries
6	<u>Construction 30% completion:</u> b. Drill upper borehole and set surface casing on ASR well d. Complete construction on three of the surficial supply wells e. Complete installation of supply piping within the Hillsboro Canal Right-of-Way

<u>Task</u>	<u>Description</u>
6	<u>Construction 30% complete (continued):</u> f. Receive mechanical and electrical components on-site for surficial aquifer production wells g. Begin construction of raw water piping along U.S. 441
7	<u>Construction 60% Completion</u> b. Complete installation of mechanical and electrical components on three of the surficial aquifer supply wells. c. Complete fifty percent of the distribution piping along US 441 f. Services during construction (daily reports, inspection, construction Management
8	<u>Construction 100%Completion</u> b. Complete construction of remaining two surficial aquifer wells, complete mechanical and electrical components of surficial aquifer wells, complete disinfection of raw water piping, complete disinfection of surficial wells

Attached are ten (10) copies of the Task Deliverables along with a table for payment application no. 1.

Sincerely,


Gary Dernian, P.E.
Director of Utilities

Enclosure (s)

C: C. Lawton McCall
Larry Johnson, P.E.
Stephen McGrew, P.E.
Fred Rapach
Guy Eggertsson

AGREEMENT C-1, J1-A1 EXHIBIT "A"
SUMMARY TABLE - PAYMENT AND DELIVERABLE SCHEDULE
PAYMENT APPLICATION No. 1

TASK DELIVERABLES	COMPLETION STATUS	DELIVERABLE SUBMITTED FOR PROOF OF PAYMENT	AMOUNT EARNED TO DATE	PAYMENT RECEIVED TO DATE	REQUESTED DISTRICT PAYMENT
1 - Construct two surficial aquifer monitoring wells, collect and analyze background groundwater and canal water quality samples	Complete	\$0	\$0	\$0	\$0
2 - Conceptual Design: Plans & specifications for ASR, surficial wells, raw water piping, instrumentation and control, electrical	Complete	\$30,000	\$30,000	\$0	\$30,000
3 - Permitting					\$0
a. FDEP UIC Class V Well Construction Permit	Complete	\$12,500	\$12,500	\$0	\$12,500
b. FDEP Limited Aquifer Exemption *Assumed None Needed*	Not Applicable	\$0	\$0	\$0	\$0
c. FDEP UIC Water Quality Criteria Exemption	Pending	\$17,500	\$0	\$0	\$0
d. NPDES or General Discharge Permit	Complete	\$17,500	\$17,500	\$0	\$17,500
e. Miscellaneous permits (Right of Way, well construction, WUP, Health Dept.)	Complete	\$27,500	\$27,500	\$0	\$27,500
					\$0
4 - Final Design: Contract documents ASR, surficial wells, raw water piping, electrical, instrumentation and control	Complete	\$60,000	\$60,000	\$0	\$60,000
5 - Bidding Phase (Preconstruction meeting, answer bidder queries)	Complete	\$3,750	\$3,750	\$0	\$3,750
6 - Construction 30% completion:					\$0
a. Complete construction of Upper Floridan monitoring well	Pending	\$125,000	\$0	\$0	\$0
b. Drill upper borehole and set surface casing on ASR well	Complete	\$62,500	\$62,500	\$0	\$62,500
c. Drill pilot hole to the top of the Upper Floridan on the ASR wells, conduct pilot hole logging on the ASR wells	Pending	\$62,500	\$0	\$0	\$0
d. Complete construction on three of the surficial supply wells	Complete	\$112,500	\$112,500	\$0	\$112,500
e. Complete installation of supply piping within the Hillsboro Canal Right of Way	Complete	\$360,000	\$360,000	\$0	\$360,000
f. Receive mechanical and electrical components on-site for surficial aquifer production wells	Complete	\$75,000	\$75,000	\$0	\$75,000
g. Begin construction of raw water piping along U.S. 441	Complete	\$0	\$0	\$0	\$0
h. Services During Construction (daily reports, inspection, Construction management)	Pending	\$40,767	\$0	\$0	\$0
					\$0
7 - 60% Construction Completion					\$0
a. Install ASR well casing, reverse air drill open hole interval through the Upper Floridan aquifer for ASR wells, development of ASR wells: Complete logging on open hole interval of ASR wells	Pending	\$125,000	\$0	\$0	\$0

AGREEMENT C-1 01-A1 EXHIBIT "A"
SUMMARY TABLE - PAYMENT AND DELIVERABLE SCHEDULE
PAYMENT APPLICATION No. 1

TASK DELIVERABLES	*COMPLETION STATUS	DELIVERABLE SUBMITTED FOR PROOF OF PAYMENT	AMOUNT EARNED TO DATE	PAYMENT RECEIVED TO DATE	REQUESTED DISTRICT PAYMENT
7 - Construction 60% Completion (continued)					\$0
b. Complete installation of mechanical and electrical components on three of the surficial aquifer supply wells.	Complete	\$75,000	\$75,000	\$0	\$75,000
c. Complete fifty percent of the distribution piping along US 441	Complete	\$0	\$0	\$0	\$0
d. Begin construction on mechanical and electrical components of ASR well	Pending	\$87,500	\$0	\$0	\$0
e. Begin construction of Hillsboro recharge treatment facility	Pending	\$50,000	\$0	\$0	\$0
f. Services During Construction(daily reports, inspection, construction Management	Complete	\$40,767	\$0	\$0	\$0
8 - Construction 100% Completion					\$0
a. Complete mechanical and electrical components of ASR well, complete disinfection of ASR well, background water quality of ASR and Monitor wells (Drinking Water Standards)	Pending	\$87,500	\$87,500	\$0	\$87,500
b. Complete construction of remaining two surficial aquifer wells, complete mechanical and electrical components of surficial aquifer wells, complete disinfection of raw water piping, complete disinfection of surficial wells	Complete	\$50,000	\$50,000	\$0	\$50,000
c. ASR recovered water quality analysis	Pending	\$5,000	\$0	\$0	\$0
d. Complete distribution piping along U.S. 441	\$0	\$0	\$0	\$0	\$0
e. Services During Construction (daily reports, inspection, construction management)	Pending	\$40,766	\$0	\$0	\$0
f. Record Drawings (Full-size Drawings and electronic version)	Pending	\$7,500	\$0	\$0	\$0
g. Engineering Reports for ASR and Surficial Wells	Pending	\$9,500	\$0	\$0	\$0
h. O&M manuals for ASR & Surficial Wells	Pending	\$9,500	\$0	\$0	\$0
9 - Prepare and Submit Operational Permit applications with 1 year of cycle testing data (FDEP and PBCHD)	Pending	\$75,000	\$0	\$0	\$0
10. - Continue Cycle Testing	Pending	\$0	\$0	\$0	\$0
TOTAL		\$1,670,050	\$973,750	\$0	\$973,750

ATTACHMENT 1

MONITOR WELLS AND WATER QUALITY ANALYSIS

Additional Information Requested to Complete Deliverable previously submitted:

- 1-A Canal Water Quality Samples
- 1-B Well No. 24 Phthalate Water Quality Analysis Re-Test
- 1-C Bacteriological Analysis Reports Wells 17 to 25
- 1-D Microscopic Particle Analysis (MPA) Submitted June 19, 2001
- 1-E Microscopic Particle Analysis (MPA) Submitted October 25, 2001



**CHEMICAL
LABORATORIES
INCORPORATED**

Received From:
Palm Beach County WUD
2065 Prairie Rd
West Palm Beach, FL 33406

Date Reported : Sep 1 2000
Project Number : Sys 9- sp. prj.
PO Number : 9WU50000034
FLDOH Number : E83018
NYSDOH Number : 11595
CTDPH Number : 0173
NCDEHNR Number : 296
SCDHEC Number : 96019

For: Prim/ Sec Rads
Date Sampled: Jul20 2000 Date Received: Jul21 2000 Lab Number : 26118

REPORT OF ANALYSIS

Parameter	Unit	Reportable Detection Limit	%Rec	%RSD	ASRCAN ALAE08 26118 137
Gross alpha	pCi/L	0.100			1.70
Analysis Error	pCi/L	0.100			1.00
Photon emitters	pCi/L	0.100			-
Analysis_Error(Photo	pCi/L	0.100			-
Radium 226	pCi/L	0.100			0.300
Analysis_Error(226)	pCi/L	0.100			0.100
Radium 228	pCi/L	0.300			0.500
Analysis_Error(228)	pCi/L	0.300			1.00
in-made beta & phot	pCi/L	0.100			<0.100
Analysis_Error(beta	pCi/L	0.100			<0.100
Arsenic	mg/L	.00010	102.	1.30	.00326
Barium	mg/L	.00010	95.8	.210	0.0182
Cadmium	mg/L	.00010	94.0	.940	<.0001
Chromium	mg/L	.00010	98.8	2.21	<.0001
Cyanide	mg/L	0.0100	91.1	38.8	<.0100
Fluoride	mg/L	0.0500			0.368
Lead	mg/L	.00010	96.3	.460	<.0001
Mercury	mg/L	.00020	98.0	17.1	<.0002
Nickel	mg/L	.00010	92.0	2.44	<.0001
Nitrate(as N)	mg/L	0.200	124.	2.51	<0.200
Nitrite(as N)	mg/L	0.200	112.	1.96	<0.200
Selenium	mg/L	.00010	99.0	.660	.00274
Sodium	mg/L	0.0100	98.0	.140	35.4
Antimony	mg/L	.00010	95.5	1.64	<.0001
Beryllium	mg/L	.00010	124.	.530	<.0001
Thallium	mg/L	.00010	94.8	.230	<.0001

RECEIVED
SEP 12 2000
By _____

Certificate of Results

Sample integrity certified prior to analysis. Test results meet all requirements of the NELAC Standards, except as noted in the QA Report Section 4. This Report may not be reproduced in part, results relate only to items tested.

Jefferson S. Flowers, Ph.D.
President/Technical Director

Jefferson L. Flowers, Ph.D
Jefferson S. Flowers, Ph.D
481 NEWBURYPORT Av.
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS: (407) 339-5984
FAX: (407) 260-6110

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For: Prim/ Sec Rads
Date Sampled: Jul20 2000 Date Received: Jul21 2000 Lab Number : 26118

REPORT OF ANALYSIS

Parameter	Unit	Reportable Detection Limit	%Rec	%RSD	26118 ASRCAN ALAE08 137
Asbestos	MF/L	1.00			-
Endrin	ug/L	0.0100	107.	16.7	<.0100
Lindane	ug/L	0.0100	108.	.000	<.0100
Methoxychlor	ug/L	0.0500			<.0500
Toxaphene	ug/L	0.500			<0.500
Dalapon	ug/L	0.100			<0.100
Diquat	ug/L	0.400	67.1	2.22	<0.400
Endothall	ug/L	9.00	107.	1.95	<9.00
Glyphosate	ug/L	100.	118.	3.40	<100.
Di(2-ethylhexyl) adi	ug/L	0.600	84.7	11.4	<0.600
Oxamyl (Vydate)	ug/L	100.	94.9	2.53	<100.
Simazine	ug/L	4.00			<4.00
Bis(2-ethylhexyl)pht	ug/L	0.600	83.4	11.9	<0.600
Picloram	ug/L	0.100			<0.100
Dinoseb	ug/L	0.100			<0.100
Hexachlorocyclopenta	ug/L	0.100	105.	12.8	<0.100
Carbofuran	ug/L	0.900	96.5	4.52	<0.900
Atrazine	ug/L	0.100	117.	26.3	<0.100
Alachlor (Lasso)	ug/L	0.200	98.5	20.5	<0.200
Dioxin	ug/L	0.0100			-
Heptachlor	ug/L	0.0100			<.0100
Heptachlor_Epoxide	ug/L	0.0100	111.	9.85	<.0100
2,4-D	ug/L	0.100	117.	3.94	<0.100
2,4,5-TP(Silvex)	ug/L	0.100	116.	.140	<0.100
Hexachlorobenzene	ug/L	0.100	109.	17.2	<0.100
Benzo(a)pyrene	ug/L	0.0200			<.0200

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President/Technical Director

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NYSDOH Number : 11595
CTDPH Number : 0173
NCDEHNR Number : 296
SCDHEC Number : 96019

For: Prim/ Sec Rads
Date Sampled: Jul20 2000 Date Received: Jul21 2000 Lab Number : 26118

REPORT OF ANALYSIS

Parameter	Unit	Reportable Detection Limit	%Rec	%RSD	ASRCAN ALAE08 26118 137
Pentachlorophenol	ug/L	0.100	122.	.470	<0.100
Total_PCB	ug/L	0.100			<0.100
Dibromochloropropane	ug/L	0.200	99.2	6.83	<0.200
Ethylene dibromide	ug/L	0.0200	74.8	12.6	<.0200
Chlordane	ug/L	0.0100	101.	21.2	<.0100
Aluminum	mg/L	.00050	103.	.180	0.0313
Chloride	mg/L	0.400	69.1	3.09	117.
Copper	mg/L	.00010	91.5	3.96	<.0001
Fluoride	mg/L	0.0500			-
Iron	mg/L	0.0100	101.	.000	0.0734
Manganese	mg/L	.00500	102.	.170	0.0310
Silver	mg/L	.00005	84.6	4.73	<5e-05
Sulfate	mg/L	1.00	79.3	2.30	37.6
Zinc	mg/L	.00010	96.8	4.94	<.0001
Color (color units)	PCU	5.00			100.
Odor (total odor num)	TON	1.00			<1.00
pH	pH	0.0500	101.	.650	7.15
TDS	mg/L	2.50	89.5	9.78	410.
Foaming_Agents	mg/L	0.200	78.2	.130	0.219
1,2,4-trichlorobenze	ug/L	0.500	106.	6.14	<0.500
cis-1,2-dichloroethe	ug/L	0.500	92.2	6.69	<0.500
Xylene	ug/L	0.500	104.	5.09	10.4
Methylene chloride	ug/L	0.500	95.0	4.75	<0.500
o-dichlorobenzene	ug/L	0.500	105.	5.27	<0.500
Para-dichlorobenzene	ug/L	0.500	110.	5.26	<0.500
Vinyl chloride	ug/L	0.500	87.6	2.33	<0.500

Certificate of Results

Sample integrity certified prior to analysis. Test results meet all requirements of the NELAC Standards, except as noted in the QA Report Section 4. This Report may not be reproduced in part, results relate only to items tested.


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President/Technical Director

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For: Prim/ Sec Rads
Date Sampled: Jul 20 2000 Date Received: Jul 21 2000 Lab Number : 26118
REPORT OF ANALYSIS

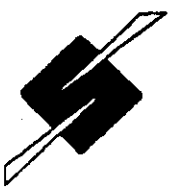
Parameter	Unit	Reportable Detection Limit	%Rec	%RSD	ASRCAN ALAE08 26118 137
1,1-dichloroethene	ug/L	0.500	128.	.270	<0.500
c-1,2-dichloroethene	ug/L	0.500	109.	6.17	<0.500
1,2-dichloroethane	ug/L	0.500	106.	5.45	<0.500
1,1,1-trichloroethan	ug/L	0.500	103.	6.29	<0.500
Carbon tetrachloride	ug/L	0.500	111.	7.04	<0.500
1,2-dichloropropane	ug/L	0.500	109.	7.03	<0.500
Trichloroethene	ug/L	0.500	110.	6.03	<0.500
1,1,2-trichloroethan	ug/L	0.500	112.	3.65	<0.500
Tetrachloroethene	ug/L	0.500	113.	5.02	<0.500
Chlorobenzene	ug/L	0.500	109.	4.50	<0.500
Benzene	ug/L	0.500	105.	4.01	1.30
Toluene	ug/L	0.500	99.4	4.72	7.25
Ethylbenzene	ug/L	0.500	100.	4.79	5.68
Styrene	ug/L	0.500			<0.500
TTHM	mg/L	.00100	105.	5.44	<.0010

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Jefferson S. Flowers, Ph.D.
President/Technical Director

98-66



Southeast Drilling Services, Inc.

cc: Steve McGrew
4 pages

MEMORANDUM

DATE: January 3, 2001
TO: Jorge Jaramillo/PBCWUD
VIA FAX: 561/641-3447
FROM: Bart Ziegler/SED
RE: PBCWUD 98-66
Well No. 24 Phthalate Water Quality Analysis

Attached are the results from resampling of well No. 24. Apparently there was some laboratory error in the first sample.

Please give me a call at (954) 427-8545 should you have any questions.

Envirodyne Inc.

4805 N.W. 2nd Avenue
Boca Raton, FL 33431
561-989-5225

CERTIFICATE OF ANALYSIS

South East Drilling
11505 N. Grady Avenue
Tampa, FL 33624

January 3, 2001
Report: 2000/12289
Sample No: 2000/12289- 2

Attention: Bart Ziegler

Project: Palm Beach County WF-9
Boca Raton, FL

SAMPLE ID: System 9 Well-24

Collected by: Bart Ziegler

Collected on: 12/20/00
Received on: 12/20/00

Date of Analysis: 12/30/00
Date of Extraction: 12/27/00

806 PHTHALATE ESTERS

PARAMETER	RESULT	DL	UNITS	ANALYST
Bis(2-ethylhexyl)phthalate	BDL	1.0	µg/L	JDD
Butyl benzyl phthalate	BDL	1.0	µg/L	JDD
Di-n-butyl phthalate	BDL	1.0	µg/L	JDD
Diethyl phthalate	BDL	1.0	µg/L	JDD
Dimethyl phthalate	BDL	1.0	µg/L	JDD
Di-n-octyl phthalate	BDL	1.0	µg/L	JDD
Bis(2-n-butoxyethyl)phthalate	BDL	1.0	µg/L	JDD
Bis(2-ethoxyethyl)phthalate	BDL	1.0	µg/L	JDD
Bis(2-methoxyethyl)phthalate	BDL	1.0	µg/L	JDD
Bis(4-methyl-2-pentyl)phthalate	BDL	1.0	µg/L	JDD
Diamyl phthalate	BDL	1.0	µg/L	JDD
Dicyclohexyl phthalate	BDL	1.0	µg/L	JDD
Dihexyl phthalate	BDL	1.0	µg/L	JDD
Diisobutyl phthalate	BDL	1.0	µg/L	JDD
Dinonyl phthalate	BDL	1.0	µg/L	JDD
Hexyl 2-ethylhexyl phthalate	BDL	1.0	µg/L	JDD

Analysis Performed in Accordance with E.P.A. Method.
Laboratory Certification No. 286188

QA/QC Review **BM**
BDL = Below Detection Limit
DL = Detection Limit

Envirodyne Inc.

4805 N.W. 2nd Avenue
Boca Raton, FL 33431
561-989-5225

CERTIFICATE OF ANALYSIS

cfu = Colony forming units

The Water Analysis is **NOT ACCEPTABLE** by health department standards for safe public drinking water, with regards to Coliform bacteria using EPA approved methods.

Analysis contained herein conform to EPA and DTP approved methods per Envirodyne Comprehensive Quality Assurance Plan No. 890041. Additional Laboratory Certification numbers: E86006, 84269, E83079, E86240. All relevant quality assurance samples were within specified control limits unless otherwise stated. Envirodyne certifies that its test results meet all requirements of the NELAC standards. For questions, please call the project manager at the number listed above.



Project Manager



Quality Assurance Director

CHAIN OF CUSTODY RECORD
AND
ANALYSIS REQUEST

PROJECT NUMBER		PROJECT NAME WF9		P.O. NUMBER		SAMPLE TYPE		No. of Containers		PRESERVATIVE	
PROJECT LOCATION Box A				SOLID LIQUID AIR NON-AQUEOUS LIQUID WATER T. Solids pH ANALYSES REQUESTED				No. of Containers		RUSH TAT (SURCHARGE) <input type="checkbox"/>	
CLIENT NAME SEP		CLIENT ADDRESS File									
PHONE		FAX									
SAMPLE INFORMATION											
NUMBER	DATE	TIME	IDENTIFICATION	SOLID	LIQUID	AIR	NON-AQUEOUS LIQUID	WATER	T. Solids	pH	REMARKS
1	12/20	1330	SYJ 9 WELL # 19	X							1
2	12/20	1515	SYJ 9 WELL # 24	*							2
3											
4											
5											
6											
7											
8											
9											
10											
SAMPLE COLLECTED BY WSE			ARE THESE SAMPLES LISTED OR CHARACTERISTIC HAZARDOUS WASTE? <input type="checkbox"/> YES <input type="checkbox"/> NO ARE THESE SAMPLES FROM <input type="checkbox"/> PETROLEUM <input type="checkbox"/> DRY CLEANER OR <input type="checkbox"/> OTHER SITE?							TOTAL OF ALL CONTAINERS 3	
SERVO REPORT TO (PERSON) WSE			RELINQUISHED BY		DATE	TIME	RECEIVED BY			DATE	TIME
SAMPLES CONDITION Intact 40C			1 WNA		12/20	1615	2 Bond White			12/20	16:15
LOG NUMBER 2000/12289			3				4				
			5				8				

JAN-04-01 09:51A

System 9 well clearances

Sample Date	Sample collection & Travel time	Total Coliform/HPC analysis prep/run time	Analyses read & result entry time	Confirmation Analyses time	WELL #'s / RESULT			
					17	18	19	20
1/22/01	1.5 Hours	1.0 Hours	1.0 Hours	0.5 Hours	P	F	P	P
1/23/01	1.0 Hours	1.0 Hours	1.0 Hours	0.5 Hours	P	F	P	P
1/24/01	0.5 Hours	1.0 Hours	1.0 Hours		F	P	P	P
1/29/01	1.5 Hours	1.0 Hours	1.0 Hours	0.5 Hours	P*	P*	P*	P*
1/30/01	1.5 Hours	1.0 Hours	1.0 Hours	0.5 Hours	P	P	P	P
1/31/01	1.5 Hours	1.0 Hours	1.0 Hours		P	P	P	P
2/1/01	0.5 Hours	1.0 Hours	1.0 Hours		P	P	P	P
2/2/01	1.5 Hours	1.0 Hours	1.0 Hours		P	P	P	P
2/3/01	1.5 Hours	1.0 Hours	1.0 Hours		P	P	P	P
2/4/01	1.5 Hours	1.0 Hours	1.0 Hours		P	P	P	P
2/5/01	1.5 Hours	1.0 Hours	1.0 Hours		P	P	P	P
2/6/01	1.5 Hours	1.0 Hours	1.0 Hours		P	P	P	P
2/7/01	1.0 Hours	1.0 Hours	1.0 Hours		P	P	P	P
2/8/01	0.5 Hours	1.0 Hours	1.0 Hours		P	P	P	P
2/11/01	1.5 Hours	1.0 Hours	1.0 Hours		P	P	P	P
2/12/01	1.5 Hours	1.0 Hours	1.0 Hours		F	P	F	P
2/13/01	1.5 Hours	1.0 Hours	1.0 Hours	0.5 Hours	F	F	F	P
2/14/01	1.5 Hours	1.0 Hours	1.0 Hours		P	P	P	P
2/15/01	2.0 Hours	Sample was not available until following morning			P	P	P	P
2/16/01	1.5 Hours	1.5 Hours	1.0 Hours		P	F	F	P
2/17/01	Sample was not available until following morning			0.5 Hours	P	P	P	P
2/18/01	2.0 Hours	1.0 Hours	1.0 Hours	0.5 Hours	P	P	P	P
2/19/01	Sample was not available until following day				P	P	P	P
2/20/01	2.0 Hours	1.5 Hours	1.0 Hours		P	P	P	P
2/21/01	1.5 Hours	0.5 Hours	1.0 Hours				P	
2/22/01	0.5 Hours	0.5 Hours	0.5 Hours	*Well#19 only			P	
2/23/01	No sample							
2/24/01	No sample							
2/25/01	Late sample (well #19 only) picked up and run on 02/26/01						P	
2/26/01	1.5 Hours	0.5 Hours	0.5 Hours	*Well#19 only			P	
2/27/01	1.5 Hours	0.5 Hours	0.5 Hours	*Well#19 only			P	
2/28/01	1.5 Hours	0.5 Hours	0.5 Hours	*Well#19 only			P	
3/1/01	0.5 Hours	0.5 Hours	0.5 Hours	*Well#19 only			P	
3/2/01	1.5 Hours	0.5 Hours	0.5 Hours	*Well#19 only			P	
3/3/01	1.5 Hours	0.5 Hours	0.5 Hours	*Well#19 only			P	
3/4/01	Late sample (well #19 only) picked up and run on 03/05/01						P	
3/5/01	1.5 Hours	0.5 Hours	0.5 Hours	*Well#19 only			P	
3/6/01	1.5 Hours	0.5 Hours	0.5 Hours	*Well#19 only			P	
3/7/01	1.0 Hours	0.5 Hours	0.5 Hours	*Well#19 only			P	

* Clearance restarted on 01/29/01

* Well #19 clearance restarted on 02/14/01

FINAL COUNT: Total # of good samples : 19 19 19 21

TIME DOES NOT INCLUDE REPORT GENERATION, LAB MANAGER & Q.A. OFFICERS TIME.

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
SYSTEM 9				4501332		W. ZIEGLER				
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	Analysis Methods	MF	MF	HPC	HPC	
					CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF00932	Well #17	12:45 1/22/01	16:00 1/22/01	JMB		A	L	2	2	
AF00933	Well #18	13:00 1/22/01	16:00 1/22/01	JMB		A	T.N.T.C	4	12	
AF00934	Well #19	13:15 1/22/01	16:00 1/22/01	JMB		A	M	4	5	
AF00935	Well #20	13:30 1/22/01	16:00 1/22/01	JMB		A	L	26	13	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE - RESTARTED

REPORTED BY: J. M. Bar DATE: 2.6.01 CHEMIST _____ LABTECH:

REVIEWED BY: J. M. Bar DATE: 2.12.2001 LAB MANAGER: QA OFFICER: _____

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
SYSTEM 9				4501332		B. ZEIGLER				
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	Analysis Methods	MF	MF	HPC	HPC	
					CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01001	Well #17	10:15 1/23/01	16:00 1/23/01	JMB		A	L	20	15	
AF01002	Well #18	10:25 1/23/01	16:00 1/23/01	JMB		A	T.N.T.C.	400	260	
AF01003	Well #19	10:35 1/23/01	16:00 1/23/01	JMB		A	L	4	2	
AF01004	Well #20	10:45 1/23/01	16:00 1/23/01	JMB		A	M	230	110	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE - RESTARTED

REPORTED BY: [Signature] DATE: 2.6.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 2.12.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01100	Well #17	13:00 1/24/01	15:00 1/24/01	JMB		A	T.N.T.C.	560	680	
AF01101	Well #18	13:10 1/24/01	15:00 1/24/01	JMB		A	M	>5600	>5600	
AF01102	Well #19	13:20 1/24/01	15:00 1/24/01	JMB		A	M	970	800	
AF01103	Well #20	13:30 1/24/01	15:00 1/24/01	JMB		A	M	>5600	>5600	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE - RESTARTED

REPORTED BY: Jan M. Ben DATE: 2.9.01 CHEMIST _____ LABTECH:

REVIEWED BY: Jefe N... DATE: 2.12.2001 LAB MANAGER: QA OFFICER: _____

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	Analysis Methods	MF	MF	HPC	HPC	
					CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01257	Well # 17	13:10 1/29/01	15:30 1/29/01	JMB		A	M	4200	1500	
AF01258	Well # 18	13:15 1/29/01	15:30 1/29/01	JMB		A	M	5100	1300	
AF01259	Well # 19	13:25 1/29/01	15:30 1/29/01	JMB		A	M	5400	1800	
AF01260	Well # 20	13:35 1/29/01	15:30 1/29/01	JMB		A	M	75600	1500	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE - 1ST SET

REPORTED BY: [Signature] DATE: 2-11-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 2-12-2001 LAB MANAGER: _____ QA OFFICER: _____

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01322	Well #17	13:00 1/30/01	15:10 1/30/01	JMB		A	L	4600	4600	
AF01323	Well #18	13:10 1/30/01	15:10 1/30/01	JMB		A	M	4500	4500	
AF01324	Well #19	13:15 1/30/01	15:10 1/30/01	JMB		A	M	4400	4400	
AF01325	Well #20	13:25 1/30/01	15:10 1/30/01	JMB		A	L	2800	2800	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE - 2ND SET

REPORTED BY: [Signature] DATE: 2-11-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 2-12-2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01403	Well # 17	10:15 1/31/01	15:00 1/31/01	JMB		A	L	1500	1100	
AF01404	Well # 18	10:20 1/31/01	15:00 1/31/01	JMB		A	<1	3700	2100	
AF01405	Well # 19	10:25 1/31/01	15:00 1/31/01	JMB		A	<1	>5600	>5600	
AF01406	Well # 20	10:30 1/31/01	15:00 1/31/01	JMB		A	<1	6	4	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE - 3RD SET

REPORTED BY: J. H. Bann DATE: 2-11-01 CHEMIST _____ LABTECH:

REVIEWED BY: Jay N... DATE: 2-12-2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01461	Well # 17	13:10 2/1/01	15:30 2/1/01	JMB		A	<1	1600	210	
AF01462	Well # 18	13:15 2/1/01	15:30 2/1/01	JMB		A	<1	800	190	
AF01463	Well # 19	13:20 2/1/01	15:30 2/1/01	JMB		A	<1	5000	1400	
AF01464	Well # 20	13:25 2/1/01	15:30 2/1/01	JMB		A	<1	5000	420	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
 WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ALBANO				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01480	Well # 17	12:20 2/2/01	15:20 2/2/01	JMB		A	<1	1300	1200	
AF01481	Well # 18	12:30 2/2/01	15:20 2/2/01	JMB		A	<1	1400	530	
AF01482	Well # 19	12:40 2/2/01	15:20 2/2/01	JMB		A	<1	4900	4800	
AF01483	Well # 20	13:00 2/2/01	15:20 2/2/01	JMB		A	<1	>5600	>5600	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: J. M. Parn DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: Jayla Davani DATE: 3.9.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analysis Methods		MF	MF	HPC	HPC	
				Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01495	well #17	10:00 2/3/01	12:00 2/3/01	JJB		A	<1	980	1000	
AF01496	well #18	10:05 2/3/01	12:00 2/3/01	JJB		A	<1	1240	1380	
AF01497	well #19	10:10 2/3/01	12:00 2/3/01	JJB		A	<1	4000	3200	
AF01498	well #20	10:15 2/3/01	12:00 2/3/01	JJB		A	<1	1600	2160	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3-8-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3-9-2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01509	Well #17	11:45 2/4/01	14:30 2/4/01	GIM		A	<1	380	460	
AF01510	Well #18	11:50 2/4/01	14:30 2/4/01	GIM		A	L	790	600	
AF01511	Well #19	11:55 2/4/01	14:30 2/4/01	GIM		A	<1	470	400	
AF01512	Well #20	12:00 2/4/01	14:30 2/4/01	GIM		A	<1	190	230	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: _____ QA OFFICER: _____

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01530	Well # 17	9:50 2/5/01	15:50 2/5/01	JMB		A	<1	690	460	
AF01531	Well # 18	9:55 2/5/01	15:50 2/5/01	JMB		A	<1	360	340	
AF01532	Well # 19	10:00 2/5/01	15:50 2/5/01	JMB		A	<1	330	450	
AF01533	Well # 20	10:05 2/5/01	15:50 2/5/01	JMB		A	<1	490	490	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3-8-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3-9-2001 LAB MANAGER: _____ QA OFFICER: _____

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	Analysis Methods	MF	MF	HPC	HPC	
					CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01613	Well #17	11:30 2/6/01	18:00 2/6/01	JJB		A	<1	2000	2000	
AF01614	Well #18	11:35 2/6/01	18:00 2/6/01	JJB		A	<1	2300	2300	
AF01615	Well # 19	11:40 2/6/01	18:00 2/6/01	JJB		A	<1	2800	2800	
AF01727	Well # 20	18:00 2/6/01	15:00 2/7/01	JJB		A	<1	680	740	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: J. M. Pan DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: Jayz N... DATE: 3.9.2001 LAB MANAGER: _____ QA OFFICER: _____

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	Analysis Methods	MF	MF	HPC	HPC	
					CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01728	Well # 17	12:00 2/7/01	15:00 2/7/01	JJB		A	<1	1200	1420	
AF01729	Well # 18	12:05 2/7/01	15:00 2/7/01	JJB		A	<1	1600	1540	
AF01730	Well # 19	12:10 2/7/01	15:00 2/7/01	JJB		A	<1	980	1100	
AF01731	Well # 20	12:15 2/7/01	15:00 2/7/01	JJB		A	<1	1000	860	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: [Signature] QA OFFICER: _____

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01781	Well #17	10:30 2/8/01	14:00 2/8/01	JMB		A	<1	360	420	
AF01782	Well #18	10:35 2/8/01	14:00 2/8/01	JMB		A	<1	580	600	
AF01783	Well #19	10:40 2/8/01	14:00 2/8/01	JMB		A	<1	470	430	
AF01784	Well #20	10:45 2/8/01	14:00 2/8/01	JMB		A	<1	820	760	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01875	Well # 17	18:00 2/11/01	15:30 2/12/01	JMB		A	L	570	720	
AF01876	Well # 18	18:05 2/11/01	15:30 2/12/01	JMB		A	<1	730	830	
AF01877	Well # 19	18:10 2/11/01	15:30 2/12/01	JMB		A	L	740	780	
AF01878	Well # 20	18:15 2/11/01	15:30 2/12/01	JMB		A	<1	360	380	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
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13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01935	Well # 17	18:00 2/12/01	16:00 2/13/01	JMB		A	T.N.T.C.	4500	4500	
AF01936	Well # 18	18:05 2/12/01	16:00 2/13/01	JMB		A	L	3000	3000	
AF01937	Well # 19	18:10 2/12/01	16:00 2/13/01	JMB		A	T.N.T.C.	2500	2000	
AF01938	Well # 20	18:15 2/12/01	16:00 2/13/01	JMB		A	L	2300	2300	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: QA OFFICER: _____

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
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 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	HPC per 1 ml @ 28 C (R2A)	HPC per 1 ml @ 35 C (R2A)	
AF01939	Well # 17	10:15 2/13/01	16:00 2/13/01	JMB		A	T.N.T.C	1700	1700	
AF01940	Well # 18	10:20 2/13/01	16:00 2/13/01	JMB		A	T.N.T.C.	1200	1200	
AF01941	Well # 19	10:25 2/13/01	16:00 2/13/01	JMB		A	T.N.T.C.	1300	1300	
AF01942	Well # 20	10:30 2/13/01	16:00 2/13/01	JMB		A	M	1200	1200	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: J. M. P... DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: J. M. P... DATE: 3.9.2001 LAB MANAGER: QA OFFICER: _____

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF02033	WELL # 17 SYSTEM 9	12:00 2/14/01	15:30 2/14/01	JMB		A	<1	<1	<1	
AF02034	WELL # 18 SYSTEM 9	12:05 2/14/01	15:30 2/14/01	JMB		A	<1	<1	<1	
AF02035	WELL # 19 SYSTEM 9	12:10 2/14/01	15:30 2/14/01	JMB		A	<1	<1	<1	
AF02036	WELL # 20 SYSTEM 9	12:15 2/14/01	15:30 2/14/01	JMB		A	<1	<1	<1	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: _____ QA OFFICER: _____

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
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13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF02121	Well # 17	18:00 2/15/01	15:30 2/16/01	JMB		A	<1	42	60	
AF02122	Well # 18	18:05 2/15/01	15:30 2/16/01	JMB		A	<1	82	110	
AF02123	Well # 19	18:10 2/15/01	15:30 2/16/01	JMB		A	<1	90	130	
AF02124	Well # 20	18:15 2/15/01	15:30 2/16/01	JMB		A	<1	47	36	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: QA OFFICER: _____

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. ZIEGLER				
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	Analysis Methods CL 2 RESIDUAL mg/L	MF TOTAL COLIFORM (P/A) per 100 ml	MF NON-COLIFORM per 100 ml	HPC per 1 ml @ 28 C (R2A)	HPC per 1 ml @ 35 C (R2A)	
AF02125	Well # 17	12:40 2/16/01	15:30 2/16/01	JMB		A	L	70	84	
AF02126	Well # 18	12:45 2/16/01	15:30 2/16/01	JMB		A	T.N.T.C.	98	76	
AF02127	Well # 19	12:50 2/16/01	15:30 2/16/01	JMB		P(18)	M	130	160	
AF02128	Well # 20	12:55 2/16/01	15:30 2/16/01	JMB		A	L	24	29	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT I
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
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DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF02150	Well #17	18:00 2/17/01	17:45 2/18/01	GIM		A	<1	800	740	
AF02151	Well #18	18:05 2/17/01	17:45 2/18/01	GIM		A	<1	1600	1200	
AF02152	Well #19	18:10 2/17/01	17:45 2/18/01	GIM		A	<1	390	450	
AF02153	Well #20	18:15 2/17/01	17:45 2/18/01	GIM		A	<1	600	520	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF02154	Well #17	12:00 2/18/01	17:45 2/18/01	GIM		A	<1	390	600	
AF02155	Well #18	12:05 2/18/01	17:45 2/18/01	GIM		A	<1	1400	1200	
AF02156	Well #19	12:10 2/18/01	17:45 2/18/01	GIM		A	<1	1600	1520	
AF02157	Well #20	12:15 2/18/01	17:45 2/18/01	GIM		A	<1	740	800	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF02249	Well # 17	12:00 2/19/01	16:10 2/20/01	JMB		A	<1	1	<1	
AF02250	Well # 18	12:05 2/19/01	16:10 2/20/01	JMB		A	<1	8	10	
AF02251	Well # 19	12:10 2/19/01	16:10 2/20/01	JMB		A	<1	5	1	
AF02252	Well # 20	12:15 2/19/01	16:10 2/20/01	JMB		A	<1	4	<1	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3-8-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3-9-2001 LAB MANAGER: _____ QA OFFICER: _____

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF02253	Well # 17	10:45 2/20/01	16:10 2/20/01	JMB		A	<1	4	<1	
AF02254	Well # 18	10:50 2/20/01	16:10 2/20/01	JMB		A	L	3	<1	
AF02255	Well # 19	10:55 2/20/01	16:10 2/20/01	JMB		A	<1	3	<1	
AF02256	Well # 20	11:00 2/20/01	16:10 2/20/01	JMB		A	<1	<1	<1	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: [Signature] QA OFFICER: _____

WELL 19

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B.ZIEGLER				
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF02336	Well #19	13:30 2/21/01	16:00 2/21/01	JMB		A	<1	560	700	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.8.2001 LAB MANAGER: _____ QA OFFICER: _____

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
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DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		J. DABNEY				
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	HPC per 1 ml @ 28 C (R2A)	HPC per 1 ml @ 35 C (R2A)	
AF02433	Well #19	12:30 2/22/01	16:30 2/22/01	JMB		A	<1	320	400	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: J. M. B... DATE: 2.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: J. M. B... DATE: 3.9.2001 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
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 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. ZIEGLER			
				Analysis Methods		MF	MF	HPC	HPC
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)
AF02526	Well #19	18:10 2/25/01	15:45 2/26/01	JMB		A	<1	36	30

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.9.01 CHEMIST _____ LABTECH:

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SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF02527	Well #19	12:00 2/26/01	15:45 2/26/01	JMB		A	<1	18	15	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: QA OFFICER: _____

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SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
LOG No.		SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)
AF02617		Well #19	13:40 2/27/01	15:50 2/27/01	JMB		A	L	3	1

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.9.01 CHEMIST _____ LABTECH:

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(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
LOG No.		SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analysis Methods	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	HPC per 1 ml @ 28 C (R2A)	HPC per 1 ml @ 35 C (R2A)
AF02668		Well #19	10:00 2/28/01	15:00 2/28/01	JMB		A	<1	680	500

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.9.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
LOG No.		SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)
AF02727		Well #19	13:00 3/1/01	16:00 3/1/01	JMB		A	<1	280	310

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.9.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF02742	Well #19	13:45 3/2/01	15:50 3/2/01	JMB		A	<1	210	260	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.9.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
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DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
LOG No.		SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)
AF02766		Well #19	9:00 3/3/01	13:30 3/3/01	JJB		A	<1	62	50

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.9.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

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Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF02831	Well #19	16:30 3/4/01	15:45 3/5/01	JMB		A	<1	PENDING	PENDING	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.9.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
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DOH CERTIFICATION No E56090

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 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF02832	Well #19	10:00 3/5/01	15:45 3/5/01	JMB		A	<1	PENDING	PENDING	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. ZIEGLER				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF02944	Well #19	10:00 3/6/01	15:30 3/6/01	JMB		A	<1	PENDING	PENDING	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.9.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B.ZIEGLER			
				Analysis Methods		MF	MF	HPC	HPC
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)
AF03030	Well #19	11:00 3/7/01	16:20 3/7/01	JMB		A	<1	PENDING	PENDING

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 3.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3.9.2001 LAB MANAGER: QA-OFFICER: _____

WELL 18

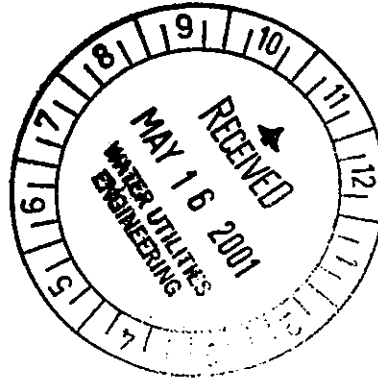
BACTERIOLOGICAL ANALYSIS REPORT

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF04641	Well #18	8:05 4/16/01	15:30 4/16/01	JMB		A	M	630	530	
AF04642	Well #18	14:05 4/16/01	15:30 4/16/01	JMB		A	L	38	33	



TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 4.30.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 4.30.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF04782	Well #18	7:40 4/17/01	16:15 4/17/01	RLC		A	L	40	40	
AF04783	Well #18	13:45 4/17/01	16:15 4/17/01	RLC		A	L	50	50	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 4.30.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 4.30.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
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DOH CERTIFICATION No E56090

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 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B.BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF04891	WELL # 18	7:45 4/18/01	15:45 4/18/01	RLC		A	L	82	70	
AF04892	WELL # 18	13:45 4/18/01	15:45 4/18/01	RLC		A	<1	62	74	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 4.30.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 4.30.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B.BRADBURY				
LOG No.		SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	HPC per 1 ml @ 28 C (R2A)	HPC per 1 ml @ 35 C (R2A)
AF04959		WELL # 18	7:30 4/19/01	15:15 4/19/01	RLC		A	L	48	60
AF04960		WELL # 18	13:35 4/19/01	15:15 4/19/01	RLC		A	L	140	120

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW
 TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 4.30.01 CHEMIST _____ LABTECH:
 REVIEWED BY: [Signature] DATE: 4.30.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B.BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF04977	WELL # 18	7:50 4/20/01	15:45 4/20/01	RLC		A	L	92	100	
AF04978	WELL # 18	14:00 4/20/01	15:45 4/20/01	RLC		A	<1	110	100	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5/22/01 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05063	Well #18	7:50 4/23/01	16:20 4/23/01	JMB		A	L	2	3	
AF05064	Well #18	13:50 4/23/01	16:20 4/23/01	JMB		A	<1	10	4	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.12.01 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05117	Well #18	7:35 4/24/01	14:15 4/24/01	JMB		A	L	15	15	
AF05118	Well #18	13:45 4/24/01	14:15 4/24/01	JMB		A	L	13	28	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5/22/01 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
SYSTEM 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05252	Well # 18	7:40 4/25/01	15:30 4/25/01	JMB		A	L	80	68	
AF05253	Well # 18	13:45 4/25/01	15:30 4/25/01	JMB		A	<1	24	40	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.12.01 LAB MANAGER: [Signature] QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
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DOH CERTIFICATION No E56090

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 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
SYSTEM 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05324	Well #18	7:35 4/26/01	15:30 4/26/01	JMB		A	M	280	270	
AF05325	Well #18	13:40 4/26/01	15:30 4/26/01	JMB		A	M	190	250	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.12.01 LAB MANAGER: QA OFFICER: _____

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SYSTEM NAME				I.D. No.		SAMPLER(S)				
SYSTEM 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05342	Well #18	7:45 4/27/01	14:30 4/27/01	JMB		A	L	240	280	
AF05343	Well #18	13:45 4/27/01	14:30 4/27/01	JMB		A	L	210	250	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: J. M. Bar DATE: 5.8.01 CHEMIST _____ LABTECH:

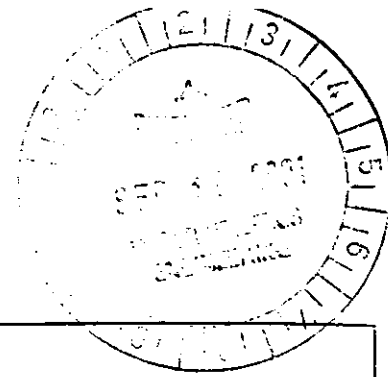
REVIEWED BY: J. Bar DATE: 5.12.01 LAB MANAGER: QA OFFICER: _____

WELLS 21 TO 25

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
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 Delray Beach, FL 33446
 (561)638-5000



SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF04643	Well #21	14:40 4/16/01	15:30 4/16/01	JMB		A	L	110	50	
AF04644	Well #22	14:30 4/16/01	15:30 4/16/01	JMB		A	L	59	35	
AF04645	Well #23	14:20 4/16/01	15:30 4/16/01	JMB		A	L	140	54	
AF04646	Well #24	14:15 4/16/01	15:30 4/16/01	JMB		A	L	72	63	
AF04647	Well #25	14:10 4/16/01	15:30 4/16/01	JMB		A	M	250	130	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE

REPORTED BY: J. H. Bern DATE: 5.6.01 CHEMIST _____ LABTECH:

REVIEWED BY: J. Bern DATE: 5.12.2001 LAB MANAGER: / QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

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 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF04784	Well #21	13:26 4/17/01	16:15 4/17/01	RLC		A	M	150	180	
AF04785	Well #22	13:20 4/17/01	16:15 4/17/01	RLC		A	M	10	10	
AF04786	Well #23	13:15 4/17/01	16:15 4/17/01	RLC		A	M	150	130	
AF04787	Well #24	13:05 4/17/01	16:15 4/17/01	RLC		A	M	200	200	
AF04788	Well #25	13:00 4/17/01	16:15 4/17/01	RLC		A	M	150	20	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.12.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B.BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF04893	WELL # 21	10:05 4/18/01	15:45 4/18/01	RLC		A	M	68	58	
AF04894	WELL # 22	10:10 4/18/01	15:45 4/18/01	RLC		A	M	34	43	
AF04895	WELL # 23	10:15 4/18/01	15:45 4/18/01	RLC		A	M	280	320	
AF04896	WELL # 24	10:22 4/18/01	15:45 4/18/01	RLC		A	M	120	160	
AF04897	WELL # 25	10:30 4/18/01	15:45 4/18/01	RLC		A	M	180	140	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.12.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B.BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF04961	WELL # 21	9:05 4/19/01	15:15 4/19/01	RLC		A	L	160	170	
AF04962	WELL # 22	9:10 4/19/01	15:15 4/19/01	RLC		A	M	230	200	
AF04963	WELL # 23	9:17 4/19/01	15:15 4/19/01	RLC		A	M	190	240	
AF04964	WELL # 24	9:25 4/19/01	15:15 4/19/01	RLC		A	M	68	52	
AF04965	WELL # 25	9:33 4/19/01	15:15 4/19/01	RLC		A	L	130	130	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.12.2001 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B.BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF04979	WELL # 21	10:00 4/20/01	15:45 4/20/01	RLC		A	L	130	150	
AF04980	WELL # 22	9:35 4/20/01	15:45 4/20/01	RLC		A	L	90	78	
AF04981	WELL # 23	9:05 4/20/01	15:45 4/20/01	RLC		A	T.N.T.C.	140	120	
AF04982	WELL # 24	10:25 4/20/01	15:45 4/20/01	RLC		A	M	76	94	
AF04983	WELL # 25	10:10 4/20/01	15:45 4/20/01	RLC		A	L	160	160	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER CLEARANCE

REMARKS: AF04981 - ADDITIONAL SAMPLING REQUESTED

REPORTED BY: [Signature] DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.12.01 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05065	Well #21	9:00 4/23/01	16:20 4/23/01	JMB		A	M	92	62	
AF05066	Well #22	9:15 4/23/01	16:20 4/23/01	JMB		A	L	48	47	
AF05067	Well #23	9:40 4/23/01	16:20 4/23/01	JMB		A	M	180	160	
AF05068	Well #24	10:05 4/23/01	16:20 4/23/01	JMB		A	M	200	140	
AF05069	Well #25	10:25 4/23/01	16:20 4/23/01	JMB		A	M	200	85	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: J. M. B... DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: J. M. B... DATE: 5.12.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05119	Well #21	8:55 4/24/01	14:15 4/24/01	JMB		A	M	54	60	
AF05120	Well #22	9:02 4/24/01	14:15 4/24/01	JMB		A	L	25	30	
AF05121	Well #23	9:07 4/24/01	14:15 4/24/01	JMB		A	M	70	60	
AF05122	Well #24	9:14 4/24/01	14:15 4/24/01	JMB		A	M	40	60	
AF05123	Well #25	9:20 4/24/01	14:15 4/24/01	JMB		A	L	30	36	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE

REPORTED BY: J. M. Brown DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.12.2001 LAB MANAGER: [Signature] QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
SYSTEM 9				4501332		B. BRADBURY				
LOG No.		SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)
AF05254		Well # 21	9:50 4/25/01	15:30 4/25/01	JMB		A	M	62	80
AF05255		Well # 22	9:35 4/25/01	15:30 4/25/01	JMB		A	L	130	110
AF05256		Well # 23	9:30 4/25/01	15:30 4/25/01	JMB		A	L	240	220
AF05257		Well # 24	9:10 4/25/01	15:30 4/25/01	JMB		A	M	190	260
AF05258		Well # 25	9:05 4/25/01	15:30 4/25/01	JMB		A	L	300	230

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.12.01 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME SYSTEM 9				I.D. No. 4501332		SAMPLER(S) B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05326	Well #21	9:30 4/26/01	15:30 4/26/01	JMB		A	M	300	260	
AF05327	Well #22	9:35 4/26/01	15:30 4/26/01	JMB		A	L	78	94	
AF05328	Well #23	9:45 4/26/01	15:30 4/26/01	JMB		A	M	160	180	
AF05329	Well #24	9:50 4/26/01	15:30 4/26/01	JMB		A	L	230	200	
AF05330	Well #25	9:58 4/26/01	15:30 4/26/01	JMB		A	L	310	330	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.12.2001 LAB MANAGER: [Signature] QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
SYSTEM 9				4501332		B. BRADBURY				
LOG No.		SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)
AF05344		Well #21	9:25 4/27/01	14:30 4/27/01	JMB		A	L	310	270
AF05345		Well #22	9:28 4/27/01	14:30 4/27/01	JMB		A	L	160	190
AF05346		Well #23	9:40 4/27/01	14:30 4/27/01	JMB		A	L	220	200
AF05347		Well #24	9:45 4/27/01	14:30 4/27/01	JMB		A	L	130	150
AF05348		Well #25	9:50 4/27/01	14:30 4/27/01	JMB		A	L	290	330

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.8.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.12.2001 LAB MANAGER: [Signature] QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05444	Well #21	8:30 4/30/01	15:20 4/30/01	JMB		A	M	130	125	
AF05445	Well #22	8:37 4/30/01	15:20 4/30/01	JMB		A	L	130	110	
AF05446	Well #23	9:10 4/30/01	15:20 4/30/01	JMB		A	L	290	200	
AF05447	Well #24	9:00 4/30/01	15:20 4/30/01	JMB		A	M	42	31	
AF05448	Well #25	8:55 4/30/01	15:20 4/30/01	JMB		A	L	150	210	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: J. M. [Signature] DATE: 5.9.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.12.01 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05481	Well #21	9:20 5/1/01	15:45 5/1/01	JMB		A	M	50	50	
AF05482	Well #22	9:25 5/1/01	15:45 5/1/01	JMB		A	L	100	100	
AF05483	Well #23	9:30 5/1/01	15:45 5/1/01	JMB		A	L	100	80	
AF05484	Well #24	9:35 5/1/01	15:45 5/1/01	JMB		A	M	15	10	
AF05485	Well #25	9:40 5/1/01	15:45 5/1/01	JMB		A	L	80	80	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5-16-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5-16-2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. BRADBURY				
LOG No.		SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)
AF05552		Well #21	9:25 5/2/01	16:30 5/2/01	JMB		A	L	180	210
AF05553		Well #22	9:20 5/2/01	16:30 5/2/01	JMB		A	M	160	120
AF05554		Well #23	9:13 5/2/01	16:30 5/2/01	JMB		A	L	230	250
AF05555		Well #24	9:05 5/2/01	16:30 5/2/01	JMB		A	M	110	94
AF05556		Well #25	8:55 5/2/01	16:30 5/2/01	JMB		A	L	180	170

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.16.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.16.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05613	Well #21	8:47 5/3/01	15:00 5/3/01	JMB		A	L	120	160	
AF05614	Well #22	8:54 5/3/01	15:00 5/3/01	JMB		A	M	270	310	
AF05615	Well #23	9:00 5/3/01	15:00 5/3/01	JMB		A	L	220	190	
AF05616	Well #24	8:40 5/3/01	15:00 5/3/01	JMB		A	L	180	170	
AF05617	Well #25	8:35 5/3/01	15:00 5/3/01	JMB		A	M	200	160	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5-16-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5-16-2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05651	Well #21	8:30 5/4/01	14:30 5/4/01	JMB		A	<1	48	62	
AF05652	Well #22	8:25 5/4/01	14:30 5/4/01	JMB		A	T.N.T.C.	470	420	
AF05653	Well #23	8:37 5/4/01	14:30 5/4/01	JMB		A	L	240	210	
AF05654	Well #24	8:04 5/4/01	14:30 5/4/01	JMB		A	L	98	130	
AF05655	Well #25	8:00 5/4/01	14:30 5/4/01	JMB		A	L	160	140	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE - ADDITIONAL SAMPLING DAY FOR #22 ORDERED

REPORTED BY: [Signature] DATE: 5-16-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5-16-2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05693	Well #21	8:55 5/7/01	15:50 5/7/01	JMB		A	L	14	7	
AF05694	Well #22	9:00 5/7/01	15:50 5/7/01	JMB		A	M	20	17	
AF05695	Well #23	9:52 5/7/01	15:50 5/7/01	JMB		A	L	22	12	
AF05696	Well #24	9:45 5/7/01	15:50 5/7/01	JMB		A	L	8	3	
AF05697	Well #25	9:40 5/7/01	15:50 5/7/01	JMB		A	L	12	2	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE

REPORTED BY: J. M. Brown DATE: 5.16.01 CHEMIST _____ LABTECH:

REVIEWED BY: Jay O'Neil DATE: 5.16.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05808	Well #21	10:05 5/8/01	16:00 5/8/01	JMB		A	L	160	130	
AF05809	Well #22	10:12 5/8/01	16:00 5/8/01	JMB		A	M	120	120	
AF05810	Well #23	10:20 5/8/01	16:00 5/8/01	JMB		A	M	800	800	
AF05811	Well #24	10:30 5/8/01	16:00 5/8/01	JMB		A	M	110	90	
AF05812	Well #25	10:35 5/8/01	16:00 5/8/01	JMB		A	L	50	60	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.16.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.16.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05927	Well #21	10:10 5/9/01	16:00 5/9/01	JMB		A	L	48	60	
AF05928	Well #22	10:02 5/9/01	16:00 5/9/01	JMB		A	M	130	120	
AF05929	Well #23	9:55 5/9/01	16:00 5/9/01	JMB		A	L	110	140	
AF05930	Well #24	9:45 5/9/01	16:00 5/9/01	JMB		A	L	160	140	
AF05931	Well #25	9:40 5/9/01	16:00 5/9/01	JMB		A	L	98	130	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.16.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.16.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (PIA) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF05990	Well #21	9:50 5/10/01	15:30 5/10/01	JMB		A	<1	36	39	
AF05991	Well #22	9:41 5/10/01	15:30 5/10/01	JMB		A	M	130	120	
AF05992	Well #23	8:35 5/10/01	15:30 5/10/01	JMB		A	L	74	94	
AF05993	Well #24	8:10 5/10/01	15:30 5/10/01	JMB		A	L	28	36	
AF05994	Well #25	8:05 5/10/01	15:30 5/10/01	JMB		A	L	43	54	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE

REPORTED BY: [Signature] DATE: 5.16.01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5.16.2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF06005	Well #21	8:35 5/11/01	14:30 5/11/01	JMB		A	<1	PENDING	PENDING	
AF06006	Well #22	8:29 5/11/01	14:30 5/11/01	JMB		A	<1	PENDING	PENDING	
AF06007	Well #23	8:20 5/11/01	14:30 5/11/01	JMB		A	<1	PENDING	PENDING	
AF06008	Well #24	8:15 5/11/01	14:30 5/11/01	JMB		A	<1	PENDING	PENDING	
AF06009	Well #25	8:07 5/11/01	14:30 5/11/01	JMB		A	<1	PENDING	PENDING	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER _____

REMARKS: CLEARANCE - PENDING HPC⁵

REPORTED BY: [Signature] DATE: 5-16-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5-16-2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		B. BRADBURY				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF06046	Well #22	8:55 5/14/01	16:40 5/14/01	JMB		A	M	PENDING	PENDING	
AF06047	Well #23	9:00 5/14/01	16:40 5/14/01	JMB		A	L	PENDING	PENDING	

TYPE OF SUPPLY: _____ COMMUNITY PUBLIC WATER SYSTEM _____ NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

MARKS: CLEARANCE - ADDITIONAL SAMPLING FOR #22, 23 - PENDING HPC

REPORTED BY: [Signature] DATE: 5-16-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 5-16-2001 LAB MANAGER: QA OFFICER: _____



Water Utilities Department

Regulatory Compliance

P.O. Box 16097

West Palm Beach, FL 33416-6097

(561) 641-3429

Fax: (561) 434-5353

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**Palm Beach County
Board of County
Commissioners**

Warren H. Newell, Chairman

Carol A. Roberts, Vice Chair

Karen T. Marcus

Mary McCarty

Burt Aaronson

Tony Masilotti

Addie L. Greene

County Administrator

Robert Weisman

June 19, 2001

Mr. Tom LeFevre
Engineering Supervisor
Plan Review & Permit Section
Palm Beach County Health Department
901 Evernia Street
P.O. Box 29
West Palm Beach, FL 33402

RE: Request for Release of New Raw Water Supply Wells
9W-17 to 9W-25 for Palm Beach County Water Treatment Facility 9
Water

Water Permit Number: 138308-037-WC

Palm Beach County is requesting the release of new raw water supply wells 9W-17 to 9W-25, at Water Treatment Facility 9 Water. Palm Beach County Water Utilities Department has complied with the requirement of performing a Microscopic Particle Analysis (MPA) under special condition #9, and your letter dated April 24, 2001.

Enclosed you will find the (MPA) analysis results of the wells you suggested to be analyzed. These wells are 17, 19, 20, 22, 23, and 25. The analyses were performed by the Department of Health, Tampa Branch Laboratory and the results indicate that there is a low risk of being under the influence of surface water.

To reiterate, the raw water from the new wells will temporarily be routed through the lime softening plant, until the newly constructed membrane plant is fully operational.

The Department would like to use these wells as soon as possible ask that you review the analyses and approve the wells for release.



Water Utilities Department

Regulatory Compliance

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Tony Masilotti

Addie L. Greene

County Administrator

Robert Weisman

"An Equal Opportunity
Affirmative Action Employer"

Should you need additional information, please contact me at (561) 641-3446.
Thank you for your immediate response in advance.

Sincerely,

A handwritten signature in cursive script that reads "Steve Korbela".

Steve Korbela, Manager, Regulatory Compliance

Gary Dernlan, Director, WUD
Larry Johnson, Assistant Director, WUD
Jim Shamblin, Director O&M, WUD
Frank Ferrano, Assistant Director, Engineering, WUD
Lawton McCall, Director, Engineering, WUD
Jorge Jaramillo, Project Manager, WUD
Jaya Navani, Laboratory Manager



MPA SAMPLE REPORT

Lab Sample # E01-078 Utility: Palm Beach County Utilities, Water Plant #9, well #17
 Date/Time Collected 06/05/01 04:00 PM Date/Time Processed: 06/07/01 01:42 PM By: Kehoe/Razai-zadeh
06/06/01 11:00 AM

PROCESSING INFORMATION

Filter color Off-white color of water around the filter: Clear
 Total volume water filtered (gal): 1020 Percoll/sucrose flotation pellet volume (µl): NA
 Total volume filter sediment (µl): 100.0 Percoll/sucrose flotation packed sediment (µl): NA
 µl sediment/100 gallons sampled: 9.80 µl flotation pellet volume/100 gallons sampled: NA
 number of slides examined: 1 material examined: unfloated sediment

Primary Particulates	#/100 gallon	Relative frequency*	Relative Risk Factor*	Comments
Diatoms (with chloroplasts)	0	NS	0	
Other Algae (with chloroplasts)	0	NS	0	
Insects / Larvae	0	NS	0	
Rotifers	0	NS	0	
Plant Debris	0	NS	0	
Other				

EPA Relative Risk = 0

*Reference: USEPA Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA): NA = Not Assayed
 EH = extremely heavy H = heavy M = moderately heavy R = rare NF = None found

Secondary Particulates	#/100 gallon	Comments
Large amorphous debris	R	
Fine amorphous debris	R	
Minerals	M	
Plant pollen	1.0	
Nematodes	0	
Crustaceans	0	
Amoeba	0	
Flagellates & ciliates	0	
Other: eggs	0	
Other: fungal filaments & spores	0	

Comments:

Based upon microscopic particulate analysis and the EPA risk factors associated with bio-indicators, there is a low risk of surface contamination. Determination of surface water influence should not be based solely on the results of one or two MPAs. Other pertinent information, such as water quality data and on-site surveys, should be used in conjunction with the MPA results in making this determination.

Reported by: [Signature] Date: 06/11/01



MPA SAMPLE REPORT

Lab Sample # E01-079 Utility: Palm Beach County Utilities, Water Plant #9, well #18
 Date/Time Collected 06/05/01 04:55 PM Date/Time Processed: 06/07/01 01:45 PM By: Larson/Kehee/Rozal-zadeh
05/06/01 08:46 AM

PROCESSING INFORMATION

Filter color Off-white color of water around the filter: Clear
 Total volume water filtered (gal): 1080 Percoll/sucrose flotation pellet volume (µl): NA
 Total volume filter sediment (µl): 150 Percoll/sucrose flotation packed sediment (µl): NA
 µl sediment/100 gallons sampled: 13.9 µl flotation pellet volume/100 gallons sampled: NA
 number of slides examined: 2 material examined: unfloated sediment

Primary Particulates	#/100 gallon	Relative frequency*	Relative Risk Factor*	Comments
Diatoms (with chloroplasts)	0	NS	0	
Other Algae (with chloroplasts)	1	R	4	
Insects / Larvae	0	NS	0	
Rotifers	0	NS	0	
Plant Debris	0	NS	0	
Other				
EPA Relative Risk =			4	

*Reference: USEPA Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA): **NA = Not Assayed**
EH = extremely heavy H = heavy M = moderately heavy R = rare NF = None found

Secondary Particulates	#/100 gallon	Comments
Large amorphous debris	M	
Fine amorphous debris	M	
Minerals	M	
Plant pollen	5	
Nematodes	0	
Crustaceans	0	
Amoeba	0	
Flagellates & ciliates	0	
Other: eggs	0	
Other: fungal filaments & spores	R	

Comments:

Based upon microscopic particulate analysis and the EPA risk factors associated with bio-indicators, there is a low risk of surface contamination. Determination of surface water influence should not be based solely on the results of one or two MPAs. Other pertinent information, such as water quality data and on-site surveys, should be used in conjunction with the MPA results in making this determination.

Reported by: [Signature] Date: 06/11/01



MPA SAMPLE REPORT

Lab Sample # E01-076 Utility: Palm Beach County Utilities, Water Plant #9 well #20
 Date/time Collected 06/04/01 03:50 PM Date/time Processed: 06/08/01 11:40 AM By: Kehoe/Rezal-zadeh
06/05/01 10:00 AM

PROCESSING INFORMATION

Filter color Off-white color of water around the filter: Clear
 Total volume water filtered (gal): 1000 Percoll/sucrose flotation pellet volume (µl): NA
 Total volume filter sediment (µl): 50.0 Percoll/sucrose flotation packed sediment (µl): NA
 µl sediment/100 gallons sampled: 5.0 µl flotation pellet volume/100 gallons sampled: NA
 number of slides examined: 5 material examined: unfloated sediment

Primary Particulates	#/100 gallon	Relative frequency*	Relative Risk Factor*	Comments
Diatoms (with chloroplasts)	0	NS	0	
Other Algae (with chloroplasts)	0	NS	0	
Insects / Larvae	0	NS	0	
Rotifers	0	NS	0	
Plant Debris	0	NS	0	
Other				
EPA Relative Risk =			0	

*Reference: USEPA Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA): NA = Not Assayed
 EH = extremely heavy H = heavy M = moderately heavy R = rare NF = None found

Secondary Particulates	#/100 gallon	Comments
Large amorphous debris	R	
Fine amorphous debris	M	
Minerals	R	
Plant pollen	1.4	
Nematodes	0	
Crustaceans	0	
Amoeba	0	
Flagellates & ciliates	0.1	
Other: eggs	0	
Other: fungal filaments & spores	R	

Comments: Entire pellet examined.

Based upon microscopic particulate analysis and the EPA risk factors associated with bio-indicators, there is a low risk of surface contamination. Determination of surface water influence should not be based solely on the results of one or two MPAs. Other pertinent information, such as water quality data and on-site surveys, should be used in conjunction with the MPA results in making this determination.

Reported by: [Signature] Date: 06/11/01



MPA SAMPLE REPORT

Lab Sample # E01-077 Utility: Palm Beach County Utilities, Water Plant #8/well #22
 Date/Time Collected 06/04/01 02:45 PM Date/Time Processed: 06/06/01 11:30 AM By: Larson/Kehoe/Rezaei-zadeh
06/05/01 08:25 AM

PROCESSING INFORMATION

Filter color Off-white color of water around the filter: Clear
 Total volume water filtered (gal): 1320 Percoll/sucrose flotation pellet volume (µl): NA
 Total volume filter sediment (µl): 50.0 Percoll/sucrose flotation packed sediment (µl): NA
 µl sediment/100 gallons sampled: 3.8 µl flotation pellet volume/100 gallons sampled: NA
 number of slides examined: 5 material examined: unfloated sediment

Primary Particulates	#/100 gallon	Relative frequency*	Relative Risk Factor*	Comments
Diatoms (with chloroplasts)	0	NS	0	
Other Algae (with chloroplasts)	0.08	NS	0	
Insects / Larvae	0	NS	0	
Rotifers	0	NS	0	
Plant Debris	0	NS	0	
Other				
EPA Relative Risk =			0	

*Reference: USEPA Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA); NA = Not Assayed
 EH = extremely heavy H = heavy M = moderately heavy R = rare NF = None found

Secondary Particulates	#/100 gallon	Comments
Large amorphous debris	M	
Fine amorphous debris	M	
Minerals	R	
Plant pollen	1.1	
Nematodes	0	
Crustaceans	0	
Amoeba	0	
Flagellates & ciliates	0	
Other: eggs	0	
Other: fungal filaments & spores	R	

Comments: Entire pellet examined.

Based upon microscopic particulate analysis and the EPA risk factors associated with bio-indicators, there is a low risk of surface contamination. Determination of surface water influence should not be based solely on the results of one or two MPAs. Other pertinent information, such as water quality data and on-site surveys, should be used in conjunction with the MPA results in making this determination.

Reported by: [Signature] Date: 06/11/01



MPA SAMPLE REPORT

Lab Sample # E01-082 Utility: Palm Beach County Utilities, Water Plant #9, well #23
 Date/Time Collected 06/10/01 03:10 PM Date/Time Processed: 06/12/01 11:00 AM By: Kehee/Rezaizadeh
06/11/01 08:30 AM

PROCESSING INFORMATION

Filter color White color of water around the filter: Clear
 Total volume water filtered (gal): 1140 Percoll/sucrose flotation pellet volume (ul): NA
 Total volume filter sediment (ul): 90 Percoll/sucrose flotation packed sediment (ul): NA
 ul sediment/100 gallons sampled: 7.9 ul flotation pellet volume/100 gallons sampled: NA
 number of slides examined: 9 material examined: unfloated sediment

Primary Particulates	#/100 gallon	Relative frequency*	Relative Risk Factor*	Comments
Diatoms (with chloroplasts)	0	NS	0	
Other Algae (with chloroplasts)	0.09	NS	0	
Insects / Larvae	0	NS	0	
Rotifers	0	NS	0	
Plant Debris	0	NS	0	
Other				
EPA Relative Risk =			0	

*Reference: USEPA Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA):
 NA = Not Assayed
 EH = extremely heavy H = heavy M = moderately heavy R = rare NF = None found

Secondary Particulates	#/100 gallon	Comments
Large amorphous debris	M	
Fine amorphous debris	M	
Minerals	R	
Plant pollen	0.5	
Nematodes	0	
Crustaceans	0	
Amoeba	0	
Flagellates & ciliates	0	
Other: eggs	0	
Other: fungal filaments & spores	R	

Comments: Entire pellet examined.

Based upon microscopic particulate analysis and the EPA risk factors associated with bio-indicators, there is a low risk of surface contamination. Determination of surface water influence should not be based solely on the results of one or two MPAs. Other pertinent information, such as water quality data and on-site surveys, should be used in conjunction with the MPA results in making this determination.

Reported by: [Signature] Date: 06/18/01



MPA SAMPLE REPORT

Lab Sample # E01-083 Utility: Palm Beach County Utilities, Water Plant #9 well #25
 Date/Time Collected 06/10/01 04:00 PM Date/Time Processed: 06/12/01 11:15 AM By: Kehoe/Reza-Zadeh
06/11/01 08:55 AM

PROCESSING INFORMATION

Filter color Off-white color of water around the filter: Clear
 Total volume water filtered (gal): 1020 Percoll/sucrose flotation pellet volume (µl): NA
 Total volume filter sediment (µl): 80 Percoll/sucrose flotation packed sediment (µl): NA
 µl sediment/100 gallons sampled: 7.8 µl flotation pellet volume/100 gallons sampled: NA
 number of slides examined: 8 material examined: unfloated sediment

Primary Particulates	#/100 gallon	Relative frequency*	Relative Risk Factor	Comments
Diatoms (with chloroplasts)	0	NS	0	
Other Algae (with chloroplasts)	0.1	NS	0	
Insects / Larvae	0	NS	0	
Rotifers	0	NS	0	
Plant Debris	0	NS	0	
Other				
EPA Relative Risk =			0	

*Reference: USEPA Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA): NA = Not Assayed
 EH = extremely heavy H = heavy M = moderately heavy R = rare NF = None found

Secondary Particulates	#/100 gallon	Comments
Large amorphous debris	M	
Fine amorphous debris	M	
Minerals*	M	
Plant pollen	1	
Nematodes	0	
Crustaceans	0	
Amoeba	0	
Flagellates & ciliates	0	
Other: eggs	0	
Other: fungal filaments & spores	R	

Comments: Entire pellet examined.

Based upon microscopic particulate analysis and the EPA risk factors associated with bio-indicators, there is a low risk of surface contamination. Determination of surface water influence should not be based solely on the results of one or two MPAs. Other pertinent information, such as water quality data and on-site surveys, should be used in conjunction with the MPA results in making this determination.

Reported by: [Signature] Date: 06/18/01



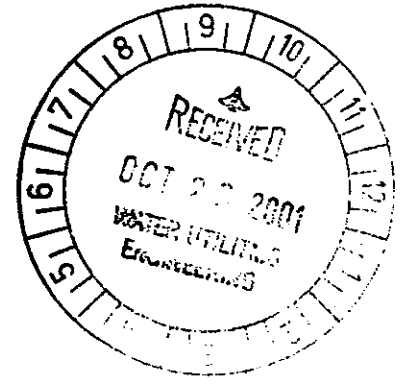
Steve 10/29

FYI

Steve

Water Utilities Department
Regulatory Compliance
P.O. Box 16097
West Palm Beach, FL 33416-6097
(561) 641-3429
Fax: (561) 434-5353
www.pbcgov.com

October 25, 2001



Mr. Tom LeFevre
Engineering Supervisor
Plan Review & Permit Section
Palm Beach County Health Department
901 Evernia Street
P.O. Box 29
West Palm Beach, FL 33402

Palm Beach County
Board of County
Commissioners

RE: Request to Continue Using New Raw Water Supply Wells
9W-17 to 9W-25 at Palm Beach County Water Treatment Facility 9
Water

- Warren H. Newell, Chairman
- Carol A. Roberts, Vice Chair
- Karen T. Marcus
- Mary McCarty
- Burt Aaronson
- Tony Masilotti
- Addie L. Greene

Water Permit Number: 138308-037-WC

Palm Beach County is requesting to continue the use of new raw water supply wells 9W-17 to 9W-25 at Water Treatment Facility 9 Water. Enclosed you will find results of Microscopic Particle Analysis (MPA) performed on wells 17, 19, 20, 22, and 23. Well 25 had not been analyzed due to well adjustment issues. These analyses represent the wet season sampling as directed by you in June of this year. The dry season analyses were sent to you in June.

The analyses were performed by the Department of Health, Tampa Branch Laboratory. Please note that the MPA analyses for all wells are considered a low risk of being under the influence of surface water contamination.

To reiterate, these new wells will be directed to the lime softening facility until the new membrane plant is fully operational. This is expected to be in December 2001.

Should you need additional information, please contact me at (561) 641-3446. Thank you for your immediate response in advance.

Sincerely,
Steve Korbela

Steve Korbela, Manager, Regulatory Compliance Division



**Water Utilities Department
Regulatory Compliance**

P.O. Box 16097

West Palm Beach, FL 33416-6097

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Fax: (561) 434-5353

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County Administrator

Robert Weisman

CC: Gary Dernlan, Director
Larry Johnson, Assistant Director
Jim Shamblin, Director O&M
Frank Ferrano, Assistant Director, Engineering
Lawton McCall, Director, Engineering
Jorge Jaramillo, Project Manager
Jaya Navani, Laboratory Manager



Jeb Bush
 Governor

Bureau of Laboratories - Tampa

John O. Agwunobi, M.D.
 Secretary

Tel: (813)974-8000/SC 574-8000 • Fax: (813)974-3425/SC 574-3425

MPA SAMPLE REPORT

Lab Sample # E01-127 Utility: Palm Beach County Utilities, System #9 well #17
 Date/Time Collected 10/01/01 02:00 PM Date/Time Processed: 10/03/01 11:00 AM By: Larson/Kehoe/Birge
10/02/01 08:15 AM

PROCESSING INFORMATION

Filter color White color of water around the filter: Very light brown
 Total volume water filtered (gal): 1160 Percoll/sucrose flotation pellet volume (µl): NA
 Total volume filter sediment (µl): 90 Percoll/sucrose flotation packed sediment (µl): NA
 µl sediment/100 gallons sampled: 7.8 µl flotation pellet volume/100 gallons sampled: NA
 number of slides examined: 8 material examined: unfloated sediment

Primary Particulates	#/100 gallon	Relative frequency*	Relative Risk Factor*	Comments
Diatoms (with chloroplasts)	0	NS	0	
Other Algae (with chloroplasts)	0	NS	0	
Insects / Larvae	0	NS	0	
Rotifers	0	NS	0	
Plant Debris	0	NS	0	
Other				
EPA Relative Risk =			0	

*Reference: USEPA Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA): NA = Not Assayed
 EH = extremely heavy H = heavy M = moderately heavy R = rare NF = None found

Secondary Particulates	#/100 gallon	Comments
Large amorphous debris	M	
Fine amorphous debris	M	
Minerals	R	
Plant pollen	0.2	
Nematodes	0	
Crustaceans	0	
Amoeba	0	
Flagellates & ciliates	0	
Other: eggs	0.09	
Other: fungal filaments & spores	R	

Comments: Entire pellet examined.

Based upon microscopic particulate analysis and the EPA risk factors associated with bio-indicators, there is a low risk of surface contamination. Determination of surface water influence should not be based solely on the results of one or two MPAs. Other pertinent information, such as water quality data and on-site surveys, should be used in conjunction with the MPA results in making this determination.

Reported by: [Signature] Date: 10/18/01



Jeb Bush
Governor

Bureau of Laboratories - Tampa

John O. Agwunobi, M.D.
Secretary

Tel: (813)974-8000/SC 574-8000 • Fax: (813)974-5425/SC 574-3425

MPA SAMPLE REPORT

Lab Sample # E01-135 Utility: Palm Beach County Utilities, System #9, well #19
 Date/time Collected: 10/02/01 02:30 PM Date/time Processed: 10/04/01 11:10 AM By: Larson/Kenoe/Birge
10/03/01 01:00 PM

PROCESSING INFORMATION

Filter color Off-white color of water around the filter: Clear
 Total volume water filtered (gal): 1000 Percoll/sucrose flotation pellet volume (µl): NA
 Total volume filter sediment (µl): 50 Percoll/sucrose flotation packed sediment (µl): NA
 µl sediment/100 gallons sampled: 5.0 µl flotation pellet volume/100 gallons sampled: NA
 number of slides examined: 5 material examined: unfloated sediment

Primary Particulates	#/100 gallon	Relative frequency	Relative Risk Factor	Comments
Diatoms (with chloroplasts)	0	NS	0	
Other Algae (with chloroplasts)	0.1	NS	0	
Insects / Larvae	0	NS	0	
Rotifers	0.1	NS	0	
Plant Debris	0	NS	0	
Other				
EPA Relative Risk =			0	

*Reference: USEPA Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA):
 NA = Not Assayed
 EH = extremely heavy H = heavy M = moderately heavy R = rare NF = None found

Secondary Particulates	#/100 gallon	Comments
Large amorphous debris	H	
Fine amorphous debris	H	
Minerals	R	
Plant pollen	0.3	
Nematodes	0	
Crustaceans	0	
Amoeba	0	
Flagellates & ciliates	0	
Other: eggs	0	
Other: fungal filaments & spores	R	

Comments: Entire pellet examined.

Based upon microscopic particulate analysis and the EPA risk factors associated with bio-indicators, there is a low risk of surface contamination. Determination of surface water influence should not be based solely on the results of one or two MPAs. Other pertinent information, such as water quality data and on-site surveys, should be used in conjunction with the MPA results in making this determination.

Reported by: [Signature] Date: 10/19/01



Jeb Bush
 Governor

Bureau of Laboratories - Tampa

John O. Agwunobi, M.D.
 Secretary

Tel: (813)974-8000/SC 574-8000 • Fax: (813)974-3425/SC 574-3425

MPA SAMPLE REPORT

Lab Sample # E01-128 Utility: Palm Beach County Utilities, System #9, well #20
 Date/time Collected 10/01/01 02:50 PM Date/time Processed: 10/03/01 11:15 AM By: Larson/Kane/Birge
10/02/01 11:30 AM

PROCESSING INFORMATION

Filter color White color of water around the filter: Clear
 Total volume water filtered (gal): 900 Percoll/sucrose flotation pellet volume (µl): NA
 Total volume filter sediment (µl): 30 Percoll/sucrose flotation packed sediment (µl): NA
 µl sediment/100 gallons sampled: 3.3 µl flotation pellet volume/100 gallons sampled: NA
 number of slides examined: 3 material examined: unfloated sediment

Primary Particulates	#/100 gallon	Relative frequency*	Relative Risk Factor	Comments
Diatoms (with chloroplasts)	0	NS	0	
Other Algae (with chloroplasts)	0	NS	0	
Insects / Larvae	0	NS	0	
Rotifers	0	NS	0	
Plant Debris	0	NS	0	
Other				
EPA Relative Risk =			0	

*Reference: USEPA Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA): NA = Not Assayed
 EH = extremely heavy H = heavy M = moderately heavy R = rare NF = None found

Secondary Particulates	#/100 gallon	Comments
Large amorphous debris	EH	
Fine amorphous debris	M	
Minerals	M	
Plant pollen	0.6	
Nematodes	0	
Crustaceans	0	
Amoeba	0	
Flagellates & ciliates	0	
Other eggs	0	
Other: fungal filaments & spores	R	

Comments: Entire pellet examined.

Based upon microscopic particulate analysis and the EPA risk factors associated with bio-indicators, there is a low risk of surface contamination. Determination of surface water influence should not be based solely on the results of one or two MPAs. Other pertinent information, such as water quality data and on-site surveys, should be used in conjunction with the MPA results in making this determination

Reported by: [Signature] Date: 10/18/01



Jeb Bush
Governor

Bureau of Laboratories - Tampa

John O. Agwunobi, M.D.
Secretary

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MPA SAMPLE REPORT

Lab Sample # E01-129 Utility: Palm Beach County Utilities, System #9, well #22
 Date/time Collected 10/01/01 03:15 PM Date/time Processed: 10/03/01 11:39 AM By: Larson/Kehoe/Birge
10/02/01 09:30 AM

PROCESSING INFORMATION

Filter color White color of water around the filter: Clear
 Total volume water filtered (gal): 1000 Percoll/sucrose flotation pellet volume (µl): NA
 Total volume filter sediment (µl): 10 Percoll/sucrose flotation packed sediment (µl): NA
 µl sediment/100 gallons sampled: 1.0 µl flotation pellet volume/100 gallons sampled: NA
 number of slides examined: 1 material examined: unfloated sediment

Primary Particulates	#/100 gallon	Relative frequency*	Relative Risk Factor	Comments
Diatoms (with chloroplasts)	0	NS	0	
Other Algae (with chloroplasts)	0	NS	0	
Insects / Larvae	0	NS	0	
Rotifers	0	NS	0	
Plant Debris	0	NS	0	
Other				
EPA Relative Risk =			0	

*Reference: USEPA Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA):
 NA = Not Assayed
 EH = extremely heavy H = heavy M = moderately heavy R = rare NF = None found

Secondary Particulates	#/100 gallon	Comments
Large amorphous debris	H	
Fine amorphous debris	M	
Minerals	R	
Plant pollen	0.1	
Nematodes	0	
Crustaceans	0	
Amoeba	0	
Flagellates & ciliates	0	
Other: eggs	0	
Other: fungal filaments & spores	M	

Comments: Entire pellet examined.

Based upon microscopic particulate analysis and the EPA risk factors associated with bio-indicators, there is a low risk of surface contamination. Determination of surface water influence should not be based solely on the results of one or two MPAs. Other pertinent information, such as water quality data and on-site surveys should be used in conjunction with the MPA results in making this determination.

Reported by: [Signature] Date 10/18/01



John O. Agwunobi, M.D.
Secretary

Jeb Bush
Governor

Bureau of Laboratories - Tampa

Tel: (813)974-8000/SC 574-8000 • Fax: (813)974-3425/SC 574-3425

MPA SAMPLE REPORT

Lab Sample # E01-130 Utility: Palm Beach County Utilities, System #9, well #23
 Date/Time Collected: 10/01/01 03:35 PM Date/Time Processed: 10/03/01 11:58 AM By: Larson/Kehoe/Birge
10/02/01 01:00 PM

PROCESSING INFORMATION

Filter color Off-white color of water around the filter: Clear
 Total volume water filtered (gal): 1010 Percoll/sucrose flotation pellet volume (µl): NA
 Total volume filter sediment (µl): 40 Percoll/sucrose flotation packed sediment (µl): NA
 µl sediment/100 gallons sampled: 4.0 µl flotation pellet volume/100 gallons sampled: NA
 number of slides examined: 4 material examined: unfloated sediment

Primary Particulates	#/100 gallon	Relative frequency*	Relative Risk Factor*	Comments
Diatoms (with chloroplasts)	0	NS	0	
Other Algae (with chloroplasts)	0	NS	0	
Insects / Larvae	0	NS	0	
Rotifers	0	NS	0	
Plant Debris	0	NS	0	
Other				

EPA Relative Risk = 0

*Reference: USEPA Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA):
 NA = Not Assayed
 EH = extremely heavy H = heavy M = moderately heavy R = rare NF = None found

Secondary Particulates	#/100 gallon	Comments
Large amorphous debris	EH	
Fine amorphous debris	M	
Minerals	M	
Plant pollen	0.2	
Nematodes	0	
Crustaceans	0	
Amoeba	0	
Flagellates & ciliates	0	
Other: eggs	0	
Other: fungal filaments & spores	R	

Comments: Entire pellet examined.

Based upon microscopic particulate analysis and the EPA risk factors associated with bio-indicators, there is a low risk of surface contamination. Determination of surface water influence should not be based solely on the results of one or two MPAs. Other pertinent information, such as water quality data and on-site surveys, should be used in conjunction with the MPA results in making this determination.

Reported by: [Signature] Date: 10/19/01



Jeb Bush
Governor

Bureau of Laboratories - Tampa

John O. Agwunobi, M.D.
Secretary

Tel: (813)974-8000/SC 574-8000 • Fax: (813)974-3425/SC 574-3425

October 21, 2001

Ms. Jaya Navani
Palm Beach County Utilities
13026 Jog Road, Bldg. K
Delray Beach, FL 33446

Dear Ms. Navani:

Enclosed are the results for the samples submitted for Microscopic Particulate Analysis (MPA) assay on October 3, 2001. These samples were processed according to the US EPA consensus method for determining groundwaters under the direct influence of surface water using microscopic particulate analysis (EPA 910/9-92-029). Risk for contamination is computed from the tables in this document, based on frequency of primary particulates observed per 100 gallons of water examined.

In addition to the Assay Report, I have also enclosed copies of the MPA classification and quantitation record, specimen submittal sheets and an invoice for these tests. Please forward the invoice for payment.

Please contact me if you have any questions or need additional documentation.

Thank you for selecting our laboratory. I hope we will be able to meet your testing needs now and in the future. I look forward to hearing from you.

Sincerely,

A handwritten signature in cursive script that reads "Lillian M. Stark".

Lillian M. Stark, Ph.D., M.P.H., M.S.
Biological Administrator I

LMS/als

Enclosure: 5

ATTACHMENT 2

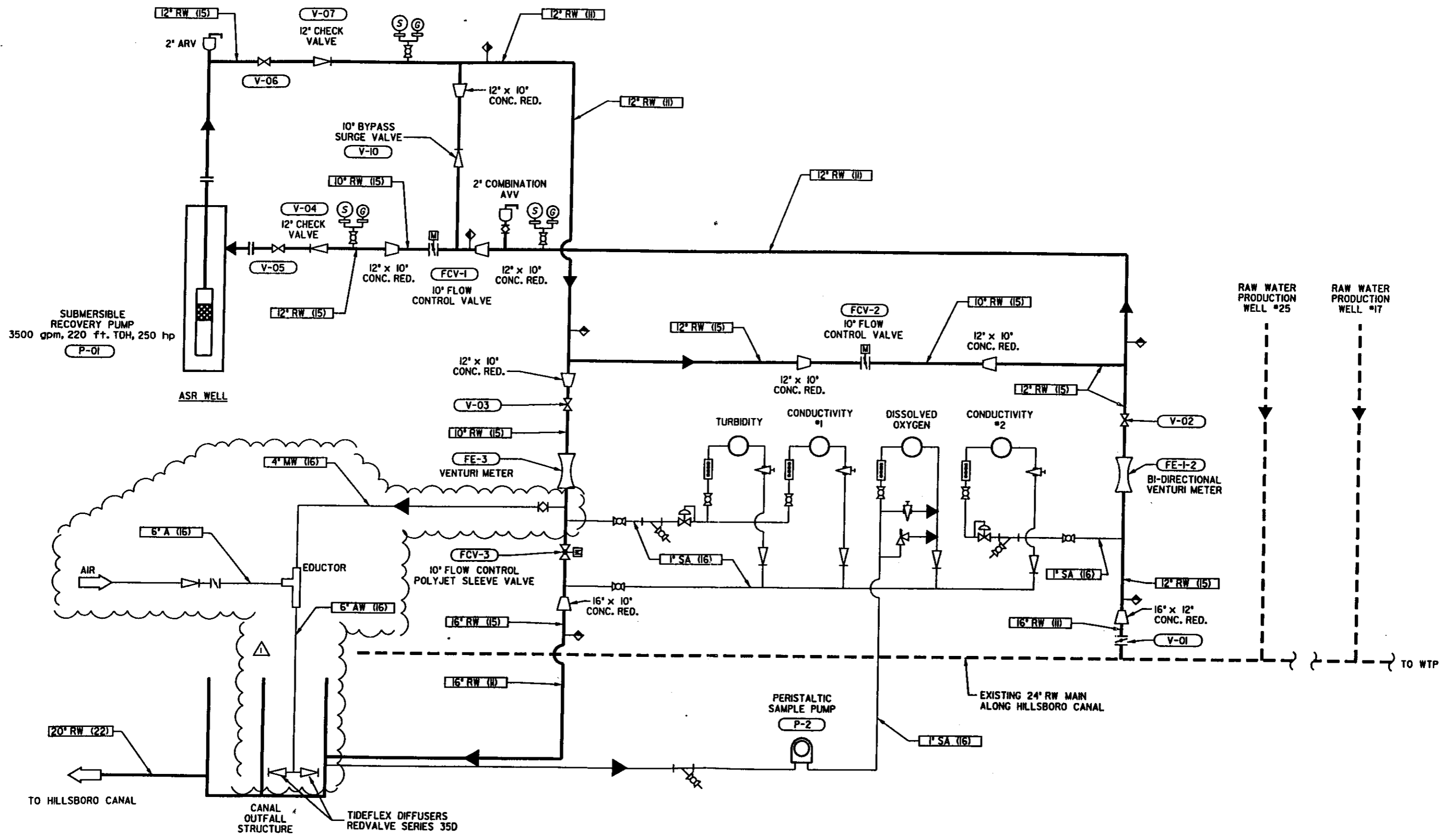
CONCEPTUAL DESIGN

**Additional Information Requested to Complete
Deliverable previously submitted**

Sheets G-7, C-1, C-3, GM-2, M-2

Aeration system eductor and canal outfall modification

JOB No. 1007.0002 FILE No. 01-1010 Hillsborough\ASRwell\gen\g08.dgn 09:32 09-MAR-2001 Prof. Dorte



SCALE: NO SCALE
 WARNING: IF THIS BAR DOES NOT MEASURE 1/2" THEN DRAWING IS NOT TO SCALE.

DESIGNED: J. McMAHON
 DRAWN: J. ZARAGOZA
 CHECKED: G. HART

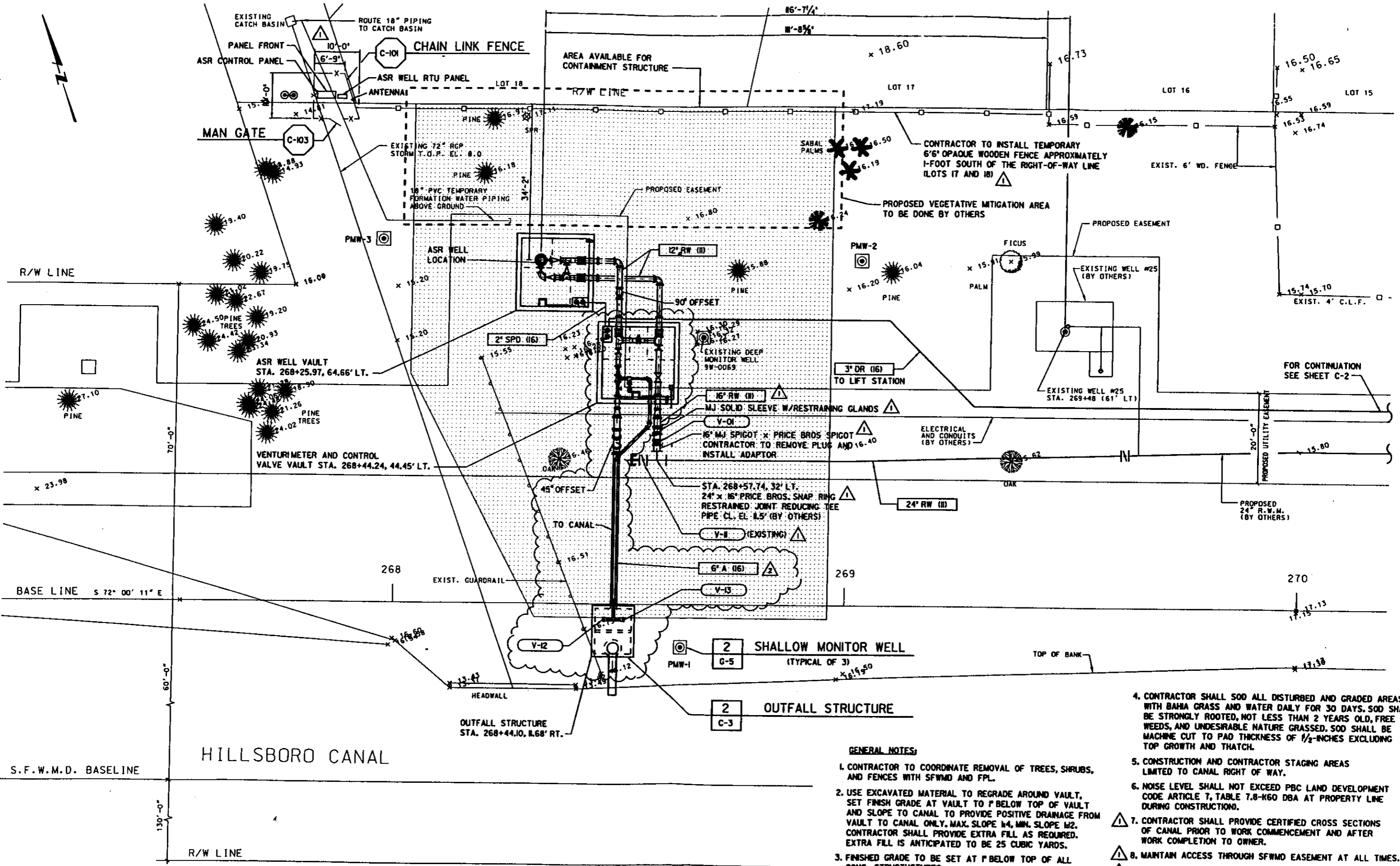
Kimley-Horn and Associates, Inc.
 443 Embury Drive
 West Palm Beach, Florida 33407
 Certificate of Authorization Number 698

MONTGOMERY WATSON
 490 SAWGRASS CORPORATE PARKWAY
 SUITE 300 PALM BEACH, FLORIDA 33425
 Certificate of Authorization Number 6773

Palm Beach County
 Water Utilities Department

PALM BEACH COUNTY
 HILLSBORO ASR WELL
 PROCESS FLOW DIAGRAM - ASR WELL
 SHEET G-7

JOB No. 3007.0082 FILE No. 91\p\p\hillsboro\ough\ASRwell\civ\c.dwg Plot Date: 09-MAR-2009 09:24



GENERAL NOTES:

1. CONTRACTOR TO COORDINATE REMOVAL OF TREES, SHRUBS, AND FENCES WITH SFWMD AND FPL.
2. USE EXCAVATED MATERIAL TO REGRADE AROUND VAULT, SET FINISH GRADE AT VAULT TO 1' BELOW TOP OF VAULT AND SLOPE TO CANAL TO PROVIDE POSITIVE DRAINAGE FROM VAULT TO CANAL ONLY. MAX. SLOPE 1/4, MIN. SLOPE 1/2. CONTRACTOR SHALL PROVIDE EXTRA FILL AS REQUIRED. EXTRA FILL IS ANTICIPATED TO BE 25 CUBIC YARDS.
3. FINISHED GRADE TO BE SET AT 1' BELOW TOP OF ALL CONC. STRUCTURES.
4. CONTRACTOR SHALL SOO ALL DISTURBED AND GRADED AREAS WITH BAHIA GRASS AND WATER DAILY FOR 30 DAYS. SOO SHALL BE STRONGLY ROOTED, NOT LESS THAN 2 YEARS OLD, FREE OF WEEDS, AND UNDESIRABLE NATURE GRASSES. SOO SHALL BE MACHINE CUT TO PAD THICKNESS OF 1/2-INCHES EXCLUDING TOP GROWTH AND THATCH.
5. CONSTRUCTION AND CONTRACTOR STAGING AREAS LIMITED TO CANAL RIGHT OF WAY.
6. NOISE LEVEL SHALL NOT EXCEED PBC LAND DEVELOPMENT CODE ARTICLE 7, TABLE 7.8-K60 DBA AT PROPERTY LINE DURING CONSTRUCTION.
7. CONTRACTOR SHALL PROVIDE CERTIFIED CROSS SECTIONS OF CANAL PRIOR TO WORK COMMENCEMENT AND AFTER WORK COMPLETION TO OWNER.
8. MAINTAIN ACCESS THROUGH SFWMD EASEMENT AT ALL TIMES.
9. ALL BURIED D.J.P. TO BE RESTRAINED JOINT.

REV	DATE	BY	DESCRIPTION
1	5/7/09	JAZ	AERATION MODIFICATIONS PER NPDES PERMIT
2	11/03/09	JAZ	ADDENDUM #1

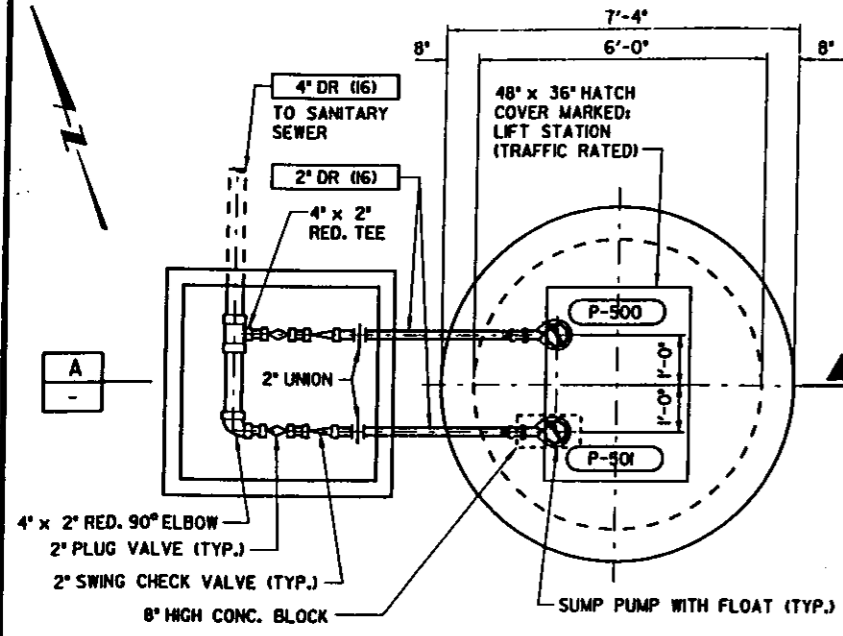
SCALE: 1"=10'	WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.	DESIGNED: J. McMAHON
		DRAWN: J. ZARAGOZA
		CHECKED: G. HART

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 West Palm Beach, Florida 33407
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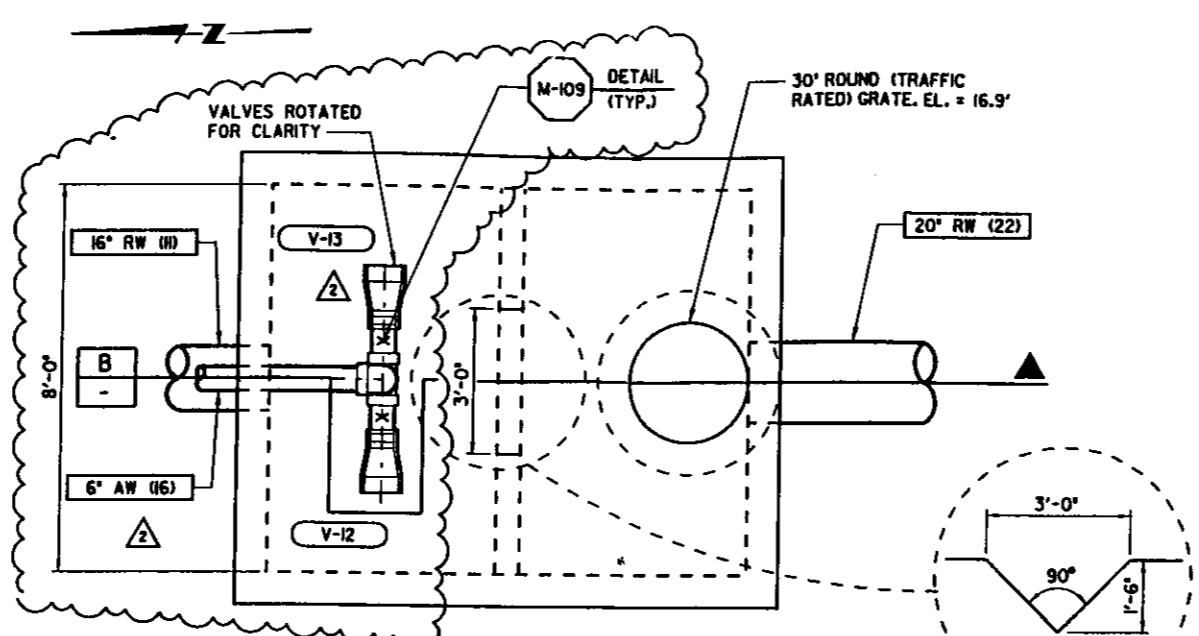
MONTGOMERY WATSON
 490 SAWGRASS CORPORATE PARKWAY
 SUITE 300 SUNRISE, FLORIDA 33325
 Certificate of Authorization Number 6773

Palm Beach County
 Water Utilities Department

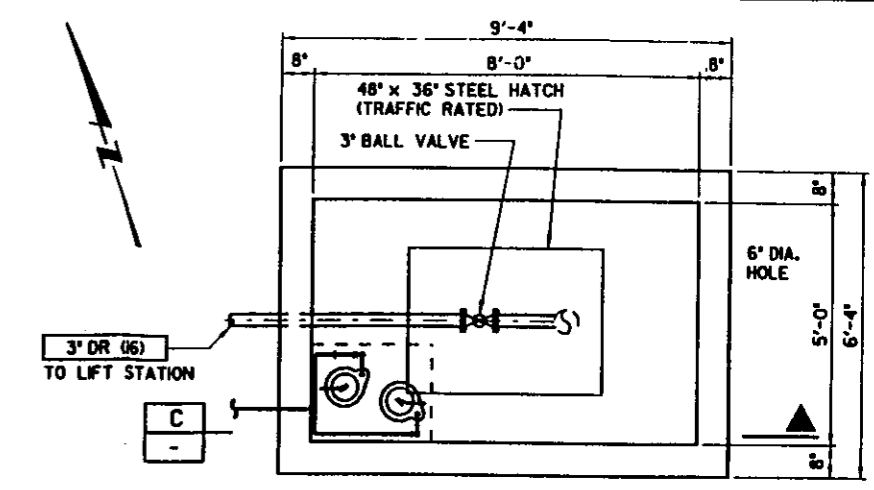
PALM BEACH COUNTY	SHEET
HILLSBORO ASR WELL	C-1
YARD PIPING PLAN AND TEMPORARY DRILLING PAD	



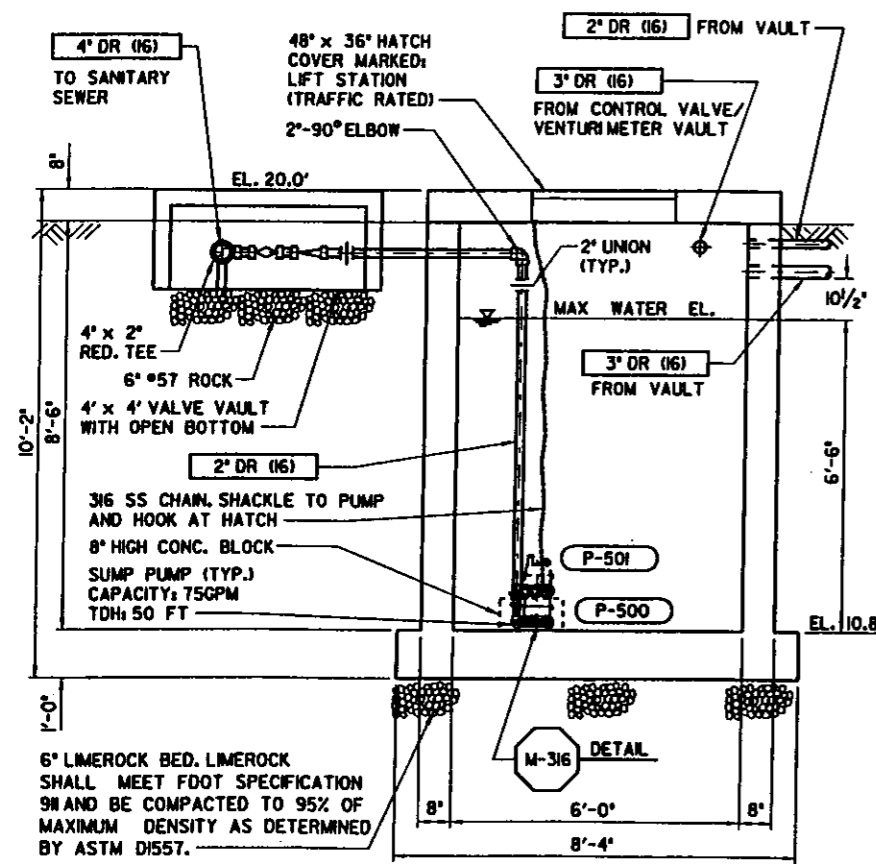
LIFT STATION DETAIL 1
SCALE: 1/2" = 1'-0"



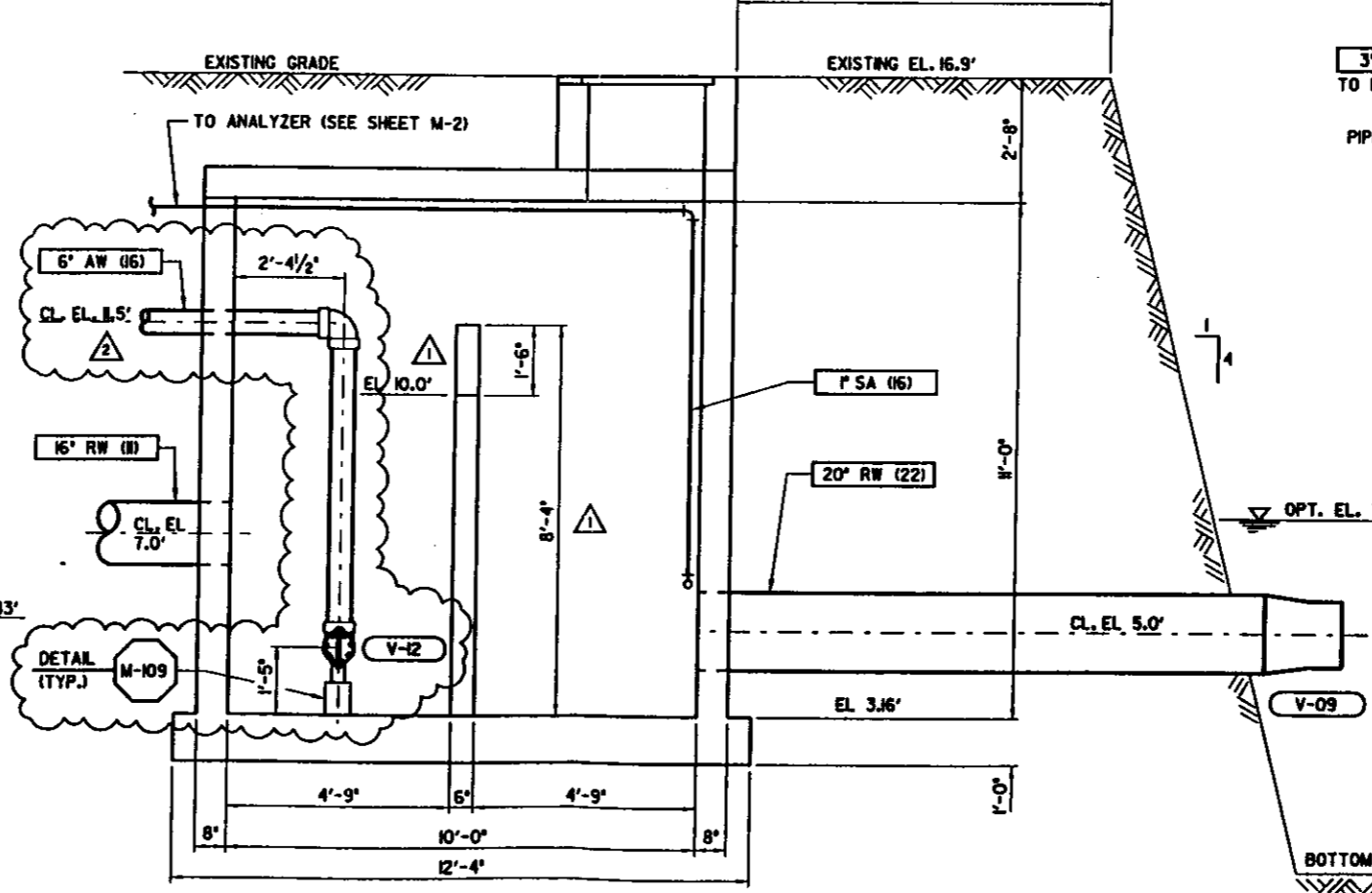
OUTFALL STRUCTURE DETAIL 2
SCALE: 1/2" = 1'-0"



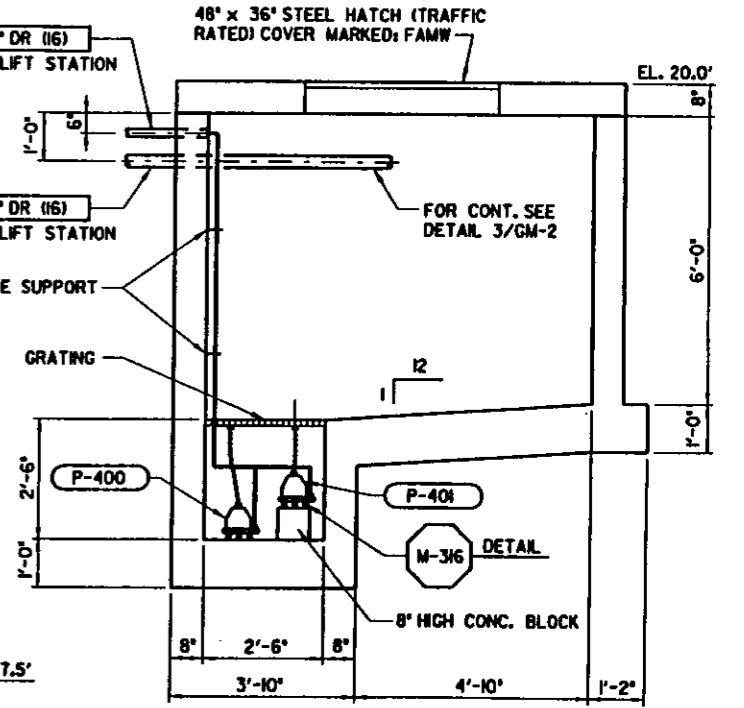
FLORIDAN AQUIFER MONITOR WELL VAULT DETAIL 3
SCALE: 1/2" = 1'-0"



SECTION A
SCALE: 1/2" = 1'-0"



SECTION B
SCALE: 1/2" = 1'-0"



SECTION C
SCALE: 1/2" = 1'-0"

JOB No. 3007.0082 FILE No. G:\p\o\1\hillsboro\ugry\ASRwell\civ\ed03.dgn Plot Date: 09-MAR-2001 09:59

REV	DATE	BY	DESCRIPTION
1	3/7/01	JAZ	AERATION MODIFICATIONS PER NPDES PERMIT
2	1/10/01	JAZ	ADDENDUM #1

SCALE:	0 1/2 1
WARNING	IF THIS BAR DOES NOT MEASURE IT THEN DRAWING IS NOT TO SCALE.

DESIGNED	B. HACHENBURG
DRAWN	J. ZARAGOZA
CHECKED	G. HART

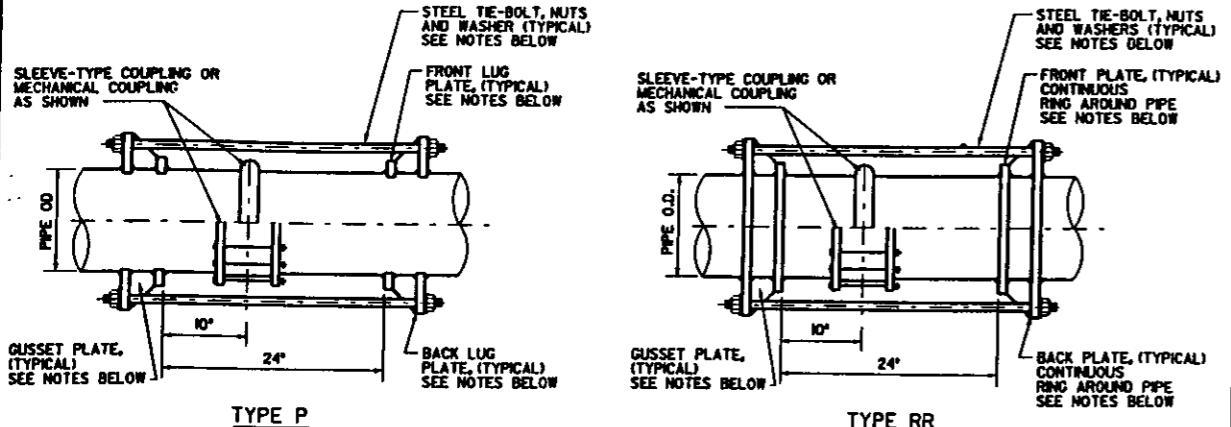
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 4431 Embury Road Dr.
 West Palm Beach, Florida 33407
 Certificate of Authorization Number 698

MONTGOMERY WATSON
 490 SANDGRASS CORPORATE PARKWAY
 SUITE 300 SUNRISE, FLORIDA 33325
 Certificate of Authorization Number 6773

Palm Beach County Water Utilities Department

PALM BEACH COUNTY	
HILLSBORO ASR WELL	
PRE-CAST STRUCTURES	

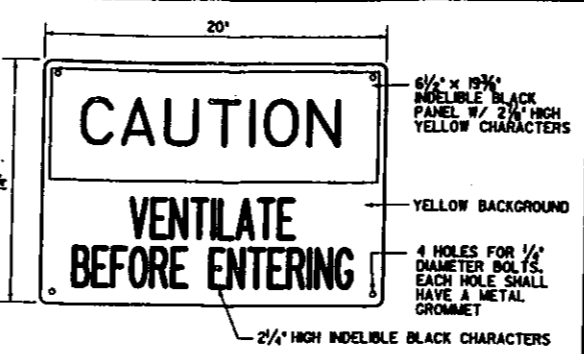
SHEET	C-3
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TYPE P
TYPE RR

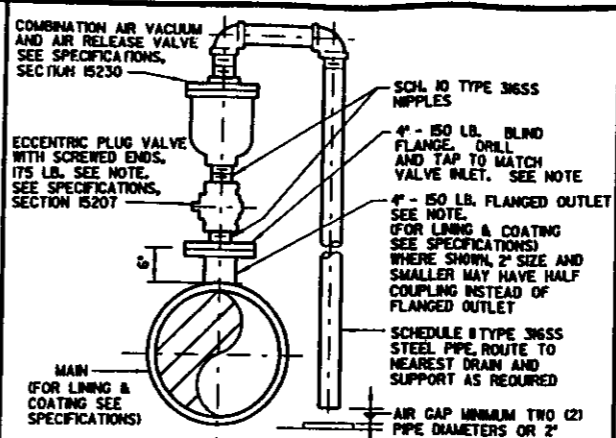
NOTES:
 1. SEE AWWA MANUAL M 8 FOR HARNESS SET SIZE AND DESIGN REQUIREMENTS.
 2. WHERE BURNED TIE-BOLTS, NUTS, WASHERS AND GUSSET PLATE SHALL BE TYPE 316 STAINLESS STEEL.

HARNESSED JOINT REV 050399 **M-156**



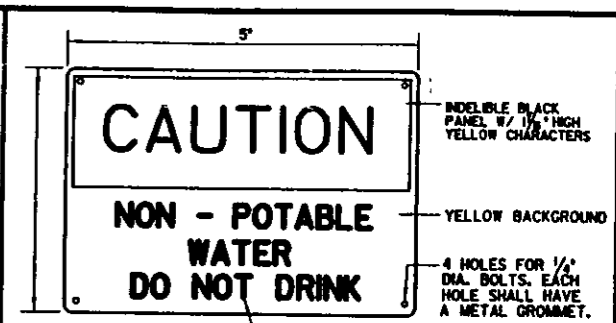
NOTES:
 1. WARNING SIGN TO BE ABLE TO BEND TO A 3" RADIUS.
 2. MATERIAL TO BE 0.060" THICK BUTYRATE OR EQUAL.
 3. SIGN TO BE ATTACHED IN CONSPICUOUS LOCATION AT ENTRY OF STRUCTURE.

VENTILATION WARNING SIGN REV 010199 **M-509**



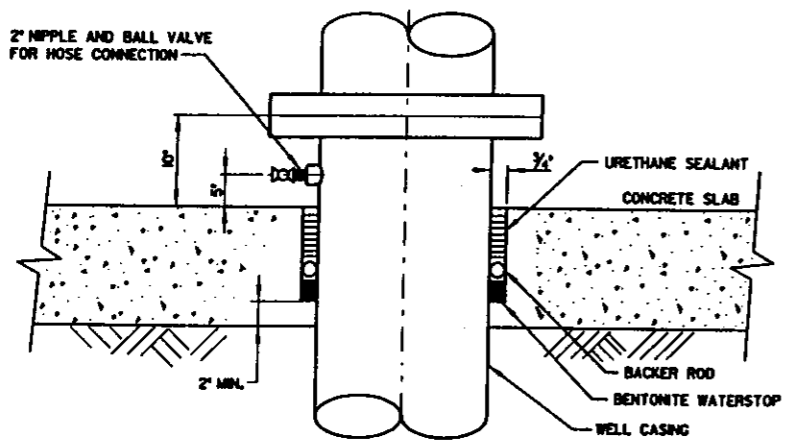
NOTE:
 FOR MAIN PRESSURE OF MORE THAN 150 LBS., FLANGED OUTLET AND ECCENTRIC PLUG VALVE SHOULD SUIT HIGHER PRESSURE.

AIR-VACUUM AND AIR-RELEASE VALVE ASSEMBLY 3' AND SMALLER REV. 09587 **M-804**

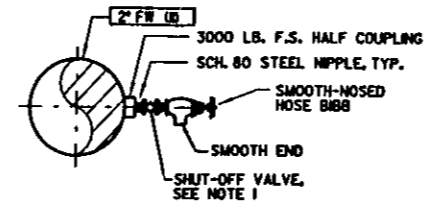


NOTES:
 1. MATERIAL TO BE SEMI-RIGID BUTYRATE OR APPROVED EQUAL, AS MFR'D. BY SETON NAME PLATE CORP., NEW HAVEN, CONN., 06505; W.H. BRADY CO., MILWAUKEE, WIS. 53201 OR EQUAL.
 2. COLORS & LETTER SIZES TO BE PER OSHA STD'S. FOR CAUTION SIGNS.
 3. PROVIDE THIS SIGN AT ALL HOSE BIBB LOCATIONS WHERE WATER IS NON-POTABLE.

WARNING SIGN FOR NON-POTABLE WATER REV. 09587 **M-912**

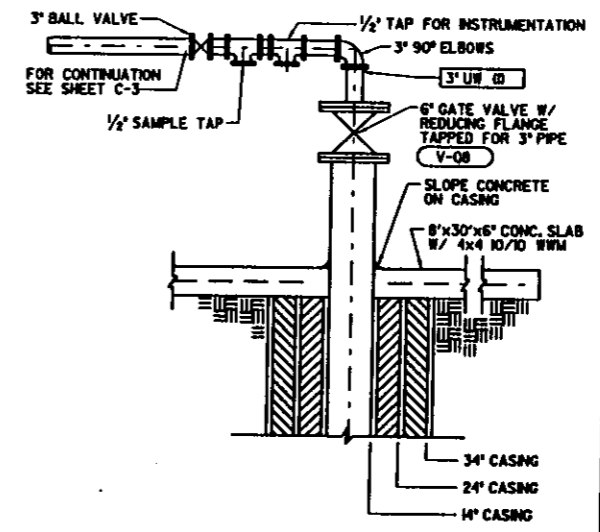


CASING PENETRATION DETAIL **M-1**

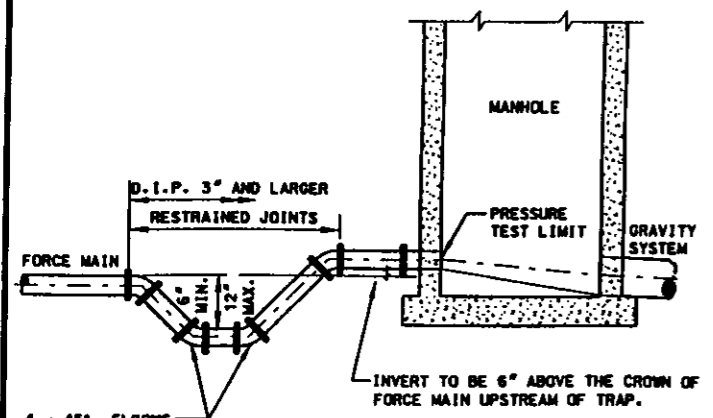


NOTES:
 1. ALL HOSE BIBBS TO BE CONTROLLED BY INDIVIDUAL SHUT-OFF VALVES (BALL OR PLUG VALVES), EXCEPT WHERE INDIVIDUALLY CONTROLLED BRANCH MAIN SERVES HOSE BIBBS ONLY.
 2. FOR SIZE AND LOCATION SEE DRAWINGS.
 3. PROVIDE WARNING SIGN WHEN USED FOR NON-POTABLE WATER
 4. SEE SPECIFICATIONS SECTIONS 15430.

HOSE BIBB **M-1**



FLORIDAN MONITOR WELL SECTION **G-5**



NOTES:
 1. FORCE MAIN TO ENTER MANHOLE AS CLOSE AS POSSIBLE TO 180° TO GRAVITY OUTLET.
 2. THE INVERT LEVEL OF FORCE MAIN AT POINT OF ENTRY SHALL BE 6" ABOVE INVERT OF MANHOLE.
 3. CORE ENTRY ONLY INTO EXISTING MANHOLES.
 4. TRAP TO BE LOCATED PRIOR TO DROP INTO MANHOLE AND OUTSIDE OF PAVED AREAS.
 5. USE TWO 45° ELBOWS PAST TRAP IF ELEVATION DROP AS REQUIRED TO ENTER MANHOLE.
 6. FLOW CHANNEL REQUIRED.
 7. MANHOLE AND FLOW CHANNEL TO BE COATED WITH AN APPROVED CORROSION BARRIER SYSTEM.
 8. USE MEGALUGS OR APPROVED EQUAL TO RESTRAIN TRAP JOINTS.

FORCE MAIN ENTERING MANHOLE **C-2**

VALVE SCHEDULE							
VALVE	LOCATION	TYPE	ENDS	SIZE (INCHES)	OPERATOR	CLOSURE TIME	REMARKS
FCV-1	ASR WELL RECHARGE LINE	HIGH PERFORMANCE BUTTERFLY	FLANGED	10"	MOTOR	60 SEC.	FLOW CONTROL, AC MODULATING
FCV-2	ASR WELL RECOVERY LINE	HIGH PERFORMANCE BUTTERFLY	FLANGED	10"	MOTOR	60 SEC.	FLOW CONTROL, AC MODULATING
FCV-3	ASR WELL RECOVERY LINE	POLYJET SLEEVE VALVE	FLANGED	10"	MOTOR	60 SEC.	FLOW CONTROL, AC MODULATING
V-01	ASR WELL RECHARGE/RECOVERY LINE	AWWA BUTTERFLY	FLANGED	16"	MANUAL	---	BURIED
V-03	ASR WELL CANAL DISCHARGE LINE	RESILIENT SEATED GATE	FLANGED	10"	MANUAL	---	ISOLATION
V-02	ASR WELL RECHARGE/RECOVERY LINE	RESILIENT SEATED GATE	FLANGED	12"	MANUAL	---	ISOLATION
V-04	ASR WELL CANAL DISCHARGE LINE	SWING CHECK VALVE	FLANGED	12"	---	---	---
V-05	ASR WELL RECOVERY LINE	RESILIENT SEATED GATE	FLANGED	12"	MANUAL	---	ISOLATION
V-06	ASR WELL DISCHARGE	RESILIENT SEATED GATE	FLANGED	12"	MANUAL	---	ISOLATION
V-07	ASR WELL DISCHARGE	SWING CHECK VALVE	FLANGED	12"	---	---	---
V-08	FAMW DISCHARGE	GATE VALVE	FLANGED	6"	MANUAL	---	---
V-09	CANAL OUTFALL	DUCKBILL CHECK VALVE	SLEEVED	20"	---	---	---
V-10	ASR WELL RECOVERY/RECHARGE LINE	CUSHIONED SWING CHECK VALVE (OR-DAMPED)	FLANGED	10"	---	---	---
V-11	YARD/RAW WATER MAIN	AWWA BUTTERFLY	FLANGED	24"	MANUAL	---	SURGE BYPASS
V-12	CANAL OUTFALL	DUCKBILL CHECK VALVE	FLANGED	6" I.D.	---	---	EXISTING
V-13	CANAL OUTFALL	DUCKBILL CHECK VALVE	FLANGED	6" I.D.	---	---	---

Job No. 2007.0082 PLE No. 05-MAR-2001 Plot Date: 09:41
 G:\pco\in\hobocou\gh\A.SR\w\m\ec\0402.dgn

REV	DATE	BY	DESCRIPTION
3/7/01	JAZ		OPERATION MODIFICATIONS PER NPDES PERMIT
3/10/01	JAZ		ADDENDUM #1

SCALE: 0 1/2" = 1'
 WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

DESIGNED: J. McMAHON
 DRAWN: J. ZARAGOZA
 CHECKED: G. HART

Kimley-Horn and Associates, Inc.
 443 Embury Road, West Palm Beach, Florida 33407
 Certificate of Authorization Number 698

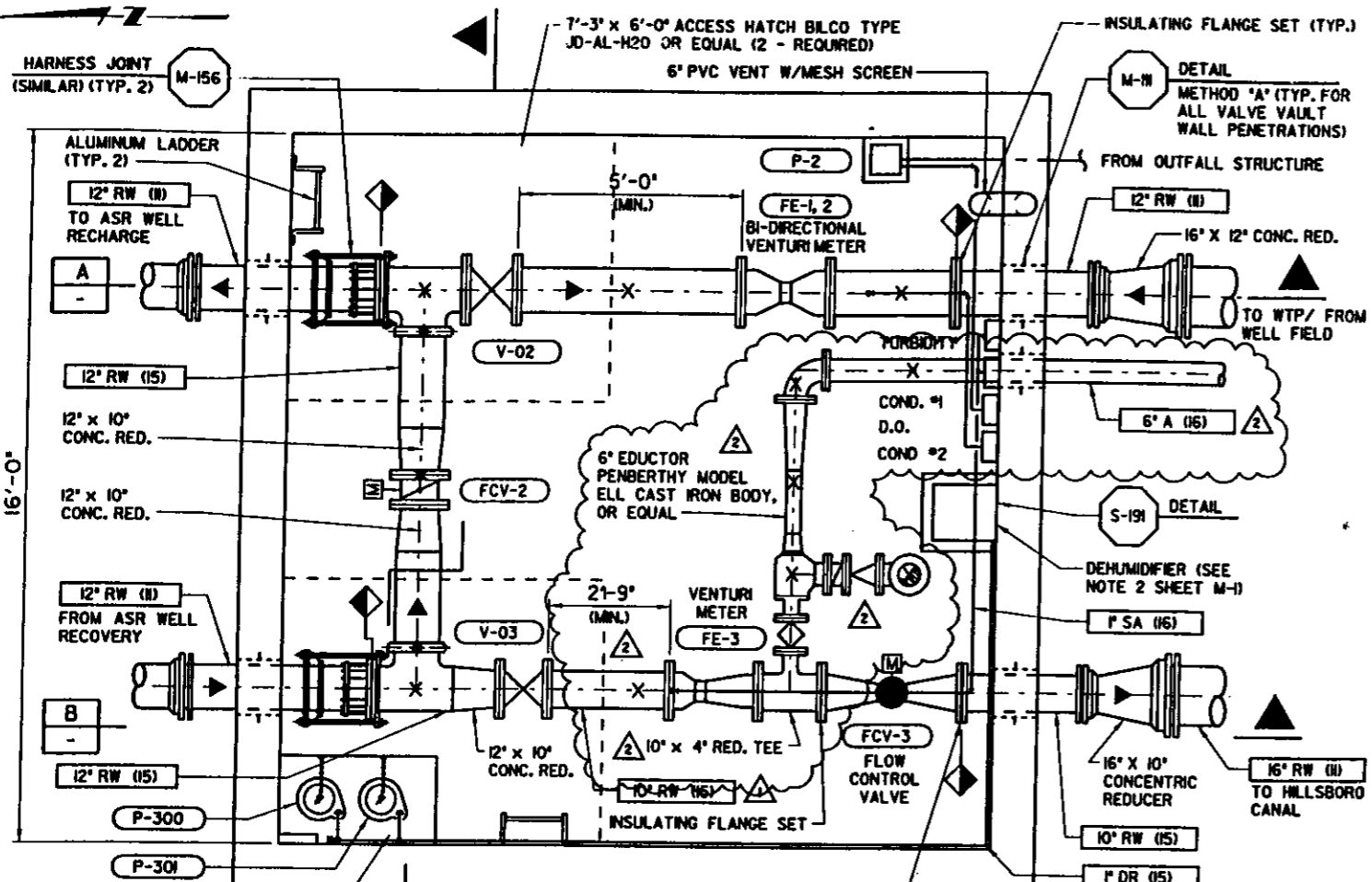
MONTGOMERY WATSON
 490 SAWGRASS CORPORATE PARKWAY SUITE 300 SUNRISE, FLORIDA 33325
 Certificate of Authorization Number 6773

Palm Beach County Water Utilities Department

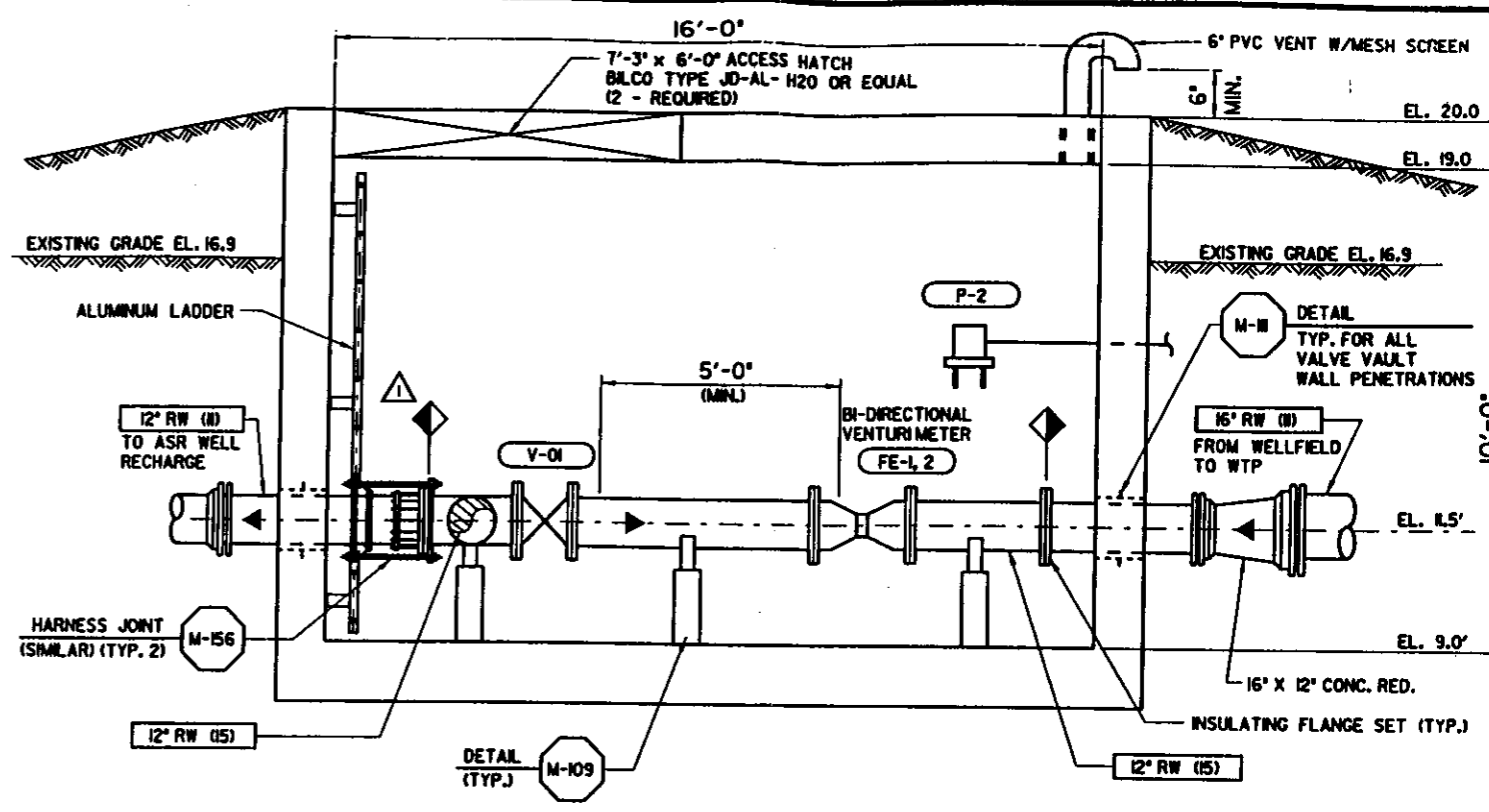
PALM BEACH COUNTY HILLSBORO ASR WELL

DETAILS AND VALVE SCHEDULE

SHEET **GM-2**

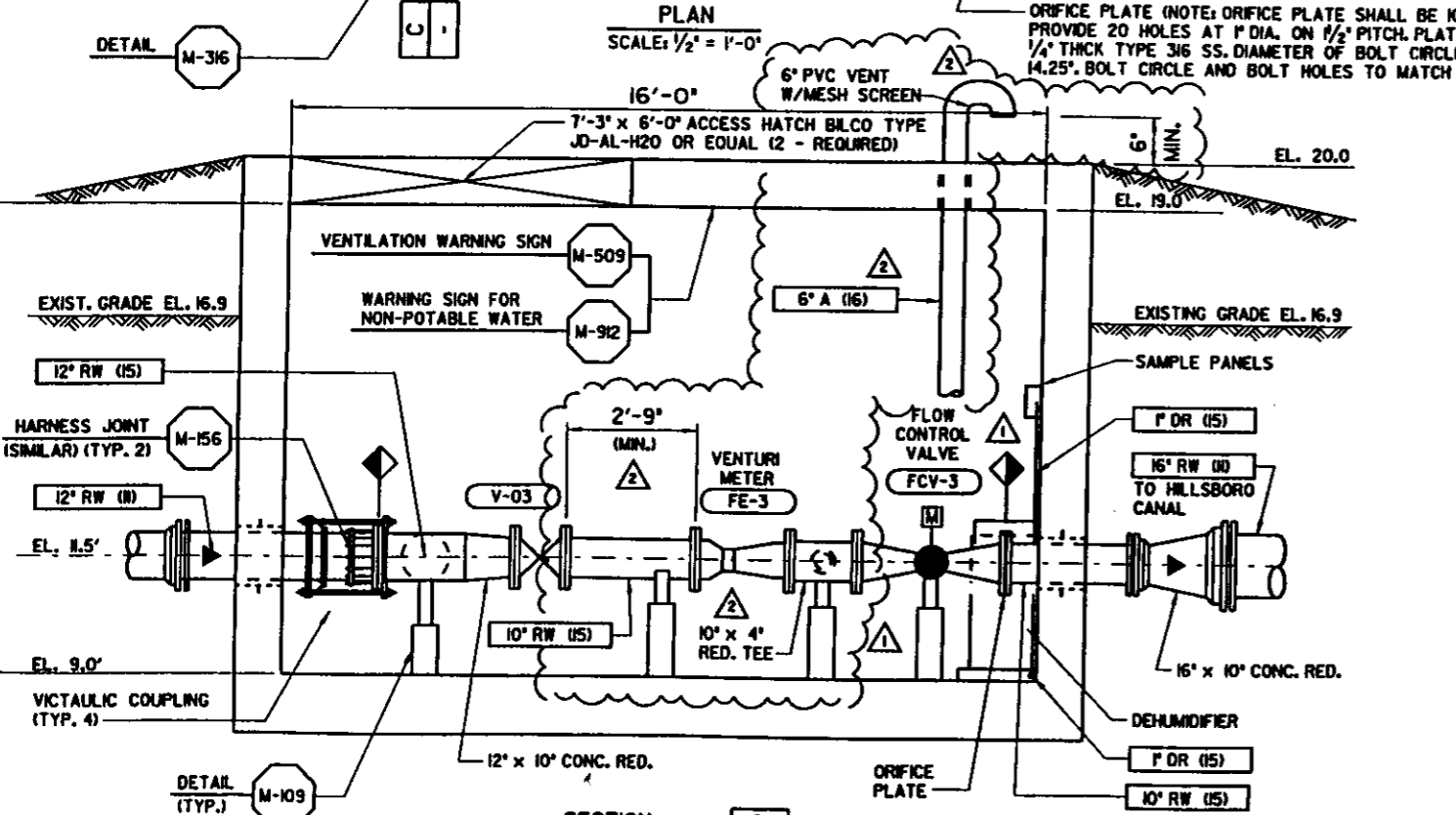


PLAN
SCALE: 1/2" = 1'-0"

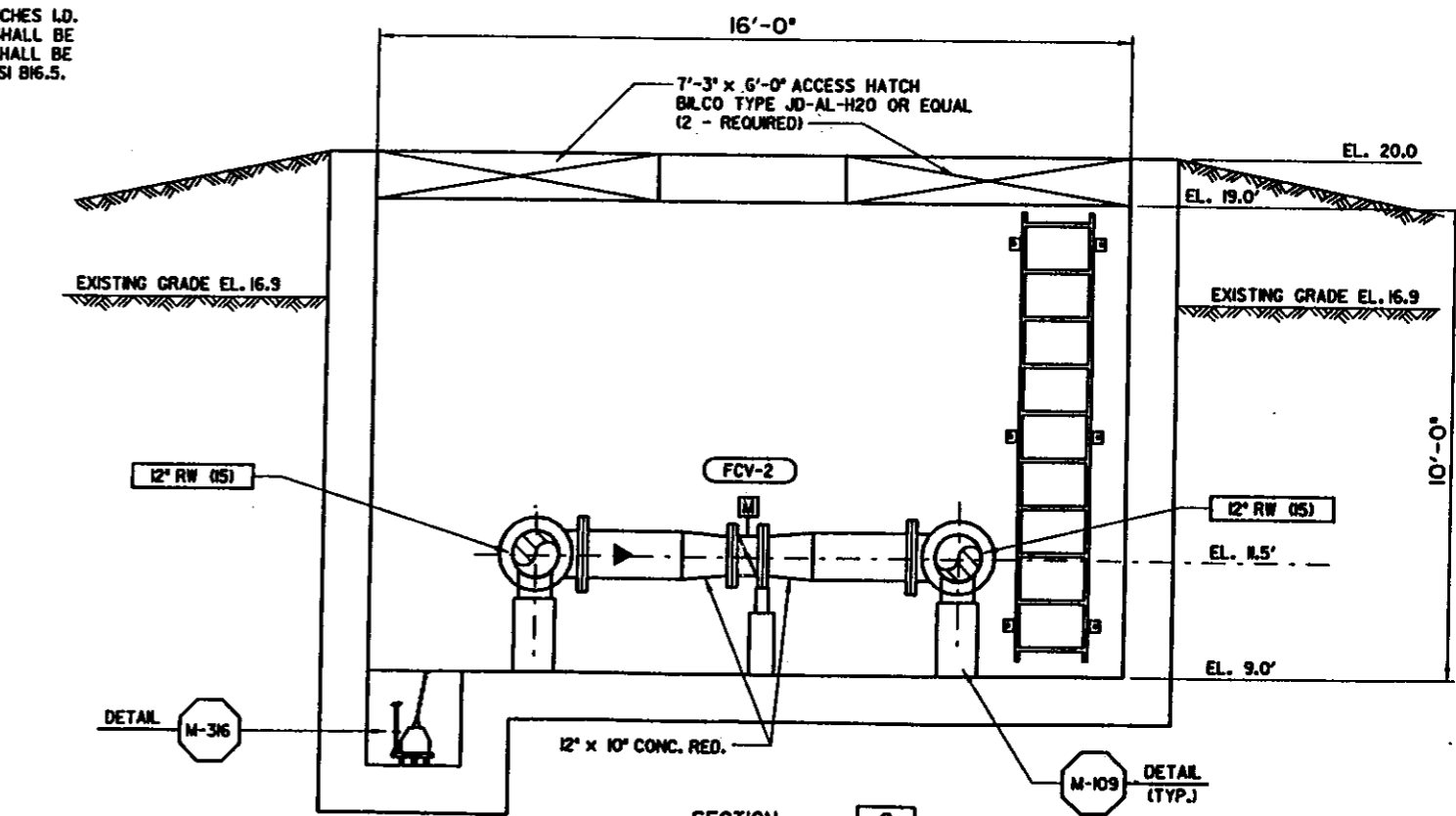


SECTION A
SCALE: 1/2" = 1'-0"

NOTE:
1. PROVIDE INSULATED SLEEVE AND WASHERS FOR HARNESS RODS.



SECTION B
SCALE: 1/2" = 1'-0"



SECTION C
SCALE: 1/2" = 1'-0"

JOB No. 3007.0082
 LE No. 01-PROJ\Hillsboro\ASRwell.mec\m02.dgn
 Prof. Date: 03-MAR-2004
 09:19

REV	DATE	BY	DESCRIPTION
1	5/7/04	JAZ	ADDITIONAL MODIFICATIONS PER NPDES PERMIT
2	11/10/04	JAZ	ADDITIONAL MODIFICATIONS PER NPDES PERMIT

SCALE:	1/2" = 1'-0"
WARNING:	IF THIS BAR DOES NOT MEASURE THEN DRAWING IS NOT TO SCALE.

DESIGNED:	J. McMahon
DRAWN:	J. ZARAGOZA
CHECKED:	G. HART

Kimley-Horn and Associates, Inc.
 443 Embury Road, West Palm Beach, Florida 33407
 Certificate of Authorization Number 696

MONTGOMERY WATSON
 490 SAWGRASS CORPORATE PARKWAY
 SUITE 300 SUNRISE, FLORIDA 33325
 Certificate of Authorization Number 6773

Palm Beach County Water Utilities Department

PALM BEACH COUNTY		SHEET
HILLSBORO ASR WELL		
VENTURI METER AND CONTROL VALVE VAULT		M-2

ATTACHMENT 3

PERMITTING

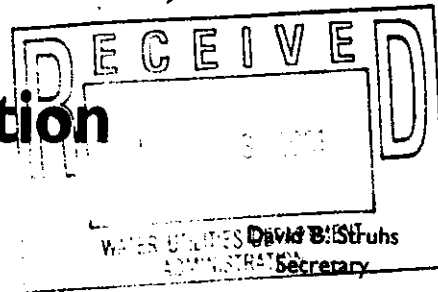
- 3-a. FDEP UIC Class V Well Construction
- 3-d. Surface Water Discharge
- 3-e1.a SFWMD Right-of-Way
 - b. Modifications to SFWMD Right-of-Way
 - c. Extension of SFWMD Right-of-Way
- 3-e2.a Health Department Wellheads 9W-17 to 9W-25
 - b Health Department ASR Wellhead
 - c SFWMD Well Construction
- 3-e3 Water Use Permit 50-00135-W
- 3-e4 Raw Water Transmission Main



Jeb Bush
Governor

Department of Environmental Protection

CC: LARRY, STEVE M.



also copy to:
Joni L.
Nector R.
Vincent M.

Southeast District
P.O. Box 15425
West Palm Beach, Florida 33416

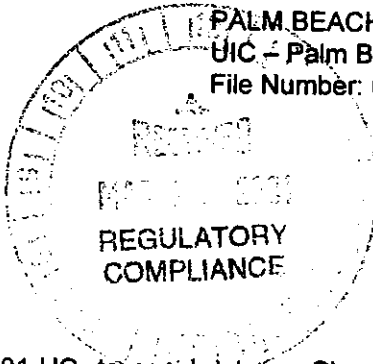
MAR 22 2001

NOTICE OF PERMIT

SK 3/30/2001

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Gary D. Dernlan, P.E.,
Director of Utilities
Palm Beach County Water Utilities Department
2065 Prairie Road
West Palm Beach, Fl. 33406



Dear Mr. Dernlan:

Enclosed is Permit Number 0172069-001-UC, to construct one Class V Group 7 24-inch (OD) Aquifer Storage and Recovery Well, ASR-1; issued pursuant to Section(s) 403.087, Florida Statutes and Florida Administrative Codes 62-4, 62-520, 62-528, 62-550, 62-522, 62-600, 62-601 & 62-660.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, Mail Stop 35, 3900 Commonwealth Blvd., Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within thirty (30) days from the date this Notice is filed with the Clerk of the Department.

Should you have any questions, please contact Joe May, P.G. or Daniel C. Phelps, P.G., of this office, telephone (561) 681-6691 or (561) 681-6778, respectively.

Executed in West Palm Beach, Florida.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Melissa L. Meeker
Melissa L. Meeker
Director of District Management
Southeast District
3/22/01
Date

MLM/LAH/JRM/DCP

Cc: Pyara Wilkhu, FDEP/SED Richard Deuerling, FDEP/Tal.
Steve Anderson, SFWMD Tom Lefevre, PBCHU
David Goldman, Kimberly-Horn and Associates, Inc,

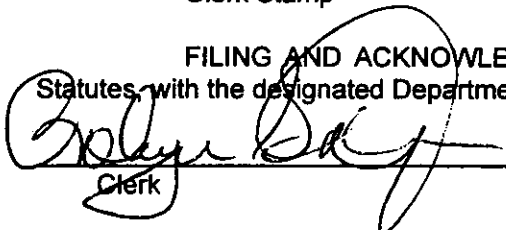
Ron Reese, USGS/Mia.
Nancy Marsh USEPA/Atl.

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on MAR 22 2001 the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to the §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.


Clerk

MAR 22 2001

Date



Department of Environmental Protection

Jeb Bush
Governor

Southeast District
P.O. Box 15425
West Palm Beach, Florida 33416

David B. Struhs
Secretary

PERMITTEE:

Mr. Gary D. Dernlan, P.E.,
Director of Utilities
Palm Beach County Water Utilities Department
2065 Prairie Road
West Palm Beach, Fl. 33406

PERMIT/CERTIFICATION NO: 0172069-001-UC
DATE OF ISSUE: 2 2001
EXPIRATION DATE: 1 2003
COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N
PROJECT: The Eastern Hillsboro Canal
Class V Aquifer Storage and Recovery Well ASR-1

This permit is issued under the provisions of Chapter 403.087, Florida Statutes (FS), and Florida Administrative Code (FAC) Rules 62-3, 62-4, 62-520, 62-528 and 62-550. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

TO CONSTRUCT: A Class V Group 7 24-inch (OD) Aquifer Storage and Recovery Well, ASR-1, with casing extending to a depth of approximately 1,080 feet below land surface (bls) and the borehole extending to a depth of approximately 1,200 feet (bls) and a 6 5/8-inch (OD) Floridan Aquifer monitor well, with casing extending to a depth of approximately 1,080 feet below land surface and the borehole extending to a depth of approximately 1,650 feet the lower portions of which after testing are intended to be cemented back to approximately 1,200 feet. Final depths will be determined during construction and field testing. The proposed injection fluid is raw water from the surficial aquifer. Injection and recovery flow rates are expected to be approximately 5 million gallons per day (gpd). No injection testing with "raw water" will be allowed until the applicant has been granted a Water Quality Criteria Exemption which allows the injection of such waters.

IN ACCORDANCE WITH: Application to Construct a Class V Group 7 Aquifer Storage and Recovery System received July 11, 2000, Request for Information (RFI) dated July 13, 2000, Response to RFI received July 17, 2000, Request for Information (RFI) dated August 15, 2000, RFI response received September 18, 2000, Request for Information (RFI) dated October 13, 2000, RFI responses received October 16 and 24, 2000, public notice of the Draft Permit published in the Palm Beach Post newspaper on December 22, 2000, consideration of public comment received as a result of the public meeting held on February 5, 2001 at 2:00 pm., and public notice of the Intent to Issue Permit published in the Palm Beach Post newspaper on March 2, 2001.

LOCATED AT: 22438 Southwest 7th Street Boca Raton, Florida.

TO SERVE: To provide raw water feed to the Palm Beach County Plant 9 Membrane Softening Water Treatment Plant

SUBJECT TO: General Conditions 1-24 and Specific Conditions 1-10.

PERMITTEE:

Mr. Gary D. Demian, P.E.,
Director of Utilities
Palm Beach County Water Utilities Department
PROJECT: The Eastern Hillsboro Canal
Class V Aquifer Storage and Recovery

PERMIT/CERTIFICATION NO: 0172069-001-UC
DATE OF ISSUE: MAR 12 2001
EXPIRATION DATE: 1 2003
COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N

GENERAL CONDITIONS:

The following General Conditions are referenced in Florida Administrative Code Rule 62-528.307.

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are "permit conditions" and are binding and enforceable pursuant to Section 403.141, F.S.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action.
3. As provided in Subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land, water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefrom; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, or are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - a. Have access to and copy any records that must be kept under conditions of this permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time will depend on the nature of the concern being investigated.

PERMITTEE:

Mr. Gary D. Demlan, P.E.,
Director of Utilities
Palm Beach County Water Utilities Department
PROJECT: The Eastern Hillsboro Canal
Class V Aquifer Storage and Recovery

PERMIT/CERTIFICATION NO: 0172069-001-UC
DATE OF ISSUE: May 2 2003
EXPIRATION DATE: May 1 2003
COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N

GENERAL CONDITIONS:

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. A description of and cause of noncompliance; and
 - b. The period of noncompliance, including dates and times; or, if not corrected the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent the recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-528.350, F.A.C. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. The permittee shall comply with the following;
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records shall be extended automatically unless the Department determines that the records are no longer required.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - c. Records of monitoring information shall include:
 - 1) the date, exact place, and time of sampling or measurements;
 - 2) the person responsible for performing the sampling or measurements;
 - 3) the dates analyses were performed;
 - 4) the person responsible for performing the analyses;
 - 5) the analytical techniques or methods used;

PERMITTEE:

Mr. Gary D. Dermlan, P.E.,
Director of Utilities
Palm Beach County Water Utilities Department
PROJECT: The Eastern Hillsboro Canal
Class V Aquifer Storage and Recovery

PERMIT/CERTIFICATION NO: 0172069-001-UC
DATE OF ISSUE: MAR 2 2003
EXPIRATION DATE: MAR 1 2003
COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N

GENERAL CONDITIONS:

- 6) the results of such analyses.
- d. The permittee shall furnish to the Department, within the time requested in writing, any information which the Department requests to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
- e. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.
14. All applications, reports, or information required by the Department shall be certified as being true, accurate, and complete.
15. Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each scheduled date.
16. Any permit noncompliance constitutes a violation of the Safe Drinking Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
17. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
18. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.
19. This permit may be modified, revoked and reissued, or terminated for cause, as provided in 40 C.F.R. Sections 144.39(a), 144.40(a), and 144.41 (1998). The filing of a request by the permittee for a permit modification, revocation or reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
20. The permittee shall retain all records of all monitoring information concerning the nature and composition of injected fluid until five years after completion of any plugging and abandonment procedures specified under Rule 62-528.435, F.A.C. The permittee shall deliver the records to the Department office that issued the permit at the conclusion of the retention period unless the permittee elects to continue retention of the records.
21. All reports and other submittals required to comply with this permit shall be signed by a person authorized under Rules 62-528.340(1) or (2), F.A.C. All reports shall contain the certification required in Rule 62-528.340(4), F.A.C.
22. The permittee shall notify the Department as soon as possible of any planned physical alterations or additions to the permitted facility. In addition, prior approval is required for activities described in Rule 62-528.410(1)(h).
23. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or injection activity which may result in noncompliance with permit requirements.

PERMITTEE:

Mr. Gary D. Demian, P.E.,
Director of Utilities
Palm Beach County Water Utilities Department
PROJECT: The Eastern Hillsboro Canal
Class V Aquifer Storage and Recovery

PERMIT/CERTIFICATION NO: 0172069-001-UC
DATE OF ISSUE: MAR 2 2003
EXPIRATION DATE: 1 2003
COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N

GENERAL CONDITIONS:

24. The permittee shall report any noncompliance which may endanger health or the environment including:
- a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water; or
 - b. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

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PERMITTEE:

Mr. Gary D. Demlan, P.E.,
Director of Utilities
Palm Beach County Water Utilities Department
PROJECT: The Eastern Hillsboro Canal
Class V Aquifer Storage and Recovery

PERMIT/CERTIFICATION NO: 0172069-001-UC
DATE OF ISSUE: MAR 2 2001
EXPIRATION DATE: MAR 1 2003
COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N

SPECIFIC CONDITIONS:

1. General Requirements

- a. The permittee shall be subject to all requirements and regulations of Palm Beach County and the South Florida Water Management District regarding the construction, testing and operation of this ASR Well System.
- b. Hurricane Preparedness - Upon the issuance of a "Hurricane Watch" by the National Weather Service, the preparations to be made include but are not limited to the following:
 - 1) Secure all on-site salt, chemicals, and other stockpiled additive materials to prevent surface and/or groundwater contamination.
 - 2) Properly secure drilling equipment and rig(s) to prevent damage to well(s) and any on-site treatment process equipment as well as public property.
- c. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures.

2. Quality Assurance/Quality Control Requirements

- a. Pursuant to Rule 62-528.440(5)(b), F.A.C., the Professional Engineer(s) of Record shall certify all documents related to the completion of the ASR well system as an ASR facility. The Department shall be notified immediately of any change of the Engineer(s) of Record.
- b. In accordance with Section 492, Florida Statutes, all documents prepared for the geological/hydrogeological evaluation of the ASR well system shall be signed and sealed by a Florida Licensed Professional Geologist or qualified Florida Licensed Professional Engineer.
- c. Continuous on-site supervision by qualified personnel (engineer and/or geologist) is required during all geophysical logging operations, coring, packer testing, casing installation and cementing operations.

3. Construction and Testing Requirements

- a. The measurement points for drilling and logging operations shall be surveyed and referenced to the National Geodetic Vertical Datum (NGVD) of 1983 prior to the onset of drilling activities for Aquifer Storage and Recovery well system (ASR-1) and its Floridan aquifer monitor well (FAMW-1).
- b. No drilling operations shall begin without an approved disposal site for drilling fluids, cuttings, or waste. It shall be the permittee's responsibility to obtain the necessary approval(s) for disposal prior to the start of construction.
- c. The Department shall be notified within forty-eight (48) hours after work has commenced.

PERMITTEE:

Mr. Gary D. Dernlan, P.E.,
Director of Utilities
Palm Beach County Water Utilities Department
PROJECT: The Eastern Hillsboro Canal
Class V Aquifer Storage and Recovery

PERMIT/CERTIFICATION NO: 0172069-001-UC
DATE OF ISSUE: MAR 2 2003
EXPIRATION DATE: 2003
COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N

SPECIFIC CONDITIONS:

- d. Six (6) permanent surficial aquifer wells identified as Pad Monitor Wells (PMWs) shall be located on the south, east, and west sides of the ASR and FAMW well drilling pads respectively. Each PMW shall be identified by PMW number, drilling pad and the PMW's location respective to the drilling pad it monitors.
- 1) These monitor wells shall be sampled and analyzed prior to the onset of drilling for chlorides (mg/L), temperature adjusted specific conductance (umho/cm), total dissolved solids (TDS, mg/L) and water level (relative to NGVD). Initial analyses must be submitted prior to the initiation of work on the Class I injection well.
 - 2) These monitor wells are to be retained in service, sampled weekly for the above parameters during the construction and operational testing phases and quarterly once an operation permit is granted. A summary sheet from the FDEP Southeast District is attached for your use when reporting the above information.
 - 3) If located in a traffic area the well heads must be protected by a traffic bearing enclosure and cover. Individual covers must be specifically marked to identify the well and its purpose. A copy of the FDEP Southeast District Summary Sheet is attached for your use when reporting the above information.
 - 4) These monitor wells shall be sampled forty-eight (48) hours prior to any maintenance, testing (including mechanical integrity testing) or repairs to the system which represent an increased potential for accidental discharge to the surficial aquifer. The results of these analyses shall be submitted to the Department within thirty (30) days of the completion of the activity.
- e. Waters spilled during construction, modification or testing of the Aquifer Storage and Recovery well system (ASR-1) and its Floridan aquifer monitor well (FAMW-1) shall be contained and properly disposed.
- f. Department approval and UIC-TAC review is required prior to the following stages of construction:
- 1) Contract documents and spud dates
 - 2) Selection of the Floridan aquifer monitor well (FAMW-1) and ASR-1 well final casing seats
 - 3) Selection of the Floridan aquifer monitor well (FAMW-1) monitoring interval
 - 4) Selection of the ASR-1 well's injection interval
 - 5) Plugging back pilot hole in the Floridan aquifer monitor well (FAMW-1) to the base of storage zone
 - 6) Method(s) of flow control during recharge of the ASR well system during operation and operational testing
- g. Blow-out preventers shall be installed on the wells prior to penetration of the Floridan Aquifer.
- h. The Department shall be notified within 48 hours after work has commenced.
- i. The geophysical logging program, during drilling of the Floridan Aquifer Monitor Well (FAMW-1), to determine the final casing depth shall include the following logs to be run on the open borehole through the Hawthorn Group to approximately 1080 feet below land surface (bls): caliper, natural gamma ray, spontaneous potential and dual induction. These logs shall be interpreted for stratigraphic correlation, identification of the top and base of the Hawthorn Group confining unit, and to establish a mechanically secure casing setting depth.

PERMITTEE:

**Mr. Gary D. Demlan, P.E.,
Director of Utilities
Palm Beach County Water Utilities Department
PROJECT: The Eastern Hillsboro Canal
Class V Aquifer Storage and Recovery**

**PERMIT/CERTIFICATION NO: 0172069-001-UC
DATE OF ISSUE: 2 2003
EXPIRATION DATE: 2003
COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N**

SPECIFIC CONDITIONS;

- j. All casing seat requests shall be accompanied by technical justification, including but not limited to, geophysical logs with interpretations, and water quality data.
- k. The submittal for the request for approval to plug back the pilot hole to modify the monitoring zone in FAMW-1 and thus delineate the intended injection zone in ASR-1, shall include:
 - 1) withdrawal test data and interpretations
 - 2) water quality reports
 - 3) geophysical log interpretations including flow analysis
 - 4) identification of storage zone boundaries and characteristics
 - 5) demonstration of confinement and evaluation of potential for upconing of poorer quality water
- l. The geophysical logging program, during drilling of the ASR well, shall at a minimum, include:
 - 1) Pilot hole to approximately 220 feet below land surface (bls):
 - Caliper
 - Natural gamma
 - Spontaneous potential
 - Long and short normal electric
 - 2) Reamed hole to approximately 200 feet bls:
 - Caliper
 - 3) Cased hole to approximately 200 feet bls:
 - Gamma ray log, if needed
 - 4) Pilot hole to the top of the Floridan Aquifer at approximately 1,080 feet bls:
 - Caliper
 - Natural gamma
 - Spontaneous potential
 - Dual induction
 - Borehole compensated sonic with VDL display. (Upon review of the geophysical data obtained from the Floridan Aquifer Monitor Well the permittee may request Department approval to delete this log.)
 - 5) Reamed hole to the top of the Floridan Aquifer at approximately 1,080 feet bls:
 - Caliper
 - 6) Cased hole to the top of the Floridan Aquifer at approximately 1080 feet bls:
 - Cement bond log
 - Casing pressure test (for assurance of mechanical integrity)
 - 7) 12.25-inch open hole below the final casing to approximately 1200 feet bls:
 - Caliper
 - Natural gamma
 - Dual induction
 - Spontaneous potential
 - Borehole compensated sonic with VDL display
 - Temperature (shut-in and while pumping)
 - Electric (long and short normal)
 - Digital borehole televiewer
 - Video
 - Flowmeter (static and dynamic)
 - Fluid resistivity (static and dynamic)

PERMITTEE:

Mr. Gary D. Demlan, P.E.,
Director of Utilities
Palm Beach County Water Utilities Department
PROJECT: The Eastern Hillsboro Canal
Class V Aquifer Storage and Recovery

PERMIT/CERTIFICATION NO: 0172069-001-UC
DATE OF ISSUE: 2/2003
EXPIRATION DATE: 2003
COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N

SPECIFIC CONDITIONS:

- 8) Completed well
 - Caliper
 - Fluid Resistivity ((static and dynamic)
 - Flowmeter (under flowing conditions)
 - Video
 - Temperature
- 9) Temperature logs shall be run after all cement stages that are completed without positive return at the surface in order to identify the top of the cement.
- m. Packer and/or interval testing and interpretation in the storage zone shall be performed to determine water quality characteristics (chloride, TDS conductivity, temperature and pH) and to provide a better definition of the quantitative characteristics (permeability values) of the zone. **Data obtained from the testing of the ASR well will be used to define water quality characteristics for the site.** A five (5) gallon sample of formation fluid shall be collected at the end of the all packer and/or interval tests for which a background sample unaffected by injection can be obtained and has not already been acquired. Samples should be labeled as to well number, depth, type of sample and shipped to Dr. James Cowart, Department of Geology, Florida State University, Tallahassee, FL 32304.
- o. Pressure gages and flow meters shall be installed on the ASR well prior to initiating ASR activities at the site.
- p. No drilling operations shall begin without an approved disposal site for drilling fluids, cuttings, or waste. It shall be the permittee's responsibility to obtain the necessary approval(s) for disposal prior to the start of construction.
- q. TAC meetings are scheduled on the 2nd and 4th Tuesday of each month subject to a five working day prior notice and timely receipt of critical data by all TAC members. Emergency meetings may be arranged when justified, to avoid undue construction delays.

4. Reporting Requirements

- a. All reports and surveys required by this permit shall be submitted concurrently to all the members of the Technical Advisory Committee (TAC). The TAC shall consist of representatives from these agencies:
 - Department of Environmental Protection, West Palm Beach and Tallahassee
 - United States Environmental Protection Agency, Region IV, Atlanta
 - United States Geological Survey, Miami
 - South Florida Water Management District, West Palm Beach
 - Palm Beach County Health Department
- b. The Department and other applicable agencies must be notified immediately of any unusual events occurring during construction activities (e.g. on-site spills, artesian flows, large volumes of circulation losses, etc.). A written report describing the incident shall also be given to the Department within 72 hours of the start of the event. In addition, a final written report shall be sent to the Department within two weeks of the event. The final report shall contain a complete description of the occurrence, discuss its cause(s) and the steps being taken to reduce, eliminate, and prevent recurrence of the event and all other information deemed necessary by the Department.
- c. A drilling and construction schedule shall be submitted to the Department and TAC prior to site preparation for construction of the ASR well system.

PERMITTEE:

Mr. Gary D. Demlan, P.E.,
Director of Utilities
Palm Beach County Water Utilities Department
PROJECT: The Eastern Hillsboro Canal
Class V Aquifer Storage and Recovery

PERMIT/CERTIFICATION NO: 0172069-001-UC
DATE OF ISSUE: ~~March 2 2001~~
EXPIRATION DATE: ~~March 1 2003~~
COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N

SPECIFIC CONDITIONS:

- d. Weekly progress reports shall be submitted throughout the construction and cycle testing periods, and shall include at a minimum the following information:
 - 1) A cover letter summary of the daily engineer report, driller's log and a projection for activities in the next reporting period.
 - 3) Daily engineers report and driller's log with detailed descriptions of all drilling progress, cementing, testing, logging, and casing installation activities.
 - 4) Lithologic and geophysical logs, hydrogeologic/specific capacity results, and water quality test results.
 - 5) Well development records.
 - 6) Interpretations included with all test results, logs and well development activities submitted under Items 2), 3) and 4) above.
 - 7) Detailed description of any unusual construction-related events that occur during the reporting period.
 - 8) Weekly water quality analysis and water levels for the pad monitor wells for each of the individual well pads, ASR and FAMW respectively, immediately before, during, and immediately subsequent to activities occurring on those individual pads which might constitute a risk of discharge to the ground surface.
 - 9) Current status and progress of cycle testing
- e. Per Rules 62-528.420(4)(c) and 62-528.605(2), F.A.C., the final selection of a casing seat for the final casings of Monitor Well FAMW-1 and ASR-1, the specific monitoring interval (zone) for FAMW-1 and the injection interval for ASR-1 must be approved by the Department. In order to obtain these approvals, the permittee shall submit request(s) to the Department. The request(s) shall be submitted concurrently to all members of the UIC-TAC and the USEPA, Region IV, Atlanta. These requests submitted in accordance with S.C. 3.f.2), 3), 4), and 5) shall be accompanied by technical justification.
 - 1) To the extent appropriate, the casing seat requests should address the following items:
 - a) Lithologic and geophysical logs with interpretations, as the interpretations relate to the casing seat.
 - b) Water quality data.
 - c) Identification of confining unit(s), including hydrogeologic data and interpretations.
 - d) Identification of monitoring zone.
 - e) Casing depth evaluation (mechanically secure formation, potential for grout seal).
 - 2) The monitoring interval and injection interval requests for the Aquifer Monitor Well FAMW-1, and ASR-1 submitted in accordance with S.C.3.f. 3) and 4), shall contain the following:
 - a) Identification of confining unit(s).
 - b) Water quality of proposed zone.
 - c) Transmissivity or specific capacity of proposed zone.
- f. An interpretation of all test results and geophysical logs must be provided with all submittals.

PERMITTEE:

Mr. Gary D. Demlan, P.E.,
Director of Utilities
Palm Beach County Water Utilities Department
PROJECT: The Eastern Hillsboro Canal
Class V Aquifer Storage and Recovery

PERMIT/CERTIFICATION NO: 0172069-001-UC
DATE OF ISSUE: 02/28/2003
EXPIRATION DATE: 2003
COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N

SPECIFIC CONDITIONS:

- g. Upon completion of analysis of cores and sample cuttings, the permittee shall contact the Underground Injection Control Section of the Department of Environmental Protection in Tallahassee to arrange their transfer to the Florida State Geologic Survey.
- h. Upon completion of construction and the cycle testing phase of operational testing, a final report shall be submitted to the Department the UIC-TAC and EPA. The report shall include, but not be limited to, all information and data collected under Rules 62-528.605, 62-528.615, and 62-528.635, FAC, with appropriate interpretations. To the extent possible, the report should include:
 - 1) The transmissivity test data for the storage zone, with evaluation.
 - 2) Evaluation of the maximum ASR capacity within safe pressure limits
 - 3) Detailed results and analysis of cycle testing
 - 4) Operation and maintenance manual
 - 5) Record (as-built) drawings, of the ASR well, surface equipment, instrumentation and appurtenances, sealed by the Engineer of Record
 - 6) Summary of all water quality, water level and well performance data collected, with conclusions and recommendations
 - 7) Well locations surveyed relative to permanent reference points by a Florida registered land surveyor, and located on a site plan by latitude and longitude.
 - 8) Factory (mill) certificates for all casing pipe.
 - 9) Evaluation of confinement and potential for upconing of poorer quality water.
- i. In the event the ASR-1 well must be plugged and abandoned, the permittee shall obtain an FDEP permit, as required by Rule 62-528.645, FAC., see S.C. 8 below.
- j. An interpretation of all test results must be submitted with all submittals.

5. Operational Testing Requirements

- a. Operational testing shall not commence without written authorization from the Department. No injection testing with "raw water" will be allowed until the applicant has been granted a Water Quality Criteria Exemption which allows the injection of such waters.
- b. Prior to operational testing, the permittee shall comply with the requirements of Rule 62-528.450(3)(a),(b), and (c), F.A.C.
- c. Prior to operational testing approval, the following items must be submitted (with the request for operational testing approval) for Department approval and UIC-TAC and EPA review:
 - 1) Draft operation and maintenance manual (revised to address changes associated with injectate source), including a description of water hammer control.
 - 2) Lithologic and geophysical logs, hydrogeologic/specific capacity results, and water quality test results for Floridan Aquifer Monitor Well FAMW-1 and Surficial Monitor Well (9W-0069) with interpretations.
 - 3) Planned injection and recovery flow rates, based on data collected during the construction and testing phases.

PERMITTEE:

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Class V Aquifer Storage and Recovery

PERMIT/CERTIFICATION NO: 0172069-001-UC
DATE OF ISSUE: MAR 7 2003
EXPIRATION DATE: MAR 21 2003
COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N

SPECIFIC CONDITIONS:

- 4) Detailed cycle testing plan including the number of cycles, duration of cycles and total volumes injected and recovered [may be referenced to previous submission if no changes].
- 5) Results of the short term injection test with interpretation of the data. The ASR well shall first be tested for integrity of construction followed by a short term injection test of the ASR well of such duration as to allow for the prediction of operating pressure. The test results shall include a calculation or determination of fracture pressure of the injection formation [per Rule 62-528.410(6)(b)3., F.A.C.]. The injection test shall be conducted for a minimum of twenty-four (24) hours at a rate no less than the maximum rate at which the well is to be permitted. Pressure/water level data from the injection zone and both monitor zones shall be recorded continuously for at least twenty-four (24) hours before the test and at least twelve (12) hours following the test. The following data shall be recorded, analyzed, and reported for the duration of the injection test, i.e., all data should encompass the entire background, injection and recovery periods:
 - a) injection flow rate (Well ASR-1, in MGD)
 - b) injection pressure (Well ASR-1, in psig)
 - c) injection zone pressure with no flow (shut-in pressure in psig)
 - d) monitor well pressure (FAMW-1) and Surficial Monitor Well (9W-0069)
 - e) barometric pressure
- 6) A description of the actual injection procedure including the anticipated maximum pressure and flow rates (injection and recovery) at which the well will be operated.
- 7) Background water quality results from the monitor zones of Floridan Aquifer Monitor Well FAMW-1 and Surficial Monitor Well (9W-0069) for primary and secondary drinking water standards (62-550, F.A.C.) and minimum criteria parameters (62-520, F.A.C.), as attached.
- 8) Water quality results of the injectate, sampled within six months of submission of the request for operational testing, for primary, and secondary standards and minimum criteria, as attached; and in addition, dissolved oxygen and total trihalomethanes.
- 9) Certification of completion of well construction for Floridan Aquifer Monitor Well FAMW-1.
- 10) Surface equipment (including piping, pressure gauges and flow meters, and all appurtenances) completion certified by the Engineer of Record, or certification of interim completion for the purposes of testing.
- 11) Signed and sealed record (as-built) engineering drawings of all well construction, subsurface and surface equipment (including FAMW-1), and appurtenances.
- 12) Calibration certificates for all pressure gauges and flow meters.
- 13) Other data obtained during well construction needed by the Department to evaluate whether the well will operate in compliance with Department Rules. [Rules 62-528.450(3)(a)3.i. and 62-528.605(2), F.A.C.]
- 14) Information pertaining to the sampling pump and associated tubing, installed to collect samples for analysis of microbial parameters, as approved by the PBCHD, including:
 - a) As-built drawing(s) of the sampling pump and associated tubing,

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SPECIFIC CONDITIONS:

- b) Evaluation – based on the as-built information – of the minimum transit time for fluid to travel from the bottom of the sample tube to the ASR well sampling point (at land surface), and
 - c) Comparison of the minimum sampling tube transit time to the minimum transit time for water to travel from the bottom of the sample tube to the bottom of the ASR well's final casing. This comparison may be analogous to that submitted prior to permit issuance, but shall incorporate the as-built information as well as updated flow rate information from the injection test.
 - d) Methodology for measuring sampling tube flow rate.
- d. Prior to operational testing approval, Department or Department delegated local program potable water construction permits must be issued, and construction must be completed and certified by the Engineer of Record, for all surface piping and appurtenances upstream of the ASR well-head, including, if determined appropriate, the piping and appurtenances associated with the fluid to be injected. Bacteriological clearances must be performed prior to operational testing of the ASR well system.
 - e. Pressure gauges and flow meters must be installed on the ASR well prior to initiating ASR activities at the site.
 - f. Prior to the authorization of operational testing by the Department, the County will contact the Underground Injection Control Section of the Department, Southeast District, to arrange a site inspection. The inspection will determine if all equipment necessary to operate and monitor the ASR well in compliance with the permit and Department rules has been installed. During the inspection, reporting requirements shall be reviewed. No injection, to include operational testing, shall be allowed without prior approval.
 - g. Prior to operational testing, the following items must be submitted for TAC review and Department approval:
 - 1) a draft operation and maintenance manual with emergency procedures
 - 2) borehole television survey of the ASR well and the final casing of the well
 - 3) lithologic and geophysical logs with interpretations
 - 4) certification of mechanical integrity and interpreted test data
 - 5) aquifer test data, analysis and interpretation
 - 6) detailed cycle testing plan including the number of cycles and duration of cycles
 - 7) background water quality results from the storage zone for primary and secondary drinking water standards (62-550, FAC) and minimum criteria parameters (62-520 FAC), as attached
 - 8) water quality results of the injectate for primary, and secondary standards and minimum criteria, excluding asbestos, acrylamide, epichlorohydrin and the primary pesticide scan, including dissolved oxygen and total trihalomethanes
 - 9) surface equipment completion certification or certification of interim completion for the purposes of testing
 - 10) signed and sealed As-built engineering drawings of all subsurface, surface equipment and appurtenances
 - h. The permittee shall calibrate all pressure gages, flowmeters, chart recorders, and other related equipment associated with the ASR well system on a semi-annual basis. The permittee shall maintain all monitoring equipment and shall ensure that the monitoring equipment is calibrated and in proper operating condition at all times. Laboratory equipment, methods, and quality control will follow EPA guidelines as expressed in Standard Methods for the Examination of water and Wastewater. The pressure gages, flow meter, and chart records shall be calibrated using standard engineering methods.

PERMITTEE:

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COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N

SPECIFIC CONDITIONS:

6. Operational Testing Conditions

a. Upon receipt of written authorization from the Department [S.C. 5.a.], the operational testing of the ASR well system shall be subject to the following conditions:

- 1) A qualified representative of the Engineer of Record shall be present for the start-up operations.
- 2) The Department shall be notified in writing of the date of commencement operations.
- 3) The progress of the operational testing for the system shall be reviewed during a meeting scheduled within one month of completion of the last planned cycle. A report evaluating the system's progress must be submitted to the Department, each member of the UIC-TAC, and EPA at least two (2) weeks prior to the scheduled meeting. The Department may require additional meeting(s) should water quality or other regulatory issues arise during cycle testing. The conditions for the operational testing period may be modified by the Department at each of the UIC-TAC review intervals.
- 4) Flows to the ASR well shall be monitored and controlled at all times to ensure the maximum injection rate does not exceed that rate at which the well was tested.
- 5) Any failure of the ASR system monitoring and recording equipment for a period of more than forty-eight (48) hours shall be reported within twenty-four (24) hours to the Department. A written report describing the incident shall also be given to the Department within five (5) days of the start of the event. The final report shall contain a complete description of the occurrence, a discussion of its cause(s) and the steps being taken to reduce, eliminate, and prevent recurrence of the event, and all other information deemed necessary by the Department.
- 6) The ASR system shall be monitored in accordance with Rules 62-528.425(1)(g)1.,2.,3., and 5., F.A.C.; and Rule 62-528.430(2)(b), F.A.C. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- 7) The following data shall be collected and reported to the Department in Monthly Operating Reports (MORs):
 - a) ASR well performance:
 - (1) Flow rate parameters:
 - (a) average daily flow rate to/from ASR well (MGD)
 - (b) daily peak hour flow rate to/from ASR well (MGD)
 - (c) monthly maximum peak hour flow to and from ASR well (MGD)
 - (d) monthly average of the daily flow rates (MGD) to and from ASR well (MGD))
 - (2) Volume parameters:
 - (a) total daily flow to/from ASR well (MG)
 - (b) monthly maximum of daily flow volumes to and from ASR well (MG)
 - (c) cumulative total volume injected and recovered from the well (MG)
 - (3) Pressure parameters:
 - (a) daily average injection pressure at the ASR well (psig)
 - (b) daily maximum sustained injection pressure at the ASR well (psig)
 - (c) monthly average injection pressure at ASR well (psig)
 - (d) monthly maximum sustained injection pressure at ASR well (psig)

PERMITTEE:

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SPECIFIC CONDITIONS:

b) Chemical characteristics of the injectate:

Pursuant to Rules 62-528.425(1)(a) and 62-528.605(2), F.A.C., an injectate analysis (24-hour composite sample when applicable — grab sample for VOC parameters) for primary and secondary drinking water standards (Chapter 62-550, F.A.C.) and minimum criteria, see attached list, shall be submitted annually (sampled in February and submitted on or before April 30). The fluid injected shall meet the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C., and the minimum criteria contained in Chapter 62-520, F.A.C., at all times, unless such accident is otherwise authorized by statute or Department rule and approved by the Department. The permittee shall submit all water quality data required for community drinking water systems as a part of the monthly operation report (MOR).

c) During operational testing for the ASR Well ASR-1, the following chemical characteristics shall be monitored during each injection, storage (monitor wells only) and recovery cycle, in accordance with the parameters and frequency listed below:

(1) Weekly sampling (ASR-1, FAMW-1 and the Surficial Monitor Well (9W-0069)):

- (a) total dissolved solids (TDS, total filterable residue) (mg/L)
- (b) chloride (mg/L)
- (c) specific conductance (temperature compensated, umho/cm)
- (d) pH (standard units)
- (e) color (color units)
- (f) microbial indicators:
 - i. total coliform (# of colonies/100 ml)
 - ii. fecal coliform MF (# of colonies/100 ml)

(2) Weekly sampling (ASR-1 only):

- (a) turbidity (Ntu)
- (b) total suspended solids, TSS (mg/L)

(3) If the primary drinking water standard for total coliform is exceeded in the ASR injection fluid, then the injectate shall be sampled within twenty-four (24) hours from the time the permittee becomes aware of the accident, for the following microbial indicators:

- (a) total coliform (# of colonies/100 ml)
- (b) fecal coliform MF (# of colonies/100 ml)
- (c) cryptosporidium (oocysts/L)
- (d) giardia (cysts/L)
- (e) enterococci (# of colonies/100 ml)
- (f) clostridium perfringens (# of colonies/100 ml)
- (g) coliphage (pfu/100 ml)

PERMITTEE:

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EXPIRATION DATE: MAR 31 2003
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SPECIFIC CONDITIONS:

(4) Monthly sampling during each injection, storage (FAMW-1 only) and recovery cycle (ASR-1, FAMW-1 and the Surficial Monitor Well (9W-0069)) for the following radionuclides and related parameters:

(a) Chemical characteristics monthly:

- i. arsenic
- ii. gross alpha, pCi/L
- iii. dissolved oxygen; mg/L

(b) Per the discretionary provisions of 62-520.440 FAC, if sampling for gross alpha particle activity, shows a response of 15 picoCuries per liter or greater — monthly sampling for the following chemical characteristics shall be implemented until a full 3 months of data shows that gross alpha has declined to below the threshold value:

- i. radium 226 (pCi/L)
- ii. radium 228 (pCi/L)

Samples shall be collected according to the frequency specified above during cycle testing until the Department authorizes a reduction in sampling frequency to a proposed alternative frequency. A request for reduction in sampling frequency and/or elimination of specific individual parameters shall be accompanied by a minimum of six (6) months of cycle testing data accompanied by technical justification and interpretations. The request shall be submitted to the Department, UIC-TAC and USEPA for review and Department approval.

The MORs shall indicate monthly averages for all parameters sampled daily or weekly.

d) The Department may require the monitoring of additional parameters, and/or a more frequent monitoring of parameters, if water quality monitoring of the Floridan aquifer, surficial aquifer or the injection fluid indicates any of the following:

- (1) quality of the injectate is deteriorating, as determined by the Department
- (2) results of the sampling indicate significant differences in water quality during consecutive sampling events, as determined by the Department
- (3) a source of contamination to the ASR storage zone is discovered that was not addressed in the permit.

e) Monitor zone potentiometric surface or water table height relative to NGVD (feet of head) or pressure (psig) referenced to NGVD (FAMW-1 and the Surficial Monitor Well (9W-0069)):

- (1) daily maximum sustained pressure or water level
- (2) daily minimum sustained pressure or water level
- (3) daily average pressure or water level
- (4) monthly maximum sustained pressure or water level
- (5) monthly minimum sustained pressure or water level
- (6) monthly average pressure or water level

f) Sampling tube flow rate, to be reported for each sampling event using the sampling tube (installed to collect samples for analysis of microbial parameters). A minimum of three (3) sampling tube volumes of fluid shall be evacuated from the sampling tube prior to sampling for the microbial parameters.

PERMITTEE:

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SPECIFIC CONDITIONS:

- 8) A minimum of three (3) well volumes of fluid shall be evacuated from the monitor system prior to sampling for the chemical parameters listed above. All samples shall be analyzed by a state-certified laboratory. Sufficient purging shall have occurred when either of the following have occurred:
 - a) pH, specific conductivity and temperature when sampled, upon purging the third or subsequent well volume, each vary less than 5% from that sampled upon purging the previous well volume;
or
 - b) upon purging the fifth well volume.
- 9) All samples shall be analyzed by a State-certified laboratory and sampled and analyzed according to the requirements of Rule 62-160, F.A.C.
- 10) All ASR well system data submissions including MORs shall be clearly identified on each page with facility name, I.D. Number, permit number, operator's name, license number, daytime phone number, date of sampling/recording, and type of data. Monitor zones shall be identified by well and depth interval. The lead plant operator or higher official must sign and date each submittal. An approved summary sheet from the FDEP Southeast District Underground Injection Control (UIC) Section is attached.
- 11) ASR well system monitoring devices:
 - a) Pursuant to Rules 62-528.425(1)(b) and 62-528.605(2), F.A.C., the ASR system shall be monitored by continuous indicating, recording and totalizing devices to monitor effluent flow rate and volume, and continuous indicating and recording devices to monitor injection pressure and monitor zone pressure (or water level, as appropriate; all zones). All indicating, recording and totalizing devices associated with the ASR well system shall be maintained in good operating condition and calibrated annually at a minimum. Laboratory equipment, methods, and quality control will follow United States Environmental Protection Agency (USEPA) guidelines as expressed in Standard Methods for the Examination of Water and Wastewater. The pressure gauges, flow meter, and chart records shall be calibrated using standard engineering methods.
 - b) Pursuant to Rule 62-600.540(4), F.A.C., the surface equipment shall be such that manual backup capability to monitor flow and pressure shall be provided for systems utilizing automatic and continuous recording equipment.
- 12) Mechanical Integrity:
 - a) The pressure at the wellhead shall be monitored and controlled at all times to ensure the maximum pressure on the final casing does not exceed, 66 percent (%) of the mechanical integrity test pressure.
 - b) The permittee shall demonstrate mechanical integrity at least once every five years during the life of the ASR well. In the event operational or other data indicate a possible loss of integrity in the ASR well, the mechanical integrity and other testing may be required at less than a five year interval. The mechanical integrity testing (MIT) program shall include: TV survey, pressure test, and temperature log. A plan describing the mechanical integrity procedures shall be submitted to Underground Injection Control - Technical Advisory Committee (UIC-TAC) and to the Department for approval 6 months prior to the MIT due date. Per Rules 62-528.430(2)(b)2.a. and 62-528.605(2), F.A.C., the final report for the demonstration of mechanical integrity for the ASR well shall be submitted within three (3) months of the completion date for mechanical integrity testing. The final report shall address all tests noted above (including procedures followed, interpretations and results), and shall also include a tabular presentation/graphical evaluation of monitoring well data.
 - c) Mechanical integrity testing:
 - (1) The Department shall be notified at least seventy-two (72) hours prior to all testing for mechanical integrity.

PERMITTEE:

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DATE OF ISSUE: MAR 22 2001
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LATITUDE/LONGITUDE: 26°20'30"W/80°13'23"N

SPECIFIC CONDITIONS:

- (2) All testing for mechanical integrity must be initiated during normal business hours, Monday through Friday.
 - (3) The pressure test for the final casing will be accepted if tested with a fluid-filled casing at 1.5 times the expected operating pressure with a test tolerance of 5%. Verification of pressure gage calibration must be provided with the test reports.
 - d) Injection is prohibited until the permittee affirmatively demonstrates that the well has mechanical integrity. Prior to operational testing the permittee shall establish, and thereafter maintain the mechanical integrity of the well at all times.
 - e) If the Department determines that the ASR well lacks mechanical integrity, written notice shall be given to the permittee.
 - f) Within 48 hours of receiving written notice that the well lacks mechanical integrity, unless the Department requires immediate cessation of injection, the permittee shall cease injection into the well unless the Department allows continued injection pursuant to subparagraph g) below.
 - g) The Department shall allow the permittee to continue operation of a well that lacks mechanical integrity if the permittee has made a satisfactory demonstration that fluid movement between underground sources of drinking water is not occurring.
- b. No fluids shall be injected without prior written authorization from the Department.
 - c. The only source of injectate shall be water meeting all Primary and Secondary drinking water quality standards and minimum criteria parameters unless otherwise exempted. All parameters which are not exempted under a water quality criteria exemption, variance or waiver, as appropriate, shall meet the appropriate standard at all times.
 - d. For wells ASR-1, FAMW-1 and the Surficial Monitor Well (9W-0069), if any of the conditions below occur because of injection at the County of Palm Beach ASR Well System, injection into the ASR well shall cease until a water quality criteria exemption, variance or waiver that addresses any additional parameters exceeding water quality standards, or an aquifer exemption pursuant to Rule 62-528.300(3), F.A.C., as appropriate, has been obtained:
 - 1) The MCL is exceeded for any parameter contained in the primary drinking water standards (62-550, F.A.C.) as attached.
 - 2) The MCL, or natural background level (if greater than the MCL), is exceeded for any parameter contained in the secondary drinking water standards (62-550, F.A.C.) or the minimum criteria parameters (62-520, F.A.C.) as attached.
 - e. The Department may require the monitoring of additional parameters if water quality monitoring of the FAMW-1, the Surficial Monitor Well (9W-0069) or the injection fluid indicates any of the following:
 - 1) The quality of the injectate is deteriorating
 - 2) The results of the sampling indicate significant differences in water quality during consecutive sampling events
 - 3) A source of contamination to the ASR storage zone is discovered that was not addressed in the permit

7. Surface Equipment

- a. Equipment shall be kept free of contamination with independent discharges and no interconnections with The integrity of the monitor zone sampling systems shall be maintained at all times. Sampling lines and any other lines. Sampling lines shall be clearly and unambiguously identified by monitoring zone at the point at which samples are drawn. All reasonable and prudent precautions shall be taken to ensure that samples are properly identified by monitor zone and that samples obtained are representative of those zones.

PERMITTEE:

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SPECIFIC CONDITIONS:

- b. The surface equipment for the ASR well system must maintain compliance with Department rules for water hammer control, screening, access for logging and testing, and reliability and flexibility in the event of damage to the well and piping. Additionally a regular program of exercising the valves integral to the well head shall be instituted on a quarterly basis.
- c. The ASR and monitoring wells' surface equipment and piping shall be kept free of corrosion at all times.

8. Plugging and Abandonment

- a. The permittee shall unconditionally obligate themselves to plug and abandon ASR Well ASR-1, and Monitor Wells FAMW-1 (with the appropriate Department permit) should the well or wells become a threat to the waters of the State, if the wells are no longer used, or if the wells are no longer usable for their intended purpose, per Rules 62-528.460(1) and 62-528.605(2), F.A.C.
- b. In the event the ASR well must be plugged and abandoned, the permittee shall obtain an FDEP permit, as required by Rule 62-528.645, F.A.C.

9. Signatories and Certification

- a. All reports and other submittals required to comply with this permit shall be signed by a person authorized under Rules 62-528.340(1) or (2), F.A.C.
- b. In accordance with Rule 62-528.340(4), F.A.C., all reports shall contain the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

10. Permit Renewal and Application for Operating Permit

Operational testing of this ASR well shall cease upon expiration of this permit unless a request for an Operation Permit for the ASR-1 well has been submitted at least 60 days prior to the expiration of this permit, or such an Operation Permit has been issued by the Department, or a timely renewal application (Rules 62-4.090, F.A.C. and 62-528.307(2)(a), F.A.C.) for a Construction Permit has been submitted to the Department or renewal of this Construction Permit has been accomplished.

Issued this 22nd day of March, 2001

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION



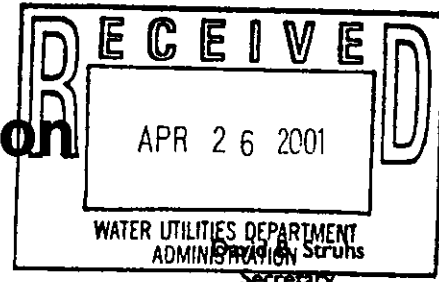
Melissa L. Meeker
Director of District Management
Southeast Florida District

MLM/LAH/JRM/DCP 

ORIGINAL TO STEVE M.
CC: STEVE M.
VINCENT M.



Department of Environmental Protection



Jeb Bush
Governor

Southeast District
P.O. Box 15425
West Palm Beach, Florida 33416

APR 25 2001

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

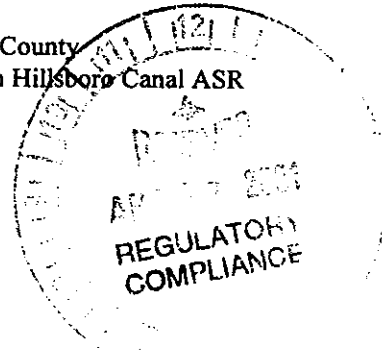
Also Copy to:
Jim S.
Hector R.

SK 4/30/2001

CERTIFIED MAIL #7000 0600 0024 1599 3598
RETURN RECEIPT REQUESTED

Mr. Gary Demlan, Director
Palm Beach County Water Utilities Dept.
2065 Prairie Road
West Palm Beach, Florida 33406

Palm Beach County
IW - Eastern Hillsboro Canal ASR
NPDES



NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FL0267538 for construction/operation of the Eastern Hillsboro Canal ASR surface water discharge system, issued pursuant to Section(s) Florida Statute Section 408.0855, Florida Administrative Code (FAC) 62-620, FAC 62-4.

Any party to this order (permit) has the right to seek judicial review of the permit under section 120.68 of the Florida Statutes, by the filing of a Notice of Appeal under rule 9.110 of the Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000 and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this notice is filed with the Clerk of the Department.

Executed in West Palm Beach, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Melissa L. Meeker
Director of District Management

4/25/01
Date

MLM/LAH/tp

Copies furnished to:

- Todd Brown, DEP/WPB
- Renee Mathews, P.E., Mathews Consulting, Inc.
- Palm Beach County ERM
- Palm Beach County Public Health Unit
- South Florida Water Management District

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Mr. Gary Dernlan, Director
Palm Beach County Water Utilities Dept.
Notice of Permit Issuance
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CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF DRAFT PERMIT and all copies were mailed by certified mail before the close of business on APR 25 2001 to the listed persons. Clerk Stamp

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to s.120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Katam Bzary
Clerk

4/25/01
Date



Department of Environmental Protection

Jeb Bush
Governor

Southeast District
P.O. Box 15425
West Palm Beach, Florida 33416

David B. Struhs
Secretary

APR 25 2001

STATE OF FLORIDA WASTEWATER FACILITY PERMIT

PERMITTEE: Palm Beach County Water Utilities Dept.
2065 Prairie Road
West Palm Beach, Florida 33406

PERMIT NUMBER: FL0267538
ISSUANCE DATE: APR 25 2001
EXPIRATION DATE: APR 24 2006

**RESPONSIBLE
AUTHORITY:** Gary Dernlan, Director of Utilities

FACILITY/PROJECT: Eastern Hillsboro Canal ASR System – Surface Water Discharge
Palm Beach County

NPDES

LAT/LONG: 26°19'58"N/80°13'24"W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System (NPDES). The above named permittee is hereby authorized to operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

PROJECT, TREATMENT AND DISPOSAL FACILITIES:

Palm Beach County Water Utilities Water Treatment Plant 9 aquifer storage and recovery (ASR) system discharge of Floridan Aquifer water during construction (Phase I), and recovered (stored) water during the operational phase (Phase II).

Phase I Discharge: Water from the reverse air well drilling procedures and pump tests will be discharged to the Hillsboro Canal, a Class III surface water (fresh), after settling in an 8,000 gallon steel circulation tank. Construction activities are expected to take approximately nine months. Mixing zones of 150 meters for turbidity and dissolved oxygen (DO), and 800 meters for specific conductance are authorized during the construction/testing phase.

Phase II Discharge: During the operational phase of the project, discharges to the Hillsboro Canal are expected to occur during the dry season for 3 days per week, at a flow rate of 5 MGD. The discharge will consist of surficial aquifer water taken from the water treatment plant raw water supply wells that has been stored in the ASR well during the wet season. A control system for turbidity and specific conductance will terminate the discharge in order to maintain surface water and ground water standards.

The Phase II discharge outfall structure (D001) will be located approximately at latitude 26°19'58"N and longitude 80°13'24"W, in the Hillsboro Canal. The outfall will be a submerged 20-inch diameter reinforced concrete pipe. The structure will be equipped with an eductor system designed to mix a sidestream of canal water (400 gpm) and approximately 115 gpm of air into the discharge in order to maintain a minimum of 5.0 mg/L DO.

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IN ACCORDANCE WITH:

The application for permit to discharge non-process wastewater to surface waters on DEP Forms 62-620.910(1) and 62-620.910(7), received on November 14, 2000; additional information received February 13 2000; and also subject to the limitations, monitoring requirements and other conditions set forth in this permit.

I. Effluent Limitations and Monitoring Requirements

A. Surface Water Discharges

1. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge water from Outfall D001. Such discharge shall be limited and monitored by the permittee as specified below. If end-of-pipe or mixing zone limits are exceeded, the discharge shall be discontinued immediately until such time as adequate treatment or dilution can be provided.

Phase I (Well Drilling and Testing):

Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Avg.	Daily Max.	Other (specify)	Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report	N/A	Daily	Pump log or meter	See I.A.5. below
Specific Conductance (umhos/cm)	Report	See I.A.6.	N/A	See I.A.9.	In-situ	See I.A.5. and 6.
Chloride (mg/L)	Report	See I.A.6.	N/A	See I.A.9.	In-situ	See I.A.6.
Turbidity (NTU)	Report	See I.A.7.	N/A	See I.A.9.	In-situ	See I.A.5. and 7.
pH, field (s.u.)	Report	N/A	See I.A.4.	See I.A.9.	In-situ	See I.A.5. Below
Dissolved Oxygen (mg/L)	Report	N/A	See I.A.8.	See I.A.9.	In-situ	See I.A.5. and 8.

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Phase II (ASR Well Operational):

Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Avg.	Daily Max.	Other (specify)	Frequency	Sample Type	Sample Point
Flow (MGD)	Report	Report	N/A	Continuous	Pump log or meter	See I.A.5.
Specific Conductance (umhos/cm)	Report	See I.A.10.	N/A	Continuous	In-situ	See I.A.5.
Chloride (mg/L)	Report	250	N/A	See I.A.10.	See I.A.10.	See I.A.5.
Turbidity (NTU)	Report	29	N/A	Continuous	In-situ	See I.A.5.
pH, field (s.u.)	Report	N/A	See I.A.4.	Weekly	In-situ	See I.A.5.
Dissolved Oxygen (mg/L)	Report	N/A	5.0 mo avg 4.0 daily min	Daily	In-situ	See I.A.5.
Total Dissolved Solids (mg/L)	N/A	500	N/A	Monthly	Grab	See I.A.5.
Sodium (mg/L)	N/A	160	N/A	Monthly	Grab	See I.A.5.
Fecal Coliform (#/100 mL)	N/A	200	N/A	Monthly	Grab	See I.A.5.
Total Coliform (#/100 mL)	N/A	1000	N/A	Monthly	Grab	See I.A.5.
Total Nitrogen (as N) (mg/L)	Report	Report	N/A.	Monthly	Grab	See I.A.5.
Total Ammonia (as N) (mg/L)	Report	Report	N/A	Monthly	Grab	See I.A.5.
Total Phosphorus (as P) (mg/L)	Report	Report	N/A	Monthly	Grab	See I.A.5.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
3. The discharge shall not cause a visible sheen on the receiving water.
4. The pH shall not be less than 6.0 standard units, nor greater than 8.5 standard units.
5. Unless specified elsewhere in the permit, samples taken in compliance with the monitoring requirements specified in I.A.1. shall be taken at the nearest accessible point after final treatment but prior to the actual discharge with the receiving water. Mixing zone samples, if necessary, shall be taken at mid-depth of the canal.
6. Phase I Mixing Zone for Specific Conductance and Chloride Limit:
 - (a) If there is sufficient flow in the canal, a mixing zone of 800 meters in the Hillsboro Canal downstream of Outfall D001 for Specific Conductance is allowed (Monitoring Site SWD-1). If there is no flow in the canal, compliance with a mixing zone shall be verified 400 meters on either side of the outfall. At the edge of the mixing zone the Specific Conductance shall not exceed 50% of background or 1275 umhos/cm, whichever is greatest.
 - (b) The discharge shall also be controlled such that the canal water is maintained in compliance with the ground water standard for chloride, which is 250 mg/L. A correlation shall be provided between specific conductance and chloride, which will be used in the field to determine when chloride

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concentrations in the canal approach the standard. The chloride standard shall be achieved at the edge of the mixing zone.

7. Phase I Mixing Zone for Turbidity:

(a) Prior to the discharge, the ambient background turbidity shall be measured and recorded in the canal at mid-depth near the point of discharge. If the turbidity of the discharge at the end-of-pipe is less than 29 NTU over the background value, no mixing zone is necessary. If the end-of-pipe turbidity value is greater than 29 NTU over background, a mixing zone is authorized.

(b) If there is sufficient flow in the canal, a mixing zone of 150 meters in the Hillsboro Canal downstream of Outfall D001 for turbidity is allowed. If there is no flow in the canal, compliance with a mixing zone for turbidity shall be verified 75 meters on either side of the outfall. At the edge of the mixing zone the turbidity shall not exceed 29 NTU over the background value.

8. Phase I Mixing Zone for Dissolved Oxygen:

(a) The end-of-pipe limit for DO shall be a minimum of 1.5 mg/L.

(b) If the DO of the discharge water is greater than 4.0 mg/L, no mixing zone is necessary. If the DO of the discharge is less than 4.0 mg/L a mixing zone is authorized.

(c) If there is sufficient flow in the canal, a mixing zone of 150 meters in the Hillsboro Canal downstream of Outfall D001 for DO is allowed. If there is no flow in the canal, compliance with the mixing zone for DO shall be verified 75 meters on either side of the outfall. At the edge of the mixing zone the DO shall not be less than 4.0 mg/L, or less than or equal to ambient background.

9. During Phase I, the effluent shall be sampled every 2 hours for three consecutive samples each day a discharge occurs. Mixing zones samples, if necessary, shall also be sampled at the edge of the mixing zone every 2 hours for three consecutive samples.

10. Prior to commencement of Phase II discharges, the permittee shall submit an operating protocol to the Department which will outline and describe the procedures and the control system to be used that will effectively shut down the discharge before the standards for specific conductance, chloride, TDS, or turbidity are exceeded. The standard for specific conductance is no greater than 50% above background (canal) or 1275 umhos/cm, whichever is greatest. The standard for chloride and TDS will be assumed to be the ground water criteria of 250 mg/L and 500 mg/L respectively, and may be correlated to a set-point for conductance as programmed in the control system. The standard for turbidity shall be 29 NTU. Phase II operational discharges are not allowed until approval of the protocol is received from the Department.

11. In addition to the monitoring parameters given in I.A. for Phase II operation, the permittee shall sample the discharge for the primary and secondary drinking water standards. The initial sample shall be taken within 7 days after the initial discharge, and annually thereafter, by grab sample.

12. To minimize erosion and turbidity, and to increase the DO level, during Phase I, the permittee shall use a splash pad and turbidity screen at the point of discharge into the canal.

B. Other Methods of Disposal or Recycling

1. There shall be no discharge of wastewater from this facility to ground or surface waters, except as authorized by this permit.

C. Other Limitations and Monitoring and Reporting Requirements

1. Field testing, quality control procedures and all record keeping shall be in accordance with Chapter 62-160, F.A.C.

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2. Monitoring results obtained for each calendar month shall be summarized for that month and reported on a Discharge Monitoring Report (DMR), Form 62-620.910(10), postmarked no later than the 28th day of the month following the completed calendar month. For example, data for January shall be submitted by February 28. New DMRs to report Phase II discharges shall be issued to the permittee when the Department approves of the operating protocol (see Condition I.A.10.). Signed copies of the DMR shall be submitted to the Florida Department of Environmental Protection at the address specified below:

**Florida Department of Environmental Protection
Wastewater Facilities Regulation Section, Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400**

If no discharge occurs during the reporting period, sampling requirements of this permit do not apply, and the "No Discharge" box shall be checked on the DMR form. If, during the term period of this permit, the facility permanently ceases to discharge, the Department shall be notified immediately upon cessation of discharge. Such notification shall be in writing.

3. Unless specified otherwise in this permit, all reports and notifications required by this permit, including twenty-four hour notifications, shall be submitted to or reported to, as appropriate, the Southeast District Office of the Department at the address specified below:

**Florida Department of Environmental Protection
Southeast District Office Office
P.O. Box 15425
West Palm Beach, Florida 33416
Attn: Industrial Waste Section
Telephone Number: (561)681-6600
Facsimile Number: (561)681-6760**

4. The permittee shall provide safe access points for obtaining representative samples which are required by this permit.
5. The permittee shall ensure that all laboratory analytical data submitted to the department as required by this permit is from a laboratory which has a currently valid and Department-approved Comprehensive Quality Assurance Plan (ComQAP), or a ComQAP pending approval, for all parameters being reported as required by Chapter 62-160, Florida Administrative Code.
6. If there is no discharge from the facility on a day scheduled for sampling, the sample shall be collected on the day of the next discharge.
7. Any bypass of the treatment facility which is not included in the monitoring specified I.A.1., or I.B., is to be monitored for flow and all other required parameters. For parameters other than flow, at least one grab sample of effluent, collected prior to discharge to the canal, per day shall be monitored. Daily flow shall be monitored or estimated, as appropriate, to obtain reasonable data. All monitoring results shall be reported on the appropriate DMR form.

II. Operation and Maintenance Requirements

A. Operation of Treatment and Disposal Facilities

1. The permittee shall ensure that the operation of this facility is as described in the application and supporting documents.

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2. During Phase I, fines and sediment shall be removed from the settling tanks on a daily basis or as often as necessary so that the effluent limit for Turbidity is not exceeded. If the Turbidity limit is exceeded during the course of daily operations, the operation shall be shut down until corrective action is taken to resolve the problem.
3. Disposal of fines or silt from the settling tanks shall be in accordance with Department rules at approved sites or facilities.

B. Record keeping Requirements:

The permittee shall maintain the following records on the site of the permitted facility or SFWMD headquarters, and make them available for inspection:

1. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
2. Copies of all reports, other than those required in items 1. and 6. of this section, required by the permit for at least three years from the date the report was prepared, unless otherwise specified by Department rule;
3. Records of all data, including reports and documents used to complete the application for the permit for at least three years from the date the application was filed, unless otherwise specified by Department rule;
4. A copy of the current permit;
5. A copy of any required record drawings;
6. Copies of the logs and schedules showing facility operations and equipment maintenance for three years from the date on the logs or schedule.

III. Other Specific Conditions

A. Specific Conditions Applicable to all permits

1. Drawings, plans, documents or specifications submitted by the permittee, not attached hereto, but retained on file at the Florida Department of Environmental Protection, Southeast District office, are made a part hereof.
2. If significant historical or archaeological artifacts are discovered at any time within the project site, the permittee shall immediately notify the District Office and the Bureau of Historic Preservation, Division of Archives, History and Records Management, R.A. Gray Building, Tallahassee, Florida 32301.
3. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) Florida Statutes, applicable portions of reports to be submitted under this permit, shall be signed and sealed by the professional(s) who prepared them.
4. This permit satisfies Industrial Wastewater program permitting requirements only and does not authorize operation of this facility prior to obtaining any other permits required by local, state or federal agencies.

B. Duty to Reapply

1. The permittee shall submit an application to renew this permit at least 180 days before the expiration date of this permit.
2. The permittee shall apply on the appropriate form listed in Rule 62-620.910, F.A.C., and in the manner established in Rules 62-620.400 through 62-620.460, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.
3. An application filed in accordance with subsections 1. and 2. of this part shall be considered timely and sufficient. When an application for renewal of a permit is timely and sufficient, the existing permit shall not expire until the Department has taken final action on the application for renewal or until the last day for seeking judicial review of the agency order or a later date fixed by order of the reviewing court.

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4. The late submittal of a renewal application shall be considered timely and sufficient for the purpose of extending the effectiveness of the expiring permit only if it is submitted and made complete before the expiration date.

IV. General Conditions

The following General Conditions are referenced in Florida Administrative Code Rule 62-620.610.

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department.
3. As provided in Subsection 403.087(6), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit.
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit.
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to

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- a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
 - b. Have access to and copy any records that shall be kept under the conditions of this permit;
 - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
 - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.
10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, Florida Statutes, or Rule 62-620.302, Florida Administrative Code. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules.
 11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department.
 12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
 13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-5.052, F.A.C.
 14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.
 15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment.
 16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, 62.420 or 62.620.450, F.A.C., as applicable, at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.300 for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C.
 17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - b. The period of the anticipated noncompliance, including dates and times; and
 - c. Steps being taken to prevent future occurrence of the noncompliance.
 18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapter 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.
 - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10).

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- b. If the permittee monitors any contaminate more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - d. Any laboratory test required by this permit for domestic wastewater facilities shall be performed by a laboratory that has been certified by the Department of Health and Rehabilitative Services (DHRS) under Chapter 10D41, F.A.C., to perform the test. In domestic wastewater facilities, on-site tests for dissolved oxygen, pH, and total chlorine residual shall be performed by a laboratory certified to test for those parameters or under the direction of an operator certified under Chapter 61E12-41, F.A.C.
 - e. Under Chapter 62-160, F.A.C., sample collection shall be performed by following the protocols outlined in "DER Standard Operating Procedures for Laboratory Operations and Sample Collection Activities" (DER-QA-001/92). Alternatively, sample collection may be performed by an organization who has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with the Department. The CompQAP shall be approved for collection of samples from the required matrices and for the required tests.
19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date.
20. The permittee shall report to the Department any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- a. The following shall be included as information which must be reported within 24 hours under this condition:
 1. Any unanticipated bypass which causes any reclaimed water or the effluent to exceed any permit limitation or results in an unpermitted discharge,
 2. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 3. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 4. Any unauthorized discharge to surface or ground waters.
 - b. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department shall waive the written report.
21. The permittee shall report all instances of noncompliance not reported under Conditions IV. A. 18. and 19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Condition IV. A. 20. of this permit.
22. Bypass Provisions.
- a. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
 - (1). Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2). There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

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(3). The permittee submitted notices as required under Condition IV. A. 22. b. of this permit.

- b. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Condition IV. A. 20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- c. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Condition IV. A. 22. a. through 3. of this permit.
- d. A. permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of Condition IV. A. 22. a. through c. of this permit.

23. Upset Provisions

- a. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1). An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2). The permitted facility was at the time being properly operated;
 - (3). The permittee submitted notice of the upset as required in Condition IV. A. 20. of this permit; and
 - (4). The permittee complied with any remedial measures required under Condition IV. A. 5. of this permit.
- b. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
- c. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

Issued this 25th day of April, 2001

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL
PROTECTION



Melissa L. Meeker
Director of District Management
Southeast District Office

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT

WHEN COMPLETED MAIL THIS REPORT TO:

Department of Environmental Protection, Station 3551, 2600 Blair Stone Rd., Tallahassee, Florida 32399-2400

PERMITTEE NAME: Palm Beach County Water Utilities Dept
 MAILING ADDRESS: 2065 Prarie Road
 West Palm Beach, FL 33406
 Attention: Gary Demlan, Director
 FACILITY: Eastern Hillsboro Canal ASR System
 LOCATION: Approximately 7,000 ft west of US 441 in Hillsboro Canal
 COUNTY: Palm Beach

PERMIT NUMBER: FL0267538
 MONITORING PERIOD--From:
 LIMIT: Final
 CLASS SIZE: Industrial/Minor
 FACILITY ID: FL0267538
 DISCHARGE POINT NUMBER: D001
 Phase I Discharge

To:
 Report: Monthly

GROUP: IW

NO DISCHARGE:

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Flow (Effluent)	Sample Measurement				*****	*****	*****	*****			
Storet No. 50050 Mon. Site No. EFF-1	Permit Requirement	Report Mo. Avg.	Report Daily Max.	MGD	*****	*****	*****	*****		Daily	Pump Log or Meter
Specific Conductance (Measured Effluent Concentration)	Sample Measurement	*****	*****	*****	*****						
Storet No. 00095 Mon. Site No. EFF-1	Permit Requirement	*****	*****	*****	*****	Report Mo. Avg.	Report Daily Max.	umhos/cm		3/day	In-Situ
Specific Conductance (Edge of Mixing Zone Concentration)	Sample Measurement	*****	*****	*****	*****						
Storet No. 00095 Mon. Site No. SWD-1	Permit Requirement	*****	*****	*****	*****	Report Mo. Avg.	Report Daily Max.	umhos/cm		3/day	In-Situ
Specific Conductance (Background Concentration)	Sample Measurement	*****	*****	*****	*****						
Storet No. 00095 Mon. Site No. SWB-1 (see footnotes below)	Permit Requirement	*****	*****	*****	*****	Report Mo. Avg.	Report Daily Max.	umhos/cm		3/day	In-Situ
Specific Conductance (Calculated Mixing Zone Limit)	Sample Measurement	*****	*****	*****	*****	*****					
Storet No. 00095 Mon. Site No. (N/A) (see footnotes below)	Permit Requirement	*****	*****	*****	*****	*****	Report Daily Max.	umhos/cm		3/day	Calculate
Specific Conductance (Calculated difference)	Sample Measurement	*****	*****	*****	*****	*****					
Storet No. 00095 Mon. Site No. SWD-1 (see footnotes below)	Permit Requirement	*****	*****	*****	*****	*****	0.0 Daily Max.	umhos/cm		3/day	Calculate

Footnotes: P = Background concentration measured upstream of outfall. Q = Calculated mixing zone limit, $= (1.5) \times (\text{Background})$ or 1275, whichever is greatest.
 R = Difference of Edge of Mixing Zone concentration minus calculated limit (Q), positive value indicates exceedence.

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (include area code)	Date (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT

WHEN COMPLETED MAIL THIS REPORT TO:

Department of Environmental Protection, Mail Station 3551, 2600 Blair Stone Rd., Tallahassee, Florida 32399-2400

PERMITTEE NAME: Palm Beach County Water Utilities Dept
MAILING ADDRESS: 2065 Prarie Road
 West Palm Beach, FL 33406
 Attention: Gary Demlan, Director
FACILITY: Eastern Hillsboro Canal ASR System
LOCATION: Approximately 7,000 ft west of US 441 in Hillsboro Canal
COUNTY: Palm Beach

PERMIT NUMBER: FL0267538
MONITORING PERIOD--From: To:
LIMIT: Final Report: Monthly
CLASS SIZE: Industrial/Minor
FACILITY ID: FL0267538 **GROUP:** IW
DISCHARGE POINT NUMBER: D001
Phase I Discharge **NO DISCHARGE:**

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Turbidity (Effluent) Storet No. 00070 1 Mon. Site No. EFF-1	Sample Measurement	*****	*****	*****	*****						
	Permit Requirement	*****	*****	*****	*****	Report Mo. Avg.	Report Daily Max.	NTU		3/day	In-Situ
Turbidity (Background Concentration) Storet No. 00070 5 Mon. Site No. SWB-1	Sample Measurement	*****	*****	*****	*****						
	Permit Requirement	*****	*****	*****	*****	Report Mo. Avg.	Report Daily Max.	NTU		3/day	In-Situ
Turbidity (Calculated Limit) Storet No. 00070 Q Mon. Site No. (N/A) (see footnotes below)	Sample Measurement	*****	*****	*****	*****	*****					
	Permit Requirement	*****	*****	*****	*****	*****	Report Daily Max.	NTU		3/day	Calculated
Turbidity (Calculated Difference) Storet No. 00070 R Mon. Site No. EFF-1 (see footnotes below)	Sample Measurement	*****	*****	*****	*****	*****					
	Permit Requirement	*****	*****	*****	*****	*****	0.0 Daily Max.	NTU		3/day	Calculated

Footnotes: Q = Calculated discharge limit, 29 NTU + background NTU. R = Difference of effluent value (end-of-pipe) minus calculated limit (Q), positive value indicates exceedence.

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (include area code)	Date (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT

Department of Environmental Protection, Mail Station 3551, 2600 Blair Stone Rd., Tallahassee, Florida 32399-2400

WHEN COMPLETED MAIL THIS REPORT TO:

PERMITTEE NAME: Palm Beach County Water Utilities Dept
MAILING ADDRESS: 2065 Prarie Road
 West Palm Beach, FL 33406
 Attention: Gary Dernlan, Director

PERMIT NUMBER: FL0267538

MONITORING PERIOD--From:

LIMIT: Final

CLASS SIZE: Industrial/Minor

FACILITY ID: FL0267538

DISCHARGE POINT NUMBER: D001

Phase I Discharge

To:
Report: Monthly

GROUP: IW

NO DISCHARGE:

FACILITY: Eastern Hillsboro Canal ASR System
LOCATION: Approximately 7,000 ft west of US 441 in Hillsboro Canal
COUNTY: Palm Beach

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Dissolved Oxygen (Effluent) Storet No. 00300 1 Mon. Site No. EFF-1	Sample Measurement	*****	*****	*****			*****				
	Permit Requirement	*****	*****	*****	1.5 Daily Min.	Report Mo. Avg.	*****	mg/L		3/day	In-Situ
Dissolved Oxygen (Background Concentration) Storet No. 00300 5 Mon. Site No. SWB-1	Sample Measurement	*****	*****	*****			*****				
	Permit Requirement	*****	*****	*****	Report Daily Min.	Report Mo. Avg.	*****	mg/L		3/day	In-Situ
Dissolved Oxygen (Edge of Mixing Zone) Storet No. 00300 6 Mon. Site No. SWD-1	Sample Measurement	*****	*****	*****			*****				
	Permit Requirement	*****	*****	*****	Report Daily Min.	Report Mo. Avg.	*****	mg/L		3/day	In-Situ
pH (Field) (Effluent) Storet No. 00400 1 Mon. Site No. EFF-1	Sample Measurement	*****	*****	*****							
	Permit Requirement	*****	*****	*****	6.0 Daily Min.	Report Mo. Avg.	8.5 Daily Max.	s.u.		3/day	In-Situ
Chloride (Edge of Mixing Zone) Storet No. 1 Mon. Site No. SWD-1	Sample Measurement	*****	*****	*****	*****						
	Permit Requirement	*****	*****	*****	*****	Report Mo. Avg.	250 Daily Max.	mg/L		3/day	Calculated
	Sample Measurement										
	Permit Requirement										

Footnote:

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name/Title of Principal Executive Officer or Authorized Agent (Type or Print)	Signature of Principal Executive Officer or Authorized Agent	Telephone No. (include area code)	Date (yy/mm/dd)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

INSTRUCTIONS FOR MONITORING REPORT

DISCHARGE MONITORING REPORT

IMPORTANT: Please make copies of the blank forms for future report submittals. The Department will not routinely send you blank forms.

One report shall be completed and submitted for each discharge point, outfall, or testing site listed in the permit. Use additional sheets if necessary. Mail to Department of Environmental Protection at the address shown on the first page of report.

If "no discharge" occurs during the monitoring period, enter an "X" in the "NO DISCHARGE" box in the upper right corner.

Permittee Name/Address: Complete the name as shown on the face of the permit. Complete the mailing address. Place a note beside the mailing address if the address has changed within the past month.

Facility/Location: Complete the name of the facility and the address or location of the facility.

Permit Number: This is the number of the permit issued to the permittee which contains the monitoring requirements in this report.

Monitoring Period: This is the period that the data on this report represents.

Limit: This is blank if the data represents interim limits on a facility under construction. If the data represents final limits achieved after construction, the word FINAL will be here.

Class Size/Group: The facility classification is either major or minor and the group is either industrial or domestic.

Facility ID: This is the identification number of the facility which was assigned by the Department at the time the facility was constructed.

Discharge Point Number: This is the number in the permit assigned to the outfall, discharge point, or test site from which this data was collected. Complete one of these reports for each outfall or discharge point from your facility.

Parameter: This is the variable or substance which must be monitored.

Sample Measurement: The data which was collected and analyzed.

Permit Requirement: The limit from the permit for that parameter and measurement.

Quantity or Loading: The amount or mass of the parameter discharged during the reporting period in Average quantity discharged during the reporting period after adding each day of discharge, Maximum quantity discharged on the day with the highest amount, and the Unit of measurement (lbs, g, tons, etc.)

Quality or Concentration: The concentration of the parameter discharged during the reporting period in Minimum concentration during the reporting period, Average of all the measurements for the parameter during the reporting period, Maximum or highest concentration discharged during the reporting period, and the Unit of measurement (mg/L, ug/L, etc.)

No. Ex.: The number of sample measurements during the sampling period that exceeded the maximum (minimum or 7-day average, as appropriate) permit requirement for each parameter. If none, enter zero.

Frequency of Analysis: The number of times the measurement is required to be made by the permit and the number of times the measurement was made.

Sample Type: The type of sample (grab, composite, continuous) required to be taken by the permit and the type that was taken.

Certificate, Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Date when the report is signed.

Comment and Explanation: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation.

GROUNDWATER MONITORING REPORT

This part is applicable only to groundwater monitoring wells. Type or print in ink the required data. All samples shall be collected and analyzed in accordance with Chapter 62-160, F.A.C. Laboratory reports shall be kept on file in the location indicated in your permit and made available for inspection upon request by the Department.

Facility ID: This is the identification number of the facility assigned by the Department.

Test Site ID: This is the identification number of the sampling site listed in your permit.

Month/Year: This is the period during which the data on this report was collected and analyzed. If the period is greater than one month, indicate beginning month to ending month.

Well Type: Indicate if the well being sampled is background, intermediate, compliance, or other. If other, explain in the comment section.

Well Name: The name of the monitoring well as given in the permit.

Date Sample Obtained: This is the date the sample was taken.

Ground Water Class: This is the classification of the ground water under Chapter 62-522, F.A.C.

Parameter: Analyze the parameters the permit requires. List any additional parameters from the permit which are not pre-listed here. If there are any parameters listed here which are not required by your permit, enter NR on that line.

Storet Code: Enter the Storet Code associated with the parameter.

Sampling Method: Describe the sampling method used.

Samples Filtered: Indicate whether the sample obtained was filtered (Y) or unfiltered (N).

Preservatives Added: State what preservatives were added to the sample.

Analysis Method: Indicate the analytical method used. Record the number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Analysis Result/Units: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Enter the units associated with the results of the analysis.

Detection Limits/Units: Record the detection limits and the units associated with them.

Comments and Explanations: Use this space to make any comments on or explanations of results which are unexplained.

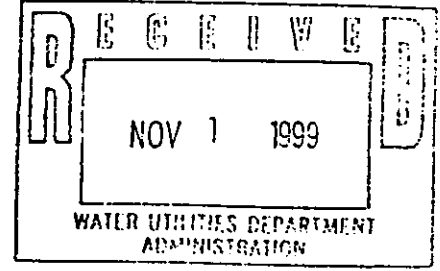
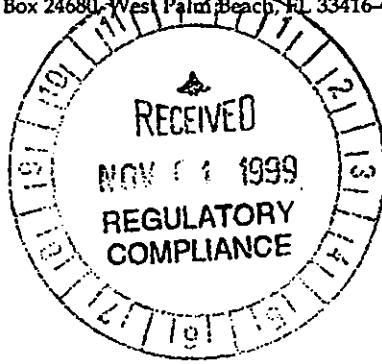


cc: PAUL F., FRANK F., VINCENT M.
WTP#9

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

3301 Gun Club Road, West Palm Beach, Florida 33406 • (561) 686-8800 • FL WATS 1-800-432-2045 • TDD (561) 697-2574
Mailing Address: P.O. Box 24680, West Palm Beach, FL 33416-4680 • www.sfwmd.gov

F
98-66
98-51
F.R.



WRO
1010

Dear Permittee:

Subject: Issuance of Right of Way Occupancy Permit

Enclosed please find the Right of Way Occupancy Permit authorized by the District's Governing Board issued pursuant to application for permit.

Your attention is directed to review the terms, Limiting Conditions, Special Conditions and drawings contained in the Right of Way Occupancy Permit.

Should you object to the terms, Limiting or Special Conditions, please refer to the enclosed "Notice of Rights" which addresses the procedures to be followed should you desire a public hearing or other review of the agency action.

Please note that you must notify the District of any objections in accordance with the procedures set forth in the "Notice of Rights". If an objection is not filed as specified in the "Notice of Rights", prior to construction of the authorized facilities or uses, in addition to waiving important legal administrative rights, such will infer to District staff that you concur with the District's actions.

Please contact this office should you have any questions or require assistance on this matter.

I HEREBY CERTIFY that a "Notice of Rights" has been furnished by Certified U.S. Mail to the Permittee.

Laura A. Lythgoe

Laura A. Lythgoe
Right of Way Division
Water Resource Operations

/ss
Enclosures

GOVERNING BOARD

Michael Collins, *Chairman*
Michael D. Minton, *Vice Chairman*
Mitchell W. Berger

Vera M. Carter
Gerardo B. Fernandez
Patrick J. Gleason

Nicolas J. Gutierrez, Jr.
Harkley R. Thornton
Trudi K. Williams

EXECUTIVE OFFICE

Frank R. Finch, P.E., *Executive Director*
James E. Blount, *Chief of Staff*

NOTICE OF RIGHTS

Section 120.569(1), Fla. Stat. (1997), requires that "each notice shall inform the recipient of any administrative hearing or judicial review that is available under this section, s. 120.57, or s. 120.68; shall indicate the procedure which must be followed to obtain the hearing or judicial review, and shall state the time limits which apply." Please note that this Notice of Rights is not intended to provide legal advice. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

Petition for Administrative Proceedings

1. A person whose substantial interests are affected by the South Florida Water Management District's (SFWMD) action has the right to request an administrative hearing on that action. The affected person may request either a formal or an informal hearing, as set forth below. A point of entry into administrative proceedings is governed by Rules 28-106.111 and 40E-1.511, Fla. Admin. Code, (also published as an exception to the Uniform Rules of Procedure as Rule 40E-0.109), as set forth below. Petitions are deemed filed upon receipt of the original documents by the SFWMD Clerk.

a. Formal Administrative Hearing: If a genuine issue(s) of material fact is in dispute, the affected person seeking a formal hearing on a SFWMD decision which does or may determine their substantial interests shall file a petition for hearing pursuant to Sections 120.569 and 120.57(1), Fla. Stat. or for mediation pursuant to Section 120.573, Fla. Stat. within 21 days, except as provided in subsections c. and d. below, of either written notice through mail or posting or publication of notice that the SFWMD has or intends to take final agency action. Petitions must substantially comply with the requirements of Rule 28-106.201(2), Fla. Admin. Code, a copy of the which is attached to this Notice of Rights.

b. Informal Administrative Hearing: If there are no issues of material fact in dispute, the affected person seeking an informal hearing on a SFWMD decision which does or may determine their substantial interests shall file a petition for hearing pursuant to Sections 120.569 and 120.57(2), Fla. Stat. or for mediation pursuant to Section 120.573, Fla. Stat. within 21 days, except as provided in subsections c. and d. below, of either written notice through mail or posting or publication of notice that the SFWMD has or intends to take final agency action. Petitions must substantially comply with the requirements of Rule 28-106.301(2), Fla. Admin. Code, a copy of the which is attached to this Notice of Rights.

c. Administrative Complaint and Order:

If a Respondent objects to a SFWMD Administrative Complaint and Order, pursuant to Section 373.119, Fla. Stat. (1997), the person named in the Administrative Complaint and Order may file a petition for a hearing no later than 14 days after the date such order is served. Petitions must substantially comply with the requirements of either subsection a. or b. above.

d. State Lands Environmental Resource

Permit: Pursuant to Section 373.427, Fla. Stat., and Rule 40E-1.511(3), Fla. Admin. Code (also published as an

exception to the Uniform Rules of Procedure as Rule 40E-0.109(2)(c)), a petition objecting to the SFWMD's agency action regarding consolidated applications for Environmental Resource Permits and Use of Sovereign Submerged Lands (SLERPs), must be filed within 14 days of the notice of consolidated intent to grant or deny the SLERP. Petitions must substantially comply with the requirements of either subsection a. or b. above.

e. Emergency Authorization and Order:

A person whose substantial interests are affected by a SFWMD Emergency Authorization and Order, has a right to file a petition under Sections 120.569, 120.57(1), and 120.57(2), Fla. Stat., as provided in subsections a. and b. above. However, the person, or the agent of the person responsible for causing or contributing to the emergency conditions shall take whatever action necessary to cause immediate compliance with the terms of the Emergency Authorization and Order.

f. Order for Emergency Action: A person whose substantial interests are affected by a SFWMD Order for Emergency Action has a right to file a petition pursuant to Rules 28-107.005 and 40E-1.611, Fla. Admin. Code, copies of which are attached to this Notice of Rights, and Section 373.119(3), Fla. Stat., for a hearing on the Order. Any subsequent agency action or proposed agency action to initiate a formal revocation proceeding shall be separately noticed pursuant to section g. below.

g. Permit Suspension, Revocation, Annulment, and Withdrawal: If the SFWMD issues an administrative complaint to suspend, revoke, annul, or withdraw a permit, the permittee may request a hearing to be conducted in accordance with Sections 120.569 and 120.57, Fla. Stat., within 21 days of either written notice through mail or posting or publication of notice that the SFWMD has or intends to take final agency action. Petitions must substantially comply with the requirements of Rule 28-107.004(3), Fla. Admin. Code, a copy of the which is attached to this Notice of Rights.

2. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the SFWMD's final action may be different from the position taken by it previously. Persons whose substantial interests may be affected by any such final decision of the SFWMD shall have, pursuant to Rule 40E-1.511(2), Fla. Admin. Code (also published as an exception to the Uniform Rules of Procedure as Rule 40E-0.109(2)(c)), an additional 21 days from the date of receipt of notice of said decision to

request an administrative hearing. However, the scope of the administrative hearing shall be limited to the substantial deviation.

3. Pursuant to Rule 40E-1.511(4), Fla. Admin. Code, substantially affected persons entitled to a hearing pursuant to Section 120.57(1), Fla. Stat., may waive their right to such a hearing and request an informal hearing before the Governing Board pursuant to Section 120.57(2), Fla. Stat., which may be granted at the option of the Governing Board.

4. Pursuant to Rule 28-106.111(3), Fla. Admin. Code, persons may file with the SFWMD a request for extension of time for filing a petition. The SFWMD, for good cause shown, may grant the extension. The request for extension must contain a certificate that the petitioner has consulted with all other parties, if any, concerning the extension and that the SFWMD and all other parties agree to the extension.

CIRCUIT COURT

5. Pursuant to Section 373.617, Fla. Stat., any substantially affected person who claims that final agency action of the SFWMD relating to permit decisions constitutes an unconstitutional taking of property without just compensation may seek judicial review of the action in circuit court by filing a civil action in the circuit court in the judicial circuit in which the affected property is located within 90 days of the rendering of the SFWMD's final agency action.

6. Pursuant to Section 403.412, Fla. Stat., any citizen of Florida may bring an action for injunctive relief against the SFWMD to compel the SFWMD to enforce the laws of Chapter 373, Fla. Stat., and Title 40E, Fla. Admin. Code. The complaining party must file with the SFWMD Clerk a verified complaint setting forth the facts upon which the complaint is based and the manner in which the complaining party is affected. If the SFWMD does not take appropriate action on the complaint within 30 days of receipt, the complaining party may then file a civil suit for injunctive relief in the 15th Judicial Circuit in and for Palm Beach County or circuit court in the county where the cause of action allegedly occurred.

7. Pursuant to Section 373.433, Fla. Stat., a private citizen of Florida may file suit in circuit court to require the abatement of any stormwater management system, dam, impoundment, reservoir, appurtenant work or works that violate the provisions of Chapter 373, Fla. Stat.

DISTRICT COURT OF APPEAL

8. Pursuant to Section 120.68, Fla. Stat., a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal pursuant to Florida Rule of Appellate Procedure 9.110 in the Fourth District Court of Appeal or in the appellate district where a party resides and filing a

second copy of the notice with the SFWMD Clerk within 30 days of rendering of the final SFWMD action.

LAND AND WATER ADJUDICATORY COMMISSION

9. A party to a "proceeding below" may seek review by the Land and Water Adjudicatory Commission (LAWAC) of SFWMD's final agency action to determine if such action is consistent with the provisions and purposes of Chapter 373, Fla. Stat. Pursuant to Section 373.114, Fla. Stat., and Rules 42-2.013 and 42-2.0132, Fla. Admin. Code, a request for review of (a) an order or rule of the SFWMD must be filed with LAWAC within 20 days after rendition of the order or adoption of the rule sought to be reviewed; (b) an order of the Department of Environmental Protection (DEP) requiring amendment or repeal of a SFWMD rule must be filed with LAWAC within 30 days of rendition of the DEP's order, and (c) a SFWMD order entered pursuant to a formal administrative hearing under Section 120.57(1), Fla. Stat., must be filed no later than 20 days after rendition of the SFWMD's final order. Simultaneous with filing, a copy of the request for review must be served on the DEP Secretary, any person named in the SFWMD or DEP final order, and all parties to the proceeding below. A copy of Rule 42-2.013, Fla. Admin. Code is attached to this Notice of Rights.

PRIVATE PROPERTY RIGHTS PROTECTION ACT

10. A property owner who alleges a specific action of the SFWMD has inordinately burdened an existing use of the real property, or a vested right to a specific use of the real property, may file a claim in the circuit court where the real property is located within 1 year of the SFWMD action pursuant to the procedures set forth in Subsection 70.001(4)(a), Fla. Stat.

LAND USE AND ENVIRONMENTAL DISPUTE RESOLUTION

11. A property owner who alleges that a SFWMD development order (as that term is defined in Section 70.51(2)(a), Fla. Stat. to include permits) or SFWMD enforcement action is unreasonable, or unfairly burdens the use of the real property, may file a request for relief with the SFWMD within 30 days of receipt of the SFWMD's order or notice of agency action pursuant to the procedures set forth in Subsections 70.51(4) and (6), Fla. Stat.

MEDIATION

12. A person whose substantial interests are, or may be, affected by the SFWMD's action may choose mediation as an alternative remedy under Section 120.573, Fla. Stat. Pursuant to Rule 28-106.111(2), Fla. Admin. Code, the petition for mediation shall be filed within 21 days of either written notice through mail or posting or publication of notice that the SFWMD has or intends to take final agency action. Choosing mediation will not adversely affect the right to an administrative hearing if mediation does not result in settlement.

Pursuant to Rule 28-106.402, Fla. Admin. Code, the contents of the petition for mediation shall contain the following information:

(1) the name, address, and telephone number of the person requesting mediation and that person's representative, if any;

(2) a statement of the preliminary agency action;

(3) an explanation of how the person's substantial interests will be affected by the agency determination; and

(4) a statement of relief sought.

As provided in Section 120.573, Fla. Stat. (1997), the timely agreement of all the parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57, Fla. Stat., for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within 60 days of the execution of the agreement. If mediation results in settlement of the dispute, the SFWMD must enter a final order incorporating the agreement of the parties. Persons whose substantial interest will be affected by such a modified agency decision have a right to petition for hearing within 21 days of receipt of the final order in accordance with the requirements of Sections 120.569 and 120.57, Fla. Stat., and SFWMD Rule 28-106.201(2), Fla. Admin. Code. If mediation terminates without settlement of the dispute, the SFWMD shall notify all parties in writing that the administrative hearing process under Sections 120.569 and 120.57, Fla. Stat., remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action.

VARIANCES AND WAIVERS

13. A person who is subject to regulation pursuant to a SFWMD rule and believes the application of that rule will create a substantial hardship or will violate principles of fairness (as those terms are defined in Subsection 120.542(2), Fla. Stat.) and can demonstrate that the purpose of the underlying statute will be or has been achieved by other means, may file a petition with the SFWMD Clerk requesting a variance from or waiver of the SFWMD rule. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have concerning the SFWMD's action. Pursuant to Rule 28-104.002(2), Fla. Admin. Code, the petition must include the following information:

(a) the caption shall read:

Petition for (Variance from) or (Waiver of) Rule (Citation)

(b) The name, address, telephone number and any facsimile number of the petitioner;

(c) The name, address telephone number and any facsimile number of the attorney or qualified representative of the petitioner, (if any);

(d) the applicable rule or portion of the rule;

(e) the citation to the statute the rule is implementing;

(f) the type of action requested;

(g) the specific facts that demonstrate a substantial hardship or violation of principals of fairness that would justify a waiver or variance for the petitioner;

(h) the reason why the variance or the waive requested would serve the purposes of the underlying statute; and

(i) a statement of whether the variance or waiver is permanent or temporary. If the variance or waiver is temporary, the petition shall include the dates indicating the duration of the requested variance or waiver.

A person requesting an emergency variance from or waiver of a SFWMD rule must clearly so state in the caption of the petition. In addition to the requirements of Section 120.542(5), Fla. Stat. pursuant to Rule 28-104.004(2), Fla. Admin. Code, the petition must also include:

a) the specific facts that make the situation an emergency; and

b) the specific facts to show that the petitioner will suffer immediate adverse effect unless the variance or waiver is issued by the SFWMD more expeditiously than the applicable timeframes set forth in Section 120.542, Fla. Stat.

WAIVER OF RIGHTS

14. Failure to observe the relevant time frames prescribed above will constitute a waiver of such right.

28-106.201 INITIATION OF PROCEEDINGS (INVOLVING DISPUTED ISSUES OF MATERIAL FACT)

(2) All petitions filed under these rules shall contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding, and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) A statement of when and how the petitioner received notice of the agency decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and

(f) A demand for relief.

28-106.301 INITIATION OF PROCEEDINGS (NOT INVOLVING DISPUTED ISSUES OF MATERIAL FACT)

(2) All petitions filed under these rules shall contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of

the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding, and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) A statement of when and how the petitioner received notice of the agency decision;

(d) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and

(e) A demand for relief.

40E-1.521 INITIATION OF FORMAL PROCEEDINGS

(1) Initiation of formal proceedings under Section 120.57(1) shall comply with the procedures set forth in rule 28-106.201, F.A.C.

(2) If a valid petition is filed, with the consent of all parties Board action on the petition pursuant to Section 120.57(1)(b) shall be waived.

(3) When a valid petition for administrative hearing has been filed, pursuant to Section 120.569, F.S., the Board action shall defer consideration of the matter pending the completion of the administrative hearing and the submittal of a recommended order, and any exceptions to that order.

28-107.004 SUSPENSION, REVOCATION, ANNULMENT, OR WITHDRAWAL

(3) Requests for hearing filed in accordance with this rule shall include:

(a) The name and address of the party making the request, for purposes of service;

(b) A statement that the party is requesting a hearing involving disputed issues of material fact, or a hearing not involving disputed issues of material fact; and

(c) A reference to the notice, order to show cause, administrative complaint, or other communication that the party has received from the agency.

42-2.013 REQUEST FOR REVIEW PURSUANT TO SECTION 373.114 OR 373.217

(1) In any proceeding arising under Chapter 373, F.S., review by the Florida Land and Water Adjudicatory Commission may be initiated by the Department or a party by filing a request for such review with the Secretary of the Commission and serving a copy on any person named in the rule or order, and on all parties to the proceeding which resulted in the order sought to be reviewed. A certificate of service showing completion of service as required by this subsection shall be a requirement for a determination of sufficiency under Rule 42-2.0132. Failure to file the request with the Commission within the time period provided in Rule 42-2.0132 shall result in dismissal of the request for review.

(2) The request for review shall identify the rule or order requested to be reviewed, the proceeding in which the rule or order was entered and the nature of the rule or order. A copy of the rule or order sought to be reviewed shall be

attached. The request for review shall state with particularity:

(a) How the order or rule conflicts with the requirements, provisions and purposes of Chapter 373, F.S., or rules duly adopted thereunder;

(b) How the rule or order sought to be reviewed affects the interests of the party seeking review;

(c) The oral or written statement, sworn or unsworn, which was submitted to the agency concerning the matter to be reviewed and the date and location of the statement, if the individual or entity requesting the review has not participated in a proceeding previously instituted pursuant to Chapter 120, F.S., on the order for which review is sought;

(d) If review of an order is being sought, whether and how the activity authorized by the order would substantially affect natural resources of statewide or regional significance, or whether the order raises issues of policy, statutory interpretation, or rule interpretation that have regional or statewide significance from a standpoint of agency precedent, and all the factual bases in the record which the petitioner claims support such determination(s); and

(e) The action requested to be taken by the Commission as a result of the review, whether to rescind or modify the order, or remand the proceeding to the water management district for further action, or to require the water management district to initiate rulemaking to adopt, amend or repeal a rule.

28-107.005 EMERGENCY ACTION

(1) If the agency finds that immediate serious danger to the public health, safety, or welfare requires emergency action, the agency shall summarily suspend, limit, or restrict a license.

(2) the 14-day notice requirement of Section 120.569(2)(b), F. S., does not apply and shall not be construed to prevent a hearing at the earliest time practicable upon request of an aggrieved party.

(3) Unless otherwise provided by law, within 20 days after emergency action taken pursuant to paragraph (1) of this rule, the agency shall initiate a formal suspension or revocation proceeding in compliance with Sections 120.569, 120.57, and 120.60, F.S.

40E-1.611 EMERGENCY ACTION

(1) An emergency exists when immediate action is necessary to protect public health, safety or welfare; the health of animals, fish or aquatic life; the works of the District; a public water supply, or recreational, commercial, industrial, agricultural or other reasonable uses of land and water resources.

(2) The Executive Director may employ the resources of the District to take whatever remedial action necessary to alleviate the emergency condition without the issuance of an emergency order, or in the event an emergency order has been issued, after the expiration of the requisite time for compliance with that order.



Rev: 9/99

SFWMD STANDARD PERMIT NO. 11178

(NON-ASSIGNABLE)

DATE ISSUED: OCTOBER 14, 1999

AUTHORIZING: NINE (9) SURFICIAL AQUIFER WATER SUPPLY WELLS WITH WELL VAULTS, RAW WATER TRANSMISSION MAIN, ELECTRICAL CONDUITS WITH CONDUCTORS, TWO (2) MASTER CONTROL PANELS WITH ASSOCIATED UTILITY TRANSFORMERS, TWO (2) RADIO ANTENNAS AND TEMPORARY INSTALLATION OF 2-72" CMP CULVERTS WITHIN THE NORTH RIGHT OF WAY OF THE HILLSBORO CANAL BEGINNING AT S.R. 7 WESTERLY APPROXIMATELY 2 MILES. (STATION 327+00 - 259+00).

LOCATED IN: PALM BEACH COUNTY, SECTION 35/36 TOWNSHIP 47S RANGE 41E

**ISSUED TO: PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
POST OFFICE BOX 16097
WEST PALM BEACH, FL 33416**

ATTENTION: GARY DERNLAN, DIRECTOR OF UTILITIES

This permit is issued pursuant to Application No. 99-0622-1 dated JUNE 22, 1999 and permittee's agreement to hold and save the South Florida Water Management District and its successors harmless from any and all damages, claims or liabilities which may arise by reason of the construction, maintenance or use of the work or structure involved in the Permit. Said application, including all plans and specifications attached thereto, is by reference made a part hereof. The permittee, by acceptance of this permit, hereby agrees that he/she shall promptly comply with all orders of the District and shall alter, repair or remove his/her use solely at his/her expense in a timely fashion. Permittee shall comply with all laws and rules administered by the District. This permit does not convey to permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation, or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit is issued by the District as a revocable license to use or occupy District works or lands. It does not create any right or entitlement, either legal or equitable, to the continued use of the District works or lands. Since this permit conveys no right to the continued use of the District works or lands, the District is under no obligation to transfer this permit to any subsequent party. By acceptance of this permit, the permittee expressly acknowledges that the permittee bears all risk of loss as a result of revocation of this permit.

WORK PROPOSED MUST BE COMPLETED ON OR BEFORE OCTOBER 31, 2001. Otherwise, this permit is void and all rights thereunder are automatically canceled unless permittee applies for, in writing, a request for extension to the construction period and such request is received by the District on or before the expiration date and such request is granted, in writing, by the District.

SPECIAL CONDITIONS (SPECIFIC PROJECT CONDITIONS) AND LIMITING CONDITIONS ON ATTACHED SHEETS ARE A PART OF THIS DOCUMENT.

FILED WITH THE CLERK OF THE SOUTH
FLORIDA WATER MANAGEMENT DISTRICT
ON October 27, 1999
BY [Signature]
Deputy Clerk

SOUTH FLORIDA WATER MANAGEMENT
DISTRICT, BY ITS GOVERNING BOARD
BY: [Signature]
Assistant Secretary
Acting in absence of Secretary

Return Receipt Requested/Certified No. Z 286 142 365

C: MAGGIE URUCINITZ
FORT LAUDERDALE FIELD STATION
(954) 452-4814, EXTENSION 4823



40E-6.381 LIMITING CONDITIONS

The District's authorization to utilize lands and other works constitutes a revocable license (including both notice general permits and standard permits). In consideration for receipt of that license, permittee shall agree to be bound by the following standard limiting conditions, which shall be included within all permits issued pursuant to this chapter:

(1) All structures on District works or lands constructed by permittee shall remain the property of permittee, who shall be solely responsible for ensuring that such structures and other uses remain in good and safe condition. Permittees are advised that other federal, state and local safety standards may govern the occupancy and use of the District's lands and works. The District assumes no duty with regard to ensuring that such uses are so maintained and assumes no liability with regard to injuries caused to others by any such failure.

(2) Permittee solely acknowledges and accepts the duty and all associated responsibilities to incorporate safety features, which meet applicable engineering practice and accepted industry standards, into the design, construction, operation and continued maintenance of the permitted facilities/authorized use. This duty shall include, but not be limited to, permittee's consideration of the District's regulation and potential fluctuation, without notice, of water levels in canals and works, as well as the permittee's consideration of upgrades and modifications to the permitted facilities/authorized use which may be necessary to meet any future changes to applicable engineering practice and accepted industry standards. Permittee acknowledges that the District's review and issuance of this permit, including, but not limited to, any field inspections performed by the District, does not in any way consider or ensure that the permitted facilities/authorized use is planned, designed, engineered, constructed, or will be operated, maintained or modified so as to meet applicable engineering practice and accepted industry standards, or otherwise provide any safety protections. Permittee further acknowledges that any inquiries, discussions, or representations, whether verbal or written, by or with any District staff or representative during the permit review and issuance process, including, but not limited to, any field inspections, shall not in any way be relied upon by permittee as the District's assumption of any duty to incorporate safety features, as set forth above, and shall also not be relied upon by permittee in order to meet permittee's duty to incorporate safety features, as set forth above.

(3) Permittee agrees to abide by all of the terms and conditions of this permit, including any representations made on the permit application and related documents. This permit shall be subject to the requirements of Chapter 373, F.S., and Chapter 40E-6, F.A.C., including all subsequent rule and criteria revisions. Permittee agrees to pay all removal and restoration costs, investigative costs, court costs and reasonable attorney's fees, including appeals, resulting from any action taken by the District to obtain compliance with the conditions of the permit or removal of the permitted use. If District legal action is taken by staff counsel, "reasonable attorney's fees" is understood to mean the fair market value of the services provided, based upon what a private attorney would charge.

(4) This permit does not create any vested rights, and except for governmental entities and utilities, is revocable at will upon reasonable prior written notice. Permittee bears all risk of loss as to monies expended in furtherance of the permitted use. Upon revocation, the permittee shall promptly modify, relocate or remove the permitted use and properly restore the right of way to the District's satisfaction. In the event of failure to so comply within the specified time, the District may remove the permitted use and permittee shall be responsible for all removal and restoration costs.

(5) This permit does not convey any property rights nor any rights or privileges other than those specified herein and this permit shall not, in any way, be construed as an abandonment or any other such impairment or disposition of the District's property rights. The District approves the permitted use only to the extent of its interest in the works of the District. Permittee shall obtain all other necessary federal, state, local, special district and private authorizations prior to the start of any construction or alteration authorized by the permit. Permittee shall comply with any more stringent conditions or provisions which may be set forth in other required permits or other authorizations. The District, however, assumes no duty to ensure that any such authorizations have been obtained or to protect the legal rights of the underlying fee owner, in those instances where the District owns less than fee.

(6) Unless specifically prohibited or limited by statute, Permittee agrees to indemnify, defend and save the District (which used herein includes the District and its past, present and future employees, agents, representatives, officers and Governing Board members and any of their successors and assigns) from and against any and all lawsuits, actions, claims, demands, losses, expenses, costs, attorneys fees (including but not limited to the fair market value of the District's inhouse attorneys' fees based upon private attorneys' fees/rates), judgments and liabilities which arise from or may be related to the ownership, construction, maintenance or operation of the permitted use or the possession, utilization, maintenance, occupancy or ingress and egress of the District's right of way which arise directly or indirectly and/or are caused in whole or in part by the acts, omissions or negligence of the District or of third parties. Permittee agrees to provide legal counsel acceptable to the District if requested for the defense of any such claims.

(7) The District does not waive sovereign immunity in any respect.

(8) The permittee shall not engage in any activity regarding the permitted use which interferes with the construction, alteration, maintenance or operation of the works of the District, including:

(a) discharge of debris or aquatic weeds into the works of the District;

(b) causing erosion or shoaling within the works of the District;

(c) planting trees or shrubs or erecting structures which limit or prohibit access by District equipment and vehicles, except as may be authorized by the permit.

Permittee shall be responsible for any costs incurred by the District resulting from any such interference, as set forth in (a), (b), and (c), above:

(d) leaving construction or other debris on the District's right of way or waterway;

(e) damaging District berms and levees:

(a) the removal of District owned spoil material;

(b) removal of or damage to District locks, gates, and fencing.



40E-6.381 LIMITING CONDITIONS

- (c) opening of District rights of way to unauthorized vehicular access; or
(d) running or allowing livestock on the District's right of way.
- (9) The District is not responsible for any personal injury or property damage which may directly or indirectly result from the use of water from the District's canal or any activities which may include use or contact with water from the District's canal, since the District periodically sprays its canals for aquatic weed control purposes and uses substances which may be harmful to human health or plant life.
- (10) Permittee shall allow the District to inspect the permitted use at any reasonable time.
- (11) Permittee shall allow, without charge or any interference, the District, its employees, agents, and contractors, to utilize the permitted facilities before, during and after construction for the purpose of conducting the District's, routine and emergency, canal operation, maintenance, and construction activities. To the extent there is any conflicting use, the District's use shall have priority over the permittee's use.
- (12) This permit is a non-exclusive revocable license. Permittee shall not interfere with any other existing or future permitted uses or facilities authorized by the District.
- (13) The District has the right to change, regulate, limit, schedule, or suspend discharges into, or withdrawals from, works of the District in accordance with criteria established by the Big Cypress Basin, the District, or the U. S. Army Corps of Engineers for the works of the District.
- (14) If the use involves the construction of facilities for a non exempt water withdrawal or surface water discharge, the applicant must apply for and obtain a water use or surface water management permit before or concurrently with any activities which may be conducted pursuant to the right of way occupancy permit.
- (15) The District shall notify the local ad valorem taxing authority of the lands affected by the permitted use, where the permittee owns the underlying fee and derives a substantial benefit from the permitted use. The taxing authority may reinstate such lands on the tax roll. Failure to pay all taxes in a timely manner shall result in permit revocation. Such permit revocation shall not alleviate the responsibility of the permittee to pay all taxes due and payable.
- (16) Permittee shall provide prior written notice to their successors in title of the permit and its terms and conditions.
- (17) Permittee shall record a Notice of Permit through filing the appropriate notice agreed to by the District in the public records of the county or counties where the project is located and by providing the District with proof of filing or through an equivalent procedure. All costs associated with this requirement shall be the responsibility of the permittee. Governmental entities and utilities are not subject to this provision.
- (18) This permit is contingent upon compliance with the recording of the Notice of Permit. Failure to provide proof of the recording of the Notice of Permit will result in the permit becoming invalid on its own terms, the removal of any existing facilities within the right of way, restoration of the right of way to the District's satisfaction, at the permittee's expense, and the possible assessment of civil penalties.
- (19) Permittee shall be responsible for the repair or replacement of any existing facilities located within the District's right of way which are damaged as a result of the installation or maintenance of the authorized facility.
- (20) All obligations under the terms of this permit authorization and any subsequent modifications hereto shall be joint and several as to all owners.
- (21) It is the responsibility of the permittee to make prospective bidders aware of the terms and conditions of this permit. It shall be the responsibility of the permittee's contractors to understand the terms and conditions of this permit and govern themselves accordingly.
- (22) It is the responsibility of the permittee to bring to the attention of the District any conflict in the permit authorization or permit conditions in order that they may be resolved prior to the start of construction. In resolving such conflicts the District's determination will be final.
- Specific Authority 373.044, 373.113 F.S. Law Implemented Chapters 373.085(1), 373.086, 373.103, 373.109, 373.129, 373.1395, 373.603, 373.609, 373.613 F.S. History—New 9-3-81, Amended 5-30-82, 12-29-86, 12-24-91, 9-15-99 Formerly 16K-5.01(2), 16K-5.02(2), 16K-5.03(2), 16K-5.04(4), 16K-5.05, 40E-6.381.

PERMIT NUMBER 11178
OCTOBER 14, 1999

SPECIAL CONDITIONS ARE AS FOLLOWS:

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION OR UTILIZATION OF THE DISTRICT'S RIGHT OF WAY, THE PERMITTEE IS REQUIRED TO CONTACT THE DISTRICT'S FIELD REPRESENTATIVE LISTED ON THE FACE OF THIS PERMIT AND SCHEDULE A PRE-CONSTRUCTION MEETING. PERMITTEE SHALL PREPARE AND PRESENT AT THE PRE-CONSTRUCTION MEETING:
 - A. A LIST OF 24 HOUR CONTACT PERSONNEL. THE LIST SHALL INCLUDE THE CONTRACTOR AND DESIGNER, THEIR TITLES AND TELEPHONE NUMBERS FOR OFFICE, MOBILE, BEEPER, HOME OR LOCAL RESIDENCE.
 - B. A WRITTEN INVENTORY OF THE TYPE OF VEHICLES, CONSTRUCTION EQUIPMENT, OTHER MACHINERY AND MATERIALS WHICH WILL BE LOCATED WITHIN THE DISTRICT'S RIGHT OF WAY DURING ALL PHASES OF THE PROJECT.
 - C. WRITTEN PROCEDURES FOR THE CLEARING OF ALL CONSTRUCTION MATERIALS, MACHINERY, EQUIPMENT AND VEHICLES FROM THE CANAL AND THE AREA IMMEDIATELY ADJACENT TO THE CANAL WITHIN 24 HOURS NOTICE FROM THE DISTRICT.
 - D. A LIST CONTAINING THE NAMES AND CONTACT NUMBERS OF THE INDIVIDUALS RESPONSIBLE FOR THE VARIOUS OPERATIONS INVOLVED IN THE CLEAR PROCEDURES.
2. THE AUTHORIZED BURIED FACILITIES LOCATED WITHIN THE DISTRICT'S RIGHT OF WAY MUST PROVIDE A MINIMUM OF 2' OF COVER BELOW THE EXISTING GROUND ELEVATION. VAULTS AND MANHOLES, ETC., IF APPLICABLE, SHALL BE INSTALLED SO THE TOP OF THE FACILITY IS SET FLUSH WITH EXISTING GROUND AND IN SUCH A MANNER SO AS TO WITHSTAND THE WEIGHT OF THE DISTRICT'S HEAVY MAINTENANCE EQUIPMENT AND VEHICLES.
3. THE PERMITTEE SHALL BACKFILL THE TRENCH IN 6" COMPACTED LIFTS.
4. PERMANENT LINE MARKERS PLACED WITHIN THE DISTRICT'S RIGHT OF WAY SHALL BE SET FLUSH WITH EXISTING GROUND AT LOCATIONS DETERMINED BY THE DISTRICT'S AREA FIELD REPRESENTATIVE.
5. WITHIN THIRTY (30) DAYS OF COMPLETION OF INSTALLATION OF THE AUTHORIZED FACILITY, THE PERMITTEE SHALL PROVIDE THE DISTRICT WITH AS-BUILT DRAWINGS SIGNED AND SEALED BY A FLORIDA PROFESSIONAL ENGINEER.

PERMIT NUMBER 11178
OCTOBER 14, 1999

SPECIAL CONDITIONS ARE AS FOLLOWS:

6. PERMITTEE SHALL CONTACT MR. PHIL VALLIER, REGIONAL OPERATION AND MAINTENANCE DIRECTOR OF THE DISTRICT'S FT. FIELD STATION (954) 452-4814, EXT. 4820 OR MR. MIKE MASSA, ASSISTANT REGIONAL OPERATION AND MAINTENANCE DIRECTOR OF THE DISTRICT'S FT. LAUDERDALE FIELD STATION (954) 452-4814, EXT. 4821 TO ADDRESS THE SCHEDULING OF THE INSTALLATION/REMOVAL OF THE 72" CMP'S LOCATED AT APPROXIMATE STATION 303+00 - 303+12 AND TO DISCUSS THE POSSIBLE PERMANENT INSTALLATION OF ONE OR BOTH OF THE 72" CMP'S. SHOULD INSTALLATION OF THE CULVERTS RESULT IN UPSTREAM FLOODING OR OTHER ADVERSE IMPACTS THE DISTRICT RETAINS THE RIGHT TO ORDER THE REMOVAL OF THE CULVERTS AT ANY TIME DURING THE PERMITTEE'S CONSTRUCTION ACTIVITY.
7. PERMITTEE SHALL PRIOR TO WELL PUMPING, PROVIDE TO THIS OFFICE CERTIFIED CROSS-SECTIONS OF THE EXISTING CANAL CHANNEL AT THE POINT OF WELL TEST WATER DISCHARGE SITES. CERTIFIED CROSS-SECTIONS OF THE CANAL SHALL BE TAKEN AT THE CENTERLINE OF THE PROPOSED WORK AND AT LOCATIONS SPECIFIED BY THE DISTRICT. CROSS-SECTIONS SHALL BE TAKEN PERPENDICULAR TO THE CENTERLINE OF THE CHANNEL AND SOUNDINGS TAKEN AT A MAXIMUM OF 10 FOOT INTERVALS, FROM TOP OF BANK TO TOP OF BANK AND TIED INTO THE CANAL RIGHTS OF WAY LINES.
8. THE CROSS-SECTIONS MUST BE PLOTTED ON STANDARD 10 X 10 CROSS-SECTION PAPER OR A SIMILAR CAD DRAWING, INCLUDE THE DISTRICT'S RIGHTS OF WAY LINES AND NORTH ARROW. MEAN SEA LEVEL (MSL) OR NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929) WILL BE USED AS DATUM AND ENGLISH OR A COMBINATION OF ENGLISH AND EQUIVALENT METRIC UNITS OR MEASURE EMPLOYED. THE EXISTING CROSS-SECTIONAL AREA BELOW THE DESIGN WATER SURFACE SHALL BE ACCURATELY CALCULATED BY THE APPLICANT AND PRINTED ON OR ADJACENT TO EACH CROSS-SECTION.
9. PERMITTEE SHALL ALSO SUBMIT WITHIN THIRTY (30) DAYS AFTER PUMP TESTING IS COMPLETE, POST-PUMPING CERTIFIED CANAL CROSS-SECTIONS IN THE VICINITY OF THE TEST WATER DISCHARGE SITES. IF ANY SHOALING HAS OCCURRED IT WILL BE THE PERMITTEE'S RESPONSIBILITY TO REMOVE SHOALING WITHIN THIRTY (30) DAYS AFTER NOTIFICATION BY THE DISTRICT.
10. PERMITTEE AND/OR ITS CONTRACTOR SHALL MAINTAIN DISTRICT ACCESS AT ALL TIMES ALONG THE NORTH RIGHT OF WAY OF THE HILLSBORO CANAL WITHIN THE PROJECT LIMITS. IF DISTRICT ACCESS IS TO BE IMPEDED OR ALTERED AT ANY TIME, IT WILL BE NECESSARY FOR THE PERMITTEE AND/OR ITS CONTRACTOR TO RECEIVE PRIOR WRITTEN APPROVAL FROM THIS DISTRICT.

PERMIT NUMBER 11178
OCTOBER 14, 1999

SPECIAL CONDITIONS ARE AS FOLLOWS:

11. IN THIS REGARD, IT WILL BE NECESSARY FOR THE PERMITTEE AND/OR ITS' CONTRACTOR TO PROVIDE A DETAILED SCHEDULE OF EVENTS OUTLINING WHAT ACTIVITIES WILL IMPEDE DISTRICT ACCESS AND FOR WHAT PERIOD OF TIME DISTRICT ACCESS WOULD BE BLOCKED.
12. PERMITTEE IS HEREBY NOTIFIED THAT SUCH REQUEST MAY NOT BE GRANTED BY THE DISTRICT, IF SUCH CLOSURE INTERFERES WITH THE DISTRICT'S OPERATION AND MAINTENANCE ACTIVITIES. PLEASE CONTACT MS. MAGGIE URUCINITZ REGARDING ANY ACCESS RESTRICTIONS.
13. PRIOR TO DRILLING AND LAYOUT OF MUD PITS, PERMITTEE AND/OR ITS CONTRACTOR SHALL SUBMIT DRAWINGS TO THIS OFFICE DEPICTING THE PROPOSED WORK PLANS FOR EACH SITE FOR APPROVAL. THE PROPOSED MUD PIT LOCATIONS MUST BE LOCATED A MINIMUM OF 40 FEET FROM THE TOP OF THE CANAL BANK.
14. PERMITTEE AND/OR ITS CONTRACTOR SHALL REMOVE ALL MUD AND CUTTINGS FROM THE DISTRICT'S RIGHT OF WAY AND DISPOSE OF SAME AT AN APPROVED DISPOSAL SITE ONCE DRILLING OPERATIONS ARE COMPLETE. MUD PITS WILL BE RESTORED BY BACKFILLING, COMPACTING AND SEEDING OR SODDING TO THE SATISFACTION OF THE DISTRICT. ADJACENT AREAS IMPACTED BY THE OPERATION OF DRILLING EQUIPMENT OR LAYING PIPING OR CABLES SHALL LIKEWISE BE RESTORED TO THE DISTRICT'S SATISFACTION.
15. PERMITTEE AND/OR ITS CONTRACTOR IS AUTHORIZED TO DISCHARGE WATER ONLY FOR WELL DEVELOPMENT AND START-UP PUMPING AND THEN ONLY BY MEANS OF PIPING TO THE DISCHARGE POINT. NO OVERLAND FLOWS ARE AUTHORIZED. THIS OPERATION SHALL BE APPROVED FOR A SHORT TERM PERIOD ONLY. SHOULD ABOVE-GRADE PIPING BE NECESSARY FOR DISCHARGE PUMPING (GREATER THAN 24 HOURS), IT WILL BE NECESSARY TO CONTACT MS. MAGGIE URUCINITZ FOR PRIOR TO PUMPING ACTIVITIES.
16. PERMITTEE AND/OR ITS CONTRACTOR SHALL SUBMIT TO THIS DISTRICT FOR REVIEW AND APPROVAL, A VEGETATION IMPACT PLAN WHICH IDENTIFIES THOSE SPECIES (NATIVE AND EXOTIC) THAT WILL BE IMPACTED BY CONSTRUCTION OF THE PROJECT, AND AN ACCOMPANYING MITIGATION PLAN TO OFFSET THE LOSS OR RELOCATION OF NATIVE SPECIES.
17. PERMITTEE AND/OR ITS CONTRACTOR SHALL COORDINATE THE PROPOSED PROJECT WITH THE PERSONNEL OF THE DISTRICT'S FT. LAUDERDALE FIELD STATION CONCERNING CONSTRUCTION LAYOUT, ACCESS AND MINIMIZING ENCROACHMENTS INTO THE DISTRICT'S RIGHT OF WAY. PLEASE CONTACT MS. MAGGIE URUCINITZ, AT (954) 452-4814, EXTENSION 4823 TO SCHEDULE A SITE MEETING.

PERMIT NUMBER 11178
OCTOBER 14, 1999

SPECIAL CONDITIONS ARE AS FOLLOWS:

18. PERMITTEE IS REMINDED THAT BY UTILIZING A LAYOUT THAT IS NOT IMMEDIATELY ADJACENT TO THE DISTRICT RIGHT OF WAY LINE THAT IT ASSUMES A GREATER RISK OF RELOCATION OF ITS FACILITIES IF FUTURE WIDENING OR OTHER IMPROVEMENT TO THE HILLSBORO CANAL IS NEEDED. ANY NECESSARY RELOCATIONS SHALL BE AT THE PERMITTEE'S SOLE EXPENSE AND SHALL BE PROMPTLY ACCOMPLISHED UPON NOTIFICATION BY THE DISTRICT.
19. ALL PERMANENT PIPING AND CABLING WITHIN THE DISTRICT'S RIGHT OF WAY SHALL HAVE A MINIMUM BURIAL DEPTH OF 2'.
20. PERMITTEE SHALL DESIGNATE A CONTACT PERSON TO WHICH ANY NEIGHBOR INQUIRIES AND COMPLAINTS CAN BE REFERRED.
21. NO VEHICULAR MAINTENANCE/REPAIR ACTIVITIES OR SUBSTANCES OR PATS ASSOCIATED WITH THE REPAIR OR MAINTENANCE OF VEHICLES/EQUIPMENT WILL TAKE PLACE, BE USED, STORED OR DISCARDED WITHIN THE RIGHT OF WAY NOR SHALL THE DISTRICT'S RIGHT OF WAY BE USED FOR STORAGE OR PARKING OF EQUIPMENT, ASSOCIATED MACHINERY OR CONSTRUCTION TRAILERS, UNLESS PRIOR WRITTEN AUTHORIZATION IS GRANTED BY THE DISTRICT.
22. PERMITTEE IS RESPONSIBLE FOR PROVIDING AND UTILIZING ACCEPTABLE DUST CONTROL MEASURES DURING THE DURATION OF THIS PERMIT.
23. THE PERMITTEE IS PUT ON NOTICE THAT THE DISTRICT HAS NO CONTROL OVER THE SALE OR TRANSFER OF REAL OR PERSONAL PROPERTY. THEREFORE, IT IS THE SOLE OBLIGATION OF A PERMITTEE TO DISCLOSE THE EXISTENCE OF A RIGHT OF WAY OCCUPANCY PERMIT, ITS TERMS AND CONDITIONS TO PROSPECTIVE PURCHASERS. UPON CONVEYANCE OF THE PROPERTY, THE NEW OWNER MUST SUBMIT A WRITTEN REQUEST THAT THE DISTRICT TRANSFER THE PERMIT INTO HIS/HER NAME(S).
24. THE PERMITTEE SHALL HAVE A COPY OF THIS PERMIT AVAILABLE ON-SITE DURING INSTALLATION.

END



Form #0122
Rev. 4/93
(RC-1)

APPLICATION NUMBER

99-0622-1
(DO NOT WRITE IN THIS BLOCK)

Application to the South Florida Water Management District For Authority to Utilize Works or Land of the District

—To Be Accompanied by 3 Copies of a Drawing of the Proposal—

SECTION 1

Applicant's Name Palm Beach County Water Utilities Department
Applicant's Address P.O. Box 16097, West Palm Beach, FL 33416-6097
Applicant's Telephone Numbers 641-3429 (Day) N/A (Evening)
Name of Person Filing Application Gary Dernlan, Director of Utilities
Address of Person Filing Application P.O. Box 16097, West Palm Beach, FL 33416-6097
Telephone Numbers of Person Filing Application 641-3429 (Day) N/A (Evening)

SECTION 2

LOCATION OF PROJECT:

Work or Land Involved Hillsboro Canal County Palm Beach
Section(s) 35 and 36 Township(s) 47 South, Range(s) 41 East
Lot N/A Block N/A Subdivision N/A

SECTION 3

DESCRIPTION OF PROJECT:

- Boat Dock
- Utility Line Installation
- CATV Line Installation
- Beautification
- Other (Describe Fully) Nine (9) surficial aquifer water supply wells with well vaults, raw water transmission mains, electrical conduits with conductors, and electrical/instrumentation control panels.
- Domestic Irrigation Line
- Other Water Withdrawal Connection
- Drainage Connection

Anticipated Start Date if Other than Date of Approval 9/15/99

Anticipated Completion Date 12/31/00

In compliance with provisions of Chapter 373, Florida Statutes and Chapter 40E-6, Florida Administrative Code, application is hereby made for an occupancy permit in accordance with support drawings, data and incidental information filed with this application and made a part of this application. I hereby certify that all information contained in or made a part hereof is true and correct to the best of my knowledge, and acknowledge that any permit issued shall require that the permitted use be constructed and operated in accordance with such information. I further certify that I have read the "Standard Limiting Conditions" appearing on the reverse side and understand that said conditions will be incorporated within any permit issued pursuant to this application, unless expressly waived by the Governing Board. I further acknowledge that the Governing Board may incorporate additional special conditions as may be necessary in the best interest of the District.

Palm Beach County Water Utilities Dept.

Gary Dernlan, Director of Utilities

Applicant's Name (Print or Type)

Agent's Name (Print or Type)

Owner's Signature

Gary Dernlan, Director of Utilities

I Hereby Certify that I am an Authorized Agent for the Owner

Date

Date

SECTION 4



40E-6.381 LIMITING CONDITIONS

The District's authorization to utilize lands and other works constitutes a revocable license (including both notice general permits and standard permits). In consideration for receipt of that license, permittee shall agree to be bound by the following standard limiting conditions, which shall be included within all permits issued pursuant to this chapter:

(1) All structures on District works or lands constructed by permittee shall remain the property of permittee, who shall be solely responsible for ensuring that such structures and other uses remain in good and safe condition. Permittees are advised that other federal, state and local safety standards may govern the occupancy and use of the District's lands and works. The District assumes no duty with regard to ensuring that such uses are so maintained and assumes no liability with regard to injuries caused to others by any such failure.

(2) Permittee solely acknowledges and accepts the duty and all associated responsibilities to incorporate safety features, which meet applicable engineering practice and accepted industry standards, into the design, construction, operation and continued maintenance of the permitted facilities/authorized use. This duty shall include, but not be limited to, permittee's consideration of the District's regulation and potential fluctuation, without notice, of water levels in canals and works, as well as the permittee's consideration of upgrades and modifications to the permitted facilities/authorized use which may be necessary to meet any future changes to applicable engineering practice and accepted industry standards. Permittee acknowledges that the District's review and issuance of this permit, including, but not limited to, any field inspections performed by the District, does not in any way consider or ensure that the permitted facilities/authorized use is planned, designed, engineered, constructed, or will be operated, maintained or modified so as to meet applicable engineering practice and accepted industry standards, or otherwise provide any safety protections. Permittee further acknowledges that any inquiries, discussions, or representations, whether verbal or written, by or with any District staff or representative during the permit review and issuance process, including, but not limited to, any field inspections, shall not in any way be relied upon by permittee as the District's assumption of any duty to incorporate safety features, as set forth above, and shall also not be relied upon by permittee in order to meet permittee's duty to incorporate safety features, as set forth above.

(3) Permittee agrees to abide by all of the terms and conditions of this permit, including any representations made on the permit application and related documents. This permit shall be subject to the requirements of Chapter 373, F.S., and Chapter 40E-6, F.A.C., including all subsequent rule and criteria revisions. Permittee agrees to pay all removal and restoration costs, investigative costs, court costs and reasonable attorney's fees, including appeals, resulting from any action taken by the District to obtain compliance with the conditions of the permit or removal of the permitted use. If District legal action is taken by staff counsel, "reasonable attorney's fees" is understood to mean the fair market value of the services provided, based upon what a private attorney would charge.

(4) This permit does not create any vested rights, and except for governmental entities and utilities, is revocable at will upon reasonable prior written notice. Permittee bears all risk of loss as to monies expended in furtherance of the permitted use. Upon revocation, the permittee shall promptly modify, relocate or remove the permitted use and properly restore the right of way to the District's satisfaction. In the event of failure to so comply within the specified time, the District may remove the permitted use and permittee shall be responsible for all removal and restoration costs.

(5) This permit does not convey any property rights nor any rights or privileges other than those specified herein and this permit shall not, in any way, be construed as an abandonment or any other such impairment or disposition of the District's property rights. The District approves the permitted use only to the extent of its interest in the works of the District. Permittee shall obtain all other necessary federal, state, local, special district and private authorizations prior to the start of any construction or alteration authorized by the permit. Permittee shall comply with any more stringent conditions or provisions which may be set forth in other required permits or other authorizations. The District, however, assumes no duty to ensure that any such authorizations have been obtained or to protect the legal rights of the underlying fee owner, in those instances where the District owns less than fee.

(6) Unless specifically prohibited or limited by statute, Permittee agrees to indemnify, defend and save the District (which used herein includes the District and its past, present and future employees, agents, representatives, officers and Governing Board members and any of their successors and assigns) from and against any and all lawsuits, actions, claims, demands, losses, expenses, costs, attorneys fees (including but not limited to the fair market value of the District's inhouse attorneys' fees based upon private attorneys' fees/rates), judgments and liabilities which arise from or may be related to the ownership, construction, maintenance or operation of the permitted use or the possession, utilization, maintenance, occupancy or ingress and egress of the District's right of way which arise directly or indirectly and/or are caused in whole or in part by the acts, omissions or negligence of the District or of third parties. Permittee agrees to provide legal counsel acceptable to the District if requested for the defense of any such claims.

(7) The District does not waive sovereign immunity in any respect.

(8) The permittee shall not engage in any activity regarding the permitted use which interferes with the construction, alteration, maintenance or operation of the works of the District, including:

(a) discharge of debris or aquatic weeds into the works of the District;

(b) causing erosion or shoaling within the works of the District;

(c) planting trees or shrubs or erecting structures which limit or prohibit access by District equipment and vehicles, except as may be authorized by the permit.

Permittee shall be responsible for any costs incurred by the District resulting from any such interference, as set forth in (a), (b), and (c), above.

(d) leaving construction or other debris on the District's right of way or waterway.

(e) damaging District berms and levees

(a) the removal of District owned spoil material.

(b) removal of or damage to District locks gates and fencing



40E-6.381 LIMITING CONDITIONS

- (c) opening of District rights of way to unauthorized vehicular access; or
 - (d) running or allowing livestock on the District's right of way.
 - (9) The District is not responsible for any personal injury or property damage which may directly or indirectly result from the use of water from the District's canal or any activities which may include use or contact with water from the District's canal, since the District periodically sprays its canals for aquatic weed control purposes and uses substances which may be harmful to human health or plant life.
 - (10) Permittee shall allow the District to inspect the permitted use at any reasonable time.
 - (11) Permittee shall allow, without charge or any interference, the District, its employees, agents, and contractors, to utilize the permitted facilities before, during and after construction for the purpose of conducting the District's, routine and emergency, canal operation, maintenance, and construction activities. To the extent there is any conflicting use, the District's use shall have priority over the permittee's use.
 - (12) This permit is a non-exclusive revocable license. Permittee shall not interfere with any other existing or future permitted uses or facilities authorized by the District.
 - (13) The District has the right to change, regulate, limit, schedule, or suspend discharges into, or withdrawals from, works of the District in accordance with criteria established by the Big Cypress Basin, the District, or the U. S. Army Corps of Engineers for the works of the District.
 - (14) If the use involves the construction of facilities for a non exempt water withdrawal or surface water discharge, the applicant must apply for and obtain a water use or surface water management permit before or concurrently with any activities which may be conducted pursuant to the right of way occupancy permit.
 - (15) The District shall notify the local ad valorem taxing authority of the lands affected by the permitted use, where the permittee owns the underlying fee and derives a substantial benefit from the permitted use. The taxing authority may reinstate such lands on the tax roll. Failure to pay all taxes in a timely manner shall result in permit revocation. Such permit revocation shall not alleviate the responsibility of the permittee to pay all taxes due and payable.
 - (16) Permittee shall provide prior written notice to their successors in title of the permit and its terms and conditions.
 - (17) Permittee shall record a Notice of Permit through filing the appropriate notice agreed to by the District in the public records of the county or counties where the project is located and by providing the District with proof of filing or through an equivalent procedure. All costs associated with this requirement shall be the responsibility of the permittee. Governmental entities and utilities are not subject to this provision.
 - (18) This permit is contingent upon compliance with the recording of the Notice of Permit. Failure to provide proof of the recording of the Notice of Permit will result in the permit becoming invalid on its own terms, the removal of any existing facilities within the right of way, restoration of the right of way to the District's satisfaction, at the permittee's expense, and the possible assessment of civil penalties.
 - (19) Permittee shall be responsible for the repair or replacement of any existing facilities located within the District's right of way which are damaged as a result of the installation or maintenance of the authorized facility.
 - (20) All obligations under the terms of this permit authorization and any subsequent modifications hereto shall be joint and several as to all owners.
 - (21) It is the responsibility of the permittee to make prospective bidders aware of the terms and conditions of this permit. It shall be the responsibility of the permittee's contractors to understand the terms and conditions of this permit and govern themselves accordingly.
 - (22) It is the responsibility of the permittee to bring to the attention of the District any conflict in the permit authorization or permit conditions in order that they may be resolved prior to the start of construction. In resolving such conflicts the District's determination will be final.
- Specific Authority 373.044, 373.113 F.S. Law Implemented Chapters 373.085(1), 373.086, 373.103, 373.109, 373.129, 373.1395, 373.603, 373.609, 373.613 F.S. History—New 9-3-81, Amended 5-30-82, 12-29-86, 12-24-91, 9-15-99 Formerly 16K-5.01(2), 16K-5.02(2), 16K-5.03(2), 16K-5.04(4), 16K-5.05, 40E-6.381.



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June 21, 1999

Water Utilities Department
Engineering

P.O. Box 16097

West Palm Beach, FL 33416-6097

(561) 641-3429

FAX: (561) 641-3447

<http://www.co.palm-beach.fl.us>

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Construction and Land Management Dept.
Right-of-Way Division
P.O. Box 24680
West Palm Beach, FL 33416-4680

Re: Application for SFWMD
Right of Way Occupancy Permit
(WUD Project No. 98-66)

To Whom It May Concern:

The attached permit application and fee is for the proposed installation of nine (9) surficial aquifer water supply wells within the north right-of-way of the Hillsboro Canal, together with associated well vaults, raw water transmission mains, control panels, power supply conduit and conductors, and control conduit and conductors. The following generally describes the improvements proposed for installation and addresses other issues of concern relative to construction and long-term maintenance of the proposed improvements.

INDIVIDUAL WELL SITES:

Nine (9) production wells are proposed as shown on the attached drawing. Each well shall include the following:

Inner casing diameter: 16"
Outer casing diameter: 30"
Estimated cased depth: 80' - 100'
Estimated screened depth: 30' - 40'
Estimated total depth: 110' - 140'
Capacity per well: 1,050 gpm
Well site dimensions: 40' x 30'
Well vault dimensions: 12' x 8'
Electrical disconnect switch
Electrical and instrumentation junction boxes
By-pass/flush piping with splash pad and guard post

Palm Beach County
Board of County
Commissioners

Burt Aaronson, Chairman

Maude Ford Lee, Vice Chair

Karen T. Marcus

Carol A. Roberts

Warren H. Newell

Mary McCarty

Ken L. Foster

County Administrator

Robert Weisman, P.E.

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RAW WATER TRANSMISSION PIPING:

A raw water transmission main will be installed parallel to the Hillsboro Canal right of way. A 10-inch ductile iron pipe will extend from each well vault and connect each well to the raw water transmission main. An 8-inch ductile iron pipe will extend above ground immediately adjacent to the well vault to permit flushing of each well on an as needed basis.

The burial depth of all raw water transmission piping will be 3.5 feet or greater. The diameter of the transmission piping will vary from 24-inches at the western most wells to 36-inches at the State Road 7 right-of-way. The main will be constructed of either ductile iron pipe (DIP) or prestressed concrete cylinder pipe (PCCP) and will be installed in a manner that will not limit or adversely affect the District's normal use and maintenance of the right of way. At approximate Station 335+40 the raw water transmission main departs the SFWMD right-of-way and continues northward within the State Road 7 right-of-way.

A subaqueous pipe crossing will be made at the existing drainage tributary that connects to the Hillsboro Canal at Station 303+00, approximately 3,300 feet west of State Road 7. The crossing will have a minimum of 3 feet of cover below the existing bottom elevation of the drainage ditch.

POWER SUPPLY:

A master control panel (MCP) will be situated at each of the following three (3) locations:

1. Within the District right-of-way immediately adjacent to the west right-of-way of State Road 7. This MCP will supply power and control conductors to proposed wells 17, 18, 19 and 20.
2. Within the SFWMD right-of-way immediately adjacent to the east line of the FPL overhead power line corridor. This MCP will supply power and control conductors to proposed wells 21, 22 and 23.



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3. Within the SFWMD right-of-way immediately adjacent to the west line of the FPL overhead power line corridor. This MCP will supply power and control conductors to proposed wells 24, 25 and the future ASR well that is proposed west of well 25.

The site of each master control panel will include the following:

- Motor starters for well pumps and sump pumps
- Instrumentation/control sub-panel with master RTU
- Concrete electrical pads with guard posts
- FPL pad mounted electrical transformer
- FPL high voltage power feed to each transformer from existing FPL overhead power lines.

Florida Power and Light (FPL) electrical service will be provided from existing overhead power lines at each of the three locations. The four proposed well sites located east of the drainage tributary at Station 303+00 will be supplied with electrical power from the FPL overhead power lines on State Road 7. The five proposed well sites and the future ASR well situated west of the drainage tributary at Station 303+00 will be supplied with electrical power from the existing overhead power lines in the FPL power line corridor.

A power service drop to an electrical transformer will be made at each of the three MCP locations described above. Underground conduits routed from each MCP will deliver power to each well vault. Underground conduits supply power to the submersible well pump motors, well vault sump pump motors, and well control sub-panels.

ELECTRICAL AND CONTROL CONDUITS:

A network of direct burial PVC conduits varying in size from 2" to 4" will be installed parallel to the Hillsboro Canal right of way. The conduits will be constructed 6-8 feet north of the proposed raw water transmission main and will have a burial depth of not less than 30-inches. The conduits will be used to route 480 volt electrical conductors for power supply to both well pumps and sump pumps, as well as low voltage 4-20ma instrumentation conductors for operational control and monitoring of each well. The conduits and conductors will be run from the three master control panels to each well site.



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MISCELLANEOUS IMPROVEMENTS:

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Passive Beautification:

No native landscaping or screening is proposed around the perimeter of each well site at this time. Areas disturbed around each well site and along the raw water transmission main route will be restored with sod or seed and mulch using native bahia grass.

Irrigation Lines and Sprinkler Systems:

No irrigation lines or sprinkler systems are proposed at the well sites at this time.

Fences and Gates:

The well sites are not proposed to be fenced. The three electrical control panels will have a lockable stainless steel outer housing to prevent public access and protective concrete bollards surrounding the concrete foundation slab of each control panel. Each well vault will have a traffic-rated aluminum access hatch. The access hatches will be lockable to prevent public access.

CONSTRUCTION ISSUES:

Adjacent property owners will be notified of the proposed work by regular mail as part of a public outreach program by PBCWUD. Attached is a draft copy of a letter to be sent to the property owners prior to commencing with construction.

Well Drilling:

Prolonged drilling is not anticipated. Each well will require approximately 10 days of drilling time for installation of the 30" outer surface casing, 16" inner well casing, associated pilot boreholes, and cement grout seal. This is based on a 10-hour work day (from 8:00 AM to 6:00 PM). Weather permitting, all drilling activity is expected to be complete in 3-4 months.



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All wells will be drilled by the reverse air method. A copy of the construction details and technical specifications for drilling and testing of the wells is attached hereto for informational purposes.

Disposal of Water During Drilling:

Water produced during drilling will be directed to temporary mud pits within the Hillsboro Canal right-of-way immediately adjacent to each well site. The mud pits will provide for settlement of drilling mud and percolation of water produced during drilling into the ground on the canal bank. The mud pits will be filled in and the areas disturbed during drilling restored to original condition.

Disposal of Water From Well Development and Testing:

Water produced during air-lift development, pump surging development, constant rate pump testing, and step-rate pump testing of each well will be discharged directly into the Hillsboro Canal. Temporary above ground piping will be installed to direct the water into the canal. Care will be taken to ensure that the discharge will not cause runoff on the canal side-slope. Any significant accumulation of formation sand from well development will be excavated from the canal prior to completion of construction. Upon completion of well development and pump testing the temporary piping will be removed.

ACCESS TO SFWMD R.O.W.:

PBCWUD was previously issued a Key Permit for access to the District's right of way (SFWMD Key Permit No. 1240). The keys are for official use only and will not be used for recreational purposes.

Access to the Hillsboro Canal right-of-way during construction will be from State Road 7. Heavy construction equipment, including but not limited to drill rigs, backhoes, front-end loaders, and dump trucks will be utilized to construct the project. Temporary corrugated metal pipe (CMP) culverts will be installed in the drainage ditch at approximate Station 303+00 to provide the construction equipment with unrestricted access to the well sites situated west of the ditch. Two culverts, each 72" in diameter, will be installed to maintain drain flow to the Hillsboro Canal. Upon completion of the raw water main and

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well construction, the culverts will be removed and the ditch excavated to the original cross section that existed prior to construction, or to an alternate cross section if specifically requested by the SFWMD.

MAINTENANCE AND TESTING ISSUES:

Well Testing During Construction (by the Drilling Contractor):

1. Collection of geologic formation samples at 5-foot intervals and at all changes in formation for the purpose of preparing lithologic log descriptions of the subsurface geologic conditions encountered.
2. Collection of a pilot hole water sample from the estimated total depth of each proposed well. Samples will be analyzed for primary and secondary drinking water standards.
3. Geophysical logging of each pilot hole including caliper, natural gamma ray, spontaneous potential and normal resistivity logs.
4. Perform a 4-hour step-drawdown test on each well at pumping rates varying between 500 and 2,000 gpm
5. Perform an 8-hour constant rate pumping test on each well at 1,500 gpm.
6. Collection of a water sample from the completed well for analysis of primary and secondary drinking water standards as required by the Palm Beach County Public Health Unit (PBCPHU). A screening for the presence or absence of dioxin will also be performed as required by the Palm Beach County Department of Environmental Resources Management (PBCDERM).
7. Collection of two water samples per day over ten consecutive days for bacteriological clearance as required by the Palm Beach County Public Health Unit (PBCPHU).



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Routine Well Testing After Construction (by PBCWUD):

1. Annual water sample collection for primary and secondary drinking water analysis as required by the Palm Beach County Public Health Unit (PBCPHU).
2. Monthly testing for pumped well drawdown and specific capacity.
3. Periodic water sample collection on an as needed basis for bacteriological analysis.

All routine well testing and sample collection will be performed by PBCWUD personnel. Vehicles used for such testing will be no larger than a ½-ton four-wheel drive pick-up truck.

Periodic Well Maintenance (by PBCWUD):

Periodic maintenance performed on an as needed basis includes removal and replacement of submersible well pumps, removal and replacement of well vault sump pumps, removal and replacement of well column pipe, repair of electrical and control panels, repair and calibration of miscellaneous wellhead instruments, air-lift development, etc. This routine periodic maintenance will be performed by County personnel.

Most of the periodic well maintenance items require specialized vehicles and equipment such as boom trucks, air compressors, etc.

Special Well Maintenance and Rehabilitation:

Maintenance and rehabilitation procedures performed approximately every five (5) years include acidization, high-level disinfection, and pressure jetting. This work is typically performed by a specialty well rehabilitation company under contract with Palm Beach County.

Many of the special well maintenance and rehabilitation procedures described herein require specialized vehicles and equipment such as boom trucks, water trucks, drilling rigs, etc.



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Well Abandonment (if necessary):

The production wells are intended to remain in perpetuity. If at any time it is determined that the wells must be abandoned, such abandonment shall be performed in accordance with SFWMD rules and Chapter 40E-3.531 F.A.C. This includes removal of the well vault and all other above ground improvements, removal of the upper six feet of both inner and outer casing, and filling of the remaining casing with cement grout. Areas disturbed will be restored to original condition or better by placement of compacted fill to match the surrounding grade, and placement of seed and mulch for soil stabilization and erosion control.

EXISTING PERMITTED IMPROVEMENTS TO REMAIN:

Four deep monitor wells installed under SFWMD Permit No. 10895 will remain. The monitor wells will be used to measure groundwater drawdown during pump testing of individual and multiple production wells. The data obtained will be used for hydrogeologic modeling purposes.

FUTURE AQUIFER STORAGE AND RECOVERY (ASR) WELL:

An agreement between Palm Beach County and SFWMD for the construction and testing of a raw groundwater ASR system was recently approved by the Board of County Commissioners on May 18, 1999. Formal approval by the SFWMD Governing Board will occur in the near future.

Up to five of the nine proposed new surficial aquifer production wells to be constructed along the Hillsboro Canal will be made available as a source of raw water supply to the ASR well. The remaining four surficial aquifer wells will be dedicated for the supply of raw water to the County's Water Treatment Plant #9.

A preliminary site for the ASR well is indicated on Sheet 2 of the drawings and is shown to be approximately 100 feet west of proposed surficial aquifer well 9W-25. The final location of the ASR well may be different than that shown on the drawings due to design requirements or other issues of concern relative to siting of the well. A separate right-of-way occupancy permit application will be submitted to the District in the future for the proposed ASR well. The application will also address one or two upper floridan aquifer

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monitoring wells, and necessary wellhead and surface equipment required for operation of the ASR system.

Enclosed are one (1) original signed Application for Authority to Utilize Works or Land of the District, one original and two copies of this letter (9 pages) with attachments, three (3) copies of design drawings for the water supply well installations (as prepared by Montgomery Watson), three (3) sets of design drawings showing the proposed raw water transmission main (as prepared by PBCWUD), and three (3) copies of the technical specifications for installation of the water supply wells (as prepared by Montgomery Watson). All of the improvements are to be constructed within the north right-of-way of the Hillsboro Canal west of State Road 7.

Also enclosed is a check in the amount of \$1,550.00 for the SFWMD permit application fee. Due to the extent, magnitude, and permanent nature of the proposed facilities, it is assumed that the application and fee is for an Individual Major Project pursuant to SFWMD Permit Information Manual, Volume V.

If you have any questions or require additional information, please call the undersigned at (561) 434-5356.

Sincerely,

A handwritten signature in black ink that reads "Paul D. Feldman". The signature is written in a cursive style with a long horizontal line extending to the right.

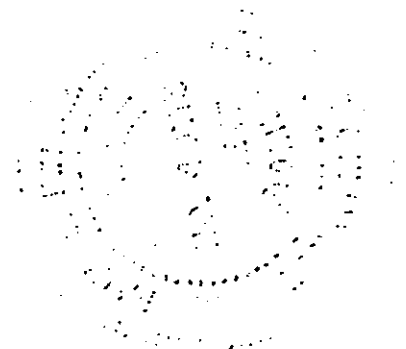
Paul Feldman, P.E.
WUD Engineering Division

6/17/99

PF/dw

Enclosure(s)

cc: C. Lawton McCall, PBCWUD
Eugenia Carey, PBCWUD
Fred Rapach, PBCWUD
Bill Cocke, PBCWUD
Tom Traina, P.E. (MW/L.W.)
Mark Abbott, P.G. (MW/TPA)



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JUN 22 1999

DRAFT

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DIVISION

August ____, 1999

PROPERTY OWNER NAME
MAILING ADDRESS
CITY, STATE, ZIP

Dear Property Owner:

Over the next year, the Palm Beach County Water Utilities Department (PBCWUD) will be constructing an important water resources development project within the north right-of-way of the Hillsboro Canal west of State Road 7. The project involves the construction of nine (9) water supply wells, water transmission mains, and underground power lines. These wells are needed to supply water to a new water treatment plant that PBCWUD is constructing east of State Road 7 at our existing plant site within the Sandalfoot Cove development.

Construction of the nine wells and underground power lines is scheduled to begin in early September. After completion of the wells, the water transmission main will be constructed. Please note that one of the water supply wells may be located in the area behind your property, within the Hillsboro Canal right-of-way owned by the South Florida Water Management District. To minimize the visual impact of the wells, they will be situated inside a concrete vault. Only the top 2-3 inches of the vault will be visible above ground.

Altogether, construction is expected to take 12-15 months to complete. During that time, there will be periods when well drilling and construction equipment will be working in the canal right-of-way directly behind your house. Please note that the project is designed to not require the removal or relocation of any existing fences or sheds that some residents have built within the canal right-of-way. However, please understand that the removal of some trees is unavoidable and will be necessary to construct the project.

We appreciate your patience and understanding while this work is performed. If you have any questions or would like to speak to someone about the project, please call the undersigned at 561-434-5356.

Sincerely,

Paul Feldman, P.E.
Water Utilities Department
Engineering Division

PF/dw

cc: C. Lawton McCall

98-66 B ASK Permit



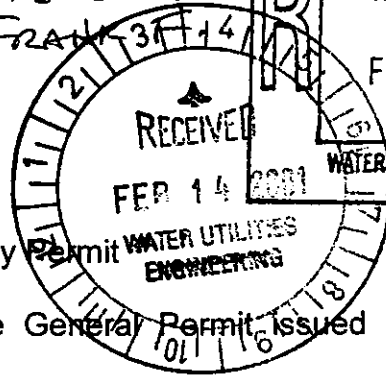
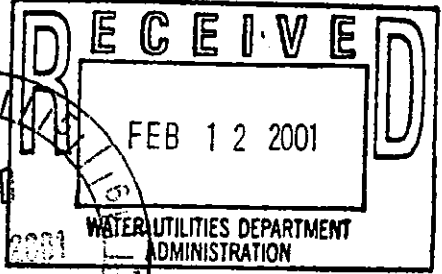
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

3301 Gun Club Road, West Palm Beach, Florida 33406 • (561) 686-8800 • FL WATS 1-800-432-2045 • TDD (561) 697-2574
Mailing Address: P.O. Box 24680, West Palm Beach, FL 33416-4680 • www.sfwmd.gov

ORIGINAL TO STEVE K.

CC: STEVE M.
FRANK

WRO
1010



Dear Permittee:

Subject: Issuance of Right of Way Occupancy Permit

Enclosed please find the Right of Way Notice General Permit issued pursuant to application for permit.

Your attention is directed to review the terms, Limiting Conditions, Special Conditions and drawings contained in the Right of Way Occupancy Permit.

Should you object to the terms, Limiting or Special Conditions, please refer to the enclosed "Notice of Rights" which addresses the procedures to be followed should you desire a public hearing or other review of the agency action.

Please note that you must notify the District of any objections in accordance with the procedures set forth in the "Notice of Rights". If an objection is not filed as specified in the "Notice of Rights", prior to construction of the authorized facilities or uses, in addition to waiving important legal administrative rights, such will infer to District staff that you concur with the District's actions.

Please contact this office should you have any questions or require assistance on this matter.

I HEREBY CERTIFY that a "Notice of Rights" has been furnished by Certified U.S. Mail to the Permittee.

Laura A. Lythgoe

Laura A. Lythgoe
Right of Way Division
Water Resource Operations

/ss
Enclosures

GOVERNING BOARD

Michael Collins, *Chairman*
Michael D. Minton, *Vice Chairman*
Mitchell W. Berger

Vera M. Carter
Gerardo B. Fernandez
Patrick J. Gleason

Nicolas J. Gutierrez, Jr.
Harkley R. Thornton
Trudi K. Williams

EXECUTIVE OFFICE

Frank R. Finch, P.E., *Executive Director*
James E. Blount, *Chief of Staff*

NOTICE OF RIGHTS

Section 120.569(1), Fla. Stat. (1999), requires that "each notice shall inform the recipient of any administrative hearing or judicial review that is available under this section, s. 120.57, or s. 120.68; shall indicate the procedure which must be followed to obtain the hearing or judicial review, and shall state the time limits which apply." Please note that this Notice of Rights is not intended to provide legal advice. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

Petition for Administrative Proceedings

1. A person whose substantial interests are affected by the South Florida Water Management District's (SFWMD) action has the right to request an administrative hearing on that action. The affected person may request either a formal or an informal hearing, as set forth below. A point of entry into administrative proceedings is governed by Rules 28-106.111 and 40E-1.511, Fla. Admin. Code, (also published as an exception to the Uniform Rules of Procedure as Rule 40E-0.109), as set forth below. Petitions are deemed filed upon receipt of the original documents by the SFWMD Clerk.

a. Formal Administrative Hearing: If a genuine issue(s) of material fact is in dispute, the affected person seeking a formal hearing on a SFWMD decision which does or may determine their substantial interests shall file a petition for hearing pursuant to Sections 120.569 and 120.57(1), Fla. Stat. or for mediation pursuant to Section 120.573, Fla. Stat. within 21 days, except as provided in subsections c. and d. below, of either written notice through mail or posting or publication of notice that the SFWMD has or intends to take final agency action. Petitions must substantially comply with the requirements of Rule 28-106.201(2), Fla. Admin. Code, a copy of the which is attached to this Notice of Rights.

b. Informal Administrative Hearing: If there are no issues of material fact in dispute, the affected person seeking an informal hearing on a SFWMD decision which does or may determine their substantial interests shall file a petition for hearing pursuant to Sections 120.569 and 120.57(2), Fla. Stat. or for mediation pursuant to Section 120.573, Fla. Stat. within 21 days, except as provided in subsections c. and d. below, of either written notice through mail or posting or publication of notice that the SFWMD has or intends to take final agency action. Petitions must substantially comply with the requirements of Rule 28-106.301(2), Fla. Admin. Code, a copy of the which is attached to this Notice of Rights.

c. Administrative Complaint and Order: If a Respondent objects to a SFWMD Administrative Complaint and Order, pursuant to Section 373.119, Fla. Stat. (1997), the person named in the Administrative Complaint and Order may file a petition for a hearing no later than 14 days after the date such order is served. Petitions must substantially comply with the requirements of either subsection a. or b. above.

d. State Lands Environmental Resource Permit: Pursuant to Section 373.427, Fla. Stat., and Rule 40E-1.511(3), Fla. Admin. Code (also published as an exception to the Uniform Rules of Procedure as Rule 40E-0.109(2)(c)), a petition objecting to the SFWMD's agency action regarding consolidated applications for Environmental Resource Permits and Use of Sovereign Submerged Lands (SLERPs), must be filed within 14 days of the notice of consolidated intent to grant or deny the SLERP. Petitions must substantially comply with the requirements of either subsection a. or b. above.

e. Emergency Authorization and Order: A person whose substantial interests are affected by a SFWMD Emergency Authorization and Order, has a right to file a petition under Sections 120.569, 120.57(1), and 120.57(2), Fla. Stat., as provided in subsections a. and b. above. However, the person, or the agent of the person responsible for causing or contributing to the emergency conditions shall take whatever action necessary to cause immediate compliance with the terms of the Emergency Authorization and Order.

f. Order for Emergency Action: A person whose substantial interests are affected by a SFWMD Order for Emergency Action has a right to file a petition pursuant to Rules 28-107.005 and 40E-1.611, Fla. Admin. Code, copies of which are attached to this Notice of Rights, and Section 373.119(3), Fla. Stat., for a hearing on the Order. Any subsequent agency action or proposed agency action to initiate a formal revocation proceeding shall be separately noticed pursuant to section g. below.

g. Permit Suspension, Revocation, Annulment, and Withdrawal: If the SFWMD issues an administrative complaint to suspend, revoke, annul, or withdraw a permit, the permittee may request a hearing to be conducted in accordance with Sections 120.569 and 120.57, Fla. Stat., within 21 days of either written notice through mail or posting or publication of notice that the SFWMD has or intends to take final agency action. Petitions must substantially comply with the requirements of Rule 28-107.004(3), Fla. Admin. Code, a copy of the which is attached to this Notice of Rights.

2. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the SFWMD's final action may be different from the position taken by it previously. Persons whose substantial interests may be affected by

any such final decision of the SFWMD shall have, pursuant to Rule 40E-1.511(2), Fla. Admin. Code (also published as an exception to the Uniform Rules of Procedure as Rule 40E-0.109(2)(c)), an additional 21 days from the date of receipt of notice of said decision to request an administrative hearing. However, the scope of the administrative hearing shall be limited to the substantial deviation.

3. Pursuant to Rule 40E-1.511(4), Fla. Admin. Code, substantially affected persons entitled to a hearing pursuant to Section 120.57(1), Fla. Stat., may waive their right to such a hearing and request an informal hearing before the Governing Board pursuant to Section 120.57(2), Fla. Stat., which may be granted at the option of the Governing Board.

4. Pursuant to Rule 28-106.111(3), Fla. Admin. Code, persons may file with the SFWMD a request for extension of time for filing a petition. The SFWMD, for good cause shown, may grant the extension. The request for extension must contain a certificate that the petitioner has consulted with all other parties, if any, concerning the extension and that the SFWMD and all other parties agree to the extension.

CIRCUIT COURT

5. Pursuant to Section 373.617, Fla. Stat., any substantially affected person who claims that final agency action of the SFWMD relating to permit decisions constitutes an unconstitutional taking of property without just compensation may seek judicial review of the action in circuit court by filing a civil action in the circuit court in the judicial circuit in which the affected property is located within 90 days of the rendering of the SFWMD's final agency action.

6. Pursuant to Section 403.412, Fla. Stat., any citizen of Florida may bring an action for injunctive relief against the SFWMD to compel the SFWMD to enforce the laws of Chapter 373, Fla. Stat., and Title 40E, Fla. Admin. Code. The complaining party must file with the SFWMD Clerk a verified complaint setting forth the facts upon which the complaint is based and the manner in which the complaining party is affected. If the SFWMD does not take appropriate action on the complaint within 30 days of receipt, the complaining party may then file a civil suit for injunctive relief in the 15th Judicial Circuit in and for Palm Beach County or circuit court in the county where the cause of action allegedly occurred.

7. Pursuant to Section 373.433, Fla. Stat., a private citizen of Florida may file suit in circuit court to require the abatement of any stormwater management system, dam, impoundment, reservoir, appurtenant work or works that violate the provisions of Chapter 373, Fla. Stat.

DISTRICT COURT OF APPEAL

8. Pursuant to Section 120.68, Fla. Stat., a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal pursuant to Florida Rule of Appellate Procedure 9.110 in the Fourth District Court of Appeal or in the appellate district where a party resides and filing a second copy of the notice with the SFWMD Clerk within 30 days of rendering of the final SFWMD action.

LAND AND WATER ADJUDICATORY COMMISSION

9. A party to a "proceeding below" may seek review by the Land and Water Adjudicatory Commission (FLAWAC) of SFWMD's final agency action to determine if such action is consistent with the provisions and purposes of Chapter 373, Fla. Stat. Pursuant to Section 373.114, Fla. Stat., and Rules 42-2.013 and 42-2.0132, Fla. Admin. Code, a request for review of (a) an order or rule of the SFWMD must be filed with FLAWAC within 20 days after rendition of the order or adoption of the rule sought to be reviewed; (b) an order of the Department of Environmental Protection (DEP) requiring amendment or repeal of a SFWMD rule must be filed with FLAWAC within 30 days of rendition of the DEP's order, and (c) a SFWMD order entered pursuant to a formal administrative hearing under Section 120.57(1), Fla. Stat., must be filed no later than 20 days after rendition of the SFWMD's final order. Simultaneous with filing, a copy of the request for review must be served on the DEP Secretary, any person named in the SFWMD or DEP final order, and all parties to the proceeding below. A copy of Rule 42-2.013, Fla. Admin. Code is attached to this Notice of Rights.

PRIVATE PROPERTY RIGHTS PROTECTION ACT

10. A property owner who alleges a specific action of the SFWMD has inordinately burdened an existing use of the real property, or a vested right to a specific use of the real property, may file a claim in the circuit court where the real property is located within 1 year of the SFWMD action pursuant to the procedures set forth in Subsection 70.001(4)(a), Fla. Stat.

LAND USE AND ENVIRONMENTAL DISPUTE RESOLUTION

11. A property owner who alleges that a SFWMD development order (as that term is defined in Section 70.51(2)(a), Fla. Stat. to include permits) or SFWMD enforcement action is unreasonable, or unfairly burdens the use of the real property, may file a request for relief with the SFWMD within 30 days of receipt of the SFWMD's order or notice of agency action pursuant to the procedures set forth in Subsections 70.51(4) and (6), Fla. Stat.

MEDIATION

12. A person whose substantial interests are, or may be, affected by the SFWMD's action may choose mediation as an alternative remedy under Section 120.573, Fla. Stat. Pursuant to Rule 28-106.111(2), Fla. Admin. Code, the petition for mediation shall be filed within 21 days of either written notice through mail or posting or

publication of notice that the SFWMD has or intends to take final agency action. Choosing mediation will not affect the right to an administrative hearing if mediation does not result in settlement.

Pursuant to Rule 28-106.402, Fla. Admin. Code, the contents of the petition for mediation shall contain the following information:

- (1) the name, address, and telephone number of the person requesting mediation and that person's representative, if any;
- (2) a statement of the preliminary agency action;
- (3) an explanation of how the person's substantial interests will be affected by the agency determination; and
- (4) a statement of relief sought.

As provided in Section 120.573, Fla. Stat. (1997), the timely agreement of all the parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57, Fla. Stat., for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within 60 days of the execution of the agreement. If mediation results in settlement of the dispute, the SFWMD must enter a final order incorporating the agreement of the parties. Persons whose substantial interest will be affected by such a modified agency decision have a right to petition for hearing within 21 days of receipt of the final order in accordance with the requirements of Sections 120.569 and 120.57, Fla. Stat., and SFWMD Rule 28-106.201(2), Fla. Admin. Code. If mediation terminates without settlement of the dispute, the SFWMD shall notify all parties in writing that the administrative hearing process under Sections 120.569 and 120.57, Fla. Stat., remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action.

VARIANCES AND WAIVERS

13. A person who is subject to regulation pursuant to a SFWMD rule and believes the application of that rule will create a substantial hardship or will violate principles of fairness (as those terms are defined in Subsection 120.542(2), Fla. Stat.) and can demonstrate that the purpose of the underlying statute will be or has been achieved by other means, may file a petition with the SFWMD Clerk requesting a variance from or waiver of the SFWMD rule. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have concerning the SFWMD's action. Pursuant to Rule 28-104.002(2), Fla. Admin. Code, the petition must include the following information:

- (a) the caption shall read:
Petition for (Variance from) or (Waiver of) Rule (Citation)
- (b) The name, address, telephone number and any facsimile number of the petitioner;

- (c) The name, address telephone number and any facsimile number of the attorney or qualified representative of the petitioner, (if any);

- (d) the applicable rule or portion of the rule;

- (e) the citation to the statute the rule is implementing;

- (f) the type of action requested;

- (g) the specific facts that demonstrate a substantial hardship or violation of principals of fairness that would justify a waiver or variance for the petitioner;

- (h) the reason why the variance or the waiver requested would serve the purposes of the underlying statute; and

- (i) a statement of whether the variance or waiver is permanent or temporary. If the variance or waiver is temporary, the petition shall include the dates indicating the duration of the requested variance or waiver.

A person requesting an emergency variance from or waiver of a SFWMD rule must clearly so state in the caption of the petition. In addition to the requirements of Section 120.542(5), Fla. Stat. pursuant to Rule 28-104.004(2), Fla. Admin. Code, the petition must also include:

- a) the specific facts that make the situation an emergency; and

- b) the specific facts to show that the petitioner will suffer immediate adverse effect unless the variance or waiver is issued by the SFWMD more expeditiously than the applicable timeframes set forth in Section 120.542, Fla. Stat.

WAIVER OF RIGHTS

14. Failure to observe the relevant time frames prescribed above will constitute a waiver of such right.

28-106.201 INITIATION OF PROCEEDINGS (INVOLVING DISPUTED ISSUES OF MATERIAL FACT)

(2) All petitions filed under these rules shall contain:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;

- (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding, and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

- (c) A statement of when and how the petitioner received notice of the agency decision;

- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

- (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and

- (f) A demand for relief.

28-106.301 INITIATION OF PROCEEDINGS
(NOT INVOLVING DISPUTED ISSUES OF MATERIAL FACT)

- (2) All petitions filed under these rules shall contain:
- (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding, and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
 - (c) A statement of when and how the petitioner received notice of the agency decision;
 - (d) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and
 - (e) A demand for relief.

28-107.004 SUSPENSION, REVOCATION, ANNULMENT, OR WITHDRAWAL

- (3) Requests for hearing filed in accordance with this rule shall include:
- (a) The name and address of the party making the request, for purposes of service;
 - (b) A statement that the party is requesting a hearing involving disputed issues of material fact, or a hearing not involving disputed issues of material fact; and
 - (c) A reference to the notice, order to show cause, administrative complaint, or other communication that the party has received from the agency.

42-2.013 REQUEST FOR REVIEW PURSUANT TO SECTION 373.114 OR 373.217

(1) In any proceeding arising under Chapter 373, F.S., review by the Florida Land and Water Adjudicatory Commission may be initiated by the Department or a party by filing a request for such review with the Secretary of the Commission and serving a copy on any person named in the rule or order, and on all parties to the proceeding which resulted in the order sought to be reviewed. A certificate of service showing completion of service as required by this subsection shall be a requirement for a determination of sufficiency under Rule 42-2.0132. Failure to file the request with the Commission within the time period provided in Rule 42-2.0132 shall result in dismissal of the request for review.

(2) The request for review shall identify the rule or order requested to be reviewed, the proceeding in which the rule or order was entered and the nature of the rule or order. A copy of the rule or order sought to be reviewed shall be attached. The request for review shall state with particularity:

- (a) How the order or rule conflicts with the requirements, provisions and purposes of Chapter 373, F.S., or rules duly adopted thereunder;

(b) How the rule or order sought to be reviewed affects the interests of the party seeking review;

(c) The oral or written statement, sworn or unsworn, which was submitted to the agency concerning the matter to be reviewed and the date and location of the statement, if the individual or entity requesting the review has not participated in a proceeding previously instituted pursuant to Chapter 120, F.S., on the order for which review is sought;

(d) If review of an order is being sought, whether and how the activity authorized by the order would substantially affect natural resources of statewide or regional significance, or whether the order raises issues of policy, statutory interpretation, or rule interpretation that have regional or statewide significance from a standpoint of agency precedent, and all the factual bases in the record which the petitioner claims support such determination(s); and

(e) The action requested to be taken by the Commission as a result of the review, whether to rescind or modify the order, or remand the proceeding to the water management district for further action, or to require the water management district to initiate rulemaking to adopt, amend or repeal a rule.

28-107.005 EMERGENCY ACTION

(1) If the agency finds that immediate serious danger to the public health, safety, or welfare requires emergency action, the agency shall summarily suspend, limit, or restrict a license.

(2) the 14-day notice requirement of Section 120.569(2)(b), F. S., does not apply and shall not be construed to prevent a hearing at the earliest time practicable upon request of an aggrieved party.

(3) Unless otherwise provided by law, within 20 days after emergency action taken pursuant to paragraph (1) of this rule, the agency shall initiate a formal suspension or revocation proceeding in compliance with Sections 120.569, 120.57, and 120.60, F.S.

40E-1.611 EMERGENCY ACTION

(1) An emergency exists when immediate action is necessary to protect public health, safety or welfare; the health of animals, fish or aquatic life; the works of the District; a public water supply, or recreational, commercial, industrial, agricultural or other reasonable uses of land and water resources.

(2) The Executive Director may employ the resources of the District to take whatever remedial action necessary to alleviate the emergency condition without the issuance of an emergency order, or in the event an emergency order has been issued, after the expiration of the requisite time for compliance with that order.



SFWMD NOTICE GENERAL PERMIT NO. MOD 11178

(NON-ASSIGNABLE)

DATE ISSUED: FEBRUARY 6, 2001

AUTHORIZING: AN ADDITIONAL FLORIDAN AQUIFER STORAGE AND RECOVERY WELL (ASR) AND FLORIDAN AQUIFER MONITORING WELL, RAW WATER TRANSMISSION MAIN WITH BURIED CONTROL PANELS AND POWER SUPPLY CONDUIT, LIFT STATION, 20" OUTFALL CULVERT, VEGETATIVE MITIGATION AREA AND A TEMPORARY WOODEN FENCE WITHIN THE SOUTH RIGHT OF WAY OF THE HILLSBORO CANAL LOCATED APPROXIMATELY 6,800' WEST OF STATE ROAD 7.

LOCATED IN: PALM BEACH COUNTY, SECTION 35 TOWNSHIP 47S RANGE 41E

**ISSUED TO: PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
2065 PRAIRIE ROAD
WEST PALM BEACH, FL 33406**

ATTENTION: GARY D. DERNLAN, P.E., DIR. OF WATER UTILITIES

This permit is issued pursuant to Application No. 01-0102-1M dated JANUARY 2001 and permittee's agreement to hold and save the South Florida Water Management District and its successors harmless from any and all damages, claims or liabilities which may arise by reason of the construction, maintenance or use of the work or structure involved in the Permit. Said application, including all plans and specifications attached thereto, is by reference made a part hereof. The permittee, by acceptance of this permit, hereby agrees that he/she shall promptly comply with all orders of the District and shall alter, repair or remove his/her use solely at his/her expense in a timely fashion. Permittee shall comply with all laws and rules administered by the District. This permit does not convey to permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation, or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit is issued by the District as a revocable license to use or occupy District works or lands. It does not create any right or entitlement, either legal or equitable, to the continued use of the District works or lands. Since this permit conveys no right to the continued use of the District works or lands, the District is under no obligation to transfer this permit to any subsequent party. By acceptance of this permit, the permittee expressly acknowledges that the permittee bears all risk of loss as a result of revocation of this permit.

WORK PROPOSED MUST BE COMPLETED ON OR BEFORE FEBRUARY 28, 2002. Otherwise, this permit is void and all rights thereunder are automatically canceled unless permittee applies for, in writing, a request for extension to the construction period and such request is received by the District on or before the expiration date and such request is granted, in writing, by the District.

SPECIAL CONDITIONS (SPECIFIC PROJECT CONDITIONS) AND LIMITING CONDITIONS ON ATTACHED SHEETS ARE A PART OF THIS DOCUMENT.

FILED WITH THE CLERK OF THE SOUTH
FLORIDA WATER MANAGEMENT DISTRICT,

ON February 6, 2001

BY [Signature]
Deputy Clerk

BY: [Signature]
Joseph W. Taylor, Deputy Executive Director
Water Resource Operations

Return Receipt Requested/Certified No. 7000 0600 0025 9430 0873

C: JOSE VARON
FORT LAUDERDALE FIELD STATION
(954) 452-4814 EXTENSION 4822



40E-6.381 LIMITING CONDITIONS

The District's authorization to utilize lands and other works constitutes a revocable license (including both notice general permits and standard permits). In consideration for receipt of that license, permittee shall agree to be bound by the following standard limiting conditions, which shall be included within all permits issued pursuant to this chapter:

(1) All structures on District works or lands constructed by permittee shall remain the property of permittee who shall be solely responsible for ensuring that such structures and other uses remain in good and safe condition. Permittees are advised that other federal, state and local safety standards may govern the occupancy and use of the District's lands and works. The District assumes no duty with regard to ensuring that such uses are so maintained and assumes no liability with regard to injuries caused to others by any such failure.

(2) Permittee solely acknowledges and accepts the duty and all associated responsibilities to incorporate safety features, which meet applicable engineering practice and accepted industry standards, into the design, construction, operation and continued maintenance of the permitted facilities/authorized use. This duty shall include, but not be limited to, permittee's consideration of the District's regulation and potential fluctuation, without notice, of water levels in canals and works, as well as the permittee's consideration of upgrades and modifications to the permitted facilities/authorized use which may be necessary to meet any future changes to applicable engineering practice and accepted industry standards. Permittee acknowledges that the District's review and issuance of this permit, including, but not limited to, any field inspections performed by the District, does not in any way consider or ensure that the permitted facilities/authorized use is planned, designed, engineered, constructed, or will be operated, maintained or modified so as to meet applicable engineering practice and accepted industry standards, or otherwise provide any safety protections. Permittee further acknowledges that any inquiries, discussions, or representations, whether verbal or written, by or with any District staff or representative during the permit review and issuance process, including, but not limited to, any field inspections, shall not in any way be relied upon by permittee as the District's assumption of any duty to incorporate safety features, as set forth above, and shall also not be relied upon by permittee in order to meet permittee's duty to incorporate safety features, as set forth above.

(3) Permittee agrees to abide by all of the terms and conditions of this permit, including any representations made on the permit application and related documents. This permit shall be subject to the requirements of Chapter 373, F.S., and Chapter 40E-6, F.A.C., including all subsequent rule and criteria revisions. Permittee agrees to pay all removal and restoration costs, investigative costs, court costs and reasonable attorney's fees, including appeals, resulting from any action taken by the District to obtain compliance with the conditions of the permit or removal of the permitted use. If District legal action is taken by staff counsel, "reasonable attorney's fees" is understood to mean the fair market value of the services provided, based upon what a private attorney would charge.

(4) This permit does not create any vested rights, and except for governmental entities and utilities, is revocable at will upon reasonable prior written notice. Permittee bears all risk of loss as to monies expended in furtherance of the permitted use. Upon revocation, the permittee shall promptly modify, relocate or remove the permitted use and properly restore the right of way to the District's satisfaction. In the event of failure to so comply within the specified time, the District may remove the permitted use and permittee shall be responsible for all removal and restoration costs.

(5) This permit does not convey any property rights nor any rights or privileges other than those specified herein and this permit shall not, in any way, be construed as an abandonment or any other such impairment or disposition of the District's property rights. The District approves the permitted use only to the extent of its interest in the works of the District. Permittee shall obtain all other necessary federal, state, local, special district and private authorizations prior to the start of any construction or alteration authorized by the permit. Permittee shall comply with any more stringent conditions or provisions which may be set forth in other required permits or other authorizations. The District, however, assumes no duty to ensure that any such authorizations have been obtained or to protect the legal rights of the underlying fee owner, in those instances where the District owns less than fee.

(6) Unless specifically prohibited or limited by statute, Permittee agrees to indemnify, defend and save the District (which used herein includes the District and its past, present and future employees, agents, representatives, officers and Governing Board members and any of their successors and assigns) from and against any and all lawsuits, actions, claims, demands, losses, expenses, costs, attorneys fees (including but not limited to the fair market value of the District's inhouse attorneys' fees based upon private attorneys' fees/rates), judgments and liabilities which arise from or may be related to the ownership, construction, maintenance or operation of the permitted use or the possession, utilization, maintenance, occupancy or ingress and egress of the District's right of way which arise directly or indirectly and/or are caused in whole or in part by the acts, omissions or negligence of the District or of third parties. Permittee agrees to provide legal counsel acceptable to the District if requested for the defense of any such claims.

(7) The District does not waive sovereign immunity in any respect.

(8) The permittee shall not engage in any activity regarding the permitted use which interferes with the construction, alteration, maintenance or operation of the works of the District, including:

(a) discharge of debris or aquatic weeds into the works of the District;

(b) causing erosion or shoaling within the works of the District;

(c) planting trees or shrubs or erecting structures which limit or prohibit access by District equipment and vehicles, except as may be authorized by the permit.

Permittee shall be responsible for any costs incurred by the District resulting from any such interference, as set forth in 3 (b) and (c) above:

(d) leaving construction or other debris on the District's right of way or waterway;

(e) damaging District berms and levees;

(f) the removal of District owned soil material;

(g) removal of or damage to District locks, gates, and fencing.



40E-6.381 LIMITING CONDITIONS

- (c) opening of District rights of way to unauthorized vehicular access, or
- (d) running or allowing livestock on the District's right of way.
- (9) The District is not responsible for any personal injury or property damage which may directly or indirectly result from the use of water from the District's canal or any activities which may include use or contact with water from the District's canal since the District periodically sprays its canals for aquatic weed control purposes and uses substances which may be harmful to human health or plant life
- (10) Permittee shall allow the District to inspect the permitted use at any reasonable time
- (11) Permittee shall allow, without charge or any interference, the District, its employees, agents, and contractors, to utilize the permitted facilities before, during and after construction for the purpose of conducting the District's routine and emergency, canal operation, maintenance, and construction activities. To the extent there is any conflicting use, the District's use shall have priority over the permittee's use
- (12) This permit is a non-exclusive revocable license. Permittee shall not interfere with any other existing or future permitted uses or facilities authorized by the District.
- (13) The District has the right to change, regulate, limit, schedule, or suspend discharges into, or withdrawals from, works of the District in accordance with criteria established by the Big Cypress Basin, the District, or the U. S. Army Corps of Engineers for the works of the District.
- (14) If the use involves the construction of facilities for a non exempt water withdrawal or surface water discharge, the applicant must apply for and obtain a water use or surface water management permit before or concurrently with any activities which may be conducted pursuant to the right of way occupancy permit.
- (15) The District shall notify the local ad valorem taxing authority of the lands affected by the permitted use, where the permittee owns the underlying fee and derives a substantial benefit from the permitted use. The taxing authority may reinstate such lands on the tax roll. Failure to pay all taxes in a timely manner shall result in permit revocation. Such permit revocation shall not alleviate the responsibility of the permittee to pay all taxes due and payable
- (16) Permittee shall provide prior written notice to their successors in title of the permit and its terms and conditions.
- (17) Permittee shall record a Notice of Permit through filing the appropriate notice agreed to by the District in the public records of the county or counties where the project is located and by providing the District with proof of filing or through an equivalent procedure. All costs associated with this requirement shall be the responsibility of the permittee. Governmental entities and utilities are not subject to this provision.
- (18) This permit is contingent upon compliance with the recording of the Notice of Permit. Failure to provide proof of the recording of the Notice of Permit will result in the permit becoming invalid on its own terms, the removal of any existing facilities within the right of way, restoration of the right of way to the District's satisfaction, at the permittee's expense, and the possible assessment of civil penalties.
- (19) Permittee shall be responsible for the repair or replacement of any existing facilities located within the District's right of way which are damaged as a result of the installation or maintenance of the authorized facility.
- (20) All obligations under the terms of this permit authorization and any subsequent modifications hereto shall be joint and several as to all owners.
- (21) It is the responsibility of the permittee to make prospective bidders aware of the terms and conditions of this permit. It shall be the responsibility of the permittee's contractors to understand the terms and conditions of this permit and govern themselves accordingly.
- (22) It is the responsibility of the permittee to bring to the attention of the District any conflict in the permit authorization or permit conditions in order that they may be resolved prior to the start of construction. In resolving such conflicts the District's determination will be final.
- Specific Authority 373.044, 373.113 F.S. Law Implemented Chapters 373.085(1), 373.086, 373.103, 373.109, 373.129, 373.1395, 373.603, 373.609, 373.613 F.S. History—New 9-3-81, Amended 5-30-82, 12-29-86, 12-24-91, 9-15-99 Formerly 16K-5.01(2), 16K-5.02(2), 15K-5.03(2), 16K-5.04(4), 16K-5.05, 40E-6.381

**PERMIT (MOD) NUMBER 11178
FEBRUARY 6, 2001**

SPECIAL CONDITIONS ARE AS FOLLOWS:

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION OR UTILIZATION OF THE DISTRICT'S RIGHT OF WAY THE PERMITTEE IS REQUIRED TO CONTACT THE DISTRICT'S FIELD REPRESENTATIVE LISTED ON THE FACE OF THIS PERMIT AND SCHEDULE A PRE-CONSTRUCTION MEETING. PERMITTEE SHALL PREPARE AND PRESENT AT THE PRE-CONSTRUCTION MEETING:
 - A. A LIST OF 24 HOUR CONTACT PERSONNEL. THE LIST SHALL INCLUDE THE CONTRACTOR AND DESIGNER, THEIR TITLES AND TELEPHONE NUMBERS FOR OFFICE, MOBILE, BEEPER, HOME OR LOCAL RESIDENCES.
 - B. A WRITTEN INVENTORY OF THE TYPE OF VEHICLES, CONSTRUCTION EQUIPMENT, OTHER MACHINERY AND MATERIALS WHICH WILL BE LOCATED WITHIN THE DISTRICT'S RIGHT OF WAY.
 - C. WRITTEN PROCEDURES FOR THE CLEARING OF ALL CONSTRUCTION MATERIALS, MACHINERY, EQUIPMENT AND VEHICLES FROM THE CANAL AND THE AREA IMMEDIATELY ADJACENT TO THE CANAL WITHIN 24 HOURS NOTICE FROM THE DISTRICT.
 - D. A LIST CONTAINING THE NAMES AND CONTACT NUMBERS OF THE INDIVIDUALS RESPONSIBLE FOR THE VARIOUS OPERATIONS INVOLVED IN THE CLEARING PROCEDURES.
2. THE AUTHORIZED BURIED FACILITIES LOCATED WITHIN THE DISTRICT'S RIGHT OF WAY MUST PROVIDE A MINIMUM OF 2' OF COVER BELOW THE EXISTING GROUND ELEVATION. VAULTS AND MANHOLES, ETC., IF APPLICABLE, SHALL BE INSTALLED SO THE TOP OF THE FACILITY IS SET FLUSH WITH EXISTING GROUND AND IN SUCH A MANNER SO AS TO WITHSTAND THE WEIGHT OF THE DISTRICT'S HEAVY MAINTENANCE EQUIPMENT AND VEHICLES.
3. THE PERMITTEE SHALL BACKFILL THE TRENCH IN 6" COMPACTED LIFTS.
4. IF APPLICABLE, PERMANENT LINE MARKERS PLACED WITHIN THE DISTRICT'S RIGHT OF WAY SHALL BE SET FLUSH WITH EXISTING GROUND AT LOCATIONS DETERMINED BY THE DISTRICT'S AREA FIELD REPRESENTATIVE.
5. WITHIN THIRTY (30) DAYS OF COMPLETION OF INSTALLATION OF THE AUTHORIZED FACILITY(IES), THE PERMITTEE SHALL PROVIDE THE DISTRICT WITH AS-BUILT DRAWINGS SIGNED AND SEALED BY A FLORIDA PROFESSIONAL ENGINEER.
6. THE PERMITTEE AND/OR ITS CONTRACTOR(S) SHALL MAINTAIN DISTRICT VEHICULAR ACCESS AT ALL TIMES ALONG THE NORTH RIGHT OF WAY OF THE HILLSBORO CANAL WITHIN THE PROJECT LIMITS. IF DISTRICT ACCESS IS TO BE IMPEDED OR ALTERED AT ANY TIME, IT WILL BE NECESSARY FOR THE PERMITTEE AND/OR ITS CONTRACTOR(S) TO RECEIVE PRIOR WRITTEN APPROVAL FROM THIS DISTRICT.
7. IN THIS REGARD, IT WILL BE NECESSARY FOR THE PERMITTEE AND/OR ITS CONTRACTOR(S) TO PROVIDE A DETAILED SCHEDULE OF EVENTS OUTLINING WHAT ACTIVITIES WILL IMPEDE DISTRICT ACCESS AND FOR WHAT PERIOD OF TIME DISTRICT ACCESS WOULD BE BLOCKED.

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CONTINUED SPECIAL CONDITIONS ARE AS FOLLOWS:

8. PERMITTEE IS HEREBY NOTIFIED THAT SUCH REQUESTS MAY NOT BE GRANTED BY THE DISTRICT, IF SUCH CLOSURE INTERFERES WITH THE DISTRICT'S OPERATION AND MAINTENANCE ACTIVITIES. PLEASE CONTACT MR. JOSE VARON AT THE DISTRICT'S FORT LAUDERDALE FIELD STATION (954) 432-4814, EXTENSION 4822 REGARDING ANY ACCESS RESTRICTIONS.
9. PRIOR TO DRILLING AND LAYOUT OF MUD PITS, PERMITTEE AND/OR ITS CONTRACTOR(S) SHALL SUBMIT DRAWINGS TO THIS OFFICE DEPICTING THE PROPOSED WORK PLANS FOR EACH SITE FOR APPROVAL. THE PROPOSED MUD PIT LOCATIONS MUST BE LOCATED A MINIMUM OF 40 FEET FROM THE TOP OF THE CANAL BANK.
10. PERMITTEE AND/OR ITS CONTRACTOR(S) SHALL REMOVE ALL MUD AND CUTTINGS FROM THE DISTRICT'S RIGHT OF WAY AND DISPOSE OF SAME AT AN APPROVED DISPOSAL SITE ONCE DRILLING OPERATIONS ARE COMPLETE. MUD PITS WILL BE RESTORED BY BACKFILLING, COMPACTING AND SEEDING OR SODDING TO THE SATISFACTION OF THE DISTRICT. ADJACENT AREAS IMPACTED BY THE OPERATION OF DRILLING EQUIPMENT OR LAYING PIPING OR CABLES SHALL LIKEWISE BE RESTORED TO THE DISTRICT'S SATISFACTION.
11. PERMITTEE AND/OR ITS CONTRACTOR(S) IS AUTHORIZED TO DISCHARGE WATER ONLY FOR WELL DEVELOPMENT AND START-UP PUMPING AND THEN ONLY BY MEANS OF PIPING TO THE DISCHARGE POINT. NO OVERLAND FLOWS ARE AUTHORIZED. THIS OPERATION SHALL BE APPROVED FOR A SHORT-TERM PERIOD ONLY. SHOULD ABOVE-GRADE PIPING BE NECESSARY TO DISCHARGE PUMPING (GREATER THAN 24 HOURS), IT WILL BE NECESSARY TO CONTACT MR. JOSE VARON PRIOR TO PUMPING ACTIVITIES.
12. PERMITTEE AND/OR ITS CONTRACTOR(S) SHALL SUBMIT TO THIS DISTRICT FOR REVIEW AND APPROVAL, A VEGETATION IMPACT PLAN WHICH IDENTIFIES THOSE SPECIES (NATIVE AND EXOTIC) THAT WILL BE IMPACTED BY CONSTRUCTION OF THE PROJECT, AND AN ACCOMPANYING MITIGATION PLAN TO OFF-SET THE LOSS OR RELOCATION OF NATIVE SPECIES.
13. PERMITTEE AND/OR ITS CONTRACTOR(S) SHALL COORDINATE THE PROPOSED PROJECT WITH THE PERSONNEL OF THE DISTRICT' FT. LAUDERDALE FIELD STATION CONCERNING CONSTRUCTION LAYOUT, ACCESS AND MINIMIZING ENCROACHMENTS INTO THE DISTRICT'S RIGHT OF WAY. PLEASE CONTACT MR. JOSE VARON TO SCHEDULE A SITE MEETING.
14. PERMITTEE IS REMINDED THAT BY UTILIZING A LAYOUT THAT IS NOT IMMEDIATELY ADJACENT TO THE DISTRICT RIGHT OF WAY LINE, THAT IT ASSUMES A GREATER RISK OF RELOCATION OF ITS FACILITIES IF FUTURE WIDENING OR OTHER IMPROVEMENT TO THE HILLSBORO CANAL IS NEEDED. ANY NECESSARY RELOCATIONS SHALL BE AT THE PERMITTEE'S SOLE EXPENSE AND SHALL BE PROMPTLY ACCOMPLISHED UPON NOTIFICATION BY THE DISTRICT.
15. ALL PERMANENT PIPING AND CABLING WITHIN THE DISTRICT'S RIGHT OF WAY SHALL HAVE A MINIMUM BURIAL DEPTH OF 2'.
16. INVERT ELEVATION OF THE AUTHORIZED 20" OUTFALL SHALL BE SET AT 8.0' NGVD/MSL OR LOWER.

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CONTINUED SPECIAL CONDITIONS ARE AS FOLLOWS:

17. IN ORDER TO PREVENT SLOPE EROSION, PERMITTEE SHALL INSTALL RIP-RAP ON THE SIDE SLOPE EXTENDING DOWN THE SIDE SLOPE WATERWARD FROM THE HIGH WATER LINE DOWN THE SIDE SLOPE TO THE DISTRICT'S SATISFACTION. RIP-RAP MATERIAL SHALL CONSIST OF CLEAN ENVIRONMENTALLY ACCEPTABLE MATERIAL AND EXTEND FIVE (5) FEET UPSTREAM AND DOWNSTREAM OF THE AUTHORIZED CULVERT.
18. PERMITTEE SHALL DESIGNATE A CONTACT PERSON TO WHICH ANY NEIGHBOR INQUIRIES AND COMPLAINTS CAN BE REFERRED.
19. NO VEHICULAR MAINTENANCE/REPAIR ACTIVITIES OR SUBSTANCES OR PARTS ASSOCIATED WITH THE REPAIR OR MAINTENANCE OF VEHICLES/EQUIPMENT WILL TAKE PLACE, BE USED, STORED OR DISCARDED WITHIN, THE RIGHT OF WAY NOR SHALL THE DISTRICT'S RIGHT OF WAY BE USED FOR STORAGE OR PARKING OF EQUIPMENT, ASSOCIATED MACHINERY OR CONSTRUCTION TRAILERS, UNLESS PRIOR WRITTEN AUTHORIZATION IS GRANTED BY THE DISTRICT.
20. THE PERMITTEE IS RESPONSIBLE FOR PROVIDING AND UTILIZING ACCEPTABLE DUST CONTROL MEASURES DURING THE DURATION OF THIS PERMIT.
21. THE PERMITTEE IS PUT ON NOTICE THAT THE DISTRICT HAS NO CONTROL OVER THE SALE OR TRANSFER OF REAL OR PERSONAL PROPERTY. THEREFORE, IT IS THE SOLE OBLIGATION OF A PERMITTEE TO DISCLOSE THE EXISTENCE OF A RIGHT OF WAY OCCUPANCY PERMIT, ITS TERMS AND CONDITIONS TO PROSPECTIVE PURCHASERS. UPON CONVEYANCE OF THE PROPERTY, THE NEW OWNER MUST SUBMIT A WRITTEN REQUEST THAT THE DISTRICT TRANSFER THE PERMIT INTO HIS/HER NAME(S).
22. THE PERMITTEE SHALL HAVE A COPY OF THIS PERMIT AVAILABLE ON-SITE DURING INSTALLATION.

END.



Form #0122
Rev. 09/99
(NGP-1)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Post Office Box 24680, West Palm Beach, FL 33416-4680
Telephone (561) 686-8800 FL WATS Line 1-800-432-2045
Attention: Right of Way Permitting

01-0102-1M

APPLICATION NO. 11178 Modif.

APPLICATION TO THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT FOR RIGHT OF WAY NOTICE GENERAL PERMIT

NOTE: In order to be eligible to apply and be considered for issuance of a Notice General Permit (NGP) for use of the District's rights of way, all of the District's applicable criteria for the proposed use or facility must be met in its entirety. Responsibility is borne by the applicant to provide all required information sufficient to the District to insure the District's criteria will be met. If your proposal does not meet criteria, you must apply for issuance of a Standard Right of Way Occupancy Permit, including payment of applicable Application Processing Fees.

Applicant's Full Name Gary D. Dernlan, P.E., Director of Water Utilities
(include all applicants' names, if applicable)

Applicant's Complete Address Palm Beach County Water Utilities Department
2065 Prairie Road, West Palm Beach, FL 33406
(include zip-code)

Applicant's Telephone Numbers (561) 641-3429

If applicant or user is other than the owner(s):

Owner(s) Full Name _____
(include all owners' names, if applicable)

Owner(s) Complete Address _____

Owner(s) Telephone Numbers _____

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RIGHT-OF-WAY DIVISION

LOCATION OF PROJECT: (SEE ATTACHED PLANS)

(Note: copy of recent property/boundary survey must be provided; or, a metes and bounds description)

Work or Land (canal or levee) Involved Hillsboro Canal County Palm Beach

Section 35, Township 47 South, Range 41 East

Lot Number _____ Block Number _____ Subdivision Name _____

DESCRIPTION OF PROJECT:

(Note: Check all proposed uses/facilities that apply)

Access (temporary) Bridge Landscaping Culvert Dock/Associated Facilities

Fencing Utility Installation Storage (temporary) Vegetation Clearing/Removal

Other Construction of Eastern Hillsboro Aquifer Storage and Recovery Well.

(include description)
Floridan Aquifer Monitoring Well and associated facilities



40E-6.381 LIMITING CONDITIONS

The District's authorization to utilize lands and other works constitutes a revocable license (including both notice general permits and standard permits). In consideration for receipt of that license, permittee shall agree to be bound by the following standard limiting conditions, which shall be included within all permits issued pursuant to this chapter:

(1) All structures on District works or lands constructed by permittee shall remain the property of permittee, who shall be solely responsible for ensuring that such structures and other uses remain in good and safe condition. Permittees are advised that other federal, state and local safety standards may govern the occupancy and use of the District's lands and works. The District assumes no duty with regard to ensuring that such uses are so maintained and assumes no liability with regard to injuries caused to others by any such failure.

(2) Permittee solely acknowledges and accepts the duty and all associated responsibilities to incorporate safety features, which meet applicable engineering practice and accepted industry standards, into the design, construction, operation and continued maintenance of the permitted facilities/authorized use. This duty shall include, but not be limited to, permittee's consideration of the District's regulation and potential fluctuation, without notice, of water levels in canals and works, as well as the permittee's consideration of upgrades and modifications to the permitted facilities/authorized use which may be necessary to meet any future changes to applicable engineering practice and accepted industry standards. Permittee acknowledges that the District's review and issuance of this permit, including, but not limited to, any field inspections performed by the District, does not in any way consider or ensure that the permitted facilities/authorized use is planned, designed, engineered, constructed, or will be operated, maintained or modified so as to meet applicable engineering practice and accepted industry standards, or otherwise provide any safety protections. Permittee further acknowledges that any inquiries, discussions, or representations, whether verbal or written, by or with any District staff or representative during the permit review and issuance process, including, but not limited to, any field inspections, shall not in any way be relied upon by permittee as the District's assumption of any duty to incorporate safety features, as set forth above, and shall also not be relied upon by permittee in order to meet permittee's duty to incorporate safety features, as set forth above.

(3) Permittee agrees to abide by all of the terms and conditions of this permit, including any representations made on the permit application and related documents. This permit shall be subject to the requirements of Chapter 373, F.S., and Chapter 40E-6, F.A.C., including all subsequent rule and criteria revisions. Permittee agrees to pay all removal and restoration costs, investigative costs, court costs and reasonable attorney's fees, including appeals, resulting from any action taken by the District to obtain compliance with the conditions of the permit or removal of the permitted use. If District legal action is taken by staff counsel, "reasonable attorney's fees" is understood to mean the fair market value of the services provided, based upon what a private attorney would charge.

(4) This permit does not create any vested rights, and except for governmental entities and utilities, is revocable at will upon reasonable prior written notice. Permittee bears all risk of loss as to monies expended in furtherance of the permitted use. Upon revocation, the permittee shall promptly modify, relocate or remove the permitted use and properly restore the right of way to the District's satisfaction. In the event of failure to so comply within the specified time, the District may remove the permitted use and permittee shall be responsible for all removal and restoration costs.

(5) This permit does not convey any property rights nor any rights or privileges other than those specified herein and this permit shall not, in any way, be construed as an abandonment or any other such impairment or disposition of the District's property rights. The District approves the permitted use only to the extent of its interest in the works of the District. Permittee shall obtain all other necessary federal, state, local, special district and private authorizations prior to the start of any construction or alteration authorized by the permit. Permittee shall comply with any more stringent conditions or provisions which may be set forth in other required permits or other authorizations. The District, however, assumes no duty to ensure that any such authorizations have been obtained or to protect the legal rights of the underlying fee owner, in those instances where the District owns less than fee.

(6) Unless specifically prohibited or limited by statute, Permittee agrees to indemnify, defend and save the District (which used herein includes the District and its past, present and future employees, agents, representatives, officers and Governing Board members and any of their successors and assigns) from and against any and all lawsuits, actions, claims, demands, losses, expenses, costs, attorneys fees (including but not limited to the fair market value of the District's inhouse attorneys' fees based upon private attorneys' fees/rates), judgments and liabilities which arise from or may be related to the ownership, construction, maintenance or operation of the permitted use or the possession, utilization, maintenance, occupancy or ingress and egress of the District's right of way which arise directly or indirectly and/or are caused in whole or in part by the acts, omissions or negligence of the District or of third parties. Permittee agrees to provide legal counsel acceptable to the District if requested for the defense of any such claims.

(7) The District does not waive sovereign immunity in any respect.

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40E-6.381 LIMITING CONDITIONS

RIGHT-OF-WAY DIVISION

(8) The permittee shall not engage in any activity regarding the permitted use which interferes with the construction, alteration, maintenance or operation of the works of the District, including:

- (a) discharge of debris or aquatic weeds into the works of the District;
- (b) causing erosion or shoaling within the works of the District;
- (c) planting trees or shrubs or erecting structures which limit or prohibit access by District equipment and vehicles, except as may be authorized by the permit.

Permittee shall be responsible for any costs incurred by the District resulting from any such interference, as set forth in (a), (b), and (c), above;

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(d) leaving construction or other debris on the District's right of way or waterway;

- (e) damaging District berms and levees;
 - (a) the removal of District owned spoil material;
 - (b) removal of or damage to District locks, gates, and fencing;
 - (c) opening of District rights of way to unauthorized vehicular access;
 - (d) running or allowing livestock on the District's right of way.

RIGHT-OF-WAY DIVISION

(9) The District is not responsible for any personal injury or property damage which may directly or indirectly result from the use of water from the District's canal or any activities which may include use or contact with water from the District's canal, since the District periodically sprays its canals for aquatic weed control purposes and uses substances which may be harmful to human health or plant life.

(10) Permittee shall allow the District to inspect the permitted use at any reasonable time.

(11) Permittee shall allow, without charge or any interference, the District, its employees, agents, and

contractors, to utilize the permitted facilities before, during and after construction for the purpose of conducting the District's, routine and emergency, canal operation, maintenance, and construction activities. To the extent there is any conflicting use, the District's use shall have priority over the permittee's use.

(12) This permit is a non-exclusive revocable license. Permittee shall not interfere with any other existing or future permitted uses or facilities authorized by the District.

(13) The District has the right to change, regulate, limit, schedule, or suspend discharges into, or withdrawals from, works of the District in accordance with criteria established by the Big Cypress Basin, the District, or the U. S. Army Corps of Engineers for the works of the District.

(14) If the use involves the construction of facilities for a non exempt water withdrawal or surface water discharge, the applicant must apply for and obtain a water use or surface water management permit before or concurrently with any activities which may be conducted pursuant to the right of way occupancy permit.

(15) The District shall notify the local ad valorem taxing authority of the lands affected by the permitted use, where the permittee owns the underlying fee and derives a substantial benefit from the permitted use. The taxing authority may reinstate such lands on the tax roll. Failure to pay all taxes in a timely manner shall result in permit revocation. Such permit revocation shall not alleviate the responsibility of the permittee to pay all taxes due and payable.

(16) Permittee shall provide prior written notice to their successors in title of the permit and its terms and conditions.

(17) Permittee shall record a Notice of Permit through filing the appropriate notice agreed to by the District in the public records of the county or counties where the project is located and by providing the District with proof of filing or through an equivalent procedure. All costs associated with this requirement shall be the responsibility of the permittee. Governmental entities and utilities are not subject to this provision.

(18) This permit is contingent upon compliance with the recording of the Notice of Permit. Failure to provide proof of the recording of the Notice of Permit will result in the permit becoming invalid on its own terms, the removal of any existing facilities within the right of way, restoration of the right of way to the District's satisfaction, at the permittee's expense, and the possible assessment of civil penalties.

(19) Permittee shall be responsible for the repair or replacement of any existing facilities located within the District's right of way which are damaged as a result of the installation or maintenance of the authorized facility.

(20) All obligations under the terms of this permit authorization and any subsequent modifications hereto shall be joint and several as to all owners.

(21) It is the responsibility of the permittee to make prospective bidders aware of the terms and conditions of this permit. It shall be the responsibility of the permittee's contractors to understand the terms and conditions of this permit and govern themselves accordingly.

(22) It is the responsibility of the permittee to bring to the attention of the District any conflict in the permit authorization or permit conditions in order that they may be resolved prior to the start of construction. In resolving such conflicts the District's determination will be final.

Specific Authority 373.044, 373.113 F.S. Law Implemented Chapters 373.085(1), 373.086, 373.103, 373.109, 373.129, 373.1395, 373.603, 373.609, 373.613 F.S. History—New 9-3-81, Amended 5-30-82, 12-29-86, 12-24-91, 9-15-99 Formerly 16K-5.01(2), 16K-5.02(2), 16K-5.03(2), 16K-5.04(4), 16K-5.05, 40E-6.381.



In compliance with provisions of Chapter 373, Florida Statutes and Chapter 40E-6, Florida Administrative Code, application is hereby made for a Right of Way Occupancy Notice General Permit in accordance with support drawings, data and incidental information filed with this application and made a part of this application. I hereby certify that all information contained in or made a part hereof is true and correct to the best of my knowledge, that any permit issued shall require that the permitted use be constructed and operated in accordance with such information.

I further certify that I have read the Standard Limiting Conditions appearing on this application and understand that said conditions will be incorporated within any permit issued pursuant to the application, unless expressly waived by the Governing Board. I further acknowledge that the SFWMD may incorporate additional special conditions as may be necessary in the best interest of the District.

In signing this application, I acknowledge that failure to comply with all conditions of this permit may result in permit revocation, financial assurance or bond forfeiture, and remedial action against me by the SFWMD. I assume full responsibility for the actions of all my employees, agents and persons, whether under direct contractual obligation to me or indirectly, with respect to compliance with the conditions and limitations contained within this application or within a permit issued as a result of this application.

Gary D. Dernlan, P.E.
Director of Water Utilities
 Applicant's Name (print or type)

 Applicant's Agent's Name (print or type)

Gary D. Dernlan
 Applicant's Signature

 Applicant's Agent's Signature

Palm Beach County Water
Utilities Department
 Owner's Name (print or type)

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 Owner's Signature

RIGHT-OF-WAY DIVISION

 Date

 Date

Please be sure the following accompany the submittal of your application:

- Application Processing Fee (if applicable)
- Property/Boundary Survey/Metes and Bounds Description
- Drawings Describing the proposed use or facilities
- Copy of Building Permit (if applicable)
- Copy of SFWMD Water Use, Surface Water Management Permits, etc. (if applicable)
- Other Information Pertinent to the application

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PALM BEACH COUNTY WATER UTILITIES DEPARTMENT

PLANT NO. 9 EASTERN HILLSBORO CANAL
AQUIFER STORAGE AND RECOVERY WELL SYSTEM

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RIGHT-OF-WAY DIVISION

PBCWUD PROJECT NO. WUD 98-66
MONTGOMERY WATSON PROJECT NO. 1098093
KIMLEY HORN PROJECT NO. 44100017
VOLUME 2 - DRAWINGS

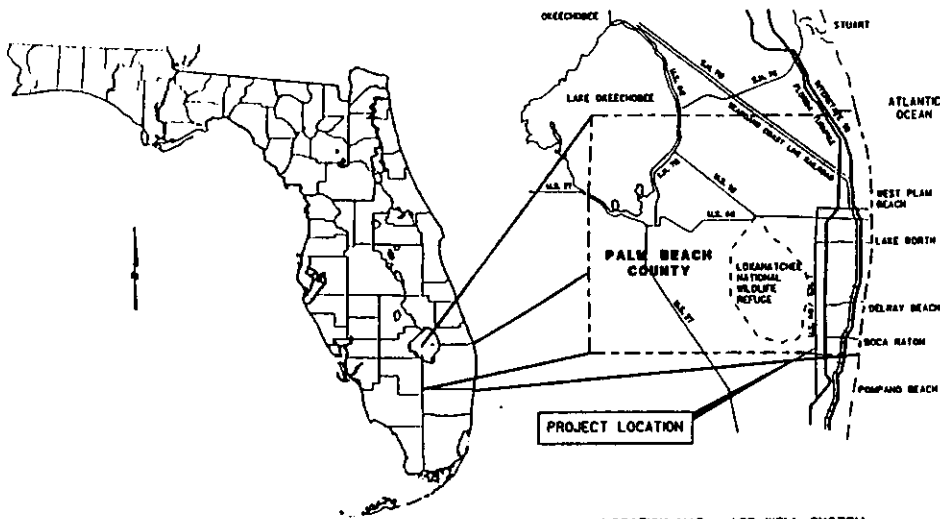
OCTOBER 2000



MONTGOMERY WATSON
Sunrise, Florida

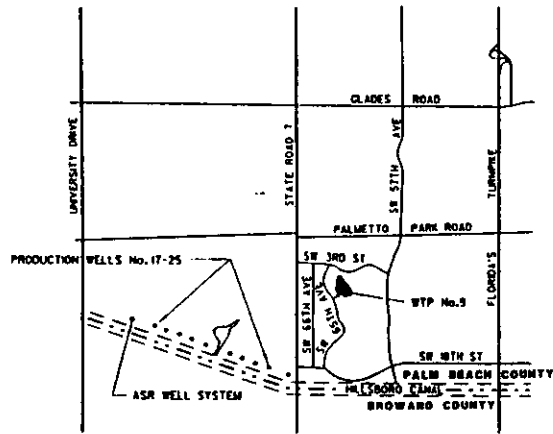


Kimley-Horn
and Associates, Inc.
4431 Embarcadero Dr.
West Palm Beach, Florida 33407
Certificate of Authorization Number 696



LOCATION MAP - ASR WELL SYSTEM

NOT TO SCALE



VICINITY MAP - ASR WELL SYSTEM

NOT TO SCALE

LIST OF DRAWINGS

GENERAL

- COVER SHEET
- G-1 LOCATION MAPS, LIST OF DRAWINGS AND GENERAL NOTES
- G-2 STANDARD SYMBOLS
- G-3 STANDARD ABBREVIATIONS
- G-4 PIPE SCHEDULE
- G-5 WELL CASING AND CONSTRUCTION DETAILS
- G-6 ASR WELLHEAD AND CASING DETAIL
- G-7 PROCESS FLOW DIAGRAM - ASR WELL

CIVIL

- CC-1 STANDARD DETAILS - 1
- CC-2 STANDARD DETAILS AND TEMPORARY DRILLING PAD
- CC-2 FARM SITE PLAN
- CC-3 PRE-CAST STRUCTURES

STRUCTURAL

- CS-1 GENERAL NOTES AND MISCELLANEOUS DETAILS
- CS-2 MISCELLANEOUS DETAILS
- S-1 ASR WELL PLAN AND SECTION
- S-2 VENTURIMETER AND CONTROL VALVE VAULT

MECHANICAL

- CM-1 STANDARD DETAILS - 1
- CM-2 STANDARD DETAILS AND VALVE SCHEDULE
- M-1 ASR WELL PLAN AND SECTION
- M-2 VENTURIMETER AND CONTROL VALVE VAULT

ELECTRICAL

- E-1 ELECTRICAL LEGEND
- E-2 ELECTRICAL GENERAL NOTES
- E-3 ELECTRICAL SITE PLAN
- E-4 ELECTRICAL FARM SITE PLAN
- E-5 SINGLE LINE/PHASER DIAGRAM
- E-6 SCHEMATIC DIAGRAMS AND LAYOUT
- E-7 ELECTRICAL DETAILS

INSTRUMENT

- I-1 INSTRUMENTATION/CONTROL LEGEND SHEET
- I-2 PAD - ASR WELL SYSTEM
- I-3 INSTRUMENTATION/CONTROL DETAILS

GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL SURFACE AND SUBSURFACE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE HORIZONTAL AND VERTICAL ALIGNMENTS OF PIPELINES.
2. SAMPLE POINTS FOR DISINFECTION TESTING SHALL BE LOCATED AS REQUIRED TO MEET THE TESTING REQUIREMENT. FIRE HYDRANTS SHALL BE USED AS SAMPLE POINTS WHERE AVAILABLE.
3. IN SITUATIONS WHERE THE DRAWINGS DO NOT CONTAIN DETAILS FOR A SPECIFIC APPLICATION, THE CONTRACTOR SHALL REFER TO THE PALM BEACH COUNTY WATER UTILITIES DEPARTMENT, MANUAL OF MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS, WATER AND SEWER SYSTEMS, LATEST EDITION.
4. ELEVATIONS SHOWN REFER TO M.G.V.D. (NATIONAL GEODETIC VERTICAL DATING OF 1929).
5. GRASS AND SHRUBBERY SHALL BE RESTORED TO THE CONDITION EXISTING PRIOR TO MAKING THE EXCAVATION. ALL SHRUBBERY, ORNAMENTAL TREES AND OTHER PLANTINGS SHALL BE FULLY PROTECTED. IF IT IS FOUND NECESSARY TO REMOVE ANY GRASS, SHRUBBERY, OR PLANTS TO ACCOMPLISH THE WORK, THEY SHALL BE SATISFACTORILY REPLACED BEFORE THE WORK WILL BE ACCEPTED OR PAID FOR.
6. WHERE FITTINGS ARE NECESSARY TO CHANGE THE VERTICAL ELEVATION OF THE PIPE, CONTRACTOR SHALL USE 45° BENDS, 30° BENDS FOR VERTICAL CHANGES. ELEVATION SHALL NOT BE PERMITTED WITHOUT APPROVAL OF THE ENGINEER.
7. UNDERGROUND UTILITIES SHOWN ARE TAKEN FROM FIELD INSPECTIONS AND ATLAS MAPS AND ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL CONTACT ALL UTILITY OWNERS AND CONFIRM LOCATIONS OF UTILITIES NO LESS THAN 48 HOURS BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ACCURATELY LOCATE AND UNCOVER ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION WHERE CROSSING OF EXISTING UTILITIES OCCUR. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL UTILITIES WITHIN THE PROPOSED WORK AREAS TO CONNECT TO EXISTING PIPE AT INTERSECTIONS AND AT OTHER CRITICAL LOCATIONS. IT IS TO VERIFY UTILITY LOCATIONS AND PIPE LAYING SCHEDULES PRIOR TO SUBMITTING SHOP DRAWINGS. THIS SHALL BE DONE WITHIN 30 DAYS AFTER NOTICE TO PROCEED. THE CONTRACTOR SHALL PROVIDE BACKFILL AND TEMPORARY RESTORATION IN KIND. THE INFORMATION OBTAINED (ELEV., DISTANCE, ETC.) SHALL BE MADE PART OF THE CONTRACTOR'S SUBMITTAL FOR PERMITS.
9. PIPE SIZES (OUTSIDE AND INSIDE DIAMETERS) SHOULD BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. NOT ALL EXISTING PIPE WAS ACCESSIBLE FOR VERIFICATION AND ASSUMPTIONS WERE MADE (SEE NOTE 6).
10. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING PERMISSION AND A CONSTRUCTION METER FROM THE OWNER. CONTRACTOR SHALL NOT BE CHARGED FOR REASONABLE QUANTITIES OF WATER USED.
11. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING, MOVING AND RELOCATING OR REPLACING ALL SMALL (LESS THAN 4" DIAMETER) WATER LINES, IRRIGATION LINES OR CHEMICAL SOLUTION LINES WHICH ARE ENCOUNTERED DURING EXCAVATION. THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR WATER SERVICE OR SOLUTION FEED LOCATING, MOVING AND RELOCATING OR REPLACING SAID LINES / UTILITIES FOR APPROVAL 7 (SEVEN) CALENDAR DAYS PRIOR TO THE ANTICIPATED DISRUPTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
12. THE CONTRACTOR SHALL TEST NEW SEGMENTS OF PIPE LINE INDEPENDENT OF EXISTING SEGMENTS PER PALM BEACH HEALTH DEPARTMENT OR OTHER JURISDICTIONAL AGENCY REQUIREMENTS. THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR TESTING AND CONNECTION 30 DAYS PRIOR TO TEST.
13. IF UNSATISFACTORY MATERIAL FOR ADEQUATE BEARING IS ENCOUNTERED AT THE SUBGRADE, THE UNSATISFACTORY MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE FOUNDATION STABILIZATION MATERIAL AS SPECIFIED. THE CONTRACTOR SHALL BE HELD LIABLE FOR COSTS/FEE ASSOCIATED WITH THE DISPOSAL AND Hauling OF ALL UNSATISFACTORY MATERIAL TO AN ENGINEER APPROVED DISPOSAL SITE.
14. MAINTAIN SAME GRADES AS EXISTING FOR ALL RESTORATION WORK.
15. FLEXIBLE COUPLERS SHALL BE DRESSER STYLE SS OR 1/2" ROCKWELL STYLE 43N SLEEVE TYPE COUPLERS OR EQUAL. PROVIDE A MINIMUM OF 10 1/2" x 36 SS 16 RODS BETWEEN FLANGES AS SHOWN.
16. SYSTEM DESIGN WORKING PRESSURE = 200 PSI

RECEIVED
JAN 02 2001

RIGHT-OF-WAY DIVISION
RECEIVED
DEC 02 2001
RIGHT-OF-WAY DIVISION

SCALE:
AS NOTED

WARNING
IF THIS DRAWING IS NOT MEASURED FROM THE ORIGINAL, IT IS NOT TO SCALE.

DESIGNED BY: R. ROBERTSON
DRAWN BY: A. ZANAGLIA
CHECKED BY: G. HART



Kiley-Horn and Associates, Inc.
4433 Cooper Avenue Dr.
Suite 300, Boca Raton, Florida 33433
Certificate of Authorization Number 536



MONTGOMERY WATSON
200 S. BOCA RATON CORPORATE PARKWAY
SUITE 300 BOCA RATON, FLORIDA 33433
Certificate of Authorization Number 5772



Palm Beach County
Water Utilities Department

PALM BEACH COUNTY
MILLSBOND ASR WELL

LOCATION MAPS, LIST OF DRAWINGS
AND GENERAL NOTES

SHEET
G-1



Steve McGraw

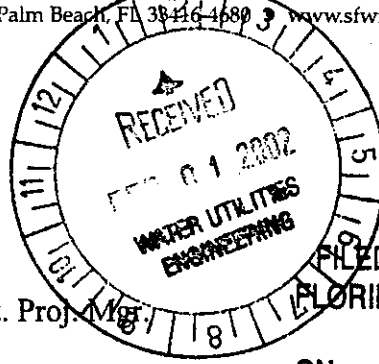
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

3301 Gun Club Road, West Palm Beach, Florida 33406 • (561) 686-8800 • FL WATS 1-800-432-2045 • TDD (561) 697-2574
Mailing Address: P.O. Box 24680, West Palm Beach, FL 33416-4680 • www.sfwmd.gov

LAN 08-12
1010/Hillsboro Canal

January 30, 2002

Mr. Brandon D. Selle, P.E., Const. Proj. Mgr.
Palm Beach County
Water Utilities Department
P.O. Box 16097
WPB, FL 33416-6097



FILED WITH THE CLERK OF THE SOUTH
FLORIDA WATER MANAGEMENT DISTRICT

ON January 30, 2002
BY Laura A. Lythgoe
DEPUTY CLERK

Dear Mr. Selle:

Subject: SFWMD Right of Way Occupancy Permit Number 11178; Palm Beach County; Plant #9 Eastern Hillsboro ASR Well (WUD 98-66B)

This letter serves as official notice that the completion date for Right of Way Occupancy Permit Number 11178 has been extended for one (1) year, through February 28, 2003.

This extension of the completion date is in response to your written request received in this office this date.

Should you have any questions or require further assistance on this matter, please do not hesitate to contact me at (561) 682-6827.

Sincerely,

Laura A. Lythgoe
Sr. Regulatory Supervisor-Permits
Right of Way Department
Water Resource Operations

/lal

c: Susan Juncosa, Ft. Laud. F..S., WRO, SFWMD

GOVERNING BOARD

Trudi K. Williams, *Chair*
Lennart E. Lindahl, *Vice-Chair*
Pamela Brooks-Thomas

Michael Collins
Hugh M. English
Gerardo B. Fernández

Patrick J. Gleason, Ph.D., P.G.
Nicolás J. Gutiérrez, Jr., Esq.
Harkley R. Thornton

EXECUTIVE OFFICE

Henry Dean, *Executive Director*



2002 JAN 23 AM 7:03

January 23, 2002

Water Utilities Department
Engineering
P.O. Box 16097
Palm Beach, FL 33416-6097
(561) 641-3429
Fax: (561) 641-3447
www.pbcwater.com

South Florida Water Management District
Broward Field Office
2535 Davie Road
Davie, FL 33317

Attention: Susan Juncos

Re: SFWMD Right of Way Permit No. 11178
Plant #9 Eastern Hillsboro ASR Well (WUD 98-66B)

We are in receipt of the courtesy notice of the expiration of the permit referenced above. It appears that this permit will expire on February 28, 2002. We are requesting a 6-month extension of this permit to complete the installation of our facilities.

Should you have any questions or require any additional information, please do not hesitate to contact me at (561) 641-3469.

Sincerely,

Brandon D. Selle
Brandon D. Selle, P.E.
Construction Project Manager

OK to extend per

/bds

Enclosure

cc Gary Dernlan
Larry Johnson, P.E.
Lawton McCall
Frank Ferrano, P.E.
Steve Korbelak

from 2-28-03

Palm Beach County
Board of County
Commissioners
Warren H. Newell, Chairman
Carol A. Roberts, Vice Chair
Daren T. Marcus
Mary McCarty
Burt Aaronson
Tony Masilotti
Addie L. Greene

County Administrator
Robert Weisman

RECEIVED
JAN 30 2002

RIGHT-OF-WAY DIVISION

Equal Opportunity
Affirmative Action Employer



ORIGINAL TO EUGENIA

CC: FRANK F.

JORGE J.

Robert G. Brooks, M.D. Secretary

98-66

PAUL F.

STEVE M.

VINCENT M.

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

JAN - 4 2000

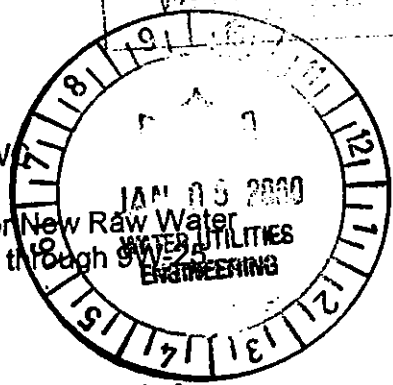
NOTICE OF PERMIT

In the Matter of an Application for Permit by:

Gary Dernlan, Director
Palm Beach County Water Utilities
2065 Prairie Road
West Palm Beach, FL 33416

FILE NO.: 138308-037-WC

PROJECT: Wellheads for New Raw Water Supply Well Nos. 9W-17 through 9W-25



Enclosed is Permit Number 138308-037-WC, to construct nine (9) wellheads for new raw water supply wells to serve the expansion of existing Water Treatment Plant No. 9, pursuant to Chapter 403.087, Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with this office, Division of Environmental Health & Engineering, Palm Beach County Health Department, 901 Evernia Street, West Palm Beach, Florida 33401; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within thirty (30) days from the date this Notice is filed with the Clerk of the Department.

If you have any questions, please contact T.D. LeFevre, of this office, phone (561) 355-3070.

Executed in West Palm Beach, Florida,

STATE OF FLORIDA

Umesh Asrani (signature)

Umesh Asrani, P.E., Assistant Director
Environmental Health & Engineering
Palm Beach County Health Department



Jeb Bush
Governor

Robert G. Brooks, M.D.
Secretary

CERTIFICATE OF SERVICE

The undersigned, duly designated deputy clerk, hereby certifies that this NOTICE OF PERMIT and all copies were mailed to the listed persons before the close of business on DECEMBER 22, 1999

CLERK STAMP Palm Beach County Health Department
Environmental Health and Engineering
Plan Review and Permit Section
APPROVED

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Brenda Johnson 12/20/99

Clerk

Date

cc: Office of General Counsel, DEP, Tallahassee
DEP, Tallahassee
DEP, West Palm Beach
Engineer-of-Record, Micheal D. Samyn, P.E.
PBCHD, Asir Canyas



Jeb Bush
Governor

Robert G. Brooks, M.D.
Secretary

PERMITTEE:

Gary Dernlan, Director
Palm Beach County Water Utilities
2065 Prairie Road
West Palm Beach FL 33416

ID No.: 450-4393
Permit/Certification No.: 138308-037-WC
Date of Issue: 12/20/99
Expiration Date: 12/21/2004
County: Palm Beach
Utility: Palm Beach County System 9
Latitude/Longitude: see below
Section/Township/Range: 36/47/41
Project: Wellheads for New Water Supply
Well Nos. 9W-17 through 9W-25

This permit is issued under the provisions of Chapter 403, Florida Statutes and Florida Administrative Code Rule 62-550, 62-555 & 62-560. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

Construct: Nine wellheads for new water supply wells including submersible pumps rated at 1,000 gpm at 155 feet TDH, complete with all appurtenances, electrical controls, and piping. Wells are located as follows:

<u>Well Number</u>	<u>Latitude/Longitude</u>
9W-17	26° 19' 05" N / 80° 12' 10" W
9W-18	26° 19' 10" N / 80° 12' 20" W
9W-19	26° 19' 15" N / 80° 12' 30" W
9W-20	26° 19' 30" N / 80° 12' 40" W
9W-21	26° 19' 35" N / 80° 12' 50" W
9W-22	26° 19' 40" N / 80° 13' 00" W
9W-23	26° 19' 45" N / 80° 13' 00" W
9W-24	26° 19' 50" N / 80° 13' 10" W
9W-25	26° 20' 00" N / 80° 13' 20" W

In Accordance With: DEP Application Form 62-555.900(1), received June 1, 1999, specifications and plan sheets C-1 through I-4 received June 1, 1999, and letter from engineer dated July 12, 1999.

Located: Along the Hillsborough Canal from US Highway 441 west to South Ponderosa Drive in unincorporated Palm Beach County, Florida.

To Serve: Palm Beach County Water Utilities System No. 9.

Subject To: General Conditions 1 - 17 and Specific Conditions 1 - 9.

PERMITTEE:

Gary Dernlan

ID No.: 450-4393

Permit/Certification No.: 138308-037-WC

Date of Issue: 12/20/99

Expiration Date: 12/21/2004

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161, 403.727, or 403.859 through 403.061, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agent, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability from harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department Rules.

PERMITTEE:

Gary Dernlan

ID No.: 450-4393

Permit/Certification No.: 138308-037-WC

Date of Issue: 12/20/99

Expiration Date: 12/21/2004

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. having access to and copying any records that must be kept under the conditions of the permit;
 - b. inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the Department with the following information:
 - a. a description of and cause of noncompliance; and
 - b. the period on noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case arising under the Florida Statutes of department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes.

PERMITTEE:

Gary Dernlan

ID No.: 450-4393

Permit/Certification No.: 138308-037-WC

Date of Issue: 12/20/99

Expiration Date: 12/21/2004

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 62-4.12 and 62-30.30, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
 - () Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.
 - b. The permittee shall retain at the facility, or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit and records of all data used to complete the application for this permit. The time period of retention shall be at least three (3) years from the date on the sample, measurement, report or application unless otherwise specified by Department rule.

PERMITTEE:

Gary Dernlan

I. D. No.: 450-4393

Permit/Certification No.: 138308-037-WC

Date of Issue: 12/20/99

Expiration Date: 12/21/2004

GENERAL CONDITIONS: (14 Cont'd.)

- c. Records of monitoring information shall include:
- the date, exact place, the time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
15. When requested by the Department, the permittee shall, within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.
16. In the case of an underground injection control permit, the following permit conditions also shall apply:
- a. All reports or information required by the Department shall be certified as being true, accurate and complete.
 - b. Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date.
 - c. Notification of any noncompliance which may endanger health or the environment shall be reported verbally to the Department within twenty four (24) hours and again within seventy two (72) hours and a final written report provided within two (2) weeks.
 - 1. The verbal reports shall contain any monitoring or other information which indicate that any contaminant may endanger an underground source of drinking water and any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.
 - 2. The written submission shall contain a description of and a discussion of the cause of the noncompliance and if it has not been corrected, the anticipated time the noncompliance is expected to continue, the steps being taken to reduce, eliminate and prevent recurrence of the noncompliance and all information required by Rule 62-28.230(4)(b), F.A.C.

PERMITTEE:

Gary Dernlan

ID No.: 450-4393

Permit/Certification No.: 138308-037-WC

Date of Issue: 12/20/99

Expiration Date: 12/21/2004

GENERAL CONDITIONS: (16 CONT'D.).

- d. The Department shall be notified at least one hundred eighty (180) days before conversion or abandonment of an injection well, unless abandonment within a lesser period of time is necessary to protect waters of the state.

17. The following conditions also shall apply to a hazardous waste facility permit.

- a. The following reports shall be submitted to the Department:

1. Manifest discrepancy report. If a significant discrepancy in a manifest is discovered, the permittee shall attempt to rectify the discrepancy. If not resolved within fifteen (15) days after the waste is received, the permittee shall immediately submit a letter report, including a copy of the manifest, to the Department.
2. Unmanifested waste report. The permittee shall submit an unmanifested waste report to the Department within fifteen (15) days of receipt of unmanifested waste.
3. Biennial report. A biennial report covering facility activities during the previous calendar year shall be submitted by March 1 of each even numbered year pursuant to Chapter 62-730, F.A.C.

- b. Notification of any noncompliance which may endanger health or the environment, including the release of any hazardous waste that may endanger public drinking water supplies or the occurrence of a fire or explosion from the facility which could threaten the environment or human health outside the facility, shall be reported verbally to the Department within twenty four (24) hours and a written report shall be provided within five (5) days. The verbal report shall include the name, address, ID number and telephone number of the facility, its owner or operator, the name and quantity of materials involved, the extent of any injuries, an assessment of actual or potential hazards and the estimated quantity and disposition of recovered material. The written submission shall contain:

1. A description and cause of the noncompliance.
2. If not corrected, the expected time of correction and the steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.

- c. Reports of compliance or noncompliance with, or any progress reports on, requirements in any compliance schedule shall be submitted no later than fourteen (14) days after each schedule date.

PERMITTEE:

Gary Dernlan

ID No.: 450-4393

Permit/Certification No.: 138308-037-WC

Date of Issue: 12/20/99

Expiration Date: 12/21/2004

GENERAL CONDITIONS: (17 Cont'd.)

- d. All reports or information required by the Department by a hazardous waste permittee shall be signed by a person authorized to sign a permit application.

SPECIFIC CONDITIONS:

1. The permittee shall retain a Florida registered professional engineer as the engineer of record for this project. Upon completion of construction, the engineer of record or the system's professional engineer who was responsible for overseeing construction, shall submit certification of complete conformity to the plans and specifications as approved. Certification to such inspection on DEP Form 62-555.900(9) along with one (1) set of record drawings shall be provided to the Palm Beach County Health Department (PBCHD) prior to release for use. Drawings are to be at the same scale and in the same sequence as those submitted and approved for permit. Deviations from the original permitted drawings are to be highlighted and/or noted for Department's review. A written release for use shall be obtained from the PBCHD prior to placing the newly constructed facilities in service.
2. Prior to construction of any well, the permittee shall obtain the services of a certified well driller who shall make application for and obtain a well drilling permit from the South Florida Water Management District in accordance with Department rules and regulations.
3. The wells shall be cleaned, disinfected and bacteriologically cleared in accordance with Chapter 62-555.315(3), F.A.C. Prior to sampling for bacteriological clearance, the well shall be thoroughly pumped until no trace of the disinfecting agent can be found. Daily samples for twenty (20) or more consecutive workdays shall be collected after pumping the well on each consecutive day for twenty (20) to thirty (30) minutes at the rated capacity of the permanent pump. Upon a showing by the supplier of water that circumstances warrant it, the Department shall allow the required number of samples or collection interval to be modified. No more than two (2) samples, at least six (6) hours apart, shall be collected per day. The samples shall be handled in accordance with acceptable methods as stated in "Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989". The bacteriological clearance data, copy of the well construction permit, the well driller's completion report and a detailed drawing of the well construction shall be submitted to the PBCHD, with the engineer's certification and a release for use shall be obtained prior to placing the well into service.

PERMITTEE:

Gary Dernlan

ID No.: 450-4393

Permit/Certification No.: 138308-037-WC

Date of Issue: 12/20/99

Expiration Date: 12/21/2004

4. As a community public water system, chemical analysis of the raw water for nitrate, nitrite, inorganics, volatile organics, pesticides and PCBs, turbidity, radionuclides, group I, II and III unregulated organics and secondary contaminants of Chapter 62-550, F.A.C. shall be submitted to the Department prior to release for use. In the event that the levels found are greater than the maximum contaminant levels set by Chapter 62-550, F.A.C. corrective measures must be taken to bring it into compliance prior to release for use.

Contact Palm Beach County Environmental Resources Management for information regarding their required chemical analysis, also required prior to release.

5. Provide the actual documented well yield in gallons per minute prior to release of any wells for use. If actual yield is less than the expected yield described in the permit application package, the rated capacity of the treatment system may be decreased accordingly.
6. Coatings and the chemicals that are contained in coatings which are applied to a surface in contact with drinking water, or are otherwise on equipment surfaces that come into contact with the water and additives and chemicals used to treat water shall be certified as being in conformance with American National Standards Institute (ANSI) and NSF International Standard 60-1988 by an entity certified by ANSI. Water system components which come into contact with drinking water shall be certified as being in conformance with ANSI/NSF Standard 61-1991, Drinking Water System Components, by an entity certified by ANSI.
7. For new wells placed in areas of existing sanitary sewers, the sewers in Zone One and Two must be pressure tested at each point, grouted and sealed with proof of testing provided to the PBCHD prior to release of the wells for service.
8. Additional testing of raw water to include a minimum of two samples at each wellhead for fecal coliform, total coliform and turbidity shall be required on a monthly basis due to the proximity of these wells to the Hillsborough Canal.

PERMITTEE:

Gary Demlan

ID No.: 450-4393

Permit/Certification No.: 138308-037-WC

Date of Issue: 12/20/99

Expiration Date: 12/21/2004

9. If raw water from any well is proposed as a supply to the existing lime softening plant or for blending with finished water, a testing program to determine if such well is Under the Direct Influence (UDI) of surface water shall be implemented prior to use. Testing shall be in accordance with the "EPA Consensus Method for Determining Groundwater Under the Direct Influence Using the Microscopic Particulate Analysis" and must be performed by an approved laboratory. Testing protocol must be approved by the UDI section of the Department of Health Drinking Water Program (telephone 850-922-6978) in Tallahassee prior to testing.

ISSUED THIS 20 DAY OF December 1999



Jean M. Malecki, MD, MPH, Director
Palm Beach County Health Department

Department of Environmental Protection

Application for a Public Drinking Water Facility Construction Permit

INSTRUCTIONS: This form shall be completed and submitted by persons proposing to construct new, or alter existing, public drinking water facilities unless such proposed construction or alteration is permitted under the "General Permit for Construction of an Extension to a Public Drinking Water Distribution System," in which case Form 62-555.900(7) is to be completed and submitted. Complete this form and submit it in quadruplicate to the appropriate district office of the Department or the appropriate Approved County Public Health Unit (ACPHU) along with a check for the proper application processing fee and the following supporting documents: a signed and sealed engineering report (including design data); signed and sealed engineering plans and specifications; a certificate that the project has been approved by the governing body of the applicant (city commissioners, corporation, board, etc.); and, for each project involving the construction of a new drinking water treatment plant in a county regulated by the Florida Public Service Commission (PSC), a copy of the PSC certificate authorizing the applicant to provide service or a copy of the PSC order exempting the applicant from PSC regulation. All supporting documents, as well as this form, shall be submitted in quadruplicate. All information provided on this form shall be typed or printed in ink. Complete Parts I, II, IV, V, and VI.A of this form for all projects, and complete Parts III and VI.B through VI.E of this form when applicable. A signature page or cover letter for engineering reports, each sheet of engineering plans, and a cover or index sheet for engineering specifications shall be signed, dated, and sealed with an impression-type metal seal by the professional engineer(s) in responsible charge of the documents. Also, engineering plans and specifications shall be those intended for construction and shall not be stamped otherwise (e.g., "For Permitting Only," "For Review Only," etc.). Application processing fees are listed in Rule 62-4.050, Florida Administrative Code (F.A.C.). Checks for application processing fees shall be made payable to the Department of Environmental Protection or to the appropriate ACPHU. NOTE THAT A SEPARATE APPLICATION AND A SEPARATE PROCESSING FEE ARE REQUIRED FOR EACH NON-CONTIGUOUS PUBLIC DRINKING WATER DISTRIBUTION SYSTEM PROJECT.

I. NAME, DESCRIPTION, AND LOCATION OF PROJECT; APPLICANT; ETC.

Project Name: Palm Beach County Water Utilities Department Water Treatment Plant No. 9 Wellfield Improvement Project

Project Description:

Construction of nine (9) raw water supply wells: 9W-17, 9W-18, 9W-19, 9W-20, 9W-21, 9W-22, 9W-23, 9W-24, 9W-25 at the Water Treatment Plant No. 9.

Project Location

County: Palm Beach Section: 36 Township: 47 Range: 41

Latitude and Longitude of Each New Treatment Plant and Each New Raw Water Source (attach additional sheets if necessary): ** See TABLE 1 on attached sheet for additional wells **

Name of New Treatment Plant or Raw Water Source	Latitude	Longitude
9W-17	26 ° 19 ' 05 " N	80 ° 12 ' 10 " W
9W-18	26 ° 19 ' 10 " N	80 ° 12 ' 20 " W
9W-19	26 ° 19 ' 15 " N	80 ° 12 ' 30 " W

Applicant

Utility/Company Name: Palm Beach County Water Utilities Department Telephone No.: (561) 641 - 3429

Address: 2065 Prairie Road, P.O. Box 16097

City: West Palm Beach State: FL Zip Code: 33416 - 6097

Public Water System Supplying Water for Project (complete for distribution system projects) N / A

System Name: _____ PWS Identification No.: _____

System Owner: _____ Telephone No.: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Application for a Public Drinking Water Facility Construction Permit

Project Name: Water Treatment Plant No. 9 Wellfield Improvement Project
Applicant: Palm Beach County Water Utilities Department

Owner/Operator of Project After It Is Placed into Service

Utility/Company Name: Palm Beach County Water Utilities Department Telephone No.: (561) 641 - 3429
Address: 2065 Prairie Road, P.O. Box 16097
City: West Palm Beach State: FL Zip Code: 33416 - 6097

Professional Engineer in Responsible Charge of Designing Project

Name of Engineer: Michael D. Samyn
Firm Name: Montgomery Watson Americas, Inc. Telephone No.: (561) 586 - 8830
Address: 2328 10th Avenue North, Suite 501
City: Lake Worth State: FL Zip Code: 33461

II. STATEMENT BY APPLICANT

I, the undersigned owner or authorized representative* of Palm Beach County Water Utilities Department, certify that all components that will be installed under this project and that will come into contact with drinking water or drinking water treatment chemicals (except components that will come into contact with raw water prior to its treatment by reverse osmosis) conform, or will conform, with American National Standards Institute/NSF International (ANSI/NSF) Standard 61. Also, I certify that all drinking water treatment chemicals that will be supplied under this project except fluoridation chemicals conform, or will conform, with ANSI/NSF Standard 60 and that all fluoridation chemicals that will be supplied under this project conform, or will conform, with ANSI and American Water Works Association Standard B701, B702, or B703 as applicable.

I agree that we will require the contractor to furnish us with record drawings for this project. Also, I agree that we will retain a professional engineer registered in Florida to inspect construction of this project for the purpose of determining if work proceeds in compliance with the construction permit and approved engineering plans and specifications.

I am fully aware that we must obtain a letter of clearance from the Department before we place this project into service for any purpose other than disinfection, testing for leaks, or testing equipment operation. Also, I am fully aware that, if we sell or legally transfer ownership of this project before obtaining a letter of clearance from the Department, we must submit to the Department an "Application for Transfer of a Public Water System Construction Permit" within 30 days after such sale or legal transfer of ownership.


Signature and Date

Gary Dernlan - Director, PBC Water Utilities Department
Name and Title (please type or print)

* Attach a letter of authorization.

III. STATEMENT BY PUBLIC WATER SYSTEM SUPPLYING WATER FOR PROJECT (complete for distribution system projects)

I, the undersigned owner or authorized representative* of _____, certify that we will provide the potable water supply required by this project. As indicated below, the water treatment plant to which this project will be connected has the capacity to provide the potable water supply required by this project, and I certify that said plant is in compliance with the standards and criteria set forth in Chapters 62-550, 62-555, and 62-560, F.A.C. Also, said plant was constructed under one or more valid Department construction permits as indicated below, and I certify that connection of this project to said plant will not be a violation of any condition of this(these) construction permit(s).

Name of Water Treatment Plant to Which this Project Will Be Connected: _____

Construction Permit Number(s) for Plant and Date(s) Permit(s) Issued: _____

Permitted Maximum Day Capacity of Plant: _____

Maximum Day Flow at Plant as Recorded on Monthly Operating Reports During Past 12 Months: _____

N/A
Signature and Date

Name and Title (please type or print)

* Attach a letter of authorization.

IV. STATEMENT BY OWNER/OPERATOR OF PROJECT AFTER IT IS PLACED INTO SERVICE

I, the undersigned owner or authorized representative* of Palm Beach County Water Utilities Department, certify that we will be the owner/operator of this project after it is placed into service. I agree that we will operate and maintain this project in a manner that will comply with Chapters 62-550, 62-555, 62-560, and 62-699, F.A.C.; and I certify that all drinking water treatment chemicals that we will use except fluoridation chemicals conform, or will conform, with American National Standards Institute/NSF International (ANSI/NSF) Standard 60 and that all fluoridation chemicals that we will use conform, or will conform, with ANSI and American Water Works Association Standard B701, B702, or B703 as applicable. Also, I agree that we will promptly notify the Department if we sell or legally transfer ownership of this project.


 Signature and Date

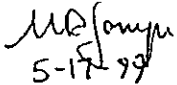
Gary Dernlan - Director, PBC Water Utilities Department
 Name and Title (please type or print)

* Attach a letter of authorization.

V. STATEMENT BY PROFESSIONAL ENGINEER IN RESPONSIBLE CHARGE OF DESIGNING PROJECT

I, the undersigned professional engineer registered in Florida, certify that I am in responsible charge of the preparation and production of engineering documents for this project; that I have expertise in the design of water treatment, storage, and distribution facilities; and that, to the best of my knowledge and belief, the engineering design for this project complies with Chapter 62-555, F.A.C., and provides reasonable assurance of compliance with Chapter 62-550, F.A.C.

The plans and specifications for this project require that all new and relocated project components that will come into contact with drinking water or drinking water treatment chemicals (except components that will come into contact with raw water prior to its treatment by reverse osmosis) be in conformance with American National Standards Institute/NSF International (ANSI/NSF) Standard 61. Also, the plans and specifications for this project require that all drinking water treatment chemicals supplied under this project except fluoridation chemicals be in conformance with ANSI/NSF Standard 61 and that all fluoridation chemicals supplied under this project be in conformance with ANSI and American Water Works Association Standard B701, B702, or B703 as applicable.


 5-17-99

 Signature, Date, and Seal

Michael D. Samyn, FL PE 0049379
 Name and License Number (please type or print)

VI. SUMMARY OF DESIGN DATA FOR PROJECT

A. General N/A

System PWS Identification Number, Name, Owner, and Type

1. System PWS Identification Number (if existing system): _____
2. System Name: _____
3. System Owner: _____
4. System Type: G community; G non-transient non-community; G non-community; G consecutive

System Service Area

5. Nature and Extent of Existing Service Area and Design/Projected Service Area: _____

Application for a Public Drinking Water Facility Construction Permit

Project Name: Water Treatment Plant No. 9 Wellfield Improvement Project

Applicant: Palm Beach County Water Utilities Department

6. Number of Existing Service Connections: _____
7. Existing Significant Industrial Water Users (industries with an average or maximum daily water demand that is 1% of the total average or maximum daily water demand on the system) (attach additional sheets if necessary):

Name of Facility	Type of Facility	Present Daily Water Demand	
		Average	Maximum

8. Regulated Consecutive Public Water Systems Presently Connected to this System (attach additional sheets if necessary):

Name of System	Type of System	Any Existing Significant Industrial Water

* IF YES, PROVIDE ON AN ATTACHMENT THE NAMES OF THE USERS AND THEIR PRESENT AVERAGE AND MAXIMUM DAILY WATER DEMANDS.

Present Population Served by System and Present Water Demand

9. Present Population Served Directly (excluding all regulated consecutive public water systems): _____
10. Present Total Population Served (including all consecutive public water systems): _____
11. Present Annual Average Day Water Demand: _____
12. Present Per Capita Annual Average Day Water Demand: _____
13. Present Maximum Day Water Demand: _____
14. Present Maximum Hour Water Demand: _____

Design Population and Water Demand for System

15. Design Year and Estimated Total Population to Be Served in Design Year: _____
16. Projected Annual Average Day Water Demand in Design Year and Basis of Projection: _____
- _____
- _____
17. Projected Maximum Day Water Demand in Design Year and Basis of Projection: _____
- _____
- _____
18. Projected Maximum Hour Water Demand in Design Year and Basis of Projection: _____
- _____
- _____
19. Design Fire Demand (flow rate and duration) and Basis of Design: _____
- _____
- _____

System Raw Water Sources and Collection Facilities

20. Existing Ground Water Sources and Wells (attach additional sheets if necessary):

Name of Treatment Plant Supplied	Name of Aquifer from Which Raw Water Is Withdrawn	Number of Existing Wells	Total Capacity of Existing Wells (All Wells in Service)	Total Capacity of Existing Wells When Largest Well Is Out of Service

Application for a Public Drinking Water Facility Construction Permit

Project Name: Water Treatment Plant No. 9 Wellfield Improvement Project

Applicant: Palm Beach County Water Utilities Department

21. Existing Surface Water Sources and Raw Surface Water Pumps (attach additional sheets if necessary):

Name of Treatment Plant Supplied	Name of Surface Water from Which Raw Water Is Withdrawn	Number of Existing Pumps	Total Capacity of Existing Pumps When Largest Pump Is Out of Service

22. Existing Purchased Water Sources (attach additional sheets if necessary):

Name of Primary Water System Supplying Water

23. Will existing raw water sources and collection facilities (including raw water pumping facilities) be altered under this project, or are new raw water sources or collection facilities (including raw water pumping facilities) proposed under this project? Yes IF YES, COMPLETE PART VI.B BELOW.

System Treatment Facilities

24. Existing Treatment Plants (attach additional sheets if necessary):

Plant Name	Existing Permitted Maximum Day Capacity of Plant	Existing Maximum Hour Capacity of Plant*	Component That Limits Existing Capacity of Plant	Existing Type of Treatment at Plant

* Provide this only when increased treatment and/or finished water pumping capacity is provided in lieu of sufficient downstream/distribution storage volume to meet peak water demands.

25. Will existing treatment facilities (including in-plant and finished water pumping facilities) be altered under this project, or are new treatment facilities (including in-plant and finished water pumping facilities) proposed under this project? _____ IF YES, COMPLETE PART VI.C BELOW.

System Finished Water Storage Facilities

26. Existing Plant and Distribution System Finished Water Storage Facilities (attach additional sheets if necessary):

Storage Facility Name/Location	Type of Storage Facility (clearwell, hydropneumatic tank, ground-level reservoir, standpipe, elevated tank,	Existing Useful Volume of Storage Facility

27. Will existing plant or distribution system finished water storage facilities be altered under this project, or are new plant or distribution system finished water storage facilities proposed under this project? _____ IF YES, COMPLETE PART VI.D BELOW.

System Distribution Facilities

28. Will existing distribution facilities (including booster pumping facilities) be altered or extended under this project, or are new distribution facilities (including booster pumping facilities) proposed under this project? _____ IF YES, COMPLETE PART VI.E BELOW.

Interconnections with Other Public Water Systems that Have Separate Water Supply Sources

29. Names of Existing Interconnected Public Water Systems and Purpose of Each Existing Interconnection: _____

Application for a Public Drinking Water Facility Construction Permit

Project Name: Water Treatment Plant No. 9 Wellfield Improvement Project

Applicant: Palm Beach County Water Utilities Department

B. Proposed Altered/New Raw Water Sources and Collection Facilities (including raw water pumping facilities)

Ground Water Sources

1. Name of Treatment Plant to Be Supplied with Raw Water from Proposed Altered/New Wells: Water Treatment Plant No. 9
2. Name of Aquifer from Which Raw Water Will Be Withdrawn by Proposed Altered/New Wells: Surficial Aquifer System
3. Existing and Proposed Altered/New Wells Supplying Raw Water to the Treatment Plant Named in Part VI.B.1 Above (attach additional sheets if necessary): **** See TABLE 2 on attached sheet for additional wells ****

Well Location/Name/Number	Well Status (existing [not to be altered], proposed altered, or proposed new)	Elevation of Top of Well Casing*	Well Yield*	Pumping Water Level*	Type of Well Pump	Well Pump Capacity (gpm) and Total Dynamic Head (ft) ^H
9W - 17	Proposed New	20.8 ft NGVD	1,000 gpm	26 fbis	Submersible	1,000 gpm @ 155 ft
9W - 18	Proposed New	21.5 ft NGVD	1,000 gpm	26 fbis	Submersible	1,000 gpm @ 155 ft
9W - 19	Proposed New	20.0 ft NGVD	1,000 gpm	23 fbis	Submersible	1,000 gpm @ 155 ft
9W - 20	Proposed New	18.0 ft NGVD	1,000 gpm	22 fbis	Submersible	1,000 gpm @ 155 ft
9W - 21	Proposed New	20.5 ft NGVD	1,000 gpm	25 fbis	Submersible	1,000 gpm @ 155 ft

Total Capacity of Existing and Proposed Altered/New Wells (all wells in service): See TABLE 2

Total Capacity of Existing and Proposed Altered/New Wells When Largest Well Is Out of Service: See TABLE 2

* Provide this only for proposed altered/new wells.

^H ATTACH PUMP AND SYSTEM HEAD CURVES FOR PROPOSED ALTERED/NEW WELLS.

4. Water Management District Construction Permit Number(s) (if applicable) for Proposed Altered/New Well(s) and Date(s) Permit(s) Issued: To be obtained by well driller prior to construction.
5. ATTACH A COPY OF THE LOG COMPLETION REPORT (if applicable) FOR EACH PROPOSED ALTERED/NEW WELL. Not Available
6. ATTACH A MAP OF THE AREA WITHIN 500 FEET OF EACH PROPOSED ALTERED/NEW WELL INDICATING SANITARY HAZARDS. See Attached
7. ATTACH RESULTS OF LABORATORY ANALYSES OF RAW WATER FROM NEW GROUND WATER SOURCES (analyses shall be conducted for each applicable water quality standard in Part III of Chapter 62-550, F.A.C., and for new sources in delineated areas, analyses shall be conducted pursuant to Rule 62-524.600, F.A.C.). Testing results for wells 9W-17 to 9W-25 will be filed with the Clearance Application
8. Standby Power Source for Well Pumps: Portable Generator; Well Pumps Connected, or Proposed to Be Connected, to Standby Power. 9W-17, 9W-18, 9W-19, 9W-20, 9W-21, 9W-22, 9W-23, 9W-24 & 9W-25
9. 100-Year, or Highest Known, Flood Elevation in Area of Wells: New wellfield 100-year flood elevation is 16.9 ft NGVD

Surface Water Sources N / A

10. Name of Treatment Plant to Be Supplied with Raw Water from Proposed Altered/New Facilities: _____
11. Name of Surface Water from Which Raw Water Will Be Withdrawn by Proposed Altered/New Facilities: _____
12. Estimated Dry-Weather Flow at Surface Water Intake and Basis of Estimate: _____
13. Description of Existing and Proposed Altered/New Diverting Dams, Impounding Reservoirs, Intake Structures, and/or Infiltration Galleries (attach additional sheets if necessary): _____

14. FOR A PROPOSED NEW OR RELOCATED SURFACE WATER INTAKE, ATTACH A DESCRIPTION AND MAP OF THE WATERSHED AREA ABOVE THE INTAKE INDICATING SANITARY HAZARDS.

Application for a Public Drinking Water Facility Construction Permit

Project Name: Water Treatment Plant No. 9 Wellfield Improvement Project

Applicant: Palm Beach County Water Utilities Department

15. ATTACH RESULTS OF LABORATORY ANALYSES OF RAW WATER FROM NEW SURFACE WATER SOURCES (analyses shall be conducted for each applicable water quality standard in Part III of Chapter 62-550, F.A.C.).

16. Existing and Proposed Altered/New Raw Surface Water Pumps for the Treatment Plant Named in Part VI.B.9 Above (attach additional sheets if necessary):

Pump Name(s)/Number(s)	Pump Status (existing [not to be altered])	Type of Pump	Capacity and Total Dynamic Head for Each Pump*

Total Capacity of Existing and Proposed Altered/New Pumps When Largest Pump Is Out of Service:

* ATTACH PUMP AND SYSTEM HEAD CURVES FOR PROPOSED ALTERED/NEW PUMPS.

17. Standby Power Source for Raw Surface Water Pumps: _____;
Raw Surface Water Pumps Connected, or Proposed to Be Connected, to Standby Power: _____

18. 100-Year, or Highest Known, Flood Elevation in Area of Intake: _____

C. Proposed Altered/New Treatment Facilities (including in-plant and finished water pumping facilities) **N / A**

1. Name of Proposed Altered/New Treatment Plant: _____

2. Previous Construction Permit Number(s) for Plant and Date(s) Permit(s) Issued: _____

3. Design/Projected Annual Average Day Water Demand for Plant and Basis of Design/Projection: _____

4. Design/Projected Maximum Day Water Demand for Plant and Basis of Design/Projection: _____

5. Design/Projected Maximum Hour Water Demand and Design/Projected Fire Demand Plus Coincident Draft for Plant and Basis of Design/Projections (provide this only when increased treatment and/or finished water pumping capacity will be provided in lieu of sufficient downstream/distribution storage volume to meet peak water demands): _____

6. Design Daily Operating Period for Plant: _____;

Design Daily Operating Period for Finished Water Pumping Facilities: _____

7. Design Peak Sustained Operating Flow Rate Through Plant: _____

8. ATTACH RESULTS OF LABORATORY ANALYSES OF RAW WATER FOR THE PLANT (analyses shall be conducted for each applicable water quality standard in Part III of Chapter 62-550, F.A.C.).

9. ATTACH A FLOW DIAGRAM SHOWING ALL EXISTING AND PROPOSED ALTERED/NEW TREATMENT PROCESSES (including waste handling processes), CHEMICAL APPLICATION POINTS, PUMPING FACILITIES, AND TREATMENT BYPASS ARRANGEMENTS FOR THE PLANT.

10. ATTACH A SUMMARY OF DESIGN CRITERIA FOR EACH EXISTING OR PROPOSED ALTERED/NEW TREATMENT PROCESS (including waste handling processes) AND FOR EACH EXISTING OR PROPOSED ALTERED/NEW CHEMICAL TO BE APPLIED AT THE PLANT (design criteria should include basin capacities, retention times, unit loadings, surface loading rates, backwash rates, feeder capacities and ranges, etc.).

Application for a Public Drinking Water Facility Construction Permit

Project Name: Water Treatment Plant No. 9 Wellfield Improvement Project

Applicant: Palm Beach County Water Utilities Department

11. Existing and Proposed Altered/New In-Plant and Finished Water Pumps (attach additional sheets if necessary):

Pump Function/Flow Stream Pumped:			
Pump Name(s)/Number(s)	Pump Status (existing [not to be altered])	Type of Pump	Capacity and Total Dynamic Head for Each Pump*

Total Capacity of Existing and Proposed Altered/New Pumps When Largest Pump Is Out of Service: _____

Pump Function/Flow Stream Pumped:			
Pump Name(s)/Number(s)	Pump Status (existing [not to be altered])	Type of Pump	Capacity and Total Dynamic Head for Each Pump*

Total Capacity of Existing and Proposed Altered/New Pumps When Largest Pump Is Out of Service: _____

Pump Function/Flow Stream Pumped:			
Pump Name(s)/Number(s)	Pump Status (existing [not to be altered])	Type of Pump	Capacity and Total Dynamic Head for Each Pump*

Total Capacity of Existing and Proposed Altered/New Pumps When Largest Pump Is Out of Service: _____

ATTACH PUMP AND SYSTEM HEAD CURVES FOR PROPOSED ALTERED/NEW PUMPS.

12. Method of Disposal of Plant Wastes (Aluminum/Iron Coagulant or Lime Softening Sludge from Clarification, Waste Backwash Water from Filtration, and/or Waste Brine from Ion Exchange or Membrane Processes): _____

13. Standby Power Source for Plant: _____;
 Plant Equipment Connected, or Proposed to Be Connected, to Standby Power: _____

14. 100-Year, or Highest Known, Flood Elevation in Area of Plant: _____

D. Proposed Altered/New Plant and Distribution System Finished Water Storage Facilities N / A

1. Existing and Proposed Altered/New Plant and Distribution System Finished Water Storage Facilities (attach additional sheets if necessary):

Storage Facility Name/Location	Status (existing [not to be altered], proposed altered, or proposed new)	Type of Storage Facility (clearwell, hydropneumatic tank, ground-level reservoir, standpipe, elevated tank,	Gross Volume of Storage Facility	Useful Volume of Storage Facility

Application for a Public Drinking Water Facility Construction Permit

Project Name: Water Treatment Plant No. 9 Wellfield Improvement Project

Applicant: Palm Beach County Water Utilities Department

E. Proposed Altered/New Distribution Facilities (including booster pumping facilities) N / A

Distribution Facilities

1. Design/Projected Annual Average and Maximum Day Water Demands for Proposed Altered/New Distribution Facilities (i.e., water mains) Under this Project:

A = Type of Unit	B = Number of Units	C = Population per Unit	D = Total Population (Columns B x C)	E = Per Capita Average Day Water Demand	F = Total Average Day Water Demand (Columns D x E)	G = Total Maximum Day Water Demand ^H
Single-Family Home						
Mobile Home						
Apartment						
Commercial, Institutional, or Industrial Facility*						
Total						

* Description of Commercial, Institutional, and Industrial Facilities and Explanation of Method Used to Estimate Average Day Water Demand for These Facilities: _____

^H Explanation of Method Used to Estimate Maximum Day Water Demand: _____

2. Design/Projected Maximum Hour Water Demand for Proposed Altered/New Distribution Facilities Under this Project and Basis of Design/Projection: _____

Design/Projected Fire Demand Plus Coincident Draft (usually maximum day water demand) for Proposed Altered/New Distribution Facilities Under this Project and Basis of Design/Projection: _____

3. Operating Pressure Range for Proposed Altered/New Distribution Facilities Under this Project: _____

4. Will any proposed altered/new distribution facilities under this project be installed in areas of ground water for which there is existing documentation of the presence of low-molecular-weight petroleum products or organic solvents at concentrations exceeding ground water standards? _____ If yes, describe the nature and extent of such areas: _____

5. Will any proposed altered/new distribution facilities under this project connect previously separate public water systems that have separate water supply sources? _____ If yes, provide the names of the systems proposed to be interconnected and explain the purpose of each proposed interconnection: _____

Application for a Public Drinking Water Facility Construction Permit

Project Name: Water Treatment Plant No. 9 Wellfield Improvement Project

Applicant: Palm Beach County Water Utilities Department

6. Will the proposed altered/new distribution facilities under this project be part of a community water system or a public water system that has a service area also served by a reclaimed water system? _____ If yes, document that the system has a routine cross-connection control plan, including a written plan, in accordance with Rule 62-555.360, F.A.C.: _____

Booster Pumping Facilities

7. Name/Location of Proposed Altered/New Booster Pumping Station: _____

8. Design/Projected Annual Average and Maximum Day Water Demands for Booster Pumping Station:

A = Type of Unit	B = Number of Units	C = Population per Unit	D = Total Population (Columns B x C)	E = Per Capita Average Day Water Demand	F = Total Average Day Water Demand (Columns D x E)	G = Total Maximum Day Water Demand ^H
Single-Family Home						
Mobile Home						
Apartment						
Commercial, Institutional, or Industrial Facility*						
Total						

* Description of Commercial, Institutional, and Industrial Facilities and Explanation of Method Used to Estimate Average Day Water Demand for These Facilities: _____

^H Explanation of Method Used to Estimate Maximum Day Water Demand: _____

9. Design/Projected Maximum Hour Water Demand and Design/Projected Fire Demand Plus Coincident Draft (usually maximum day water demand) for Booster Pumping Station and Basis of Design/Projections (provide this only when increased pumping capacity will be provided in lieu of sufficient downstream/distribution storage volume to meet peak water demands): _____

10. Existing and Proposed Altered/New Pumps at Booster Pumping Station (attach additional sheets if necessary):

Pump Name(s)/Number(s)	Pump Status (existing [not to be altered])	Type of Pump	Capacity and Total Dynamic Head for Each Pump*

Total Capacity of Existing and Proposed Altered/New Pumps When Largest Pump Is Out of Service:

* ATTACH PUMP AND SYSTEM HEAD CURVES FOR PROPOSED ALTERED/NEW PUMPS.

11. Standby Power Source for Booster Pumping Station: _____; Pumps Connected, or Proposed to Be Connected, to Standby Power: _____

12. 100-Year, or Highest Known, Flood Elevation in Area of Booster Pumping Station: _____

Application for a Public Drinking Water Facility Construction Permit
Project Name: Water Treatment Plant No. 9 Wellfield Improvement Project
Applicant: Palm Beach County Water Utilities Department

TABLE 1

Name of New Treatment Plant or Raw Water Source	Latitude	Longitude
9W-20	26 ° 19 ' 30 " N	80 ° 12 ' 40 " W
9W-21	26 ° 19 ' 35 " N	80 ° 12 ' 50 " W
9W-22	26 ° 19 ' 40 " N	80 ° 13 ' 00 " W
9W-23	26 ° 19 ' 45 " N	80 ° 13 ' 00 " W
9W-24	26 ° 19 ' 50 " N	80 ° 13 ' 10 " W
9W-25	26 ° 19 ' 00 " N	80 ° 13 ' 20 " W

Application for a Public Drinking Water Facility Construction Permit

Project Name: Water Treatment Plant No. 9 Wellfield Improvement Project

Applicant: Palm Beach County Water Utilities Department

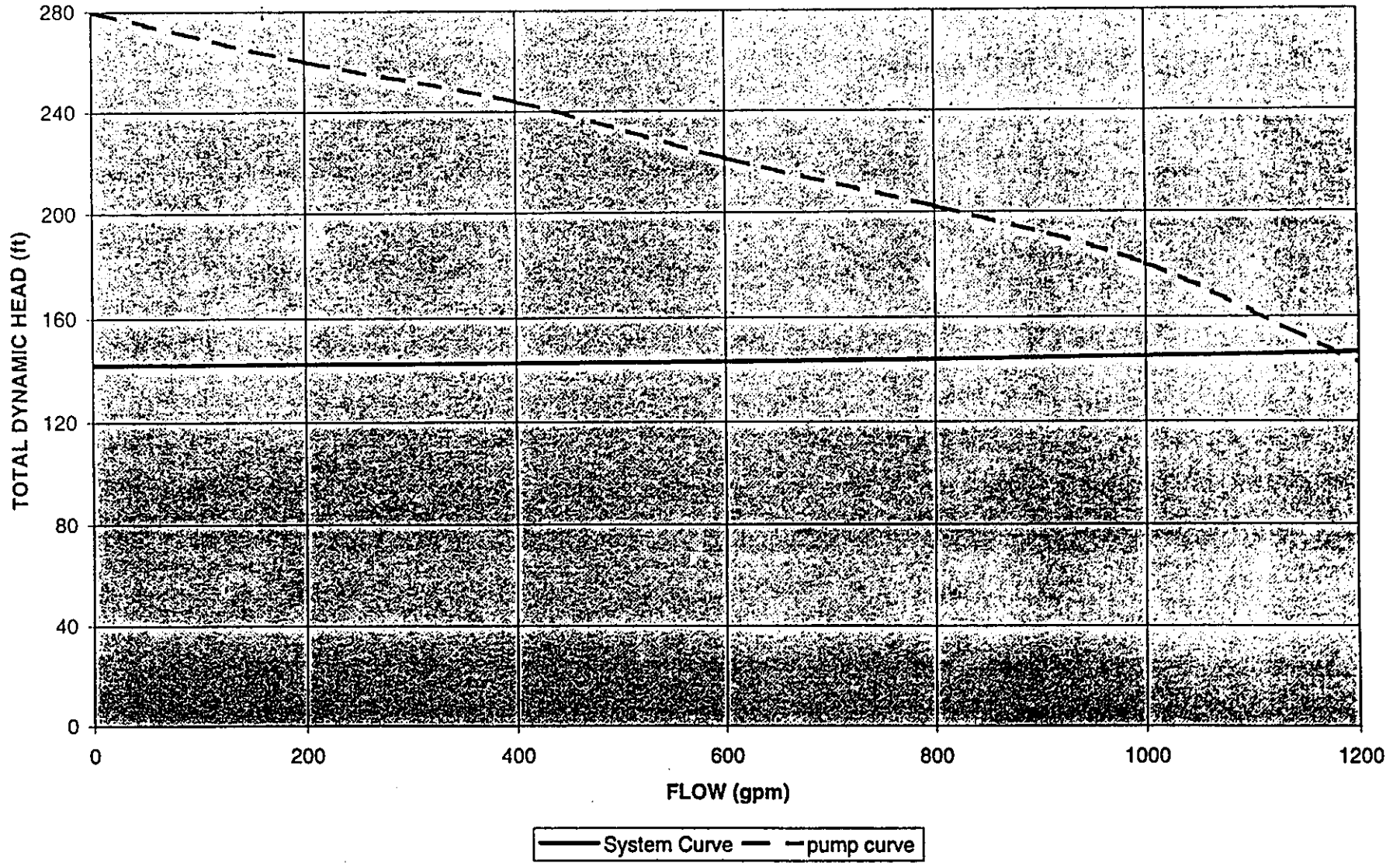
TABLE 2

Well Location/Name/Number	Well Status (existing [not to be altered], proposed altered, or proposed new)	Elevation of Top of Well Casing*	Well Yield*	Pumping Water Level*	Type of Well Pump	Well Pump Capacity and Total Dynamic Head ^H
9W - 22	Proposed New	21.5 ft NGVD	1,000 gpm	30 fbs	Submersible	1,000 gpm @ 155 ft
9W - 23	Proposed New	20.8 ft NGVD	1,000 gpm	30 fbs	Submersible	1,000 gpm @ 155 ft
9W - 24	Proposed New	19.0 ft NGVD	1,000 gpm	30 fbs	Submersible	1,000 gpm @ 155 ft
9W - 25	Proposed New	18.0 ft NGVD	1,000 gpm	30 fbs	Submersible	1,000 gpm @ 155 ft
Total Capacity of Existing and Proposed Altered/New Wells (all wells in service): 9,000 gpm						
Total Capacity of Existing and Proposed Altered/New Wells When Largest Well is Out of Service: 8,000 gpm						

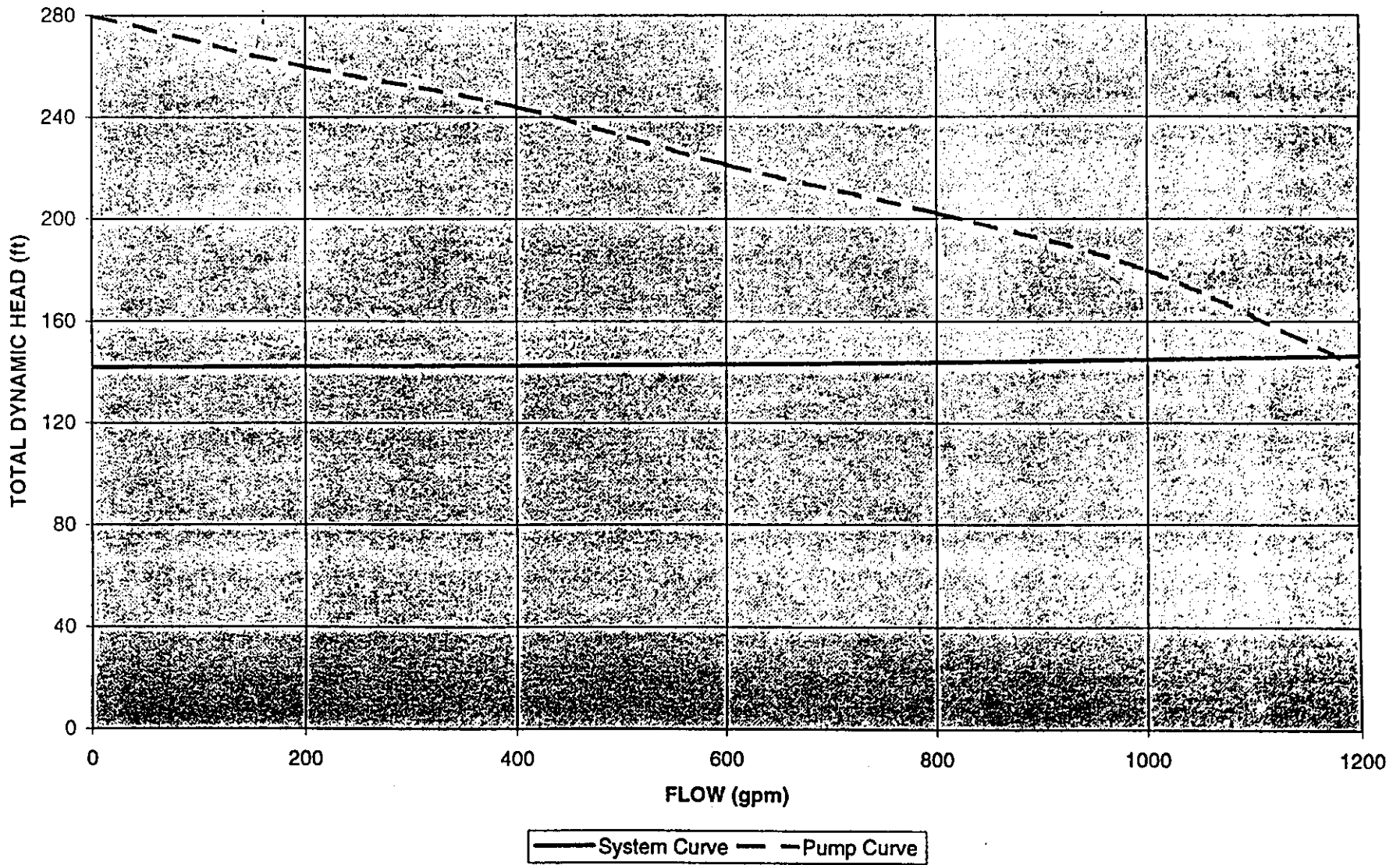
* Provide this only for proposed altered/new wells.

^H ATTACH PUMP AND SYSTEM HEAD CURVES FOR PROPOSED ALTERED/NEW WELLS.

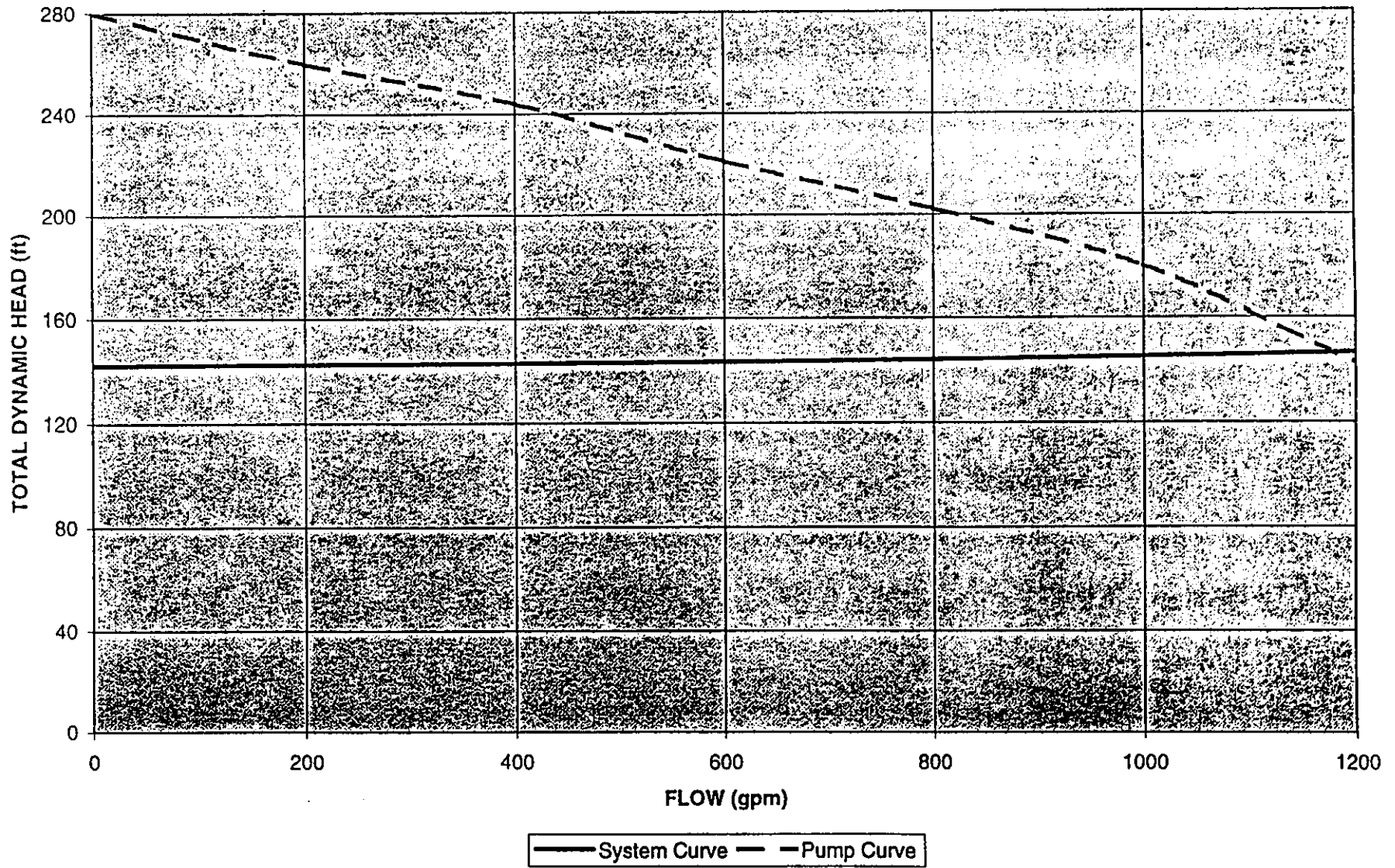
System 9 - Well No. 17 Preliminary Pump and System Curves



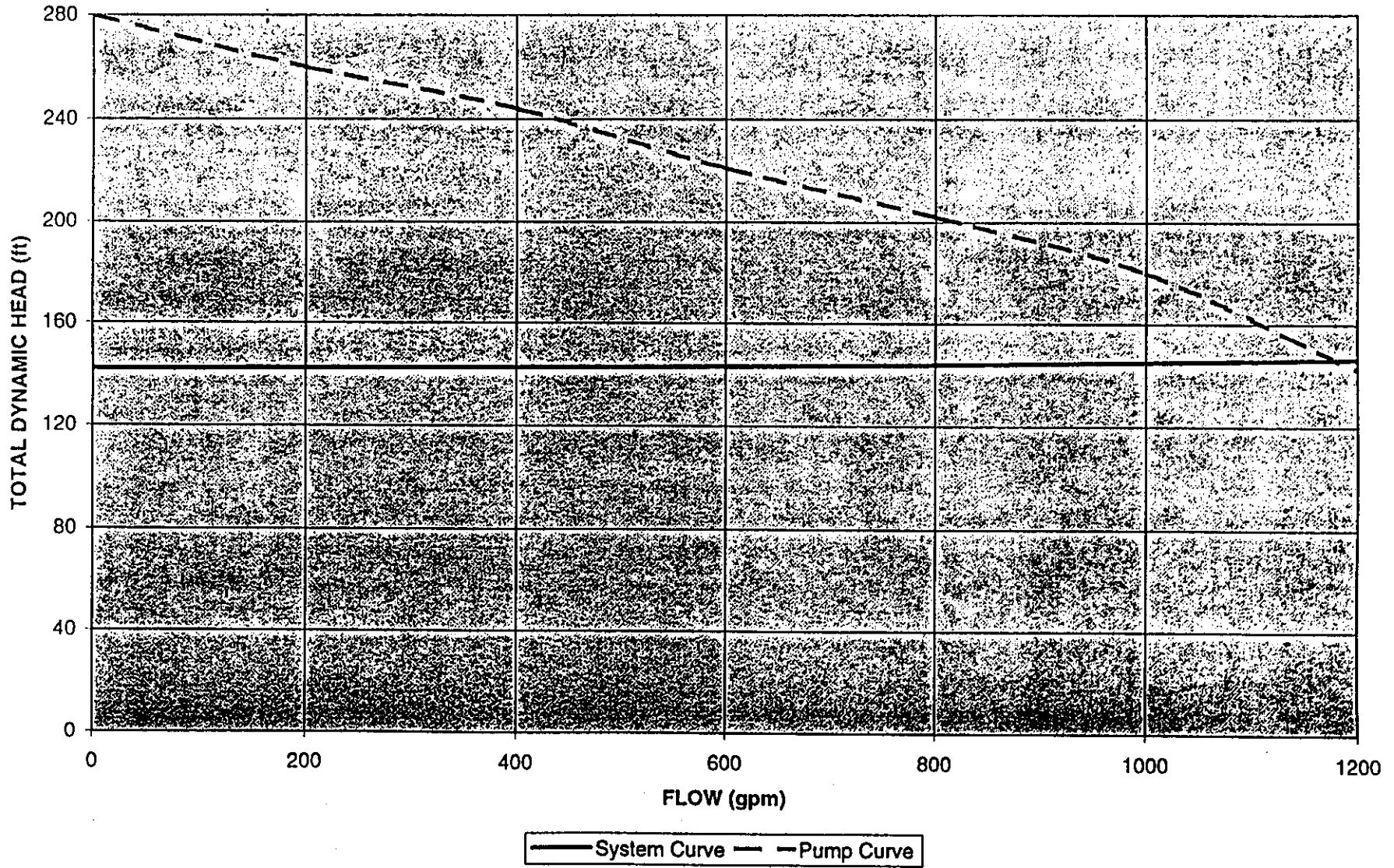
System 9 - Well No. 18 Preliminary Pump and System Curves



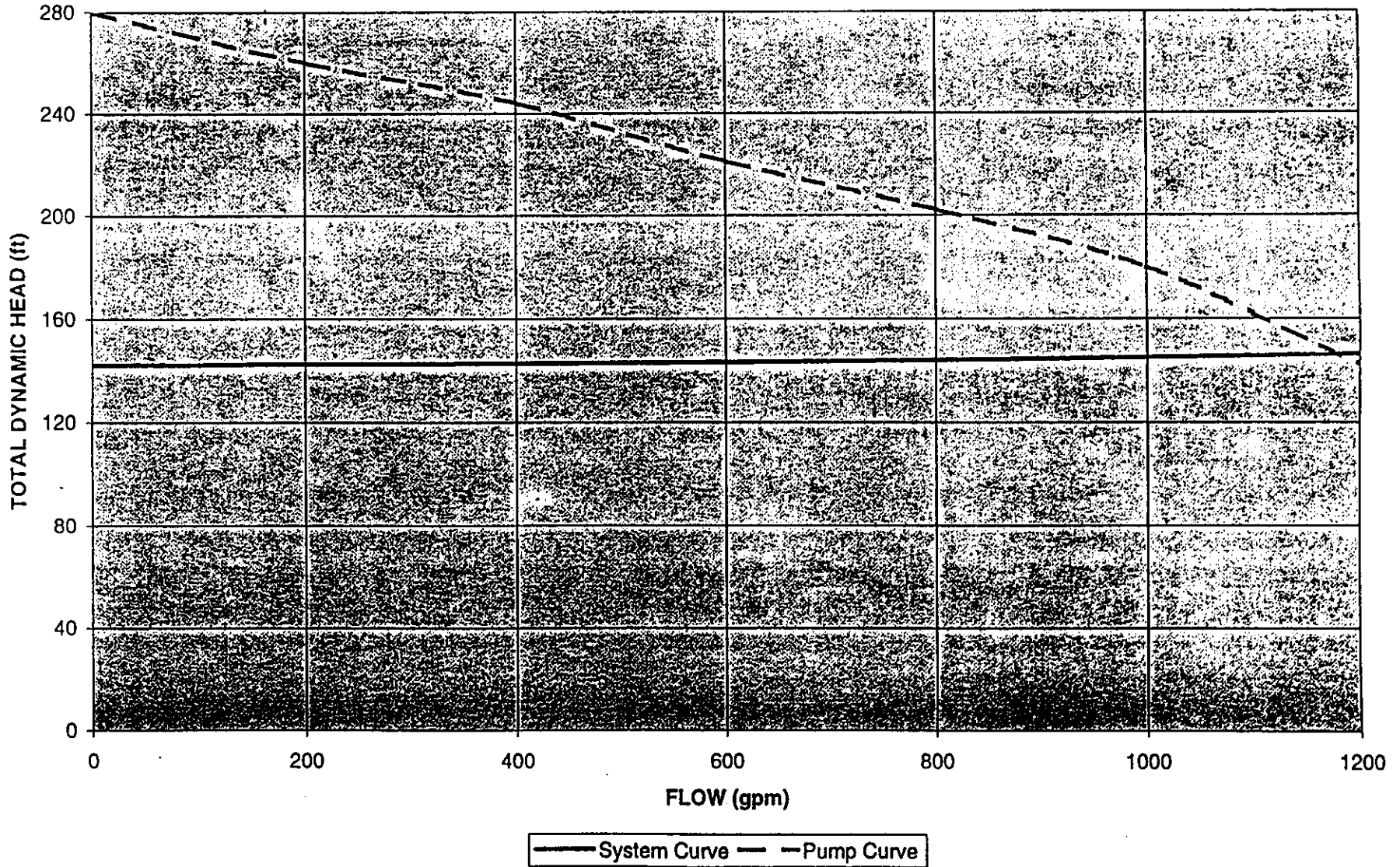
System 9 - Well No. 19 Preliminary Pump and System Curves



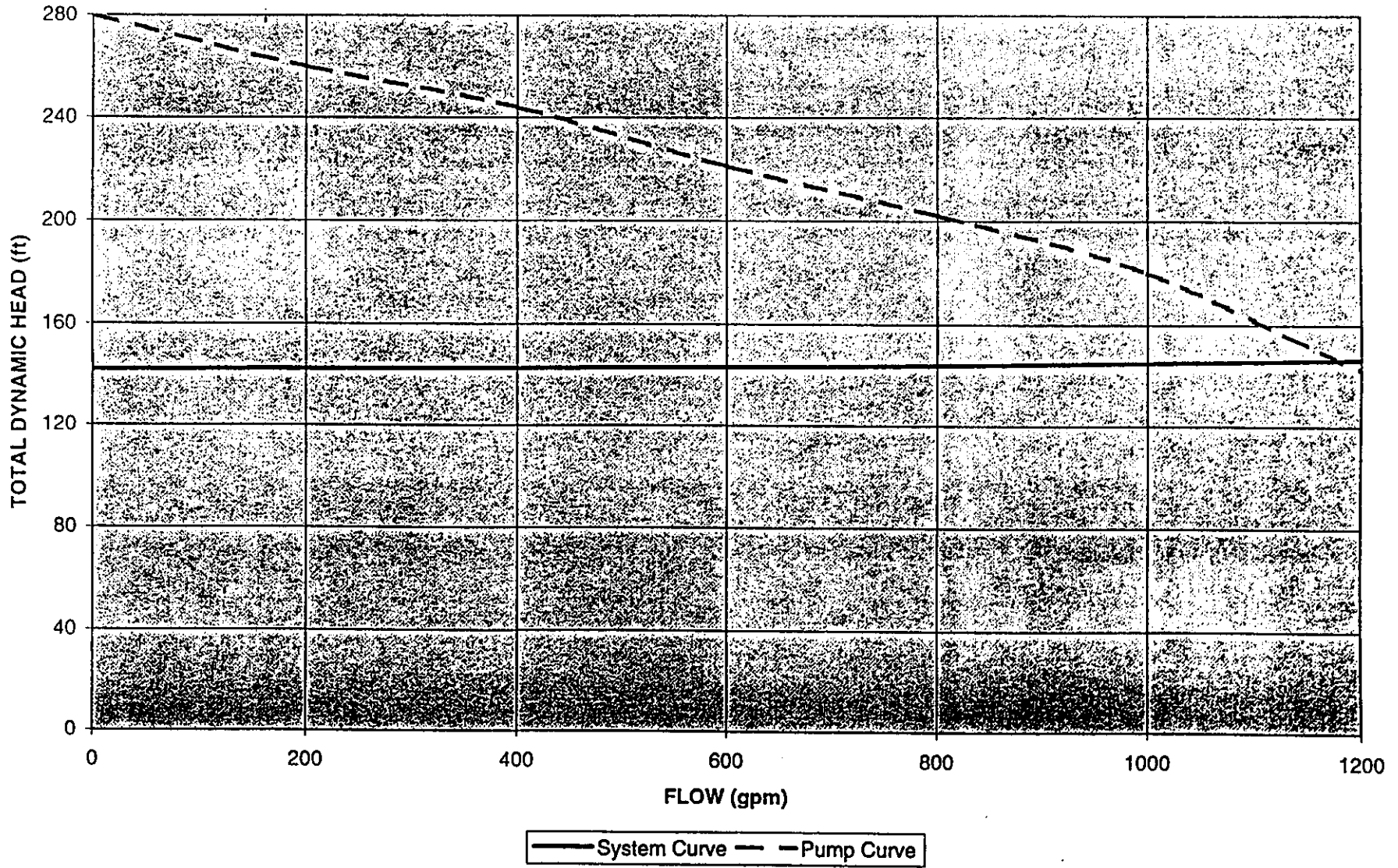
System 9 - Well No. 20 Preliminary Pump and System Curves



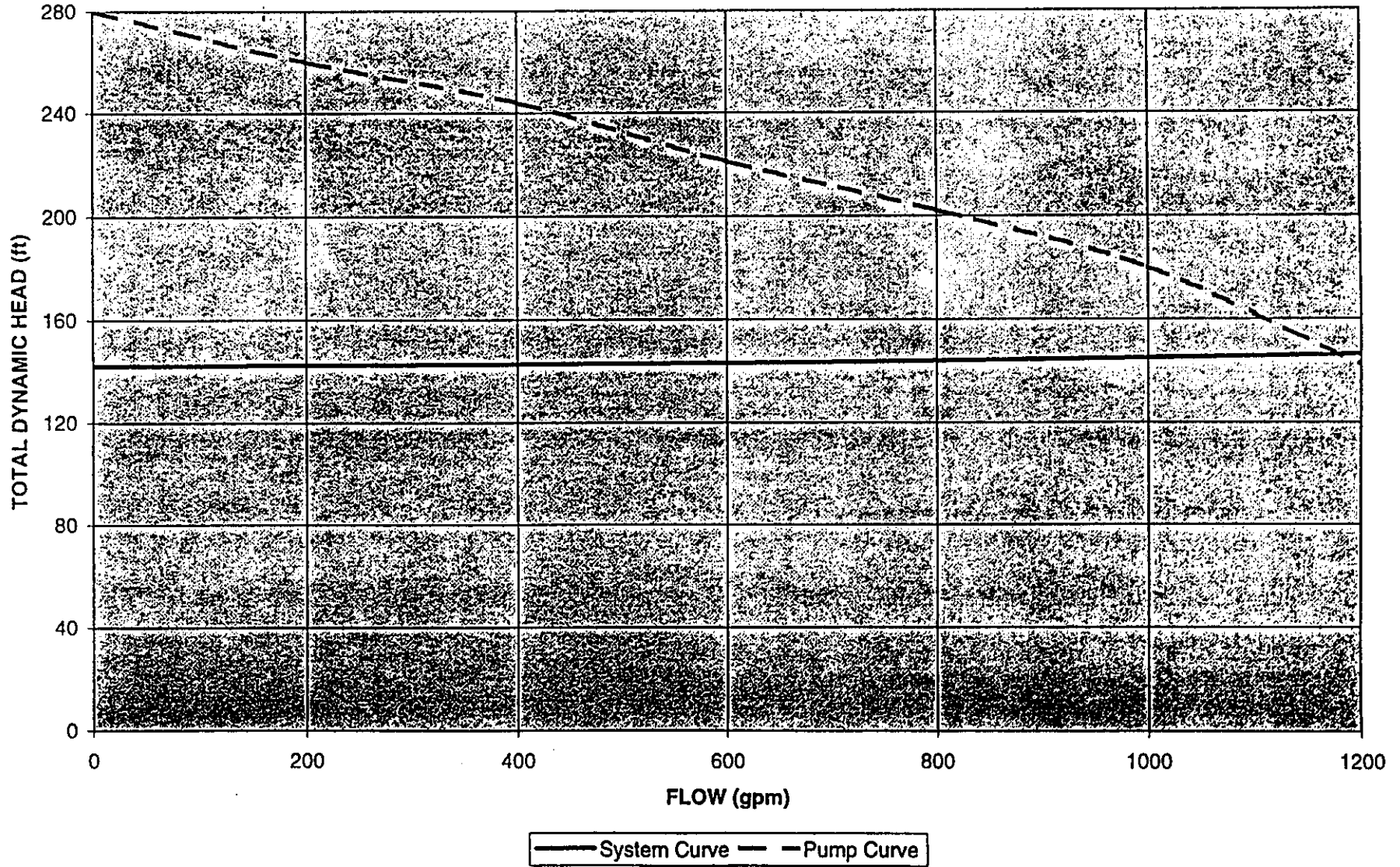
System 9 - Well No. 21 Preliminary Pump and System Curves



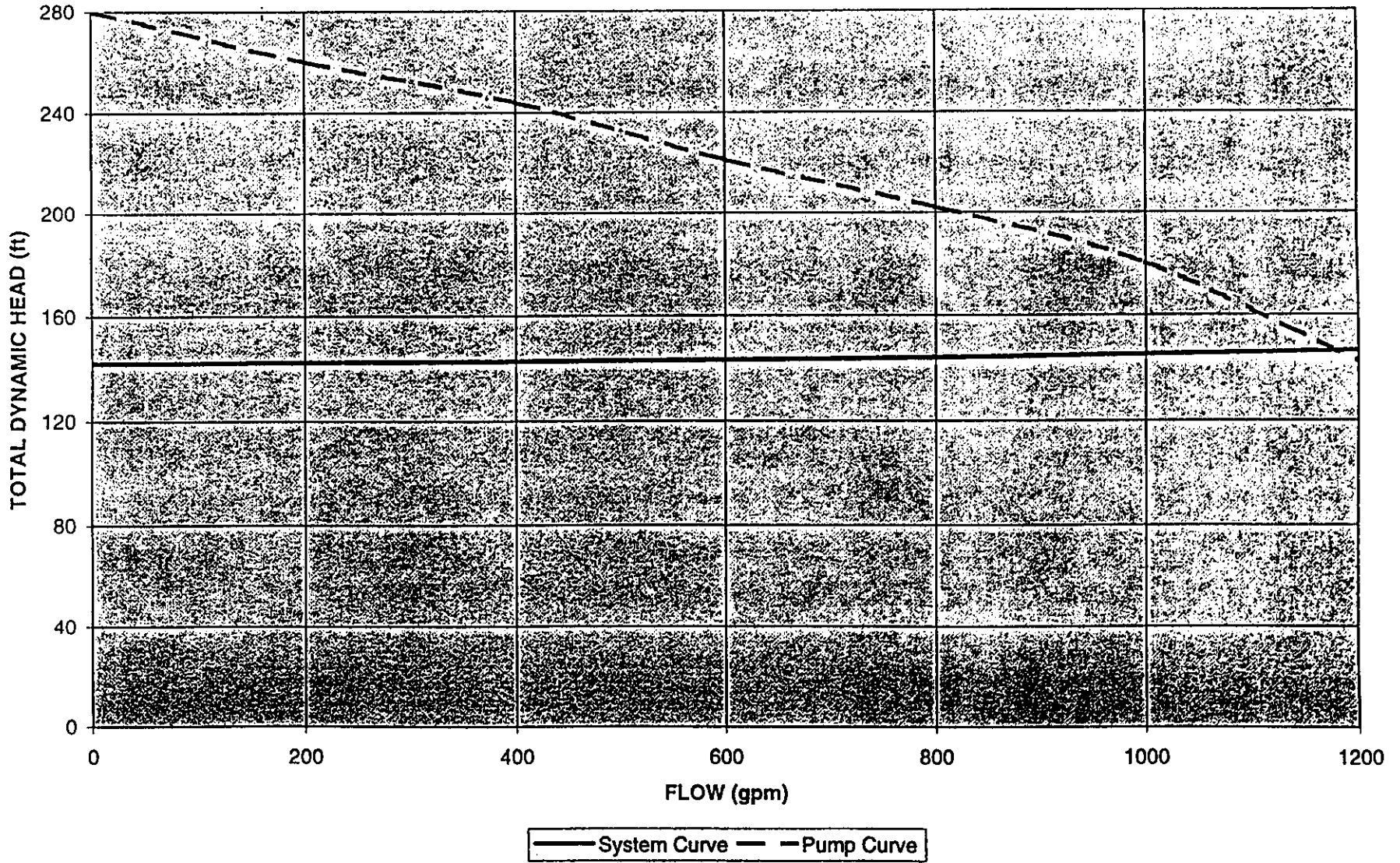
System 9 - Well No. 22 Preliminary Pump and System Curves



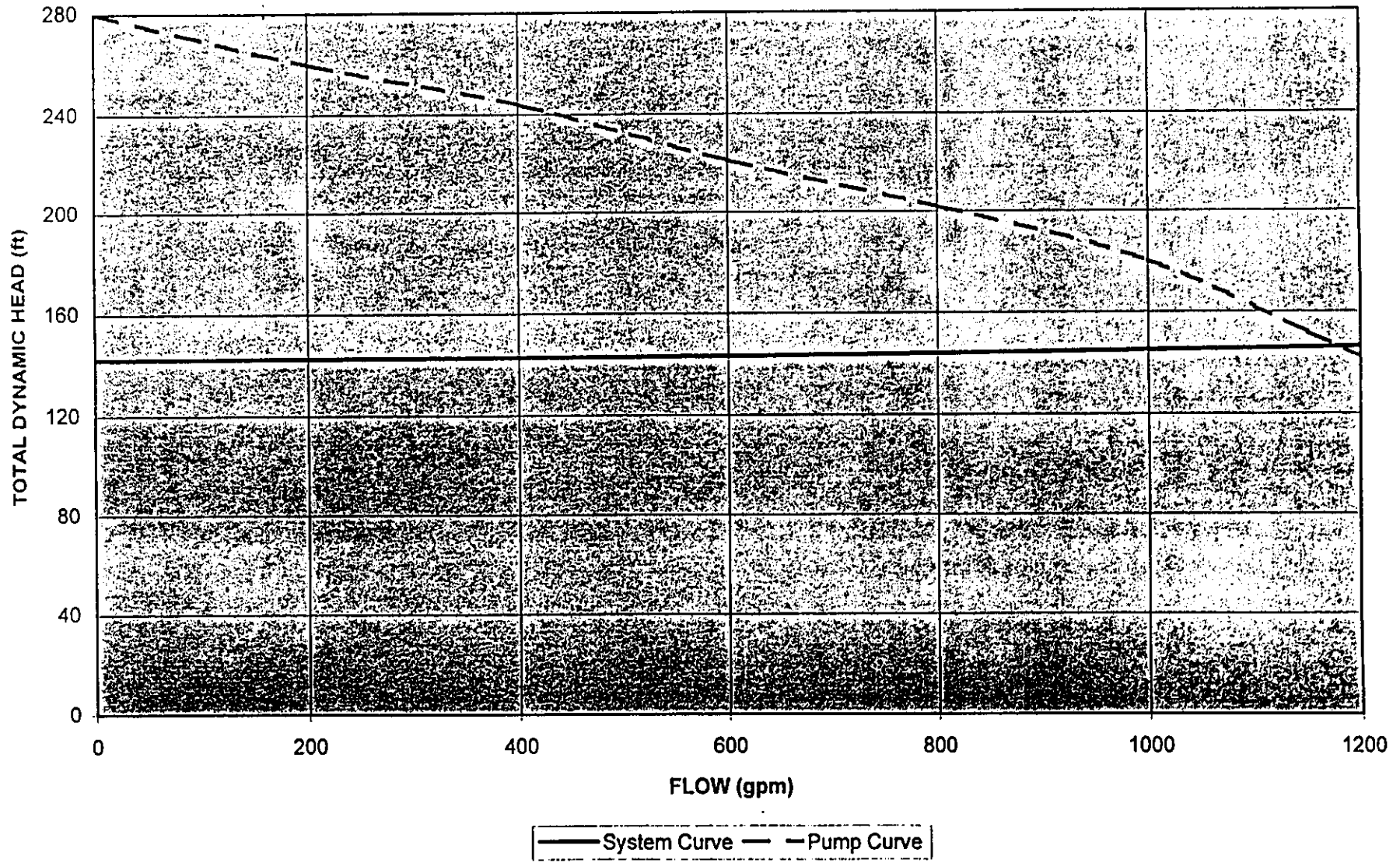
System 9 - Well No. 23 Preliminary Pump and System Curves



System 9 - Well No. 24 Preliminary Pump and System Curves



System 9 - Well No. 25 Preliminary System and Pump Curves





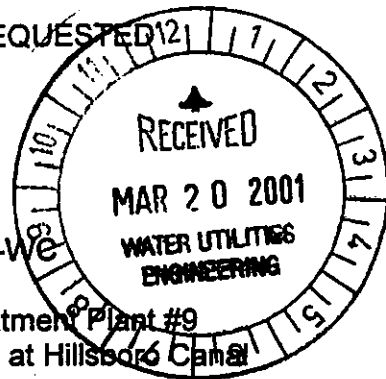
98-66 B
Permits

Jeb Bush
Governor

Robert G. Brooks, M.D.
Secretary

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

NOTICE OF PERMIT ISSUANCE



In the Matter of an Application for Permit by:

Gary D. Demlan, P.E.
Director of Utilities
Palm Beach County Water Utilities
2065 Prairie Road
West Palm Beach, FL 33416

FILE NO.: 138308-091-WC

PROJECT: Water Treatment Plant #9
Wellhead for ASR Well at Hillsboro Canal

Enclosed is Permit Number 138380-091-WC, issued to Gary D. Demlan, P.E., Director of Utilities, Palm Beach County Water Utilities, to construct a wellhead, issued pursuant to Chapter 403, Florida Statutes (F.S.).

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in this Office, Division of Environmental Health & Engineering, Palm Beach County Health Department, 901 Evernia Street, West Palm Beach, Florida, 33401. Petitions filed by the permit applicant and the parties listed below must be filed within fourteen (14) days of receipt of this permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- a. The name, address and telephone number of each petitioner, the applicant's name and address, the Permit File Number and the county in which the project is proposed;
- b. A statement of how and when each petitioner received notice of the Health Department's action or proposed action;
- c. A statement of how each petitioner's substantial interests are affected by the Health Department's action or proposed action;
- d. A statement of the material facts disputed by Petitioner, if any;
- e. A statement of facts which petitioner contends warrant reversal or modification of the Health Department's action or proposed action;

Page Two

- f. A statement of which rules or statutes petitioner contends require reversal or modification of the Health Department's action or proposed action; and
- g. A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Health Department to take with respect to the action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Health Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Health Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within fourteen (14) days of receipt of this notice, in this Office, Division of Environmental Health & Engineering, at the above address of the Palm Beach County Health Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S. and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 62-5.207, Florida Administrative Code (F.A.C.).

This permit is final and effective on the date filed with Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with this Office, Division of Environmental Health & Engineering, Palm Beach County Health Department, 901 Evernia Street, West Palm Beach, Florida 33401; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within thirty (30) days from the date the Final Order is filed with the Clerk of the Department.

Executed in West Palm Beach, Florida, This 19th Day of MARCH, 2001

STATE OF FLORIDA
PALM BEACH COUNTY HEALTH DEPARTMENT



Umesh Asrani, P.E., Assistant Director
Environmental Health & Engineering
901 Evernia Street
West Palm Beach, FL 33401
(561) 355-3070



CERTIFICATE OF SERVICE

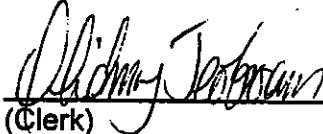
The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE was mailed to the applicant by certified mail and to all listed persons before the close of business on March 19, 2001.

**Palm Beach County Health Department
Environmental Health and Engineering
Plan Review and Permit Section
APPROVED**

Clerk Stamp

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52(II.), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.


(Clerk) 3-19-01
(Date)

cc: Utility: Same as Applicant
Engineer-of-Record: Lyle D. Munce, P.E.
Florida DEP: Iradj Dolatshahi



Jeb Bush
Governor

Robert G. Brooks, M.D.
Secretary

PERMITTEE:

Gary D. Dernlan, P.E.
Director of Utilities
Palm Beach County Water Utilities
2065 Prairie Road
West Palm Beach, FL 33416

ID No.: 450-1047
Permit/Certification: 138308-091-WC
Date of Issue: March ~~10~~, 2001
Expiration Date: March 18, 2006
County: Palm Beach
Utility: Palm Beach County System #9
Latitude/Longitude: 26°19'58"N/80°13'24"W
Section/Township/Range: 35/47/41
Project: Water Treatment Plant #9 -
Wellhead for ASR Well at Hillsboro Canal

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-550, 62-555 & 62-560. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

Construct: An aquifer storage and recovery (ASR) system consisting of one wellhead and associated piping, venturi meters, controls, and instrumentation; one submersible turbine recovery pump rated for 3500 gpm at 215 feet TDH; one well vault equipped with dual sump pumps; and automatic sampling and monitoring equipment for turbidity, dissolved oxygen, and conductivity. The ASR well is connected to an existing sixteen inch (16") raw water line supplied by surficial aquifer well numbers 21 through 25. During storage operations these wells will supply raw water for storage in the Floridan Aquifer. During recovery operations the ASR well will supply up to 5 MGD of recovered water either to the raw water main feeding Water Treatment Plant No. 9 or to the Hillsborough Canal via an outlet structure.

In Accordance With: Application Form DEP 62-555.910(1) and engineers specifications and plan sheets G1 through G7, CG1, C1 through C3, GS1, GS2, S1, S2, GM1, GM2, M1, M2, E1 through E7, and I-1 through I-3 received November 6, 2000, engineering report received November 29, 2000, and letter from engineer received December 20, 2000.

Located: Approximately 1.25 miles west of State Road 7 on the north bank of the Hillsboro Canal in unincorporated Palm Beach County, Florida.

To Serve: Palm Beach County System Number 9 service area.

Subject To: General Conditions 1 - 17 and Specific Conditions 1 - 15.

PERMITTEE:

Gary D. Dernlan, P.E.
Director of Utilities

ID No.: 450-1047
Permit/Certification No.: 138308-091-WC
Date of Issue: March 19, 2001
Expiration Date: March 18, 2006

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161, 403.727, or 403.859 through 403.061, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agent, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability from harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department Rules.

PERMITTEE:

Gary D. Dernlan, P.E.
Director of Utilities

ID No.: 450-1047
Permit/Certification No.: 138308-091-WC
Date of Issue: March 19, 2001
Expiration Date: March 18, 2006

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. having access to and copying any records that must be kept under the conditions of the permit;
 - b. inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the Department with the following information:
 - a. a description of and cause of noncompliance; and
 - b. the period on noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case arising under the Florida Statutes of department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

PERMITTEE:

Gary D. Demlan, P.E.
Director of Utilities

ID No.: 450-1047
Permit/Certification No.: 138308-091-WC
Date of Issue: March 19, 2001
Expiration Date: March 18, 2006

GENERAL CONDITIONS:

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 62-4.12 and 62-30.30, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
 - () Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
 - b. The permittee shall retain at the facility, or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit and records of all data used to complete the application for this permit. The time period of retention shall be at least three (3) years from the date on the sample, measurement, report or application unless otherwise specified by department rule.
 - c. Records of monitoring information shall include:
 - the date, exact place, the time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

PERMITTEE:

Gary D. Demlan, P.E.
Director of Utilities

ID No.: 450-1047
Permit/Certification No.: 138308-091-WC
Date of Issue: March 19, 2001
Expiration Date: March 48, 2006

GENERAL CONDITIONS:

15. When requested by the department, the permittee shall, within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

16. In the case of an underground injection control permit, the following permit conditions also shall apply:
 - a. All reports or information required by the Department shall be certified as being true, accurate and complete.

 - b. Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date.

 - c. Notification of any noncompliance which may endanger health or the environment shall be reported verbally to the Department within twenty four (24) hours and again within seventy two (72) hours and a final written report provided within two (2) weeks.
 1. The verbal reports shall contain any monitoring or other information which indicate that any contaminant may endanger an underground source of drinking water and any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

 2. The written submission shall contain a description of and a discussion of the cause of the noncompliance and if it has not been corrected, the anticipated time the noncompliance is expected to continue, the steps being taken to reduce, eliminate and prevent recurrence of the noncompliance and all information required by Rule 62-28.230(4)(b), F.A.C.

 - d. The Department shall be notified at least one hundred eighty (180) days before conversion or abandonment of an injection well, unless abandonment within a lesser period of time is necessary to protect waters of the state.

PERMITTEE:

Gary D. Dernlan, P.E.
Director of Utilities

ID No.: 450-1047
Permit/Certification No.: 138308-091-WC
Date of Issue: March 19, 2001
Expiration Date: March 18, 2006

GENERAL CONDITIONS:

17. The following conditions also shall apply to a hazardous waste facility permit.

a. The following reports shall be submitted to the Department:

1. Manifest discrepancy report. If a significant discrepancy in a manifest is discovered, the permittee shall attempt to rectify the discrepancy. If not resolved within fifteen (15) days after the waste is received, the permittee shall immediately submit a letter report, including a copy of the manifest, to the Department.
2. Unmanifested waste report. The permittee shall submit an unmanifested waste report to the Department within fifteen (15) days of receipt of unmanifested waste.
3. Biennial report. A biennial report covering facility activities during the previous calendar year shall be submitted by March 1 of each even numbered year pursuant to Chapter 62-730, F.A.C.

b. Notification of any noncompliance which may endanger health or the environment, including the release of any hazardous waste that may endanger public drinking water supplies or the occurrence of a fire or explosion from the facility which could threaten the environment or human health outside the facility, shall be reported verbally to the department within twenty four (24) hours and a written report shall be provided within five (5) days. The verbal report shall include the name, address, ID number and telephone number of the facility, its owner or operator, the name and quantity of materials involved, the extent of any injuries, an assessment of actual or potential hazards and the estimated quantity and disposition of recovered material. The written submission shall contain:

1. A description and cause of the noncompliance.
2. If not corrected, the expected time of correction and the steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.

c. Reports of compliance or noncompliance with, or any progress reports on, requirements in any compliance schedule shall be submitted no later than fourteen (14) days after each schedule date.

d. All reports or information required by the Department by a hazardous waste permittee shall be signed by a person authorized to sign a permit application.

PERMITTEE:

Gary D. Dernlan, P.E.
Director of Utilities

ID No.: 450-1047

Permit/Certification No.: 138308-091-WC

Date of Issue: March 19, 2001

Expiration Date: March 18, 2006

SPECIFIC CONDITIONS:

1. The permittee shall retain a Florida registered professional engineer as the engineer of record for this project. Upon completion of construction the engineer of record, or the system's professional engineer who was responsible for overseeing construction, shall submit certification of complete conformity to the plans and specifications as approved. Certification to such inspection on DEP Form 62-555.900(9) along with one (1) set of record drawings shall be provided to the Palm Beach County Health Department (PBCHD) prior to release for use. Drawings are to be at the same scale and in the same sequence as those submitted and approved for permit. Deviations from the original permitted drawings are to be highlighted and/or noted for PBCHD review. A written release for use shall be obtained from the PBCHD prior to placing the newly constructed facilities into operation.
2. Satisfactory bacteriological results for clearance of the wellhead and associated raw water piping shall be two (2) consecutive daily samples with results indicating an absence of coliform.
3. The well shall be cleaned, disinfected and bacteriologically cleared in accordance with Chapter 62-555.315(3), Florida Administrative Code (F.A.C.). Prior to sampling for bacteriological clearance, the well shall be thoroughly pumped until no trace of the disinfecting agent can be found. Daily samples for twenty (20) or more consecutive work-days shall be collected after pumping the well for 20 to 30 minutes at the rated capacity of the permanent pump. The samples shall be handled in accordance with acceptable methods as stated in "Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989".
4. The bacteriological clearance data, copy of the well driller's completion report including actual well yield and drawdown, a detailed drawing of the well construction, and a copy of the UIC operational testing approval from Florida D.E.P. shall be submitted to the PBCHD, with the engineer's certification and a release for use shall be obtained prior to placing the well into service.
5. Coatings and chemicals that are contained in coatings which are applied to a surface in contact with drinking water, or are otherwise on equipment that comes in contact with the water and additives and chemicals used to treat water shall be certified as being in conformance with American National Standards Institute (ANSI) and NSF Standard 60-2000 by an entity certified by ANSI. Water systems components which come in contact with drinking water shall be certified as being in conformance with ANSI/NSF Standard 61-1999a, Drinking Water System Components, by an entity certified by ANSI.

PERMITTEE:

Gary D. Dernlan, P.E.
Director of Utilities

ID No.: 450-1047
Permit/Certification No.: 138308-091-WC
Date of Issue: March 19, 2001
Expiration Date: March 18, 2006

SPECIFIC CONDITIONS:

6. Before the start of the first test cycle, the native water from the Aquifer Storage and Recovery (ASR) well shall be analyzed at least twice for primary standards, ammonia as N, total phosphorus as P, BOD, COD, secondary standards, and unregulated organic contaminants with results submitted to PBCHD. The analysis shall be conducted during the wet and dry seasons with samples taken a minimum of three months apart to determine seasonal variations in water quality within the Floridan Aquifer. The initial set of samples may be taken from the Floridan Aquifer Monitor Well (FAMW) provided that the final samples are taken simultaneously from both the FAMW and ASR well. Should the results indicate significant differences between the water quality in the ASR well and the FAMW additional testing shall be required by PBCHD. The applicant shall notify PBCHD at least five days prior to the start of the first test cycle.
7. Analyze for two (2) years the recovery stream; continuously for conductivity and turbidity; weekly for chloride, alkalinity, pH, temperature, color, iron, sulfate, sodium, ammonia as N, total phosphorus as P, TDS, BOD, COD, and hydrogen sulfide; and monthly for total coliform. After two years PBCHD will evaluate the data and decide what testing may be necessary (both frequency and parameters) beyond that point.
8. Analyze for two (2) years the recharge stream; continuously for conductivity and turbidity; weekly for chloride, alkalinity, pH, temperature, color, iron, sulfate, sodium, ammonia as N, total phosphorus as P, TDS, BOD, and hydrogen sulfide; and monthly for total coliform.
9. A monthly operating report for the ASR well shall be submitted to the PBCHD by the 15th of the month for the preceding month. The report shall include daily pumpages (injection and recovery) and analytical test results for all required parameters to be monitored. The routine submittal of this report shall begin with the cycle testing demonstration project.
10. Transmissivity data, based on pump test information, shall be submitted to the PBCHD on an annual basis.
11. Prior to construction, all required permits or approvals must be obtained for all aspects of the project from the appropriate agencies. Prior to release for operational testing this installation must receive a DEP water quality exemption for color.
12. The entire recovery stream from the ASR well shall be pumped to the head of the membrane softening plant and be fully treated along with the raw water from Biscayne Aquifer wells number 9W-17 through 9W-25 prior to use as potable water.
13. For new or replacement wells placed in areas of existing sanitary sewers, the sewers in Wellfield Protection Zones One and Two, as defined by Palm Beach County Environmental Resources Management must be pressure tested at each point, grouted, and sealed with proof of testing provided to PBCHD prior to release for service.

PERMITTEE:

Gary D. Dernlan, P.E.
Director of Utilities

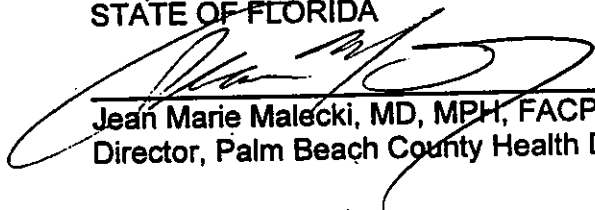
ID No.: 450-1047
Permit/Certification No.: 138308-091-WC
Date of Issue: MAR 19 2001
Expiration Date: MAR 18 2006

SPECIFIC CONDITIONS:

14. Prior to injection of raw water into the ASR well, the water from the surficial aquifer supply wells (9W-21 through 9W-25) shall be tested to determine if these wells are Under the Direct Influence (UDI) of surface waters. Testing shall be in accordance with the "EPA Consensus Method for Determining Groundwater Under the Direct Influence Using Microscopic Particulate Analysis" and performed under "worst case" conditions by an approved laboratory. Testing protocol must be approved by the UDI Section of the Department of Health Drinking water Program (telephone 850-922-6978) in Tallahassee prior to testing.
15. This permit only covers the specific items addressed in the applicant's permit application package. Other existing system components were not reviewed for compliance with current standards and issuance of this permit does not certify that those components meet current standards.

ISSUED THIS 19TH DAY OF MARCH, 2001

PALM BEACH COUNTY HEALTH DEPARTMENT
STATE OF FLORIDA



Jean Marie Malecki, MD, MPH, FACPM
Director, Palm Beach County Health Department



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

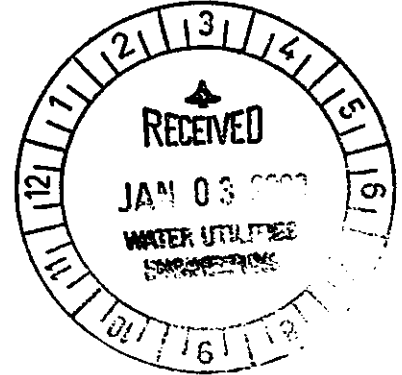
3301 Gun Club Road, West Palm Beach, Florida 33406 • (561) 686-8800 • FL WATS 1-800-432-2045 • TDD (561) 697-2574
Mailing Address: P.O. Box 24680, West Palm Beach, FL 33416-4680 • www.sfwmd.gov

CON 24-06

December 30, 1999

PERMITTEE
PALM BEACH COUNTY WATER UTILITIES
2065 PRAIRIE ROAD
WEST PALM BEACH, FL 33416-6097

CONTRACTOR
ZIEGLER, WILLIAM
P.O. BOX 271723
TAMPA, FL 33688
LICENSE NO:9078



WATER WELL CONSTRUCTION PERMIT # SF120899E
EXPIRATION DATE: June 30, 2000

PROJECT: PBC WUD WELLFIELD EXPANSION @ SYSTEM #9, WELL 21
TYPE OF USE: PUBLIC WATER SUPPLY
COUNTY: PALM BEACH SEC: 36 TWP: 47 RGE: 41

F
98-66
E.C.
F.F.

WELL CONSTRUCTION SPECIFICATIONS:


	<u>INNER</u>	<u>OUTER</u>
CASING DIAMETER:	16"	24"
CASING DEPTH:	90.00'	60.00'
SCREENED INTERVAL:	90.00' - 140.00'	
OPEN HOLE INTERVAL:		
TOTAL DEPTH OF WELL:	140.00'	
GROUT REQUIREMENT:		

Outer casing shall be grouted bottom to top.

See additional conditions of permit on attached sheet.

We appreciate your assistance and cooperation in better managing the water resources of the District. If you have any questions on this matter, please call Ann-Marie Superchi at extension 6929.

Sincerely,


Jeffrey Rosenfeld, P.G., Supervising Professional
Water Use Division, Regulation Department

Attachment: Additional Conditions of Permit
c: MR. TOM LEFEVRE-HRS
DEP-POTABLE WATER SUPPLY

GOVERNING BOARD

Michael Collins, *Chairman*
Michael D. Minton, *Vice Chairman*
Mitchell W. Berger

Vera M. Carter
Gerardo B. Fernandez
Patrick J. Gleason

Nicolas J. Gutierrez, Jr.
Harkley R. Thornton
Trudi K. Williams

EXECUTIVE OFFICE

Frank R. Finch, P.E., *Executive Director*
James E. Blount, *Chief of Staff*

PBC WUD WELLFIELD EXPANSION @ SYSTEM #9, WELL 21
December 30, 1999

VARIANCE

COMPLETION REPORT REQUIRED

A Water Well Completion Report (Form 0124) must be filed with the District within 30 days of completion of work.

ADDITIONAL CONDITIONS OF PERMIT

EXISTING SANITARY SEWERS WITHIN ZONES ONE AND TWO AS DEFINED BY PALM BEACH COUNTY WELLFIELD PROTECTION ORDINANCE MUST BE PRESSURE TESTED, GROUTED AND SEALED WITH PROOF OF SUCCESSFUL TESTING PROVIDED TO: PALM BEACH COUNTY HEALTH DEPARTMENT PRIOR TO RELEASE OF WELLS FOR SERVICE.

TESTING OF RAW WATER TO INCLUDE A MINIMUM OF TWO SAMPLES AT EACH WELLHEAD FOR FECAL COLIFORM, TOTAL COLIFORM AND TURBIDITY SHALL BE REQUIRED ON A MONTHLY BASIS DUE TO THE PROXIMITY OF THE WELLS TO THE HILLSBOROUGH CANAL.

The well must be cleaned, disinfected and bacteriologically cleared in accordance with Chapter 62-555, F.A.C. The bacteriological clearance data shall be submitted to the County Health Unit or appropriate office of the Department of Environmental Protection and release for use must be obtained prior to placing the well in service.

A grouting card (Form 0196) must be supplied to the District prior to beginning construction.



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

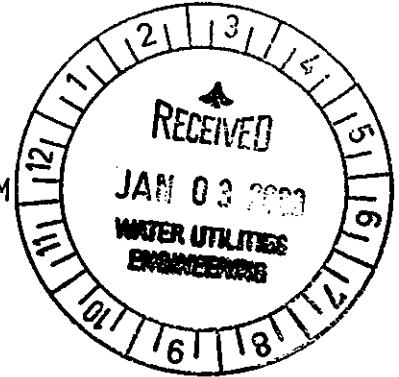
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CON 24-06

December 30, 1999

PERMITTEE
PALM BEACH COUNTY WATER UTILITIES
2065 PRAIRIE ROAD
WEST PALM BEACH, FL 33416-6097

CONTRACTOR
ZIEGLER, WILLIAM
P.O. BOX 271723
TAMPA, FL 33688
LICENSE NO: 9078



WATER WELL CONSTRUCTION PERMIT # SF120899F
EXPIRATION DATE: June 30, 2000

PROJECT: PBC WUD WELLFIELD EXPANSION @ SYSTEM #9, WELL 22
TYPE OF USE: PUBLIC WATER SUPPLY
COUNTY: PALM BEACH

SEC: 36 **TWP:** 47 **RGE:** 41

F
98-66
E.C.
F.F.

WELL CONSTRUCTION SPECIFICATIONS:

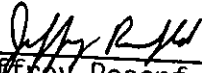
	<u>INNER</u>	<u>OUTER</u>
CASING DIAMETER:	16"	24"
CASING DEPTH:	90.00'	60.00'
SCREENED INTERVAL:	90.00' - 140.00'	
OPEN HOLE INTERVAL:		
TOTAL DEPTH OF WELL:	140.00'	
GROUT REQUIREMENT:		

Outer casing shall be grouted bottom to top.

See additional conditions of permit on attached sheet.

We appreciate your assistance and cooperation in better managing the water resources of the District. If you have any questions on this matter, please call Ann-Marie Superchi at extension 6929.

Sincerely,


Jeffrey Rosenfeld, P.G., Supervising Professional
Water Use Division, Regulation Department

Attachment: Additional Conditions of Permit
c: MR. TOM LEFEVRE-HRS
DEP-POTABLE WATER SUPPLY

GOVERNING BOARD

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Trudi K. Williams

EXECUTIVE OFFICE

Frank R. Finch, P.E., *Executive Director*
James E. Blount, *Chief of Staff*

PBC WUD WELLFIELD EXPANSION @ SYSTEM #9, WELL 22
December 30, 1999

VARIANCE

COMPLETION REPORT REQUIRED

A Water Well Completion Report (Form 0124) must be filed with the District within 30 days of completion of work.

ADDITIONAL CONDITIONS OF PERMIT

EXISTING SANITARY SEWERS WITHIN ZONES ONE AND TWO AS DEFINED BY PALM BEACH COUNTY WELLFIELD PROTECTION ORDINANCE MUST BE PRESSURE TESTED, GROUTED AND SEALED WITH PROOF OF SUCCESSFUL TESTING PROVIDED TO: PALM BEACH COUNTY HEALTH DEPARTMENT PRIOR TO RELEASE OF WELLS FOR SERVICE.

TESTING OF RAW WATER TO INCLUDE A MINIMUM OF TWO SAMPLES AT EACH WELLHEAD FOR FECAL COLIFORM, TOTAL COLIFORM AND TURBIDITY SHALL BE REQUIRED ON A MONTHLY BASIS DUE TO THE PROXIMITY OF THE WELLS TO THE HILLSBOROUGH CANAL.

The well must be cleaned, disinfected and bacteriologically cleared in accordance with Chapter 62-555, F.A.C. The bacteriological clearance data shall be submitted to the County Health Unit or appropriate office of the Department of Environmental Protection and release for use must be obtained prior to placing the well in service.

A grouting card (Form 0196) must be supplied to the District prior to beginning construction.



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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Mailing Address: P.O. Box 24680, West Palm Beach, FL 33416-4680 • www.sfwmd.gov

CON 24-06

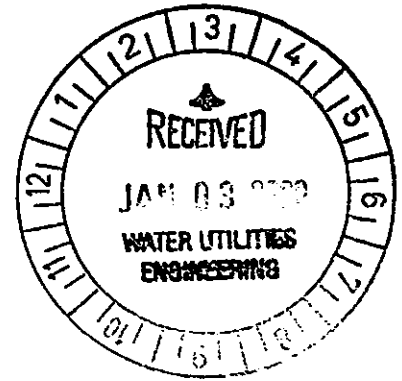
December 30, 1999

PERMITTEE

PALM BEACH COUNTY WATER UTILITIES
2065 PRAIRIE ROAD
WEST PALM BEACH, FL 33416-6097

CONTRACTOR

ZIEGLER, WILLIAM
P.O. BOX 271723
TAMPA, FL 33688
LICENSE NO: 9078



WATER WELL CONSTRUCTION PERMIT # SF120899G
EXPIRATION DATE: June 30, 2000

PROJECT: PBC WUD WELLFIELD EXPANSION @ SYSTEM #9, WELL 23
TYPE OF USE: PUBLIC WATER SUPPLY
COUNTY: PALM BEACH SEC: 36 TWP: 47 RGE: 41

F
98-66
E.C.
F.F.

WELL CONSTRUCTION SPECIFICATIONS:

	<u>INNER</u>	<u>OUTER</u>
CASING DIAMETER:	16"	24"
CASING DEPTH:	90.00'	60.00'
SCREENED INTERVAL:	90.00' - 140.00'	
OPEN HOLE INTERVAL:		
TOTAL DEPTH OF WELL:	140.00'	
GROUT REQUIREMENT:		

Outer casing shall be grouted bottom to top.

See additional conditions of permit on attached sheet.

We appreciate your assistance and cooperation in better managing the water resources of the District. If you have any questions on this matter, please call Ann-Marie Superchi at extension 6929.

Sincerely,

Jeffrey Rosenfeld, P.G., Supervising Professional
Water Use Division, Regulation Department

Attachment: Additional Conditions of Permit

c: MR. TOM LEFEVRE-HRS
DEP-POTABLE WATER SUPPLY

GOVERNING BOARD

Michael Collins, *Chairman*
Michael D. Minton, *Vice Chairman*
Mitchell W. Berger

Vera M. Carter
Gerardo B. Fernandez
Patrick J. Gleason

Nicolas J. Gutierrez, Jr.
Harkley R. Thornton
Trudi K. Williams

EXECUTIVE OFFICE

Frank R. Finch, P.E., *Executive Director*
James E. Blount, *Chief of Staff*

PBC WUD WELLFIELD EXPANSION @ SYSTEM #9, WELL 23
December 30, 1999

VARIANCE

COMPLETION REPORT REQUIRED

A Water Well Completion Report (Form 0124) must be filed with the District within 30 days of completion of work.

ADDITIONAL CONDITIONS OF PERMIT

EXISTING SANITARY SEWERS WITHIN ZONES ONE AND TWO AS DEFINED BY PALM BEACH COUNTY WELLFIELD PROTECTION ORDINANCE MUST BE PRESSURE TESTED, GROUTED AND SEALED WITH PROOF OF SUCCESSFUL TESTING PROVIDED TO: PALM BEACH COUNTY HEALTH DEPARTMENT PRIOR TO RELEASE OF WELLS FOR SERVICE.

TESTING OF RAW WATER TO INCLUDE A MINIMUM OF TWO SAMPLES AT EACH WELLHEAD FOR FECAL COLIFORM, TOTAL COLIFORM AND TURBIDITY SHALL BE REQUIRED ON A MONTHLY BASIS DUE TO THE PROXIMITY OF THE WELLS TO THE HILLSBOROUGH CANAL.

The well must be cleaned, disinfected and bacteriologically cleared in accordance with Chapter 62-555, F.A.C. The bacteriological clearance data shall be submitted to the County Health Unit or appropriate office of the Department of Environmental Protection and release for use must be obtained prior to placing the well in service.

A grouting card (Form 0196) must be supplied to the District prior to beginning construction.



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

3301 Gun Club Road, West Palm Beach, Florida 33406 • (561) 686-8800 • FL WATS 1-800-432-2045 • TDD (561) 697-2574
Mailing Address: P.O. Box 24680, West Palm Beach, FL 33416-4680 • www.sfwmd.gov

CON 24-06

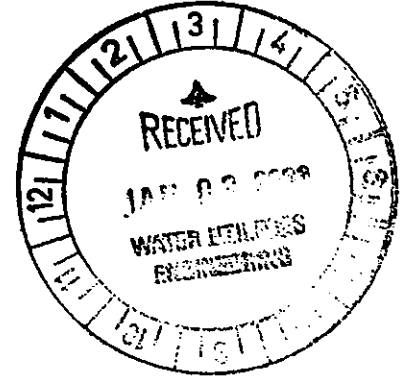
December 30, 1999

PERMITTEE

PALM BEACH COUNTY WATER UTILITIES
2065 PRAIRIE ROAD
WEST PALM BEACH, FL 33416-6097

CONTRACTOR

ZIEGLER, WILLIAM
P.O. BOX 271723
TAMPA, FL 33688
LICENSE NO: 9078



WATER WELL CONSTRUCTION PERMIT # SF120899H
EXPIRATION DATE: June 30, 2000

PROJECT: PBC WUD WELLFIELD EXPANSION @ SYSTEM #9, WELL 24
TYPE OF USE: PUBLIC WATER SUPPLY
COUNTY: PALM BEACH SEC: 35 TWP: 47 RGE: 41

F
98-66
E.C.
F.F.

WELL CONSTRUCTION SPECIFICATIONS:

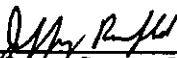
	<u>INNER</u>	<u>OUTER</u>
CASING DIAMETER:	16"	24"
CASING DEPTH:	90.00'	60.00'
SCREENED INTERVAL:	90.00' - 140.00'	
OPEN HOLE INTERVAL:		
TOTAL DEPTH OF WELL:	140.00'	
GROUT REQUIREMENT:		

Outer casing shall be grouted bottom to top.

See additional conditions of permit on attached sheet.

We appreciate your assistance and cooperation in better managing the water resources of the District. If you have any questions on this matter, please call Ann-Marie Superchi at extension 6929.

Sincerely,


Jeffrey Rosenfeld, P.G., Supervising Professional
Water Use Division, Regulation Department

Attachment: Additional Conditions of Permit
c: MR. TOM LEFEVRE-HRS
DEP-POTABLE WATER SUPPLY

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James E. Blount, *Chief of Staff*

PBC WUD WELLFIELD EXPANSION @ SYSTEM #9, WELL 24
December 30, 1999

VARIANCE

COMPLETION REPORT REQUIRED

A Water Well Completion Report (Form 0124) must be filed with the District within 30 days of completion of work.

ADDITIONAL CONDITIONS OF PERMIT

EXISTING SANITARY SEWERS WITHIN ZONES ONE AND TWO AS DEFINED BY PALM BEACH COUNTY WELLFIELD PROTECTION ORDINANCE MUST BE PRESSURE TESTED, GROUTED AND SEALED WITH PROOF OF SUCCESSFUL TESTING PROVIDED TO: PALM BEACH COUNTY HEALTH DEPARTMENT PRIOR TO RELEASE OF WELLS FOR SERVICE.

TESTING OF RAW WATER TO INCLUDE A MINIMUM OF TWO SAMPLES AT EACH WELLHEAD FOR FECAL COLIFORM, TOTAL COLIFORM AND TURBIDITY SHALL BE REQUIRED ON A MONTHLY BASIS DUE TO THE PROXIMITY OF THE WELLS TO THE HILLSBOROUGH CANAL.

The well must be cleaned, disinfected and bacteriologically cleared in accordance with Chapter 62-555, F.A.C. The bacteriological clearance data shall be submitted to the County Health Unit or appropriate office of the Department of Environmental Protection and release for use must be obtained prior to placing the well in service.

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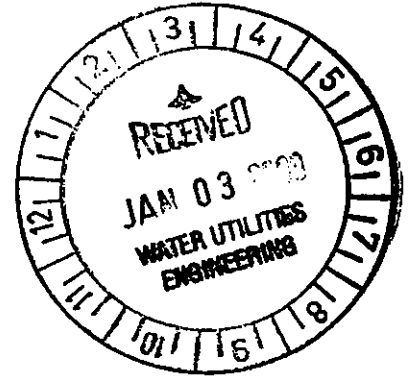
December 30, 1999

PERMITTEE

PALM BEACH COUNTY WATER UTILITIES
2065 PRAIRIE ROAD
WEST PALM BEACH, FL 33416-6097

CONTRACTOR

ZIEGLER, WILLIAM
P.O. BOX 271723
TAMPA, FL 33688
LICENSE NO: 9078



WATER WELL CONSTRUCTION PERMIT # SF1208991
EXPIRATION DATE: June 30, 2000

PROJECT: PBC WUD WELLFIELD EXPANSION @ SYSTEM #9, WELL 25
TYPE OF USE: PUBLIC WATER SUPPLY
COUNTY: PALM BEACH SEC: 35 TWP: 47 RGE: 41

F
98-66
E.C.
F.F.

WELL CONSTRUCTION SPECIFICATIONS:

	<u>INNER</u>	<u>OUTER</u>
CASING DIAMETER:	16"	24"
CASING DEPTH:	90.00'	60.00'
SCREENED INTERVAL:	90.00' - 140.00'	
OPEN HOLE INTERVAL:		
TOTAL DEPTH OF WELL:	140.00'	
GROUT REQUIREMENT:		

Outer casing shall be grouted bottom to top.

See additional conditions of permit on attached sheet.

We appreciate your assistance and cooperation in better managing the water resources of the District. If you have any questions on this matter, please call Ann-Marie Superchi at extension 6929.

Sincerely,

Jeffrey Rosenfeld, P.G., Supervising Professional
Water Use Division, Regulation Department

Attachment: Additional Conditions of Permit
c: MR. TOM LEFEVRE-HRS
DEP-POTABLE WATER SUPPLY

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EXECUTIVE OFFICE

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James E. Blount, *Chief of Staff*

PBC WUD WELLFIELD EXPANSION @ SYSTEM #9, WELL 25
December 30, 1999

VARIANCE

COMPLETION REPORT REQUIRED

A Water Well Completion Report (Form 0124) must be filed with the District within 30 days of completion of work.

ADDITIONAL CONDITIONS OF PERMIT

EXISTING SANITARY SEWERS WITHIN ZONES ONE AND TWO AS DEFINED BY PALM BEACH COUNTY WELLFIELD PROTECTION ORDINANCE MUST BE PRESSURE TESTED, GROUTED AND SEALED WITH PROOF OF SUCCESSFUL TESTING PROVIDED TO: PALM BEACH COUNTY HEALTH DEPARTMENT PRIOR TO RELEASE OF WELLS FOR SERVICE.

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The well must be cleaned, disinfected and bacteriologically cleared in accordance with Chapter 62-555, F.A.C. The bacteriological clearance data shall be submitted to the County Health Unit or appropriate office of the Department of Environmental Protection and release for use must be obtained prior to placing the well in service.

A grouting card (Form 0196) must be supplied to the District prior to beginning construction.



Form #0299
Rev. 5/93

**SOUTH FLORIDA WATER MANAGEMENT DISTRICT
WATER USE PERMIT NO. RE-ISSUE 50-00135-W**

(NON - ASSIGNABLE)

Date Issued: SEPTEMBER 9, 1999

Expiration Date: September 9, 2004

Authorizing: THE CONTINUATION OF AN EXISTING USE OF GROUNDWATER FROM THE FLORIDAN AQUIFER SYSTEM AND THE SURFICIAL AQUIFER SYSTEM FOR PUBLIC WATER SUPPLY USE WITH AN ANNUAL ALLOCATION OF 19.104 MILLION GALLONS.

Located In: Palm Beach County, S--/T43S/R42E, S--/T43S/R43E, S--/T44S/R41E
S--/T44S/R42E, S--/T44S/R43E, S--/T45S/R41E
S--/T45S/R42E, S--/T46S/R41E, S--/T46S/R42E
S--/T46S/R43E, S--/T47S/R41E, S--/T47S/R42E
S--/T47S/R43E

Issued To: PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
2065 PRAIRIE ROAD
WEST PALM BEACH, FL 33406

This Permit is issued pursuant to Application No. 990331-10, dated March 30, 1999, for the Use of Water as specified above and subject to the Special Conditions set forth below. Permittee agrees to hold and save the South Florida Water Management District and its successors harmless from any and all damages, claims or liabilities which may arise by reason of the construction, maintenance or use of activities authorized by this permit. Said application, including all plan and specifications attached thereto, is by reference made a part hereof.

Upon written notice to the permittee, this permit may be temporarily modified, or restricted under a Declaration of Water Shortage or a Declaration of Emergency due to Water Shortage in accordance with provisions of Ch. 373, Fla. Statutes, and applicable rules and regulations of the South Florida Water Management District.

This Permit may be permanently or temporarily revoked, in whole or in part, for the violation of the conditions of the permit or for the violation of any provision of the Water Resources Act and regulations thereunder.

This Permit does not convey to the permittee any property rights nor any privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation, or requirement affecting the rights of other bodies or agencies.

Special Conditions are as follows:

SEE PAGES 2-7 OF 7 (37 LIMITING CONDITIONS).

Filed with the Clerk of the South Florida Water Management District

South Florida Water Management District, by its Governing Board

On 9-20-99
By [Signature]
Deputy Clerk

By [Signature]
Assistant Secretary

LIMITING CONDITIONS

- 1 . IN THE EVENT OF A DECLARED WATER SHORTAGE, WATER WITHDRAWAL REDUCTIONS WILL BE ORDERED BY THE DISTRICT IN ACCORDANCE WITH THE WATER SHORTAGE PLAN, CHAPTER 40E-21, FLORIDA ADMINISTRATIVE CODE. THE APPLICANT IS ADVISED THAT DURING A WATER SHORTAGE PUMPAGE REPORTS SHALL BE SUBMITTED AS REQUIRED BY CHAPTER 40E-21, FLORIDA ADMINISTRATIVE CODE.
- 2 . SOURCE CLASSIFICATION IS:

GROUNDWATER FROM THE FLORIDAN AQUIFER SYSTEM
GROUNDWATER FROM THE SURFICIAL AQUIFER SYSTEM
- 3 . PERMITTEE SHALL MITIGATE ANY ADVERSE IMPACT ON EXISTING LEGAL USES CAUSED BY WITHDRAWALS. WHEN ADVERSE IMPACTS OCCUR, OR ARE IMMINENT, THE DISTRICT RESERVES THE RIGHT TO CURTAIL WITHDRAWAL RATES. ADVERSE IMPACTS ARE:
 - A) REDUCTION IN WELL WATER LEVELS THAT IMPAIRS THE ABILITY OF AN ADJACENT WELL, INCLUDING A DOMESTIC WELL, LAWN IRRIGATION WELL, OR PUBLIC WATER SUPPLY WELL, TO PRODUCE WATER BY 10% OR GREATER.
 - B) SIGNIFICANT REDUCTION IN LEVELS IN AN ADJACENT WATER BODY SUCH AS A LAKE, POND, OR A CANAL SYSTEM THAT IMPAIRS THE ABILITY TO PRODUCE WATER BY 10% OR GREATER.
 - C) SALINE WATER INTRUSION OR INDUCED MOVEMENT OF POLLUTANTS INTO THE WATER SUPPLY OF AN ADJACENT WATER USE, RESULTING IN A SIGNIFICANT REDUCTION IN WATER QUALITY, AND
 - D) CHANGE IN WATER QUALITY CAUSED BY THE PERMITTEE THAT RESULTS IN SIGNIFICANT IMPAIRMENT OR LOSS OF USE OF A WELL OR WATER BODY.
- 4 . PERMITTEE SHALL MITIGATE ANY ADVERSE IMPACT ON EXISTING OFF-SITE LAND USE AS A CONSEQUENCE OF WITHDRAWALS PERMITTED HEREIN. IF INCREASED WITHDRAWALS CAUSE AN ADVERSE IMPACT ON EXISTING LAND USE, THE DISTRICT RESERVES THE RIGHT TO CURTAIL FUTURE WITHDRAWAL RATES. ADVERSE IMPACTS ARE:
 - A) SIGNIFICANT REDUCTION IN WATER LEVELS IN AN ADJACENT SURFACE WATER BODY, INCLUDING IMPOUNDMENTS, TO THE EXTENT THAT THE DESIGNED FUNCTION OF THE WATER BODY IS IMPAIRED.
 - B) LAND COLLAPSE OR SUBSIDENCE CAUSED BY REDUCTION IN WATER LEVELS; AND
 - C) DAMAGE TO CROPS AND OTHER TYPES OF VEGETATION.

- 5 . AUTHORIZED REPRESENTATIVES OF THE DISTRICT SHALL BE PERMITTED TO ENTER, INSPECT, AND OBSERVE THE PERMITTED SYSTEM TO DETERMINE COMPLIANCE WITH SPECIAL CONDITIONS.
- 6 . IF ANY CONDITION OF THE PERMIT IS VIOLATED, THE PERMIT SHALL BE SUBJECT TO REVIEW AND POSSIBLE MODIFICATION, ENFORCEMENT ACTION, OR REVOCATION.
- 7 . APPLICATION FOR A PERMIT MODIFICATION MAY BE MADE AT ANY TIME.
- 8 . WITHDRAWAL FACILITIES ARE:

GROUNDWATER - EXISTING:

- 2 - 8" X 100' X 1000 GPM WELLS CASED TO 70 FEET
- 4 - 10" X 120' X 600 GPM WELLS WITH UNKNOWN CASED DEPTH
- 3 - 10" X 120' X 1000 GPM WELLS WITH UNKNOWN CASED DEPTH
- 1 - 10" X 155' X 750 GPM WELL CASED TO 115 FEET
- 1 - 10" X 178' X 750 GPM WELL CASED TO 148 FEET
- 1 - 12" X 100' X 1000 GPM WELL CASED TO 70 FEET
- 1 - 12" X 113' X 1000 GPM WELL CASED TO 105 FEET
- 3 - 12" X 115' X 1000 GPM WELLS CASED TO 85 FEET
- 1 - 12" X 115' X 1000 GPM WELL CASED TO 109 FEET
- 1 - 12" X 116' X 1000 GPM WELL CASED TO 111 FEET
- 1 - 12" X 116' X 1000 GPM WELL CASED TO 112 FEET
- 1 - 12" X 117' X 1000 GPM WELL CASED TO 111 FEET
- 1 - 12" X 118' X 800 GPM WELL CASED TO 108 FEET
- 2 - 12" X 120' X 700 GPM WELLS CASED TO 90 FEET
- 1 - 12" X 120' X 1000 GPM WELL CASED TO 80 FEET
- 1 - 12" X 120' X 1000 GPM WELL CASED TO 90 FEET
- 1 - 12" X 120' X 1000 GPM WELL CASED TO 100 FEET
- 1 - 12" X 120' X 1000 GPM WELL CASED TO 102 FEET
- 1 - 12" X 120' X 1000 GPM WELL CASED TO 106 FEET
- 1 - 12" X 121' X 1000 GPM WELL CASED TO 107 FEET
- 1 - 12" X 121' X 1000 GPM WELL CASED TO 110 FEET
- 1 - 12" X 125' X 1000 GPM WELL CASED TO 117 FEET
- 1 - 12" X 126' X 1000 GPM WELL CASED TO 114 FEET
- 1 - 12" X 129' X 1000 GPM WELL CASED TO 120 FEET
- 1 - 12" X 140' X 900 GPM WELL CASED TO 75 FEET
- 1 - 12" X 140' X 1000 GPM WELL CASED TO 70 FEET
- 2 - 12" X 140' X 1000 GPM WELLS CASED TO 80 FEET
- 1 - 12" X 145' X 800 GPM WELL CASED TO 75 FEET
- 1 - 12" X 150' X 450 GPM WELL CASED TO 120 FEET
- 1 - 12" X 150' X 500 GPM WELL CASED TO 85 FEET
- 4 - 12" X 150' X 800 GPM WELLS CASED TO 120 FEET
- 1 - 12" X 150' X 800 GPM WELL CASED TO 125 FEET
- 9 - 12" X 150' X 1000 GPM WELLS CASED TO 80 FEET
- 2 - 12" X 150' X 1050 GPM WELLS CASED TO 110 FEET
- 1 - 12" X 155' X 700 GPM WELL CASED TO 120 FEET
- 1 - 12" X 157' X 700 GPM WELL CASED TO 122 FEET
- 1 - 12" X 170' X 700 GPM WELL CASED TO 135 FEET

1 - 12" X 175' X 750 GPM WELL CASED TO 125 FEET
1 - 12" X 180' X 1250 GPM WELL CASED TO 140 FEET
1 - 12" X 185' X 1250 GPM WELL CASED TO 140 FEET
1 - 12" X 185' X 1250 GPM WELL CASED TO 145 FEET
1 - 14" X 100' X 1000 GPM WELL CASED TO 70 FEET
1 - 16" X 125' X 1000 GPM WELL CASED TO 80 FEET
1 - 16" X 130' X 1000 GPM WELL CASED TO 85 FEET
1 - 16" X 135' X 1000 GPM WELL CASED TO 90 FEET
1 - 16" X 140' X 1000 GPM WELL CASED TO 80 FEET
1 - 16" X 145' X 1000 GPM WELL CASED TO 85 FEET
1 - 16" X 145' X 1050 GPM WELL CASED TO 105 FEET
1 - 16" X 150' X 1050 GPM WELL CASED TO 105 FEET
1 - 16" X 150' X 1750 GPM WELL CASED TO 105 FEET
1 - 16" X 150' X 1750 GPM WELL CASED TO 205 FEET
1 - 16" X 1100' X 1500 GPM WELL CASED TO 1000 FEET

GROUNDWATER - PROPOSED:

1 - 12" X 150' X 1000 GPM WELL CASED TO 90 FEET
9 - 14" X 150' X 1000 GPM WELLS CASED TO 90 FEET
5 - 14" X 150' X 1500 GPM WELLS CASED TO 120 FEET
3 - 16" X 125' X 1000 GPM WELLS CASED TO 85 FEET
3 - 16" X 150' X 1000 GPM WELLS CASED TO 90 FEET
1 - 24" X 1200' X 3500 GPM WELL CASED TO 1000 FEET

9. THIS PERMIT SHALL EXPIRE ON SEPTEMBER 09, 2004.
10. ANNUAL ALLOCATION SHALL NOT EXCEED 19104 MG.
MAXIMUM DAILY ALLOCATION SHALL NOT EXCEED 75.40 MG.
11. USE CLASSIFICATION IS PUBLIC WATER SUPPLY.
12. THE PERMITTEE IS ADVISED THAT THIS PERMIT DOES NOT RELIEVE ANY PERSON FROM THE REQUIREMENT TO OBTAIN ALL NECESSARY FEDERAL, STATE, LOCAL AND SPECIAL DISTRICT AUTHORIZATIONS.
13. THE PERMIT DOES NOT CONVEY ANY PROPERTY RIGHT TO THE PERMITTEE, NOR ANY RIGHTS AND PRIVILEGES OTHER THAN THOSE SPECIFIED IN THE PERMIT AND CHAPTER 40E-2, F.A.C.
14. IF ADVERSE IMPACTS OCCUR TO NATURAL RESOURCES AS A RESULT OF THE PERMITTEE'S WATER WITHDRAWALS, THE PERMITTEE SHALL MITIGATE FOR SUCH IMPACTS. WHEN ADVERSE IMPACTS OCCUR, OR ARE IMMINENT, DISTRICT RESERVES THE RIGHT TO CURTAIL WITHDRAWAL RATES. EXAMPLES OF ADVERSE IMPACTS ARE:
 - A) REDUCTION IN GROUND WATER LEVELS THAT RESULTS IN SIGNIFICANT LATERAL MOVEMENT OF THE FRESH WATER/SALT WATER INTERFACE,
 - B) REDUCTION IN WATER LEVELS THAT ADVERSELY IMPACT THE HYDROPERIOD OF

PROTECTED WETLAND ENVIRONMENTS.

- C) SIGNIFICANT REDUCTION IN WATER LEVELS OR HYDROPERIOD IN A NATURALLY OCCURRING WATER BODY SUCH AS A LAKE OR POND,
 - D) INDUCED MOVEMENT OR INDUCTION OF POLLUTANTS INTO THE WATER SUPPLY RESULTING IN A SIGNIFICANT REDUCTION IN WATER QUALITY, AND
 - E) SIGNIFICANT HARM TO THE NATURAL SYSTEM INCLUDING DAMAGE TO HABITAT FOR RARE OR ENDANGERED SPECIES.
15. PRIOR TO MARCH 09, 2000, PERMITTEE SHALL PROVIDE THE RESULTS OF THE CALIBRATION TESTING OF THE IDENTIFIED WATER ACCOUNTING METHOD(S) AND EQUIP ALL EXISTING AND PROPOSED WITHDRAWAL FACILITIES WITH APPROVED WATER USE ACCOUNTING METHOD(S) PURSUANT TO SECTION 4.1 OF THE WATER USE BASIS OF REVIEW.
 16. PERMITTEE SHALL SUBMIT ALL DATA AS REQUIRED BY THE IMPLEMENTATION SCHEDULE FOR EACH OF THE LIMITING CONDITIONS TO: S.F.W.M.D., SUPERVISING PROFESSIONAL - P.P.C., WATER USE DIVISION (4040), P.O. BOX 24680, WEST PALM BEACH, FL 33416-4680.
 17. THE PERMITTEE SHALL MAINTAIN RECORDS OF THE CALIBRATED DAILY WITHDRAWALS FROM EACH PUMP. THESE RECORDS SHALL BE AVAILABLE FOR REVIEW UPON REQUEST BY DISTRICT STAFF. MONTHLY WITHDRAWALS FOR EACH PUMP SHALL BE SUBMITTED TO THE DISTRICT QUARTERLY. MAXIMUM DAILY WITHDRAWALS FOR EACH MONTH FOR THE ENTIRE SYSTEM SHALL BE SUBMITTED TO THE DISTRICT QUARTERLY. THE WATER ACCOUNTING METHOD AND MEANS OF CALIBRATION SHALL BE STATED ON EACH REPORT.
 18. EVERY TWO YEARS FROM THE DATE OF PERMIT ISSUANCE, THE PERMITTEE SHALL SUBMIT RE-CALIBRATION DATA ON EACH WATER PUMPING ACCOUNTING FACILITY, FOR THOSE PERMITTEES WHOSE ACCOUNTING METHOD(S) REQUIRE RE-CALIBRATION.
 19. PERMITTEE SHALL DETERMINE "UNACCOUNTED FOR" DISTRIBUTION SYSTEM LOSSES. LOSSES SHALL BE DETERMINED FOR THE ENTIRE DISTRIBUTION SYSTEM ON A MONTHLY BASIS. PERMITTEE SHALL DEFINE THE MANNER IN WHICH "UNACCOUNTED FOR" LOSSES ARE CALCULATED. DATA COLLECTION SHALL BEGIN WITHIN SIX MONTHS OF PERMIT ISSUANCE. LOSS REPORTING SHALL BE SUBMITTED TO THE DISTRICT ON A YEARLY BASIS FROM THE DATE OF PERMIT ISSUANCE.
 20. IF THE PERMITTEE WILL NOT SERVE A NEW DEMAND WITHIN THE SERVICE AREA FOR WHICH THE ANNUAL ALLOCATION WAS CALCULATED, THE ANNUAL ALLOCATION MAY THEN BE SUBJECT TO MODIFICATION.
 21. PERMITTEE SHALL MAINTAIN AN ACCURATE FLOW METER AT THE INTAKE OF THE WATER TREATMENT PLANT FOR THE PURPOSE OF MEASURING DAILY INFLOW OF WATER.
 22. THE PERMITTEE SHALL NOTIFY THE DISTRICT OF ANY CHANGE IN SERVICE TERRITORY OR AREA WITHIN 30 DAYS OF CHANGE IN BOUNDARY.
 23. THE WATER CONSERVATION PLAN REQUIRED BY CRITERIA 2.6.1 OF THE BASIS OF REVIEW FOR WATER USE PERMIT APPLICATIONS WITHIN THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT - MARCH, 1994, MUST BE IMPLEMENTED IN ACCORDANCE WITH THE IMPLEMENTATION SCHEDULE CONTAINED THEREIN.

24. IF AT ANY TIME THERE IS AN INDICATION THAT THE WELL CASING, VALVES, OR CONTROLS LEAK OR HAVE BECOME INOPERATIVE, REPAIRS OR REPLACEMENT SHALL BE MADE TO RESTORE THE SYSTEM TO AN OPERATING CONDITION. FAILURE TO MAKE SUCH REPAIRS SHALL BE CAUSE FOR FILLING AND ABANDONING THE WELL, IN ACCORDANCE WITH PROCEDURES OUTLINED IN CHAPTERS 40E-3 AND 40E-30, F.A.C.
25. IF A PROPOSED WELL LOCATION IS DIFFERENT FROM A LOCATION SPECIFIED IN THE APPLICATION, THE PERMITTEE SHALL SUBMIT TO THE DISTRICT AN EVALUATION OF THE IMPACT OF PUMPAGE FROM THE PROPOSED WELL LOCATION ON ADJACENT EXISTING LEGAL USES, POLLUTION SOURCES, ENVIRONMENTAL FEATURES, THE SALINE WATER INTERFACE, AND WATER BODIES ONE MONTH PRIOR TO ALL NEW WELL CONSTRUCTION. THE PERMITTEE IS ADVISED THAT THE PROPOSAL MUST MEET ALL PERMITTING CRITERIA IN EFFECT AT THE TIME OF SUBMITTAL, AND THAT A FORMAL MODIFICATION OF THE PERMIT SHALL BE REQUIRED IF THE WITHDRAWALS FROM THE WELL LOCATION RESULT IN AN ENVIRONMENTAL OR RESOURCE IMPACT SIGNIFICANTLY GREATER THAN THAT ANTICIPATED IN THE PERMIT REVIEW PROCESS.
26. PERMITTEE SHALL SECURE A WELL CONSTRUCTION PERMIT PRIOR TO CONSTRUCTION, REPAIR, OR ABANDONMENT OF ALL WELLS, AS DESCRIBED IN CHAPTERS 40E-3 AND 40E-30, F.A.C.
27. THE PERMITTEE SHALL SUBMIT TO THE DISTRICT AN UPDATED TABLE "A" (WELL DESCRIPTION TABLE) WITHIN ONE MONTH OF COMPLETION OF THE PROPOSED WELLS IDENTIFYING THE ACTUAL TOTAL AND CASED DEPTHS, PUMP MANUFACTURER AND MODEL NUMBERS, PUMP TYPES, INTAKE DEPTHS AND TYPE OF METERS.
28. PRIOR TO MARCH 09, 2000, PERMITTEE SHALL DEVELOP AN UPDATED SALINE INTRUSION MONITORING PROGRAM (SALT) PROGRAM. A PRELIMINARY PROPOSAL TO MODIFY THE EXISTING SALT PROGRAM SHALL BE SUBMITTED TO STAFF FOR APPROVAL PRIOR TO DECEMBER 09, 1999. STAFF APPROVAL WILL BE GRANTED IF THE PROPOSAL SUCCESSFULLY UPDATES THE EXISTING MONITORING NETWORK. IN DEVELOPING THE PROGRAM, THE PERMITTEE SHALL CONSIDER THE WELL LOCALITIES, DEPTH, METHOD OF WELL CONSTRUCTION, TYPES OF SCREEN, METHOD OF CHLORIDE ANALYSIS AND FREQUENCY OF DATA COLLECTION.
29. THE PERMITTEE (PALM BEACH COUNTY WATER UTILITIES DEPARTMENT) AND THE LAKE WORTH DRAINAGE DISTRICT HAVE PREVIOUSLY ENTERED INTO AN INTERLOCAL AGREEMENT FOR MITIGATION OF IMPACTS FROM SFWMD PERMIT NUMBER 50-00401-W. IT IS ACKNOWLEDGED AND AGREED BY THE PERMITTEE THAT THIS MODIFICATION OF THE PERMIT SHALL BE INCORPORATED INTO AND MADE A PART THEREOF TO THE INTERLOCAL AGREEMENT ENTERED INTO ABOVE.
30. SHOULD CATASTROPHIC FAILURE OR PARTIAL FAILURE OF A WELLFIELD WITHIN THE SYSTEM OF INTERCONNECTED WELLFIELDS OCCUR, THE PERMITTEE MAY REQUEST AN EMERGENCY AUTHORIZATION TO PROVIDE ADDITIONAL WATER FROM ANOTHER FACILITY. THE REQUEST WILL BE EVALUATED IN AN EXPEDIENT MANNER WITH CONSIDERATION OF ADVERSE IMPACTS TO THE RESOURCE AND ADJACENT LEGAL USES.
31. THE 1W AND 5W WELLFIELDS SHALL CONTINUE ON STAND-BY STATUS.

MAXIMUM DAILY ALLOCATION FOR EACH WELLFIELD OR FACILITY SHALL NOT EXCEED THE FOLLOWING:

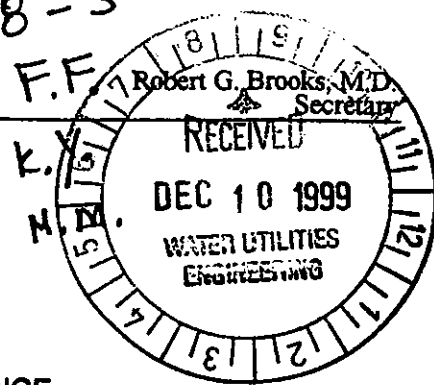
WELLFIELD NO. 2 (WTP 2)	13.98 MGD
WELLFIELD NO. 3 (WTP 3)	16.00 MGD
WELLFIELD NOS. 1, 7, & 8 (WTP 8)	20.22 MGD
WELLFIELD NO. 9 (WTP 9)	25.20 MGD
SYSTEM 3 MULTIPURPOSE FLORIDAN AQUIFER WELL	2.16 MGD

33. WATER USE PERMITS 50-00178-W AND 50-00401-W ARE HEREBY CANCELLED AND SUPERSEDED BY WATER USE PERMIT NO. 50-00135-W.
34. PRIOR TO INITIATION OF WITHDRAWALS ASSOCIATED WITH THE TESTING OF ASR PILOT PROJECT, THE PERMITTEE SHALL SUBMIT FOR DISTRICT STAFF REVIEW AND APPROVAL AN OPERATIONAL PLAN (INCLUDING THE ASR SUPPLY WELLS IN CONJUNCTION WITH THE OTHER WTP 9 SURFICIAL AQUIFER PRODUCTION WELLS) AND A SPECIFIC IMPACT ANALYSIS REGARDING THE PROPOSED USE OF AN ADDITIONAL 5.0 MGD FROM THE SURFICIAL AQUIFER SYSTEM FOR TESTING OF THE ASR PROJECT.
35. PRIOR TO SEPTEMBER 9, 2000 AND SEPTEMBER 9 OF EACH YEAR THEREAFTER, THE PERMITTEE SHALL PROVIDE ANNUAL STATUS REPORTS TO THE DISTRICT, WHICH SUMMARIZE THE ASR CYCLE TESTING ACTIVITIES.
36. WITHIN SIX MONTHS OF COMPLETION OF THE ASR TEST PROGRAM, THE PERMITTEE SHALL PROVIDE A REPORT TO THE DISTRICT WHICH DETAILS THE RESULTS OF THE ASR CYCLE TESTING. THE REPORT SHALL INCLUDE PROPOSED OPERATIONAL SCHEDULES AND THE DEMANDS POTENTIALLY SERVED BY THE LONG TERM OPERATION OF THE ASR FACILITY. SHOULD THE PERMITTEE CONCLUDE THAT ASR IS A FEASIBLE COMPONENT OF THEIR LONG TERM WATER SUPPLY SYSTEM, A PERMIT MODIFICATION FOR LONG TERM OPERATION WILL BE NECESSARY.
37. THE ANNUAL ALLOCATION FOR THE SYSTEM 9 WELLFIELD SHALL BE LIMITED TO 5710 MGY, WHICH INCLUDES 750 MGY FOR ASR TESTING.

Jeb Bush
Governor



F
98-51



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

NOTICE OF PERMIT ISSUANCE

In the Matter of an Application for Permit by:

Gary R. Demlan, P.E., Director
Palm Beach County Water Utilities
2065 Prairie Road
West Palm Beach, FL 33416

FILE NO.: 138308-045-DS

PROJECT: Water Treatment Plant #9
Raw Water Transmission Main

Enclosed is Permit Number 138308-045-DS, issued to Gary R. Demlan, P.E., Director, Palm Beach County Water Utilities, to construct a raw water transmission main issued pursuant to Chapter 403, Florida Statutes (F.S.).

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in this Office, Division of Environmental Health & Engineering, Palm Beach County Health Department, 901 Evernia Street, West Palm Beach, Florida 33401. Petitions filed by the permit applicant and the parties listed below must be filed within fourteen (14) days of receipt of this permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- a. The name, address and telephone number of each petitioner, the applicant's name and address, the Permit File Number and the county in which the project is proposed;
- b. A statement of how and when each petitioner received notice of the Health Department's action or proposed action;
- c. A statement of how each petitioner's substantial interests are affected by the Health Department's action or proposed action;
- d. A statement of the material facts disputed by Petitioner, if any;
- e. A statement of facts which petitioner contends warrant reversal or modification of the Health Department's action or proposed action;

Page Two

- f. A statement of which rules or statutes petitioner contends require reversal or modification of the Health Department's action or proposed action; and
- g. A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Health Department to take with respect to the action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Health Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Health Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within fourteen (14) days of receipt of this notice, in this Office, Division of Environmental Health & Engineering, at the above address of the Palm Beach County Health Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S. and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code (F.A.C.).

This permit is final and effective on the date filed with Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with this Office, Division of Environmental Health & Engineering, Palm Beach County Health Department, 901 Evernia Street, West Palm Beach, Florida 33401; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within thirty (30) days from the date the Final Order is filed with the Clerk of the Department.

Executed in West Palm Beach, Florida, This 7th Day of December, 1999

STATE OF FLORIDA
PALM BEACH COUNTY HEALTH DEPARTMENT



Umesh Asrani, P.E., Assistant Director
Environmental Health & Engineering
901 Evernia Street
West Palm Beach, FL 33401
(561) 355-3070



PERMITTEE:

Gary D. Demlan, P.E., Director
Palm Beach County Water Utilities
2065 Prairie Road
West Palm Beach, FL 33416

ID No.: 450-4393
Permit/Certification: 138308-045-DS
Date of Issue: 12/07/99
Expiration Date: 12/06/2004
County: Palm Beach
Utility: Palm Beach County System #9
Project: Palm Beach County System #9
Raw Water Transmission Main

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-550, 62-555 & 62-560. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

Construct: Approximately 18,000 linear feet of twenty-four inch (24"), thirty inch (30"), and thirty-six inch (36") ductile iron or pre-stressed concrete pipe raw water main.

In Accordance With: Application Form DEP 62-555.900(1) received August 13, 1999, engineering plans sheets 1 through 15, 18 through 23, 25,27,28, A1, C2 through C5, J1 and D1 through D4 received August 13, 1999, and specifications and engineering plan sheets 16,17,24,26,29, C1 and C7 received November 18, 1999.

Located: Along the Hillsborough Canal from South Ponderosa Drive to State Road 7, north on State Road 7 to Southwest Third Street, east on Southwest Third Street to Water Treatment Plant Number 9 in unincorporated Palm Beach County, Florida.

To Serve: A wellfield expansion.

Subject To: General Conditions 1 - 17 and Specific Conditions 1 - 5.

PERMITTEE:

Gary D. Demlan, P.E.

ID No.: 450-4393

Permit/Certification No.: 138308-045-DS

Date of Issue: 12/07/99

Expiration Date: 12/06/2004

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161, 403.727, or 403.859 through 403.061, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agent, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability from harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department Rules.

PERMITTEE:

Gary D. Demlan, P.E.

ID No.: 450-4393

Permit/Certification No.: 138308-045-DS

Date of Issue: 12/07/99

Expiration Date: 12/06/2004

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. having access to and copying any records that must be kept under the conditions of the permit;
 - b. inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the Department with the following information:
 - a. a description of and cause of noncompliance; and
 - b. the period on noncompliance , including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case arising under the Florida Statutes of department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes.

PERMITTEE:

Gary D. Demlan, P.E.

ID No.: 450-4393

Permit/Certification No.: 138308-045-DS

Date of Issue: 12/07/99

Expiration Date: 12/06/2004

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 62-4.12 and 62-30.30, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
 - () Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
 - b. The permittee shall retain at the facility, or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit and records of all data used to complete the application for this permit. The time period of retention shall be at least three (3) years from the date on the sample, measurement, report or application unless otherwise specified by department rule.

PERMITTEE:

Gary D. Demlan, P.E.

I. D. No.: 450-4393

Permit/Certification No.: 138308-045-DS

Date of Issue: 12/07/99

Expiration Date: 12/06/2004

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GENERAL CONDITIONS: (14 Cont'd.)

c. Records of monitoring information shall include:

- the date, exact place, the time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the date(s) analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

15. When requested by the department, the permittee shall, within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

16. In the case of an underground injection control permit, the following permit conditions also shall apply:

- a. All reports or information required by the Department shall be certified as being true, accurate and complete.
- b. Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date.
- c. Notification of any noncompliance which may endanger health or the environment shall be reported verbally to the Department within twenty four (24) hours and again within seventy two (72) hours and a final written report provided within two (2) weeks.
 1. The verbal reports shall contain any monitoring or other information which indicate that any contaminant may endanger an underground source of drinking water and any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.
 2. The written submission shall contain a description of and a discussion of the cause of the noncompliance and if it has not been corrected, the anticipated time the noncompliance is expected to continue, the steps being taken to reduce, eliminate and prevent recurrence of the noncompliance and all information required by Rule 62-28.230(4)(b), F.A.C.

PERMITTEE:

ID No.: 450-4393

Gary D. Demlan, P.E.

Permit/Certification No.: 138308-045-DS

Date of Issue: 12/07/99

Expiration Date: 12/06/2004

GENERAL CONDITIONS: (16 CONT'D.).

- d. The Department shall be notified at least one hundred eighty (180) days before conversion or abandonment of an injection well, unless abandonment within a lesser period of time is necessary to protect waters of the state.

17. The following conditions also shall apply to a hazardous waste facility permit.

a. The following reports shall be submitted to the Department:

1. **Manifest discrepancy report.** If a significant discrepancy in a manifest is discovered, the permittee shall attempt to rectify the discrepancy. If not resolved within fifteen (15) days after the waste is received, the permittee shall immediately submit a letter report, including a copy of the manifest, to the Department.
2. **Unmanifested waste report.** The permittee shall submit an unmanifested waste report to the Department within fifteen (15) days of receipt of unmanifested waste.
3. **Biennial report.** A biennial report covering facility activities during the previous calendar year shall be submitted by March 1 of each even numbered year pursuant to Chapter 62-730, F.A.C.

b. Notification of any noncompliance which may endanger health or the environment, including the release of any hazardous waste that may endanger public drinking water supplies or the occurrence of a fire or explosion from the facility which could threaten the environment or human health outside the facility, shall be reported verbally to the Department within twenty four (24) hours and a written report shall be provided within five (5) days. The verbal report shall include the name, address, ID number and telephone number of the facility, its owner or operator, the name and quantity of materials involved, the extent of any injuries, an assessment of actual or potential hazards and the estimated quantity and disposition of recovered material. The written submission shall contain:

1. A description and cause of the noncompliance.
2. If not corrected, the expected time of correction and the steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.

c. Reports of compliance or noncompliance with, or any progress reports on, requirements in any compliance schedule shall be submitted no later than fourteen (14) days after each schedule date.

PERMITTEE:

Gary D. Dernlan, P.E.

ID No.: 450-4393

Permit/Certification No.: 138308-045-DS

Date of Issue: 12/07/99

Expiration Date: 12/06/2004

GENERAL CONDITIONS: (17 Cont'd.)

- d. All reports or information required by the Department by a hazardous waste permittee shall be signed by a person authorized to sign a permit application.

SPECIFIC CONDITIONS:

1. The permittee is responsible for retaining a Florida registered professional engineer as the engineer of record for this project and upon completion, the engineer shall inspect for complete conformity to the plans and specifications as approved.
2. Upon completion of construction, but prior to placing the system into service, a letter of release must be obtained from the Palm Beach County Health Department; the documentation listed below must be submitted for the letter of release:
 - a. A certification by the engineer that the project has been completed in substantial conformance with approved plans. Certification to such inspection on DEP Form 62-555.910(9) shall be provided to the Palm Beach County Health Department.
 - b. One (1) set of record drawings of the completed project. Drawings are to be at the same scale and in the same sequence as those submitted and approved for permit. Deviations from the original permitted drawings are to be highlighted and/or noted for the Department's review.
 - c. Bacteriological results - Satisfactory bacteriological results for clearance of a community water supply facility shall be two (2) consecutive daily samples with results indicating an absence of coliform. The detailed procedure for bacteriological clearance and release of systems for use is outlined in Technical Memorandum 99-1PR, a copy of which can be furnished upon request.
3. This construction permit is issued with the understanding that pipe material and appurtenances used in this installation will be in accordance with the latest applicable AWWA & NSF Standards for public water supplies.

PERMITTEE:

Gary D. Demlan, P.E.

ID No.: 450-4393

Permit/Certification No.: 138308-045-DS

Date of Issue: 12/7/99

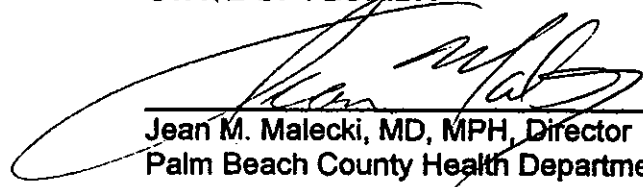
Expiration Date: 12/06/2004

SPECIFIC CONDITIONS:

4. Prior to construction, all required permits or approvals must be obtained for all aspects of the project from the appropriate agencies.
5. This Permit does not include construction of any conflict manhole. The construction shall be strictly in accordance with the design specifications noted on the engineering plans. If field conditions require deviations from the proposed design, the project engineer shall consult with this agency prior to construction.

ISSUED THIS 7th DAY OF December, 1999

**PALM BEACH COUNTY HEALTH DEPARTMENT
STATE OF FLORIDA**



Jean M. Malecki, MD, MPH, Director
Palm Beach County Health Department



CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE was mailed to the applicant by certified mail and to all listed persons before the close of business on 12/7/99.

Palm Beach County Health Department
Environmental Health and Engineering
Plan Review and Permit Section
APPROVED

Clerk Stamp

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52(II), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Brenda J. Johnson

(Clerk)

12-7-99

(Date)

cc: Utility: Eugenia Carey
Engineer-of-Record: Paul D. Feldman, P.E.



Department of Environmental Protection

Certification of Construction Completion and Request for a Letter of Clearance to Place a Public Drinking Water Facility into Service

INSTRUCTIONS: See Page 3.

I. PROJECT NAME AND CONSTRUCTION PERMIT NUMBER, PERMITTEE, ETC.

- Project Name: _____
- Project Construction Permit No.: _____ Date Permit Issued: _____
- Portion of Project for Which Construction is Substantially Complete and for Which a Letter of Clearance is Requested: _____

- **Permittee**
Utility/Company Name: _____ Telephone No.: _____
Address: _____
City: _____ State: _____ Zip Code: _____
- **Owner/Operator of Project After It Is Placed into Service**
Utility/Company Name: _____ Telephone No.: _____
Address: _____
City: _____ State: _____ Zip Code: _____
- **Professional Engineer in Responsible Charge of Inspecting Construction of Project**
Name of Engineer: _____
Firm Name: _____ Telephone No.: _____
Address: _____
City: _____ State: _____ Zip Code: _____

II. STATEMENT BY PERMITTEE

I, the undersigned owner or authorized representative* of _____, certify the following:

- that the contractor has furnished us with record drawings for the substantially completed portion of this project and that these record drawings are available for review at the following location: _____; and
- that, if this project involves the construction of any new or altered treatment facilities, an operation and maintenance manual for the new and altered treatment facilities included in the substantially completed portion of this project is available for review at the site of the new and altered treatment facilities.

Also, I certify that, if we will not be the owner/operator of this project after it is placed into service, we have provided a copy of the above mentioned record drawings and a copy of the above mentioned operation and maintenance manual, if applicable, to the person or system that will be the owner/operator of this project after it is placed into service.

Signature and Date

Name and Title (please type or print)

* Attach a letter of authorization.

III. STATEMENT BY OWNER/OPERATOR OF PROJECT AFTER IT IS PLACED INTO SERVICE

I, the undersigned owner or authorized representative* of _____, certify that we will be the owner/operator of this project after it is placed into service. Also, I certify the following:

- that we have received a copy of the record drawings for the substantially completed portion of this project and that these record drawings are available for review at the following location: _____; and

Certification of Construction Completion and Request for a Letter of Clearance to Place a Public Drinking Water Facility into Service

Project Name: _____

Project Construction Permit Number: _____

Substantially Completed Portion of Project: _____

- that, if this project involves the construction of any new or altered treatment facilities, we have received a copy of the operation and maintenance manual for the new and altered treatment facilities included in the substantially completed portion of this project and that this operation and maintenance manual is available for review at the site of the new and altered treatment facilities.

Signature and Date

Name and Title (please type or print)

* Attach a letter of authorization.

IV. CERTIFICATION OF CONSTRUCTION COMPLETION BY PROFESSIONAL ENGINEER IN RESPONSIBLE CHARGE OF INSPECTING CONSTRUCTION OF PROJECT

I, the undersigned professional engineer registered in Florida, certify that I am in responsible charge of inspecting construction of this project for the purpose of determining in general if work is proceeding in compliance with the construction permit and approved plans and specifications. Also, I certify the following:

- that the substantially completed portion of this project has been constructed in accordance with the construction permit and approved engineering plans and specifications or that, to the best of my knowledge and belief, any deviations from the construction permit and approved engineering plans and specifications will not prevent this project from functioning in compliance with Chapters 62-550, 62-555, and 62-560, F.A.C.;
- that the record drawings for the substantially completed portion of this project are adequate and indicate all deviations from the construction permit and approved engineering plans and specifications; and
- that, to the best of my knowledge and belief, all new or altered well facilities, new or altered treatment facilities downstream from the first point of application of disinfectant at a treatment plant, new or altered finished water pumping facilities, new or altered finished water storage facilities, and new or altered water mains included in the substantially completed portion of this project have been disinfected and bacteriologically tested in accordance with Rules 62-555.315(3), 62-555.340, and 62-555.345, F.A.C., and applicable AWWA disinfection standards (AWWA Standards C651, C652, C653, and/or C654), which are incorporated by reference in Rule 62-555.330(4), F.A.C.

This certification is based upon on-site observation of construction conducted by me or by a project representative under my direct supervision and upon a review of shop drawings, test results/records, and record drawings performed by me or by a project representative under my direct supervision.

This certification does not necessarily constitute a certification of final completion of construction. Additional construction may be needed to satisfy all conditions of the construction contract documents.

The following is a description and explanation of all deviations from the construction permit and approved engineering plans and specifications for the substantially completed portion of this project. (Attach additional sheets if necessary.)

Signature, Date, and Seal

Name and License Number (please type or print)

Certification of Construction Completion and Request for a Letter of Clearance to Place a Public Drinking Water Facility into Service

INSTRUCTIONS: This form shall be completed and submitted for projects permitted and constructed under specific public drinking water facility construction permits issued by the Department and for projects permitted and constructed under the General Permit for Construction of an Extension to a Public Drinking Water Distribution System." AFTER SUBSTANTIALLY COMPLETING THE CONSTRUCTION OF A PROJECT OR A PORTION OF A PROJECT AND BEFORE PLACING ANY NEWLY CONSTRUCTED OR ALTERED PUBLIC DRINKING WATER FACILITY INTO SERVICE FOR ANY PURPOSE OTHER THAN DISINFECTION, TESTING FOR LEAKS, AND/OR TESTING EQUIPMENT OPERATION, complete this form and submit it to the appropriate district office of the Department or the appropriate approved County Public Health Unit (ACPHU) along with applicable supporting documents. Applicable supporting documents include the following: (1) for projects and portions of projects where there is any deviation from the construction permit and approved engineering plans and specifications, a copy of record drawings; (2) for projects and portions of projects including new or altered public drinking water supply wells, new or altered treatment facilities downstream from the first point of application of disinfectant at a public drinking water treatment plant, new or altered treated/finished drinking water pumping facilities, new or altered treated/finished drinking water storage facilities, or new or altered treated/finished drinking water mains, a copy of satisfactory bacteriological test results that indicate the date and time each bacteriological sample was collected and that demonstrate compliance with Rules 62-555.315(3), 62-555.340, and 62-555.345, Florida Administrative Code (F.A.C.) and applicable American Water Works Association (AWWA) disinfection standards (AWWA standards C651, C652, C653, and C654), which are incorporated by reference in Rule 62-555.330(4), F.A.C.; (3) for projects and portions of projects including new or altered public drinking water treatment facilities that are needed to comply with, or affect compliance with, Part III of Chapter 62-550, Part VI of Chapter 62-555, or Rule 62-524.650(2), F.A.C., a copy of analytical test results that demonstrate compliance with these rules; and (4) for projects and portions of projects including new or altered wells, a copy of the log completion report for each new or altered well if such report is applicable and has not been previously submitted to the Department or the appropriate ACPHU. All information provided on this form shall be typed or printed in ink. When submitting a copy of bacteriological test results, also submit a sketch or description indicating where each bacteriological sample was collected. **NOTE THAT A SEPARATE CERTIFICATION OF CONSTRUCTION COMPLETION AND REQUEST FOR A LETTER OF CLEARANCE IS REQUIRED FOR EACH PERMITTED PROJECT. DO NOT PLACE ANY NEWLY CONSTRUCTED OR ALTERED PUBLIC DRINKING WATER FACILITY INTO SERVICE UNTIL THE DEPARTMENT OR THE APPROPRIATE ACPHU ISSUES A LETTER OF CLEARANCE FOR THE FACILITY.**

For new and altered public drinking water supply wells, bacteriological sampling shall be conducted, and interpretation of bacteriological test results shall be made, in accordance with Rule 62-555.315(3), F.A.C. For all other new and altered public drinking water facilities, bacteriological sampling shall be conducted by first reducing the total chlorine residual in the water within the facilities to no more than 4 mg/L and then collecting daily bacteriological samples (taken at least 24 hours apart) for two or more consecutive work-days until satisfactory test results are obtained. Bacteriological test results for new and altered public drinking water facilities other than wells shall be considered satisfactory if two consecutive daily samples from each sample location show the absence of total coliform organisms. Bacteriological test results for all new and altered public drinking water facilities other than wells will be considered invalid if the results are for samples collected more than 30 days before the results are received by the Department or the ACPHU, and bacteriological test results for new and altered public drinking water mains will be considered invalid if the pressure in the mains is not maintained at 20 psi or greater after the samples are collected.

ATTACHMENT 4

FINAL DESIGN

Previously submitted. See Attachment 2 for aeration system eductor and canal outfall modification

ATTACHMENT 5

BIDDING PHASE

5-1 Bid Tabulation

5-2 Pre-construction Meeting

BID TABULATION SHEET

POSTED _____
 REMOVED _____
 BID# 98-66

PAGE 1 OF _____

TITLE Plant No. 9 Eastern Hillsboro Canal
 Aquifer Storage & Recovery Well
 System

	VENDOR 1	VENDOR 2	VENDOR 3	VENDOR 4	VENDOR 5
	Youngquist Brothers Inc.	The Haskell Co.	All Webb's Enterprises Inc.	Florida Design Contractors	
TOTAL BASE BID	\$ 3,873,544.00	\$ 2,773,680.00	David Webb. \$ no Bid. Pending Legal	\$ 4,681,100.00	\$
Attachment #1 BID BOND	(Y) N	(Y) N	classification Y N	(Y) N	Y N
Page 3 Addendum #1	(Y) N	(Y) N	Y N	(Y) N	Y N
(Schedules 1, 2, 3) Attachment #2 M/WBE Schedules	(Y) N	(Y) N	Y N	(Y) N	Y N
Attachment #3 List of Subcontractors	(Y) N	(Y) N	Y N	(Y) N	Y N
Attachment #4 Trench Safety	(Y) N	(Y) N	Y N	(Y) N	Y N

BIDS PICKED UP BY

Paul A. Pica
 ENGINEER

11/22/00
 DATE

Bid

Plant No. 9 Eastern Ilseboro Canal Aquifer
Storage and Recovery Well System
Project No. 98-66

Item	Description	Youngquist Bros.	Haskell Co.	All Webb's	FL Design Cont.
1	Aquifer Storage & Recover Well	\$1,278,444.00	\$584,480.00		\$750,000.00
2	Florida Aquifer Monitor Well	\$700,000.00	\$645,398.00		\$980,000.00
3	Mobilization/Demobilization	\$425,000.00	\$340,000.00		\$776,000.00
4	Underground structures, structural, mechanical, yard piping, site work	\$945,000.00	\$721,202.00		\$1,500,000.00
5	Electrical and I&C	\$300,000.00	\$257,500.00		\$450,000.00
6	Permit Fee Allowance	\$15,000.00	\$15,000.00		\$15,000.00
7	Landscaping Allowance	\$75,000.00	\$75,000.00		\$75,000.00
8	Electrical and Instrumentation Allowance	\$40,000.00	\$40,000.00		\$40,000.00
9	Piping, Structures, Mechanical Allowance	\$50,000.00	\$50,000.00		\$50,000.00
10	Bonus for Early Completion	\$45,000.00	\$45,000.00	\$45,000.00	\$45,000.00
11	Indemnification	\$100.00	\$100.00	\$100.00	\$100.00
	TOTALS	\$3,873,544.00	\$2,773,680.00	\$45,100.00	\$4,681,100.00

Construction Adjustments

Projec o. 98-66

Item	Description	Youngquist Bros.	Haskell Co,	All Webb's	FL Design Cont.
1.1	Drilling 12.25 diameter pilot hole	\$25.00	\$83.20		\$100.00
1.2	Reaming 44-inch dia. Borehole	\$25.00	\$78.00		\$93.75
1.3	Furnishing & installing (F&I) 34-inch diameter casing	\$50.00	\$78.00		\$93.75
1.4	Furnishing & emplacing cement in the annular spaces	\$10.00	\$26.00		\$31.25
1.5	Reaming 34-inch diameter borehole	\$25.00	\$67.60		\$81.25
1.6	F&I 24-inch diameter casing	\$75.00	\$104.00		\$125.00
1.7	Obtaining 4-inch diameter core	\$10.00	\$145.60		\$175.00
1.8	Performing packer pumping tests	\$9,500.00	\$10,400.00		\$12,500.00
1.9	Reaming 24-inch diameter borehole	\$25.00	\$67.60		\$81.25
1.10	Performing well development	\$100.00	\$390.00		\$468.75
1.11	Performing acidification in the ASR well	\$5,000.00	\$2,600.00		\$65,000.00
1.12	Extra work-rig crew	\$10.00	\$416.00		\$500.00
1.13	Standby time	\$10.00	\$416.00		\$500.00
2.1	Drilling 12.25 diameter pilot hole	\$25.00	\$83.20		\$100.00
2.2	Reaming 34-inch diameter borehole	\$25.00	\$67.60		\$120.00
2.3	F&I 24-inch diameter casing	\$25.00	\$78.00		\$93.75
2.4	Furnishing & emplacing cement in the annular spaces	\$10.00	\$26.00		\$31.25
2.5	Obtaining 4-inch diameter core	\$10.00	\$145.60		\$175.00
2.6	Reaming 24-inch diameter borehole	\$25.00	\$57.20		\$68.75
2.7	F&I 14-inch diameter casing	\$20.00	\$52.00		\$62.50
2.8	Performing packer pumping tests	\$9,500.00	\$10,400.00		\$12,500.00
2.9	F&I 6-5/8-inch diameter casing	\$75.00	\$36.40		\$43.75
2.10	Well development	\$100.00	\$390.00		\$468.75
2.11	Extra work-rig crew	\$10.00	\$416.00		\$500.00
2.12	Standby time	\$10.00	\$416.00		\$500.00
	TOTAL	\$24,700.00	\$27,040.00	\$0.00	\$94,413.75

**Minutes of Pre-Construction Meeting
WUD # 98-66 B
Plant #9 Eastern Hillsboro Canal
Aquifer Storage Recovery Well System
February 15, 2001**

Attendees:

Steve McGrew, P.E., Water Utilities Department (WUD)
Tom Uran, Hydrogeologist, WUD
Brandon Selle, Construction Coordinator, WUD
Frank Ferrano, Manager of Construction Services, WUD
Anthony Longo, Construction Coordinator, WUD
Debbie Wilson, Secretary, WUD
Peter Kwiatkowski, South Florida Water Management District (SFWMD)
Bob Verrastro, SFWMD
Becky Hackenburg, Montgomery Watson (MW)
Neil Johnson, MW
Norman Anderson, Division Manager of Water/Wastewater, The Haskell Company
Jay Pellegrino, Project Manager, The Haskell Company
Bob Schumm, Integrity Well and Pump Company
Mike McEwen, Integrity Well and Pump Company

1. The meeting started at 10:40 A.M.
2. Steve McGrew presented an agenda to all participants (copy attached).
3. Status of Contract: Contract awarded by the Board of County Commissioners on January 9, 2001. An executed contract was given to The Haskell Company at the meeting. Jay requested 3 sets of plan, and 3 set of ½ size plans. Both were presented at the meeting. However, the sets are not completely conformed. There was only one (1) addendum with this project. Make sure your staff is familiar with the addendum.
4. Status of Permits: Montgomery Watson handed out a tracking sheet (copy attached).
 - A. FDEP Class V Injection: Issued in draft in December 2000. Public Hearing was in January. When permit is received, it must be published for two (2) weeks. If no objection, it will be issued within 2 – 3 days. Anticipate receiving this permit on March 7, 2001.
 - B. FDEP Wellfield Protection Variance: Not applicable
 - C. FDEP Water Quality Criteria Exemption: No concern to The Haskell Company. Only required for injection.
 - D. FDEP NPDES: Anticipate receiving this within two weeks. Not needed for start-up, but will be required for discharge into the Hillsboro Canal.
 - E. PBCHD Operational Permit: Draft was issued on February 5, 2001. WUD had problems with the sampling that the Health Department is requiring. Met with PBCHD and have resolved issues. When permit is issued there will be a two (2) week publication period. Anticipate receiving March 7, 2001.
 - F. SFWMD Construction Permit: Not applicable. FDEP Class V Permit will act as a substitute permit.
 - G. SFWMD Right-of-Way Permit: Issued on February 15, 2001. Allows The Haskell Company to construct a field trailer, however, you must obtain a permit from the Palm

Beach County Building Department before receiving power from Florida Power and Light.

H. SFWMD Surface Water Permit: Not required.

I. FPL Easement: Required for the Florida Monitoring well is sampled.

3. Status of Notice to Proceed: The earliest date for NTP will be March 7, 2001.
4. Insurance and Bond: Project is bonded. Insurance expired on January 31, 2001. Please assure that your bonds and insurance are kept up to date. Insurance and Bonds must be maintained through out the contract. Contractor stated update insurance has been sent to PBCWUD.
5. Emergency phone numbers for key personnel: Please issue a list of emergency telephone numbers for all key personnel. Jay stated that he would fax the list to Steve McGrew on Friday morning. If it has been received, a copy will be attached to the minutes.
6. Contractors Schedule: Jay distributed a copy of the Contractor's schedule (copy attached). It was based on a NTP date of March 1, 2001. Based on a 3/1/01 NTP, the drilling would have started on March 12, 2001. There would be a one week lag between the monitoring well and the ASR well. Tom Uram stated that the FDEP regulations state that you can not have two wells open at the same depth, at the same time. The Haskell Company must comply with FDEP regulations.

Once the pilot is completed to the bottom and mud is cleared out of the well, then we can go ahead and start the second well. There is a mud issue. The Haskell Company wanted to know what is driving the mud issue. Mud is important to the entire issue. There is an issues with cross communication of mud between these two holes. Haskell Company wanted to know why we are using mud. As far as the monitoring well is concerned, the basic issues is that some of the geological tools that are used in the oil industry are designed to be operated with the mud as opposed to reverse air. SFWMD experience has been that you get a better set of geophysical decisions regarding casing settings and confining units based on that contrast. With reverse air there is a tendency to enlarge the borehole as opposed to a gage hole that might normally obtain by drilling with mud. The intent of the monitoring well is to move out ahead of the ASR well so that you have the entire knowledge before you make the casing settings. The Haskell Company did not realize that two wells could not be drilled at the same time. Given that there are only 240 days in this contract, the FDEP approval could delay the project. Haskell Company wanted it stated in the minutes that if there are delays, they will come back to PBCWUD and ask for more time. PBCWUD does not have a problem with both rigs being started at the same time, but there might be problems if one of the rigs must be shut down. PBCWUD does not want a change order issued to pay for the shut down. If a problem does occur, you can not proceed with the ASR wells until certain procedures have been completed with the monitoring well. If there are two rigs out there, there is the potential for two rigs to be delayed, since The Haskell Company wants to accelerate the schedule.

If you do encounter the void of voids, and its unavoidable, we are all reasonable. If The Haskell Company runs into a situation where the circulation in unrecoverable, and you have attempted to get it back, at that point switching over to reserve air to complete the pilot hole would be the correct course of action. The Haskell Company needs some time table to be able to get beyond the voids. PBCWUD has a cooperative agreement with SFWMD. The Haskell Company is dealing with two

agencies. SFWMD want The Haskell Company to dry drilling with the mud. Please give it your best effort. We're all going to work together as a team.

PBCWUD must first review the schedule that was presented to us today, and respond to the Haskell Company with comments as soon as possible.

Sampling Issues: Every thirty days a well sample must be taken. Those will not follow on the mud. A formal request could not be made until this meeting. The county's largest concern is the surficial aquifer schedule. The Haskell Company requested a copy of the cooperative agreement. One was given to them at the meeting. Tom Uram stated he would be at the site every day. The Haskell Company has some concern about the cleaning out of the mud.

Frank Ferrano asked The Haskell Company what they thought was going to happen at the job site. Norman stated that they thought the bid time should be longer. The Haskell Company spoke with several well drillers and they all said that 270 days was not long enough to drill. Not counting the preparation time, The Haskell Company needs time in front of the NTP date and time at the end of the contract, so The Haskell Company has taken the risk. You can only make the drilling time go so fast. The contract has created a lot of tension between The Haskell Company and Integrity Drilling Company. The work schedule will be discussed with Frank Ferrano at a later date.

There is some site preparation work that Haskell Company wants to do, before the NTP is issued, with the permitting allowed, at their risk. When the NTP is issued, they want to be able to start drilling immediately.

Contract time and contract end date are issues here. The end date is November 2001. Now that the right-of-way permit is issued, we can give you the leeway time you need. There will be times when the drilling can't stop at 7:00 P.M. The Haskell Company needs to give PBCWUD as much notice as possible at these times. Our Communication Department can be reached by PBCWUD. When this becomes an issue please notify Brandon. Please remember, we are working very close to a neighborhood. The residents in the area are very tired, so please be as friendly as possible.

7. From this point on, all communication/comments/concerns will be addressed to Brandon Selle. He will be the focal point of all communications.
8. Processing Application for payment: Please use the PBCWUD forms for your pay requests. No other forms will be permitted. Brandon will meet with the contractor on the 25th of the month for quantities, and all paperwork should be submitted by the 1st of the month. Each payment will be a calendar month, with payment being made approximately 3 –4 weeks after submittal.
9. MWBE: The MWBE that were listed by The Haskell Company were not valid, so when this item went to the Board of County Commissioners, it went with a 0 participation MWBE.
10. Materials on site: Ferrano will take a look at what's on site.
11. Record Drawings: These need to be maintained on site. PBCWUD will not process the pay request until the record drawings are updated. Frank and Brandon will look at the record drawings every month.

Access to the road must be maintained, and 24 hour access is allowed.

Sandlefoot Blyd. - bring the rigs in and point them east and west

From the west – Locks Road – no construction vehicles

Outfall structure for discharge to the Hillsboro Canal - build it early

The Haskell Company will need a 2" water meter with 3" piping. Please connect to tap by underground method.

Make sure that you're trailer is locked up each night. School will be out soon, and there are children in the area.

Propoosed changes to the contract: drilling method

Dissolved oxygen level in the discharge: PBCWUD will request a modification to install an inductor system so that dissolved oxygen levels can be increased. A mechanical allowance can be used for this.

Allowance vs. change order: An allowance is a simple form that can be signed off by PBCWUD Engineering Director. It's a one page form and we required 3 copies. If the change order is less than \$10,000 the PBCWUD Director may sign. If it's between 10,000 and 50,000 then it must be signed by contract review committee. If the change order exceeds \$50,000 it must be sent to the Board of County Commissioners. This process can be very lengthy, and time consuming. There are also time extensions.

Liquidated damages: There are LD in this contract, \$2,500 per day prior to substantial completion and \$1500 per day for final completion.

Comments must be returned to The Haskell Company within one week.

The Plans and Application for the Electrical Permit were given to The Haskell Company at the meeting.

The fence permit must be obtained from Planning, Building and Zoning Department, West Palm Beach.

The meeting was adjourned at 12:15 P.M. with a site visit scheduled after the meeting.

For any corrections/additions/deletions to this meeting, please contact Debbie Wilson at (561) 641-3453.

Respectfully submitted,

Debbie Wilson, Secretary
Palm Beach County Water Utilities Department

SIGN IN SHEET
PRE-CONSTRUCTION MEETING
PLANT NO. 9 EASTERN HILLSBORO CANAL
AQUIFER STORAGE AND RECOVERY WELL SYSTEM
WUD 98-66 B
February 15, 2001

COMPANY NAME Integrity Well & Pump Co.
REPRESENTATIVE NAME R. Schuman
ADDRESS 159 Windy Hill Lane Manchester, MA 02262
TELEPHONE 540-667-5858 FAX 540-667-5726 E-MAIL rcs@integritywell.com

COMPANY NAME Integrity Well & Pump
REPRESENTATIVE NAME Mike McEwen
ADDRESS 159 Windy Hill Lane
TELEPHONE 352-895-9145 FAX 540 667 5726 E-MAIL _____

COMPANY NAME South Florida Water Management District
REPRESENTATIVE NAME Peter Kwiatkowski
ADDRESS 3301 Gun Club Rd. West Palm Beach, FL 33406
TELEPHONE (561) 682-2547 FAX (561) 682-5043 E-MAIL pkwiat@sfwmd.gov

COMPANY NAME South Florida Water Mgmt. District
REPRESENTATIVE NAME Bob Verrastro
ADDRESS 3301 Gun Club Road WPG, FL 33406
TELEPHONE (561) 682-6139 FAX (561) 682-6442 E-MAIL bverras@sfwmd.gov

COMPANY NAME _____
REPRESENTATIVE NAME _____
ADDRESS _____
TELEPHONE _____ FAX _____ E-MAIL _____

**SIGN IN SHEET
PRE-CONSTRUCTION MEETING
PLANT NO. 9 EASTERN HILLSBORO CANAL
AQUIFER STORAGE AND RECOVERY WELL SYSTEM
WUD 98-66 B
February 15, 2001**

COMPANY NAME Montgomery Watson
REPRESENTATIVE NAME Becky Hachenburg
ADDRESS 490 Sawgrass Corporate Pkwy. Ste 300 Sunrise, FL 33325
TELEPHONE 954 846-0401 FAX 954 846-0424 E-MAIL becky.hachenburg@mw.com

COMPANY NAME FBCWUA
REPRESENTATIVE NAME TOM URAM
ADDRESS 2065 PRARIE ROAD WPB FL 33416
TELEPHONE (561) 434 5356 FAX (561) 434 3447 E-MAIL TURAM@CO.PATR-BEACH.FL.US

COMPANY NAME Montgomery Watson
REPRESENTATIVE NAME Neil Johnson
ADDRESS 490 Sawgrass Corporate Parkway, Suite 300 Sunrise, FL 33325
TELEPHONE 954 846-0401 FAX 954 846-0424 E-MAIL neil.johnson@mw.com

COMPANY NAME The Haskell Company
REPRESENTATIVE NAME Norman Anderson
ADDRESS 111 Riverside Ave, JAX, FL 32205
TELEPHONE 904 357 4868 FAX 904 357 4282 E-MAIL ncanders@thehaskellco.com

COMPANY NAME The Haskell Company
REPRESENTATIVE NAME Jay Pellegrino - Proj. Mgr.
ADDRESS _____
TELEPHONE 357-4933 FAX _____ E-MAIL jpellegr@thehaskellco.com

SIGN IN SHEET
PRE-CONSTRUCTION MEETING
PLANT NO. 9 EASTERN HILLSBORO CANAL
AQUIFER STORAGE AND RECOVERY WELL SYSTEM
WUD 98-66 B
February 15, 2001

COMPANY NAME _____
REPRESENTATIVE NAME Brown Zali
ADDRESS _____
TELEPHONE 487-0754 FAX 487-9296 E-MAIL _____

COMPANY NAME _____
REPRESENTATIVE NAME _____
ADDRESS _____
TELEPHONE _____ FAX _____ E-MAIL _____

COMPANY NAME _____
REPRESENTATIVE NAME _____
ADDRESS _____
TELEPHONE _____ FAX _____ E-MAIL _____

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REPRESENTATIVE NAME _____
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TELEPHONE _____ FAX _____ E-MAIL _____

COMPANY NAME _____
REPRESENTATIVE NAME _____
ADDRESS _____
TELEPHONE _____ FAX _____ E-MAIL _____

SIGN IN SHEET
PRE-CONSTRUCTION MEETING
PLANT NO. 9 EASTERN HILLSBORO CANAL
AQUIFER STORAGE AND RECOVERY WELL SYSTEM
WUD 98-66 B
February 15, 2001

COMPANY NAME PBCWUD
REPRESENTATIVE NAME Anthony Longo
ADDRESS 2005 Prairie Rd W PB FL 33406
TELEPHONE 561/641-3404 FAX 561/641-3447 E-MAIL alongo@co.palm-beach.fl.us

COMPANY NAME PBC WUD
REPRESENTATIVE NAME Frank Ferrara P.E.
ADDRESS _____
TELEPHONE _____ FAX _____ E-MAIL _____

COMPANY NAME _____
REPRESENTATIVE NAME _____
ADDRESS _____
TELEPHONE _____ FAX _____ E-MAIL _____

COMPANY NAME _____
REPRESENTATIVE NAME _____
ADDRESS _____
TELEPHONE _____ FAX _____ E-MAIL _____

COMPANY NAME _____
REPRESENTATIVE NAME _____
ADDRESS _____
TELEPHONE _____ FAX _____ E-MAIL _____

**EMERGENCY CONTACT NUMBERS
FOR
PLANT #9 EASTERN HILLSBORO CANAL
AQUIFER STORAGE & RECOVERY WELL SYSTEM
PBC JOB #WUD-98-66
THC JOB #6700893**

The Haskell Company

James Pellegrino – Project Manager
Office – 904-357-4933
Mobile – 904-318-7189
Home – 904-880-1988

Norman Anderson – Division Leader
Office – 904-357-4868
Mobile – 904-307-7751
Home – 904-381-9645

Integrity Well & Pump

Mike McEwan – Project Superintendent
352-895-9145

Robert Schumm – Project Manager
Office – 540-877-2886
Mobile – 540-336-2136

**February 15, 2000
Plant 9 Eastern Hillsboro Canal
Aquifer Storage and Recovery Well System
Project No. WUD 98-66**

Pre-Construction Meeting Agenda

1. Status of Contract
2. Status of Permits
3. Status of Notice to Proceed
4. Insurance and Bonds
5. Emergency phone numbers for key personnel
6. Contractors Schedule
7. Transmission, review and distribution of Contractors submittals
8. Processing applications for payment
9. Minority & Women Business Enterprise
10. Maintaining record drawings
11. Critical work sequencing
12. Field Decisions and Change Orders
13. Use of site, office and storage areas, security and housekeeping
14. Proposed Changes to the Contract
15. Drilling Method for Monitoring Well
16. Dissolved Oxygen in the canal discharge

ATTACHMENT 6

CONSTRUCTION 30% COMPLETE

- b. Construction activity schedule (Activity ID 0060 and 0088)
- d. Well Completion Reports 9W-23 to 9W-25
- e. Raw Water Main Release
- f. Partial Health Department Release 9W-17 to 9W-25
- g. Raw Water Main Release (See 6.e)



THE HASKELL COMPANY
TOTAL FACILITY SOLUTIONS

Facsimile Letter

Date/Time: January 30, 2002

To: Brandon Selle at: Palm Beach County Water Utilities Dept

Fax No.: 561-641-3447 Total No. Of Pages: 5 (including this cover sheet)

Message:

Re: ASR Well Plant No. 9
Boca Raton, Florida
Updated Schedule

Brandon,

Attached is the updated schedule, data date January 30, 2002. Please call so we can discuss.

From:

Stacy L. Ferguson 

Project Manager

If you do not receive all of these pages, or are having a problem with the reception of this material, please call: 904/791-4500, ext. 4242

Return FAX Number: 904/791-4693 904/791-4697 904/791-4699 904/695-2112 904/695-2396 904/357-4282

Activity ID	Description	Percent Complete	Remaining Duration	Early Start	Early Finish	AUG	SEP	2001 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
0060	Install 34" x 200' & Grout	100	0	10/18/01 A	10/19/01 A											
0088	Drill Pilot Hole & Core 12" x 1050	100	0	10/23/01 A	11/05/01 A											
0089	Log Well	100	0	11/06/01 A	11/06/01 A											
0090	Ream 34" x 1050	100	0	11/07/01 A	12/05/01 A											
0091	Set 24" x 1050 & Grout	100	0	12/07/01 A	01/30/02 A											
0092	Perform Pressure Test	0	1	01/30/02	01/30/02											
0093	Reverse Drill 12" to 1200' & Core	0	7	01/30/02	02/08/02											
0094	Take Water Samples & Log Well	0	5	02/08/02	02/15/02											
0095	Perform Packer Test on ASR Well	0	5	02/15/02	02/22/02											
0096	Ream 24" x 120'	0	3	02/22/02	02/25/02											
0097	Develop ASR Well	0	3	02/26/02	02/28/02											
0098	Log ASR Well	0	2	03/01/02	03/04/02											
0099	Video ASR Well	0	1	03/05/02	03/05/02											
0100	Perform Pumping Tests	0	6	01/31/02	02/07/02											
0101	Take Water Samples & Disinfect ASR Well	0	6	02/08/02	02/15/02											
0030	Outfall Structure & Piping	75	1	01/15/02 A	01/30/02											
0102	Tear Down ASR Well Rig & Clean Pad	0	6	03/06/02	03/13/02											
0103	Set Permanent Pump	0	8	06/13/02	06/24/02											
0031	ASR Well Vault & Piping	0	30	03/14/02	04/24/02											
0033	Set FAMW Vault	0	5	02/13/02	02/20/02											
0034	Lift Station & Piping	0	5	02/20/02	02/27/02											
0035	Electrical	0	20	02/27/02	03/27/02											
0036	Instrumentation & Controls	0	15	01/30/02	02/19/02											
0032	Venturi Meter & Control Valve Vault & Piping	0	30	03/14/02	04/24/02											

Start date	02/13/01
Finish date	07/19/02
Data date	01/30/02
Run date	01/30/02
Page number	3A
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**The Haskell Company
Palm Beach County ASR Well System**

- Early bar
- Target bar
- Progress bar
- Critical bar
- Summary bar
- ▲ Progress point
- ▼ Critical point
- ♥ Summary point
- ◆ Start milestone point
- ◆ Finish milestone point

ID	Description	Percent Complete	Remaining Duration	Early Start	Early Finish	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
0037	Landscaping	0	10	07/18/02	05/01/02											
0058	Substantial Completion	0	0		07/17/02											
0038	Testing & Start-up	0	106 *	01/30/02	08/26/02											
0041	Pipe Tests	0	10	04/25/02	05/08/02											
0042	Disinfection of Pipe	0	3	05/09/02	05/13/02											
0043	Testing & Start-up of Well Pump	0	2	06/25/02	08/26/02											
0044	Pump - Sump	0	2	02/27/02	03/01/02											
0045	Pump - Hose	0	2	01/30/02	01/31/02											
0046	Project Close-out	0	103 *	02/27/02	07/19/02											
0039	ASR Well Final Water Tests & Disinfect	0	15	08/27/02	07/17/02											
0048	Record Drawings	0	1	07/18/02	07/18/02											
0050	Spare Parts	0	1	02/27/02	02/27/02											
0051	Release of Leins	0	1	07/18/02	07/18/02											
0061	Project Completion	0	1	07/19/02	07/19/02											

Start date	02/13/01
Finish date	07/19/02
Data date	01/30/02
Run date	01/30/02
Page number	4A
© Primavera Systems, Inc.	

**The Haskell Company
Palm Beach County ASR Well System**

-  Early bar
-  Target bar
-  Progress bar
-  Critical bar
-  Summary bar
-  Progress point
-  Critical point
-  Summary point
-  Start milestone point
-  Finish milestone point

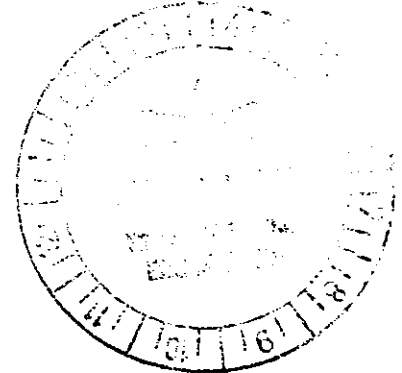


Jeb Bush
Governor

Robert G. Brooks, M.D.
Secretary

May 8, 2001

Steve Korbela, Manager
Regulatory Compliance
Palm Beach County Water Utilities Dept.
2065 Prairie Road
West Palm Beach, FL 33406



Project: WTP #9 Raw Water Transmission Main

Water Permit No.: 138308-045-DS

Sewer Permit No.: NA

Dear Mr. Korbela:

The referenced project is hereby released for service to the extent indicated below. This release is based on the certification by the engineer-of-record that the water and/or sewer system has been constructed in substantial accordance with the plans previously approved by this agency.

The system is released to the full extent of the approved plans.

The system is partially released and limited to

The system is released for construction water only:

a. Full extent

b. Partially and limited to

Should you have any questions please call the undersigned at 561-355-3070 ext. 1136.

Sincerely,

For the Division Director
Environmental Health & Engineering

A handwritten signature in cursive script, appearing to read "T. D. LeFevre".

T. D. LeFevre
Engineer-Supervisor
Plan Review & Permit Section

cc: engineer-of-record: Brandon D. Selle, P.E.



Palm Beach County Water Utilities Department
 2065 Prairie Road
 P.O. Box 16097
 West Palm Beach, Florida 33416

LETTER OF TRANSMITTAL

Date	4/4/01	Job No.	98-51R
Attention	Plan Review		
Re	Water Treatment Plant 9 Transmission		
Mains			
Permit No.	138308-045-DS		

TO Palm Beach County Health Dept.
Environmental Health / Engineering
901 Evernia Street
West Palm Beach, FL 33401

- WE ARE SENDING YOU Attached Under separate cover via _____ the following items:
- Shop Drawings Prints Plans Samples Specifications
- Copy of Letter Change Order Permit

Copies	Date	No.	Description
1			Request for letter of Clearance
1			Record Drawings
1			Bacteriological Reports

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit ___ copies for approval
- For your use Approved as noted Submit 4 copies for distribution
- As requested Approved as submitted Return ___ corrected prints
- For review and comment Approved as submitted
- For bids due ____ Prints returned after loan to us

REMARKS

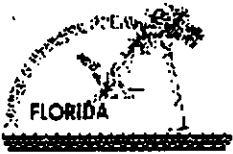
The attached reports for the Sample Points No. RW-1 and RW-2 are expired. These samples had to be taken before the completion of the job so that restoration of this phase of the project could be started. This section of the raw water main has been protected from infiltration and contamination by maintaining a minimum pressure greater than 20 psi in the main since the date of sampling. We are requesting acceptances of these two samples under this condition.

Please contact me at (561) 641-3469 should you have any questions or comments.

COPY TO File

SIGNED 

Brandon D. Selle, P.E.



Department of Environmental Protection

Certification of Construction Completion and Request for a Letter of Clearance to Place a Public Drinking Water Facility into Service

INSTRUCTIONS: See Page 3.

I. PROJECT NAME AND CONSTRUCTION PERMIT NUMBER, PERMITTEE, ETC.

- Project Name: Water Treatment Plant No. 9 Potable Water Transmission Main
- Project Construction Permit No.: 138308-045-DS Issued: 12/7/99
- Portion of Project for Which Construction Is Substantially Complete and for Which a Letter of Clearance Is Requested: Raw Water Transmission Main from the Hillsboro Canal (STA 268+56) to WTP 9 (STA 2+24)

- Permittee
Utility/Company Name: Palm Beach County Water Utilities Department Telephone No.: (561) 641-3429
Address: 2065 Prairie Road
City: West Palm Beach State: FL Zip Code: 33416
- Owner/Operator of Project After It Is Placed into Service
Utility/Company Name: Palm Beach County Water Utilities Department Telephone No.: (561) 641-3429
Address: 2065 Prairie Road
City: West Palm Beach State: FL Zip Code: 33416
- Professional Engineer in Responsible Charge of Inspecting Construction of Project
Name of Engineer: Brandon D. Selle, P.E.
Firm Name: Palm Beach County Water Utilities Department Telephone No.: (561) 641-3429
Address: 2065 Prairie Road
City: West Palm Beach State: FL Zip Code: 33416

II. STATEMENT BY PERMITTEE

I, the undersigned owner or authorized representative* of Palm Beach County Water Utilities Department, certify the following:

- that the contractor has furnished us with record drawings for the substantially completed portion of this project and that these record drawings are available for review at the following location: The Construction Office located at Water Treatment Plant No. 9, and at 2030 Prairie Road, West Palm Beach.
- that, if this project involves the construction of any new or altered treatment facilities, an operation and maintenance manual for the new and altered treatment facilities included in the substantially completed portion of this project is available for review at the site of the new and altered treatment facilities.

Also, I certify that, if we will not be the owner/operator of this project after it is placed into service, we have provided a copy of the above mentioned record drawings and a copy of the above mentioned operation and maintenance manual, if applicable, to the person or system that will be the owner/operator of this project after it is placed into service.

[Signature] 3/15/99
Signature and Date

Gary Dernlan, P.E., Director
Name and Title (please type or print)

* Attach a letter of authorization.

Certification of Construction Completion and Request for a Letter of Clearance to Place a Public Drinking Water Facility into Service

Project Name: Water Treatment Plant No. 9 Potable Water Transmission Main

Project Construction Permit No.: 138308-042-DS

Substantially Completed Portion of Project: RWM from the Hillsboro Canal (STA 268+56) to WTP 9 (STA 2+24)

III. STATEMENT BY OWNER/OPERATOR OF PROJECT AFTER IT IS PLACED INTO SERVICE

I, the undersigned owner or authorized representative* of Palm Beach County Water Utilities Department, certify that we will be the owner/operator of this project after it is placed into service. Also, I certify the following:

- that we have received a copy of the record drawings for the substantially completed portion of this project and that these record drawings are available for review at the following location: The Construction Office located at Water Treatment Plant No. 9, and at 2030 Prairie Road, West Palm Beach.
- that, if this project involves the construction of any new or altered treatment facilities, we have received a copy of the operation and maintenance manual for the new and altered treatment facilities included in the substantially completed portion of this project and that this operation and maintenance manual is available for review at the site of the new and altered treatment facilities.

[Signature] 3/15/09
Signature and Date

Gary Dernlan, P.E., Director
Name and Title (please type or print)

* Attach a letter of authorization.

IV. CERTIFICATION OF CONSTRUCTION COMPLETION BY PROFESSIONAL ENGINEER IN RESPONSIBLE CHARGE OF INSPECTING CONSTRUCTION OF PROJECT

I, the undersigned professional engineer registered in Florida, certify that I am in responsible charge of inspecting construction of this project for the purpose of determining in general if work is proceeding in compliance with the construction permit and approved plans and specifications. Also, I certify the following:

- that the substantially completed portion of this project has been constructed in accordance with the construction permit and approved engineering plans and specifications or that, to the best of my knowledge and belief, any deviations from the construction permit and approved engineering plans and specifications will not prevent this project from functioning in compliance with Chapters 62-550, 62-555, and 62-560, F.A.C.;
- that the record drawings for the substantially completed portion of this project are adequate and indicate all deviations from the construction permit and approved engineering plans and specifications; and
- that, to the best of my knowledge and belief, all new or altered well facilities, new or altered treatment facilities downstream from the first point of application of disinfectant at a treatment plant, new or altered finished water pumping facilities, new or altered finished water storage facilities, and new or altered water mains included in the substantially completed portion of this project have been disinfected and bacteriologically tested in accordance with Rules 62-555.315(3), 62-555.340, and 62-555.345, F.A.C., and applicable AWWA disinfection standards (AWWA Standards C651, C652, C653, and/or C654), which are incorporated by reference in Rule 62-555.330(4), F.A.C.

This certification is based upon on-site observation of construction conducted by me or by a project representative under my direct supervision and upon a review of shop drawings, test results/records, and record drawings performed by me or by a project representative under my direct supervision.

This certification does not necessarily constitute a certification of final completion of construction. Additional construction may be needed to satisfy all conditions of the construction contract documents.

The following is a description and explanation of all deviations from the construction permit and approved engineering plans and specifications for the substantially completed portion of this project. (Attach additional sheets if necessary.)

1. Adjustment in vertical elevation throughout the installation to allow for 36" cover for current and future conditions.
2. Minor adjustments in horizontal alignment to avoid existing utilities not accurately marked on the plans or in the field.

[Signature] 3/15/09
Signature and Date

Brandon D. Selle, P.E. No. 53216
Name and License Number (please type or print)

Certification of Construction Completion and Request for a Letter of Clearance to Place a Public Drinking Water Facility into Service

INSTRUCTIONS: This form shall be completed and submitted for projects permitted and constructed under specific public drinking water facility construction permits issued by the Department and for projects permitted and constructed under the "General Permit for Construction of an Extension to a Public Drinking Water Distribution System." **AFTER SUBSTANTIALLY COMPLETING THE CONSTRUCTION OF A PROJECT OR A PORTION OF A PROJECT AND BEFORE PLACING ANY NEWLY CONSTRUCTED OR ALTERED PUBLIC DRINKING WATER FACILITY INTO SERVICE FOR ANY PURPOSE OTHER THAN DISINFECTION, TESTING FOR LEAKS, AND/OR TESTING EQUIPMENT OPERATION,** complete this form and submit it to the appropriate district office of the Department or the appropriate Approved County Public Health Unit (ACPHU) along with applicable supporting documents. Applicable supporting documents include the following: (1) for projects and portions of projects where there is any deviation from the construction permit and approved engineering plans and specifications, a copy of record drawings; (2) for projects and portions of projects including new or altered public drinking water supply wells, new or altered treatment facilities downstream from the first point of application of disinfectant at a public drinking water treatment plant, new or altered treated/finished drinking water pumping facilities, new or altered treated/finished drinking water storage facilities, or new or altered treated/finished drinking water mains, a copy of satisfactory bacteriological test results that indicate the date and time each bacteriological sample was collected and that demonstrate compliance with Rules 62-555.315(3), 62-555.340, and 62-555.345, Florida Administrative Code (F.A.C.) and applicable American Water Works Association (AWWA) disinfection standards (AWWA Standards C651, C652, C653, and C654), which are incorporated by reference in Rule 62-555.330(4), F.A.C.*; (3) for projects and portions of projects including new or altered public drinking water treatment facilities that are needed to comply with, or affect compliance with, Part III of Chapter 62-550, Part VI of Chapter 62-555, or Rule 62-524.650(2), F.A.C., a copy of analytical test results that demonstrate compliance with these rules; and (4) for projects and portions of projects including new or altered wells, a copy of the log completion report for each new or altered well if such report is applicable and has not been previously submitted to the Department or the appropriate ACPHU. All information provided on this form shall be typed or printed in ink. When submitting a copy of bacteriological test results, also submit a sketch or description indicating where each bacteriological sample was collected. **NOTE THAT A SEPARATE CERTIFICATION OF CONSTRUCTION COMPLETION AND REQUEST FOR A LETTER OF CLEARANCE IS REQUIRED FOR EACH PERMITTED PROJECT. DO NOT PLACE ANY NEWLY CONSTRUCTED OR ALTERED PUBLIC DRINKING WATER FACILITY INTO SERVICE UNTIL THE DEPARTMENT OR THE APPROPRIATE ACPHU ISSUES A LETTER OF CLEARANCE FOR THE FACILITY.**

- * *For new and altered public drinking water supply wells, bacteriological sampling shall be conducted, and interpretation of bacteriological test results shall be made, in accordance with Rule 62-555.315(3), F.A.C. For all other new and altered public drinking water facilities, bacteriological sampling shall be conducted by first reducing the total chlorine residual in the water within the facilities to no more than 4 mg/L and then collecting daily bacteriological samples (taken at least 24 hours apart) for two or more consecutive work-days until satisfactory test results are obtained. Bacteriological test results for new and altered public drinking water facilities other than wells shall be considered satisfactory if two consecutive daily samples from each sample location show the absence of total coliform organisms. Bacteriological test results for all new and altered public drinking water facilities other than wells will be considered invalid if the results are for samples collected more than 30 days before the results are received by the Department or the ACPHU, and bacteriological test results for new and altered public drinking water mains will be considered invalid if the pressure in the mains is not maintained at 20 psi or greater after the samples are collected.*

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		N. FLEITES				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01401	Station 2+24 WUD 98-51R <i>RW1</i>	12:46 1/31/01	15:00 1/31/01	JMB	0.9	A	<1	<1	<1	
AF01402	Station 17+70 WUD 98-51R <i>RW2</i>	12:42 1/31/01	15:00 1/31/01	JMB	2.4	A	L	>5600	3300	

TYPE OF SUPPLY: COMMUNITY PUBLIC WATER SYSTEM NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: 1ST SET

REPORTED BY: [Signature] DATE: 2-12-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 2-12-2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		N.FLEITES				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF03369	Station # 68+00 WUD Project 98-51 RW-3	15:10 3/14/01	15:50 3/14/01	JMB	0.7	A	<1	34	33	
AF03370	Station # 55+00 WUD Project 98-51 RW-4	15:00 3/14/01	15:50 3/14/01	JMB	1.2	A	<1	27	38	
AF03371	Station # 41+20 WUD Project 98-51 RW-5	14:50 3/14/01	15:50 3/14/01	JMB	1.8	A	<1	62	50	
AF03372	Station # 27+00 WUD Project 98-51 RW-6	14:38 3/14/01	15:50 3/14/01	JMB	3.1	A	<1	47	58	
AF03373	Station # 13+00 WUD Project 98-51 RW-7	14:28 3/14/01	15:50 3/14/01	JMB	2.6	A	<1	72	80	

TYPE OF SUPPLY: COMMUNITY PUBLIC WATER SYSTEM NON-COMMUNITY NON-TRANSIENT RAW
 TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: 1st SET

REPORTED BY: [Signature] DATE: 3-23-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3-26-01 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) N.FLEITES				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF03025	Station #324+00 WUD Project - 98-51 RW-8	14:45 3/7/01	16:20 3/7/01	JMB	0.6	A	<1	39	42	
AF03026	Station #310+00 WUD Project - 98-51 RW-9	14:53 3/7/01	16:20 3/7/01	JMB	1.9	A	<1	7	8	
AF03027	Station #296+00 WUD Project - 98-51 RW-10	14:58 3/7/01	16:20 3/7/01	JMB	2.8	A	<1	25	32	
AF03028	Station #282+00 WUD Project - 98-51 RW-11	15:04 3/7/01	16:20 3/7/01	JMB	3.6	A	<1	74	62	
AF03029	Station #268+65 WUD Project - 98-51 RW-12	15:12 3/7/01	16:20 3/7/01	JMB	1.6	A	<1	68	82	

TYPE OF SUPPLY: COMMUNITY PUBLIC WATER SYSTEM NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: 1ST SET (RAW WATER MAIN)

REPORTED BY: [Signature] DATE: 3-23-01 CHEMIST LABTECH:

REVIEWED BY: [Signature] DATE: 3-26-2001 LAB MANAGER: QA OFFICER:

BACTERIOLOGICAL ANALYSIS REPORT

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY**

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33448
(561)638-5000

SYSTEM NAME		I.D. No.		SAMPLER(S)					
System 9		4501332		R. SADARANGANI					
				Analysis Methods	MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)
AF01459	Station # 2+24 WUD 98-51R <i>RW1</i>	14:27 2/1/01	15:30 2/1/01	JMB	1.0	A	<1	<1	<1
AF01480	Station # 17+70 WUD 98-51R <i>RW2</i>	14:22 2/1/01	15:30 2/1/01	JMB	3.9	A	<1	1	2

TYPE OF SUPPLY: COMMUNITY PUBLIC WATER SYSTEM NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

MARKS: 2ND SET

REPORTED BY: [Signature] DATE: 3-10-01 CHEMIST LABTECH:

REVIEWED BY: [Signature] DATE: 3-12-2001 LAB MANAGER: _____ QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E58090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		N.FLEITES				
				Analysis Methods	MF	MF	HPC	HPC		
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF03442	Station 68+00 WUD Project 98-51 <i>RW-3</i>	13:41 3/15/01	16:30 3/15/01	RLC	0.6	A	<1	24	37	
AF03443	Station 55+00 WUD Project 98-51 <i>RW-4</i>	13:49 3/15/01	16:30 3/15/01	RLC	0.9	A	<1	62	50	
AF03444	Station 41+20 WUD Project 98-51 <i>RW-5</i>	13:56 3/15/01	16:30 3/15/01	RLC	1.7	A	<1	47	45	
AF03445	Station 27+00 WUD Project 98-51 <i>RW-6</i>	14:04 3/15/01	16:30 3/15/01	RLC	3.1	A	<1	28	36	
1446	Station 13+00 WUD Project 98-51 <i>RW-7</i>	14:11 3/15/01	16:30 3/15/01	RLC	2.7	A	<1	38	33	

TYPE OF SUPPLY: COMMUNITY PUBLIC WATER SYSTEM NON-COMMUNITY NON-TRANSIENT RAW
 TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: 2ND SET

REPORTED BY: [Signature] DATE: 3-23-01 CHEMIST: _____ LABTECH:
 REVIEWED BY: [Signature] DATE: 3-26-2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
Delray Beach, FL 33446
(561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		N.FLEITES				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
F03070	Station #324+00 WUD Project - 98-51 RW-8	13:31 3/8/01	16:00 3/8/01	JMB	1.4	A	<1	62	70	
F03071	Station #310+00 WUD Project - 98-51 RW-9	13:41 3/8/01	16:00 3/8/01	JMB	2.3	A	<1	48	56	
F03072	Station #296+00 WUD Project - 98-51 RW-10	13:49 3/8/01	16:00 3/8/01	JMB	2.6	A	<1	82	74	
F03073	Station #282+00 WUD Project - 98-51 RW-11	13:56 3/8/01	16:00 3/8/01	JMB	2.4	A	<1	110	100	
F03074	Station #268+65 WUD Project - 98-51 RW-12	14:03 3/8/01	16:00 3/8/01	JMB	1.5	A	<1	82	90	

TYPE OF SUPPLY: COMMUNITY PUBLIC WATER SYSTEM NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

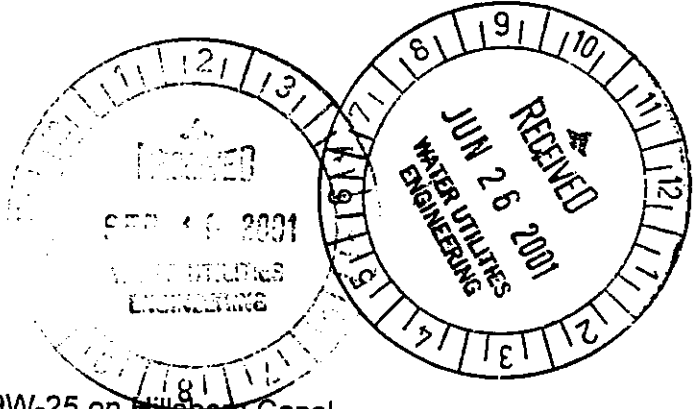
REMARKS: 2ND SET (RAW WATER MAIN)

REPORTED BY: [Signature] DATE: 3-23-01 CHEMIST LABTECH:

REVIEWED BY: [Signature] DATE: 3-26-2001 LAB MANAGER: QA OFFICER:

June 22, 2001

Steve Korbelak, Manager
Regulatory Compliance
Palm Beach County Water Utilities Dept.
2065 Prairie Road
West Palm Beach, FL 33406



Project: New water supply wells 9W-17 through 9W-25 on Hillsboro Canal

Water Permit No.:138308-037-WC

Sewer Permit No.: NA

Dear Mr. Korbelak:

The letter authorizes a partial release for use for wells 9W-21 through 9W-25 on the above project. Previous partial releases for wells 17, 19, and 20 were issued on April 13, 2001 and well number 18 was issued a partial release on May 23, 2001.

A final release for this project will require submittal of the final certification and record drawings.

We have also reviewed the results of the MPA testing submitted with your letter of June 19, 2001, which indicated a low risk for contamination from surface water from the adjacent Hillsboro Canal. Based on these results we can authorize use of the wells to supply water to the existing lime softening plant on a temporary basis. Additional MPA testing of the sampled wells during wet season conditions will be required for continued use of this source as a supply to the existing plant.

Should you have any questions please call me at 561-355-3070 ext. 1136.

Sincerely,

For the Division Director
Environmental Health & Engineering

T. D. LeFevre
Engineer-Supervisor
Plan Review & Permit Section

cc: engineer-of-record: Jorge A. Jaramillo, P.E

ATTACHMENT 7

CONSTRUCTION 60% COMPLETE

- b. Mechanical & Electrical Details 9W-23 to 9W-25
- c. Finished Water Main Release
- f. Service during construction – daily reports previously submitted by Tom Uram, P.G. (not attached)

Description of Wells
Water Treatment Plant No. 9 - Well 9W-23

General Information

Well No.	9W-23
Existing or Proposed	E
Active/Inactive	A
Year Drilled	2000
ORB /Easement #	
As-Built #	pending
Sheets:	C-20, M-2
WTP PWS ID #	4501332
WUD Project Numbers	98-66
Original Design Engineer	Montgomery Watson
ERM Wellfield Map S/T/R	36/47/41

Physical Characteristics

Surface Casing Diameter and Material (in)	30" Steel
Inner Casing Diameter and Material (in)	16" Sch 40 PVC
Total Depth (ft.)	137
Cased Depth (ft.)	137
Screen Slot Size	0.035 inch
Open Hole Interval From-To (ft.)	N/A
Screened Interval From-To (ft.)	82-137
Drilling Method	Rotary w/mud

Well Pump Information

Pump Manufacturer	Flowserve
Year Pump Installed	2001
Pump Type (Vert/Sub)	Sub
Number of Stages	4 (CI Bowls)
Pump Model Number	12EHM-4-MI10
Pump Serial Number	
Pump Impeller Size (in.)	9.33 (BZ)
Pump Capacity (gpm)	1,360
Total Dynamic Head (ft.)	242
Motor Manufacturer	Pleuger
Motor Model Number	MI103-600-4
Motor Serial Number	3339-33-1401
Motor Horsepower	100
Motor Speed (rpm)	1,750
Wellhead Pipe Size & Material	10" DIP
Column Pipe Diameter (in.)	10"
Column Pipe Total Length (ft.)	60'
No. Column Pipe Sections	3
Section Length (ft)	20'
Column Pipe Material	PVC Certalock

Instrumentation

Flow Meter Type	Magnetic
Flow Meter Manufacturer	Rosemount
Flow Meter Model Number	8705TSA100C1G1
Flow Meter Serial Number	
Flow Meter Range (gpm)	0-3000
Flow Meter Diameter (in.)	10
Year Meter Installed	2001

Description of Wells
Water Treatment Plant No. 9 - Well 9W-23

Elevations

Bottom of Vault Elevation (ft)	10.00' NGVD
Top of Vault Elevation (ft)	18.00' NGVD
Well Pad Elevation (ft.)	10.00' NGVD
Discharge Centerline Elevation (ft.)	16.8
Intake Elevation (ft.)	70
Casing Elevation	
Existing Grade Elevation (ft.)	16.38' NGVD

Location Description

Florida Plane Coordinates	N 727322.04660 E 912041.62010
Latitude	26 19'45"N
Longitude	80 13'00"W
Section/Township/Range	36/47/41
General Location	Along Hillsboro Canal. South of Coral PI before Hillsboro canal

Electrical Requirements

Main Supply Voltage	480 V
Primary Power Source	750 kVa FPL Transformer @ West Pump Control Panel
Backup Power	Generator Plug at West Pump Control Panel
Communications	900 MH

Permits

DEP Construction Permit	138308-037-WC
Issued Date	20-Dec-99
SFWMD Permit	SF120899G
Issued Date	1-Jun-00
Health Department Release	138308-037-WC
Issued Date	22-Jun-01
ERM Reference Model	99-23-E (23)

Rehabilitation Synopsis

Date	
Type	Acidization
Post-rehab SC (gpm/ft)	
Post-rehab SC (gpm/ft)	

Misc Comments

Sand Content
SDI

Description of Wells
Water Treatment Plant No. 9 - Well 9W-24

General Information

Well No.	9W-24
Existing or Proposed	E
Active/Inactive	A
Year Drilled	2000
ORB /Easement #	
As-Built #	pending
Sheets:	C-20, M-2
WTP PWS ID #	4501322
WUD Project Numbers	98-66
Original Design Engineer	Montgomery Watson
ERM Wellfield Map S/T/R	35/47/41

Physical Characteristics

Surface Casing Diameter and Material (in)	30" Steel
Inner Casing Diameter and Material (in)	16" Sch 40 PVC
Total Depth (ft.)	132
Cased Depth (ft.)	132
Screen Slot Size	0.035 inch
Open Hole Interval From-To (ft.)	N/A
Screened Interval From-To (ft.)	77-132
Drilling Method	Rotary w/mud

Well Pump Information

Pump Manufacturer	Flowserve
Year Pump Installed	2001
Pump Type (Vert/Sub)	Sub
Number of Stages	4 (CI Bowls)
Pump Model Number	12EHM-4-MI10
Pump Serial Number	
Pump Impeller Size (in.)	9.33 (BZ)
Pump Capacity (gpm)	1,360
Total Dynamic Head (ft.)	240
Motor Manufacturer	Pleuger
Motor Model Number	MI103-600-4
Motor Serial Number	3339-33-1405
Motor Horsepower	100
Motor Speed (rpm)	1,750
Wellhead Pipe Size & Material	10" DIP
Column Pipe Diameter (in.)	10"
Column Pipe Total Length (ft.)	60'
No. Column Pipe Sections	3
Section Length (ft)	20'
Column Pipe Material	PVC Certalock

Instrumentation

Flow Meter Type	Magnetic
Flow Meter Manufacturer	Rosemount
Flow Meter Model Number	8705TSA100C1G1
Flow Meter Serial Number	
Flow Meter Range (gpm)	0-3000
Flow Meter Diameter (in.)	10
Year Meter Installed	2001

Description of Wells
Water Treatment Plant No. 9 - Well 9W-24

Elevations

Bottom of Vault Elevation (ft)	10.00' NGVD
Top of Vault Elevation (ft)	18.00' NGVD
Well Pad Elevation (ft.)	10.00' NGVD
Discharge Centerline Elevation (ft.)	15
Intake Elevation (ft.)	70
Casing Elevation	
Existing Grade Elevation (ft.)	16.15' NGVD

Location Description

Florida Plane Coordinates	N 727541.94010 E 911358.23200
Latitude	26 19'50"N
Longitude	80 13'10"W
Section/Township/Range	35/47/41
General Location	Along Hillsboro Canal.

Electrical Requirements

Main Supply Voltage	480 V
Primary Power Source	750 kVa FPL Transformer @ West Pump Control Panel
Backup Power	Generator Plug at West Pump Control Panel
Communications	900 MH

Permits

DEP Construction Permit	138308-037-WC
Issued Date	20-Dec-99
SFWMD Permit	SF120899H
Issued Date	1-Jun-00
Health Department Release	138308-037-WC
Issued Date	22-Jun-01
ERM Reference Model	99-24-E (24)

Rehabilitation Synopsis

Date	2001
Type	Acidization
Post-rehab SC (gpm/ft)	
Post-rehab SC (gpm/ft)	

Misc Comments

Sand Content
SDI

Description of Wells
Water Treatment Plant No. 9 - Well 9W-25

General Information

Well No.	9W-25
Existing or Proposed	E
Active/Inactive	A
Year Drilled	2000
ORB /Easement #	
As-Built #	pending
Sheets:	C-21, M-2
WTP PWS ID #	4501332
WUD Project Numbers	98-66
Original Design Engineer	Montgomery Watson
ERM Wellfield Map S/T/R	35/47/41

Physical Characteristics

Surface Casing Diameter and Material (in)	30" Steel
Inner Casing Diameter and Material (in)	16" Sch 40 PVC
Total Depth (ft.)	132
Cased Depth (ft.)	132
Screen Slot Size	0.035 inch
Open Hole Interval From-To (ft.)	N/A
Screened Interval From-To (ft.)	77-132
Drilling Method	Rotary w/mud

Well Pump Information

Pump Manufacturer	Flowserve
Year Pump Installed	2001
Pump Type (Vert/Sub)	Sub
Number of Stages	4 (CI Bowls)
Pump Model Number	12EHM-4-M110
Pump Serial Number	
Pump Impeller Size (in.)	9.33 (BZ)
Pump Capacity (gpm)	1,360
Total Dynamic Head (ft.)	241
Motor Manufacturer	Pleuger
Motor Model Number	M1103-600-4
Motor Serial Number	3339-33-1402
Motor Horsepower	100
Motor Speed (rpm)	1,750
Wellhead Pipe Size & Material	10" DIP
Column Pipe Diameter (in.)	10"
Column Pipe Total Length (ft.)	60'
No. Column Pipe Sections	3
Section Length (ft)	20'
Column Pipe Material	PVC Certalock

Instrumentation

Flow Meter Type	Magnetic
Flow Meter Manufacturer	Rosemount
Flow Meter Model Number	8705TSA100C1G1
Flow Meter Serial Number	
Flow Meter Range (gpm)	0-3000
Flow Meter Diameter (in.)	10
Year Meter Installed	2001

Description of Wells
Water Treatment Plant No. 9 - Well 9W-25

Elevations

Bottom of Vault Elevation (ft)	10.00' NGVD
Top of Vault Elevation (ft)	18.00' NGVD
Well Pad Elevation (ft.)	10.00' NGVD
Discharge Centerline Elevation (ft.)	14
Intake Elevation (ft.)	70
Casing Elevation	
Existing Grade Elevation (ft.)	15.62' NGVD

Location Description

Florida Plane Coordinates	N 727639.87000 E 911072.03000
Latitude	26 20'00"N
Longitude	80 13'20"W
Section/Township/Range	35/47/41
General Location	Along Hillsboro Canal.

Electrical Requirements

Main Supply Voltage	480 V
Primary Power Source	750 kVa FPL Transformer @ West Pump Control Panel
Backup Power	Generator Plug at West Pump Control Panel
Communications	900 MH

Permits

DEP Construction Permit	138308-037-WC
Issued Date	20-Dec-99
SF 1208991 Permit	SF1208991
Issued Date	1-Jun-00
Health Department Release	138308-037-WC
Issued Date	22-Jun-01
ERM Reference Model	99-25-E (25)

Rehabilitation Synopsis

Date	2001
Type	Acidized
Post-rehab SC (gpm/ft)	
Post-rehab SC (gpm/ft)	

Misc Comments

Sand Content
SDI

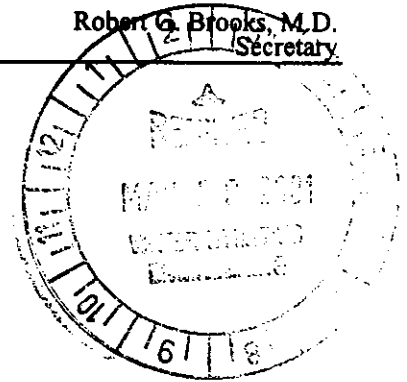


Jeb Bush
Governor

Robert G. Brooks, M.D.
Secretary

May 25, 2001

Steve Korbela, Manager
Regulatory Compliance
Palm Beach County Water Utilities Dept.
2065 Prairie Road
West Palm Beach, FL 33406



Project: WTP #9 - 42" Potable Water Transmission Main

Water Permit No.:138308-042-DS

Sewer Permit No.: NA

Dear Mr. Korbela:

The referenced project is hereby released for service to the extent indicated below. This release is based on the certification by the engineer-of-record that the water and/or sewer system has been constructed in substantial accordance with the plans previously approved by this agency.

The system is released for the section from Glades Road to the plant terminus. Since we processed partial releases for the sections from Clint More Road to Yamato Road on August 23, 2000, and from Yamato Road to Glades Road on December 29, 2000, we consider this a full release for the project.

Should you have any questions please call me at 561-355-3070 ext. 1136.

Sincerely,

For the Division Director
Environmental Health & Engineering

A handwritten signature in cursive script, appearing to read "T. D. LeFevre".

T. D. LeFevre
Engineer-Supervisor
Plan Review & Permit Section

cc: engineer-of-record: Brandon D. Selle, P.E
fax: Frank J. Ferrano, P.E.

ATTACHMENT 8

CONSTRUCTION 100% COMPLETE

- b.1 Mechanical and Electrical Details 9W-21 to 9W-22
- b.2 Well Completion Reports 9W-21 to 9W-22
- b.3 Raw Water Main Release
- b.4 Partial Health Department Release 9W-17 to 9W-25

Description of Wells
Water Treatment Plant No. 9 - Well 9W-21

General Information

Well No.	9W-21
Existing or Proposed	E
Active/Inactive	A
Year Drilled	2000
ORB /Easement #	
As-Built #	pending
Sheets:	C-19, M-2
WTP PWS ID #	4501332
WUD Project Numbers	98-66
Original Design Engineer	Montgomery Watson
ERM Wellfield Map S/T/R	36/47/41

Physical Characteristics

Surface Casing Diameter and Material (in)	30" Steel
Inner Casing Diameter and Material (in)	16" Sch 40 PVC
Total Depth (ft.)	145
Cased Depth (ft.)	145
Screen Slot Size	0.030 inch
Open Hole Interval From-To (ft.)	N/A
Screened Interval From-To (ft.)	85-140
Drilling Method	Rotary w/mud

Well Pump Information

Pump Manufacturer	Flowserve
Year Pump Installed	2001
Pump Type (Vert/Sub)	Sub
Number of Stages	4 (CI Bowls)
Pump Model Number	12EHM-4-MI10
Pump Serial Number	
Pump Impeller Size (in.)	9.33 (BZ)
Pump Capacity (gpm)	1,360
Total Dynamic Head (ft.)	237
Motor Manufacturer	Pleuger
Motor Model Number	MI103-600-4
Motor Serial Number	3339-33-1410
Motor Horsepower	100
Motor Speed (rpm)	1,750
Wellhead Pipe Size & Material	10" DIP
Column Pipe Diameter (in.)	10"
Column Pipe Total Length (ft.)	60'
No. Column Pipe Sections	3
Section Length (ft)	20'
Column Pipe Material	PVC Certalock

Instrumentation

Flow Meter Type	Magnetic
Flow Meter Manufacturer	Rosemount
Flow Meter Model Number	8705TSA100C1G1
Flow Meter Serial Number	
Flow Meter Range (gpm)	0-3000
Flow Meter Diameter (in.)	10
Year Meter Installed	2001

Description of Wells
Water Treatment Plant No. 9 - Well 9W-21

Elevations

Bottom of Vault Elevation (ft)	11.79' NGVD
Top of Vault Elevation (ft)	19.79' NGVD
Well Pad Elevation (ft)	11.79' NGVD
Discharge Centerline Elevation (ft.)	16.5
Intake Elevation (ft.)	70
Casing Elevation	
Existing Grade Elevation (ft.)	18.29' NGVD

Location Description

Florida Plane Coordinates	N 726739.93500 E 913763.54880
Latitude	26 19'35"N
Longitude	80 12'50"W
Section/Township/Range	36/47/41
General Location	Along Hillsboro Canal. Corner of Shore Dr and Surf Rd

Electrical Requirements

Main Supply Voltage	480 V
Primary Power Source	750 kVa FPL Transformer @ West Pump Control Panel
Backup Power	Generator Plug at West Pump Control Panel
Communications	900 MH

Permits

DEP Construction Permit	138308-037-WC
Issued Date	20-Dec-99
SFWMD Permit	SF120899E
Issued Date	1-Jun-00
Health Department Release	138308-037-WC
Issued Date	22-Jun-01
ERM Reference Model	99-21-E (21)

Rehabilitation Synopsis

Date	N/A
Type	
Post-rehab SC (gpm/ft)	
Post-rehab SC (gpm/ft)	

Misc Comments

Sand Content
SDI

Description of Wells
Water Treatment Plant No. 9 - Well 9W-22

Physical Characteristics

Well No.	9W-22
Existing or Proposed	E
Active/Inactive	A
Year Drilled	2000
ORB /Easement #	
As-Built #	pending
Sheets:	C-19, M-2
WTP PWS ID #	4501332
WUD Project Numbers	98-66
Original Design Engineer	Montgomery Watson
ERM Wellfield Map S/T/R	36/47/41

Physical Characteristics

Surface Casing Diameter and Material (in)	30" Steel
Inner Casing Diameter and Material (in)	16" Sch 40 PVC
Total Depth (ft.)	145
Cased Depth (ft.)	145
Screen Slot Size	0.030 inch
Open Hole Interval From-To (ft.)	N/A
Screened Interval From-To (ft.)	85-140
Drilling Method	Rotary w/mud

Well Pump Information

Pump Manufacturer	Flowserve
Year Pump Installed	2001
Pump Type (Vert/Sub)	Sub
Number of Stages	4 (CI Bowls)
Pump Model Number	12EHM-4-MI10
Pump Serial Number	
Pump Impeller Size (in.)	9.33 (BZ)
Pump Capacity (gpm)	1,360
Total Dynamic Head (ft.)	240
Motor Manufacturer	Pleuger
Motor Model Number	MI103-600-4
Motor Serial Number	3339-33-1406
Motor Horsepower	100
Motor Speed (rpm)	1,750
Wellhead Pipe Size & Material	10" DIP
Column Pipe Diameter (in.)	10"
Column Pipe Total Length (ft.)	60'
No. Column Pipe Sections	3
Section Length (ft)	20'
Column Pipe Material	PVC Certalock

Instrumentation

Flow Meter Type	Magnetic
Flow Meter Manufacturer	Rosemount
Flow Meter Model Number	8705TSA100C1G1
Flow Meter Serial Number	
Flow Meter Range (gpm)	0-3000
Flow Meter Diameter (in.)	10
Year Meter Installed	2001

Description of Wells
Water Treatment Plant No. 9 - Well 9W-22

Elevations

Bottom of Vault Elevation (ft)	11.46' NGVD
Top of Vault Elevation (ft)	19.46' NGVD
Well Pad Elevation (ft.)	11.46' NGVD
Discharge Centerline Elevation (ft.)	17.5
Intake Elevation (ft.)	70
Casing Elevation	
Existing Grade Elevation (ft.)	17.96 ' NGVD

Location Description

Florida Plane Coordinates	N 726917.32230 E 913291.81990
Latitude	26 19'40"N
Longitude	80 13'00"W
Section/Township/Range	36/47/41
General Location	Along Hillsboro Canal. Corner of Shore Dr and Rainbow Rd

Electrical Requirements

Main Supply Voltage	480 V
Primary Power Source	750 kVa FPL Transformer @ West Pump Control Panel
Backup Power	Generator Plug at West Pump Control Panel
Communications	900 MH

Permits

DEP Construction Permit	138308-037-WC
Issued Date	20-Dec-99
FWMD Permit	SF120899F
Issued Date	1-Jun-00
Health Department Release	138308-037-WC
Issued Date	22-Jun-01
ERM Reference Model	99-22-E (22)

Rehabilitation Synopsis

Date	
Type	
Post-rehab SC (gpm/ft)	
Post-rehab SC (gpm/ft)	

Misc Comments

Sand Content	
SDI	

WELL COMPLETION REPORT

FORM 0124
Rev. 11/90

WELL PERMIT NO. SF120899F
SFWMD WATER USE PERMIT NO. _____

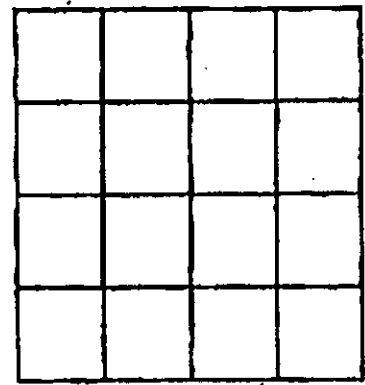
PBCWOOD 2065 PRAIRIE Rd WPB FL 33416
 Owner Address City State Zip
[Signature] 9078 6/00 140 140 22
 Contractor/Signature License No. Completion Date Casing Depth Total Depth Well #

TYPE OF WORK: Construct Repair () Abandon ()
 WELL USE: Domestic Well () Public Monitor () Test ()
 Irrigation () Fire Well () Other _____

METHOD: Rotary with MUD or Air (), Cable Tool (), Jet ()
 Casing Driven (), Other _____

STATIC WATER LEVEL 9.9 Ft. below top of casing
 PUMPING WATER LEVEL 41 Ft. after 1 Hrs. at 8000 GPM
 PUMP SIZE 100 H.P. CAPACITY 1300 GPM
 PUMP TYPE SUB INTAKE DEPTH 75
From top of ground

LOCATION
 Located Near NW CORNER OF
HOW CANAL / SR 7
 County PALM BEACH
36 47 41
 W W Section Township Range
 Latitude-Longitude



Cuttings sent to District? () Yes
 No
 Note: PWS Wells attach a site map if well location is different from site location on permit application.

Grout	Casing & Screen	Depth (ft)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Give color, grain size, and type of material. Note cavities, depth to producing zones.	
		From	To		
	3"-20'	30'	20'	0 20	STL GROUTED
	3"-85'	24'	85'	0 85	PVC CEMENTED SYDS
		16'	85'		
		16'	140'	85 140	SS SCREEN
		16'	85'	0 85	PVC RUBER
				0 5	SAND
				5 31	LIMESTONE / BRKN
				31 50	SAND / SHEL
				50 145	SANDSTONE / LIMESTONE
Number of bags					

Casing: Black Steel () Galv. () PVC Fiberglass ()
 Screen: Type SS Slot size 3.5
 Screened from 85 (ft.) to 140 (ft.)
 Type of grout with % additives _____
 Water: Clear Colored () Sulphur () Salty () Iron ()
 Conductivity _____ Chlorides _____ mg/l

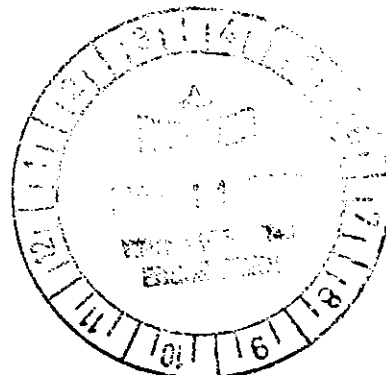


Jeb Bush
Governor

Robert G. Brooks, M.D.
Secretary

May 8, 2001

Steve Korbela, Manager
Regulatory Compliance
Palm Beach County Water Utilities Dept.
2065 Prairie Road
West Palm Beach, FL 33406



Project: WTP #9 Raw Water Transmission Main

Water Permit No.: 138308-045-DS

Sewer Permit No.: NA

Dear Mr. Korbela:

The referenced project is hereby released for service to the extent indicated below. This release is based on the certification by the engineer-of-record that the water and/or sewer system has been constructed in substantial accordance with the plans previously approved by this agency.

The system is released to the full extent of the approved plans.

The system is partially released and limited to

The system is released for construction water only:

a. Full extent

b. Partially and limited to

Should you have any questions please call the undersigned at 561-355-3070 ext. 1136.

Sincerely,

For the Division Director
Environmental Health & Engineering

T. D. LeFevre
Engineer-Supervisor
Plan Review & Permit Section

cc: engineer-of-record: Brandon D. Selle, P.E.



Palm Beach County Water Utilities Department
 2065 Prairie Road
 P.O. Box 16097
 West Palm Beach, Florida 33416

LETTER OF TRANSMITTAL

Date	4/4/01	Job No.	98-51R
Attention	Plan Review		
Re	Water Treatment Plant 9 Transmission		
	Mains		
	Permit No. 138308-045-DS		

TO Palm Beach County Health Dept.
Environmental Health / Engineering
901 Evernia Street
West Palm Beach, FL 33401

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- Shop Drawings Prints Plans Samples Specifications
 Copy of Letter Change Order Permit

Copies	Date	No.	Description
1			Request for letter of Clearance
1			Record Drawings
1			Bacteriological Reports

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit ___ copies for approval
 For your use Approved as noted Submit 4 copies for distribution
 As requested Approved as submitted Return ___ corrected prints
 For review and comment Approved as submitted
 For bids due __. Prints returned after loan to us

REMARKS

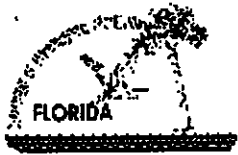
The attached reports for the Sample Points No. RW-1 and RW-2 are expired. These samples had to be taken before the completion of the job so that restoration of this phase of the project could be started. This section of the raw water main has been protected from infiltration and contamination by maintaining a minimum pressure greater than 20 psi in the main since the date of sampling. We are requesting acceptances of these two samples under this condition.

Please contact me at (561) 641-3469 should you have any questions or comments.

COPY TO File

SIGNED

Brandon D. Selle, P.E.



Department of Environmental Protection

Certification of Construction Completion and Request for a Letter of Clearance to Place a Public Drinking Water Facility into Service

INSTRUCTIONS: See Page 3.

I. PROJECT NAME AND CONSTRUCTION PERMIT NUMBER, PERMITTEE, ETC.

- Project Name: Water Treatment Plant No. 9 Potable Water Transmission Main
 - Project Construction Permit No.: 138308-045-DS Issued: 12/7/99
 - Portion of Project for Which Construction Is Substantially Complete and for Which a Letter of Clearance Is Requested: Raw Water Transmission Main from the Hillsboro Canal (STA 268+56) to WTP 9 (STA 2+24)
-
- Permittee
Utility/Company Name: Palm Beach County Water Utilities Department Telephone No.: (561) 641-3429
Address: 2065 Prairie Road
City: West Palm Beach State: FL Zip Code: 33416
 - Owner/Operator of Project After It Is Placed into Service
Utility/Company Name: Palm Beach County Water Utilities Department Telephone No.: (561) 641-3429
Address: 2065 Prairie Road
City: West Palm Beach State: FL Zip Code: 33416
 - Professional Engineer in Responsible Charge of Inspecting Construction of Project
Name of Engineer: Brandon D. Selle, P.E.
Firm Name: Palm Beach County Water Utilities Department Telephone No.: (561) 641-3429
Address: 2065 Prairie Road
City: West Palm Beach State: FL Zip Code: 33416

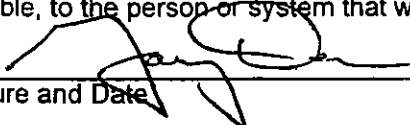
II. STATEMENT BY PERMITTEE

I, the undersigned owner or authorized representative* of Palm Beach County Water Utilities Department, certify the following:

- that the contractor has furnished us with record drawings for the substantially completed portion of this project and that these record drawings are available for review at the following location: The Construction Office located at Water Treatment Plant No. 9, and at 2030 Prairie Road, West Palm Beach.
- that, if this project involves the construction of any new or altered treatment facilities, an operation and maintenance manual for the new and altered treatment facilities included in the substantially completed portion of this project is available for review at the site of the new and altered treatment facilities.

Also, I certify that, if we will not be the owner/operator of this project after it is placed into service, we have provided a copy of the above mentioned record drawings and a copy of the above mentioned operation and maintenance manual, if applicable, to the person or system that will be the owner/operator of this project after it is placed into service.

Signature and Date

 3/15/99

Gary Dernlan, P.E., Director

Name and Title (please type or print)

* Attach a letter of authorization.

Certification of Construction Completion and Request for a Letter of Clearance to Place a Public Drinking Water Facility into Service

Project Name: Water Treatment Plant No. 9 Potable Water Transmission Main

Project Construction Permit No.: 138308-042-D5

Substantially Completed Portion of Project: RWM from the Hillsboro Canal (STA 268+56) to WTP 9 (STA 2+24)

III. STATEMENT BY OWNER/OPERATOR OF PROJECT AFTER IT IS PLACED INTO SERVICE

I, the undersigned owner or authorized representative* of Palm Beach County Water Utilities Department, certify that we will be the owner/operator of this project after it is placed into service. Also, I certify the following:

- that we have received a copy of the record drawings for the substantially completed portion of this project and that these record drawings are available for review at the following location: The Construction Office located at Water Treatment Plant No. 9, and at 2030 Prairie Road, West Palm Beach.
- that, if this project involves the construction of any new or altered treatment facilities, we have received a copy of the operation and maintenance manual for the new and altered treatment facilities included in the substantially completed portion of this project and that this operation and maintenance manual is available for review at the site of the new and altered treatment facilities.


Signature and Date 3/15/99

Gary Dernlan, P.E., Director
Name and Title (please type or print)

* Attach a letter of authorization.

IV. CERTIFICATION OF CONSTRUCTION COMPLETION BY PROFESSIONAL ENGINEER IN RESPONSIBLE CHARGE OF INSPECTING CONSTRUCTION OF PROJECT

I, the undersigned professional engineer registered in Florida, certify that I am in responsible charge of inspecting construction of this project for the purpose of determining in general if work is proceeding in compliance with the construction permit and approved plans and specifications. Also, I certify the following:


- that the substantially completed portion of this project has been constructed in accordance with the construction permit and approved engineering plans and specifications or that, to the best of my knowledge and belief, any deviations from the construction permit and approved engineering plans and specifications will not prevent this project from functioning in compliance with Chapters 62-550, 62-555, and 62-560, F.A.C.;
- that the record drawings for the substantially completed portion of this project are adequate and indicate all deviations from the construction permit and approved engineering plans and specifications; and
- that, to the best of my knowledge and belief, all new or altered well facilities, new or altered treatment facilities downstream from the first point of application of disinfectant at a treatment plant, new or altered finished water pumping facilities, new or altered finished water storage facilities, and new or altered water mains included in the substantially completed portion of this project have been disinfected and bacteriologically tested in accordance with Rules 62-555.315(3), 62-555.340, and 62-555.345, F.A.C., and applicable AWWA disinfection standards (AWWA Standards C651, C652, C653, and/or C654), which are incorporated by reference in Rule 62-555.330(4), F.A.C.

This certification is based upon on-site observation of construction conducted by me or by a project representative under my direct supervision and upon a review of shop drawings, test results/records, and record drawings performed by me or by a project representative under my direct supervision.

This certification does not necessarily constitute a certification of final completion of construction. Additional construction may be needed to satisfy all conditions of the construction contract documents.

The following is a description and explanation of all deviations from the construction permit and approved engineering plans and specifications for the substantially completed portion of this project. (Attach additional sheets if necessary.)

1. Adjustment in vertical elevation throughout the installation to allow for 36" cover for current and future conditions.
2. Minor adjustments in horizontal alignment to avoid existing utilities not accurately marked on the plans or in the field.


Signature and Date 3/15/01

Brandon D. Selle, P.E. No. 53216
Name and License Number (please type or print)

Certification of Construction Completion and Request for a Letter of Clearance to Place a Public Drinking Water Facility into Service

INSTRUCTIONS: This form shall be completed and submitted for projects permitted and constructed under specific public drinking water facility construction permits issued by the Department and for projects permitted and constructed under the "General Permit for Construction of an Extension to a Public Drinking Water Distribution System." **AFTER SUBSTANTIALLY COMPLETING THE CONSTRUCTION OF A PROJECT OR A PORTION OF A PROJECT AND BEFORE PLACING ANY NEWLY CONSTRUCTED OR ALTERED PUBLIC DRINKING WATER FACILITY INTO SERVICE FOR ANY PURPOSE OTHER THAN DISINFECTION, TESTING FOR LEAKS, AND/OR TESTING EQUIPMENT OPERATION,** complete this form and submit it to the appropriate district office of the Department or the appropriate Approved County Public Health Unit (ACPHU) along with applicable supporting documents. Applicable supporting documents include the following: (1) for projects and portions of projects where there is any deviation from the construction permit and approved engineering plans and specifications, a copy of record drawings; (2) for projects and portions of projects including new or altered public drinking water supply wells, new or altered treatment facilities downstream from the first point of application of disinfectant at a public drinking water treatment plant, new or altered treated/finished drinking water pumping facilities, new or altered treated/finished drinking water storage facilities, or new or altered treated/finished drinking water mains, a copy of satisfactory bacteriological test results that indicate the date and time each bacteriological sample was collected and that demonstrate compliance with Rules 62-555.315(3), 62-555.340, and 62-555.345, Florida Administrative Code (F.A.C.) and applicable American Water Works Association (AWWA) disinfection standards (AWWA Standards C651, C652, C653, and C654), which are incorporated by reference in Rule 62-555.330(4), F.A.C.*; (3) for projects and portions of projects including new or altered public drinking water treatment facilities that are needed to comply with, or affect compliance with, Part III of Chapter 62-550, Part VI of Chapter 62-555, or Rule 62-524.650(2), F.A.C., a copy of analytical test results that demonstrate compliance with these rules; and (4) for projects and portions of projects including new or altered wells, a copy of the log completion report for each new or altered well if such report is applicable and has not been previously submitted to the Department or the appropriate ACPHU. All information provided on this form shall be typed or printed in ink. When submitting a copy of bacteriological test results, also submit a sketch or description indicating where each bacteriological sample was collected. **NOTE THAT A SEPARATE CERTIFICATION OF CONSTRUCTION COMPLETION AND REQUEST FOR A LETTER OF CLEARANCE IS REQUIRED FOR EACH PERMITTED PROJECT. DO NOT PLACE ANY NEWLY CONSTRUCTED OR ALTERED PUBLIC DRINKING WATER FACILITY INTO SERVICE UNTIL THE DEPARTMENT OR THE APPROPRIATE ACPHU ISSUES A LETTER OF CLEARANCE FOR THE FACILITY.**

* *For new and altered public drinking water supply wells, bacteriological sampling shall be conducted, and interpretation of bacteriological test results shall be made, in accordance with Rule 62-555.315(3), F.A.C. For all other new and altered public drinking water facilities, bacteriological sampling shall be conducted by first reducing the total chlorine residual in the water within the facilities to no more than 4 mg/L and then collecting daily bacteriological samples (taken at least 24 hours apart) for two or more consecutive work-days until satisfactory test results are obtained. Bacteriological test results for new and altered public drinking water facilities other than wells shall be considered satisfactory if two consecutive daily samples from each sample location show the absence of total coliform organisms. Bacteriological test results for all new and altered public drinking water facilities other than wells will be considered invalid if the results are for samples collected more than 30 days before the results are received by the Department or the ACPHU, and bacteriological test results for new and altered public drinking water mains will be considered invalid if the pressure in the mains is not maintained at 20 psi or greater after the samples are collected.*

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		N. FLEITES				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01401	Station 2+24 WUD 98-51R <i>RW1</i>	12:46 1/31/01	15:00 1/31/01	JMB	0.8	A	<1	<1	<1	
AF01402	Station 17+70 WUD 98-51R <i>RW2</i>	12:42 1/31/01	15:00 1/31/01	JMB	2.4	A	L	>5600	3300	

TYPE OF SUPPLY: COMMUNITY PUBLIC WATER SYSTEM NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: 1st SET

REPORTED BY: [Signature] DATE: 2-12-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 2-12-2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME System 9				I.D. No. 4501332		SAMPLER(S) N.FLEITES				
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analysis Methods		MF	MF	HPC	HPC	
				Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF03369	Station # 68+00 WUD Project 98-51 RW-3	15:10 3/14/01	15:50 3/14/01	JMB	0.7	A	<1	34	33	
AF03370	Station # 55+00 WUD Project 98-51 RW-4	15:00 3/14/01	15:50 3/14/01	JMB	1.2	A	<1	27	38	
AF03371	Station # 41+20 WUD Project 98-51 RW-5	14:50 3/14/01	15:50 3/14/01	JMB	1.8	A	<1	62	50	
AF03372	Station # 27+00 WUD Project 98-51 RW-6	14:38 3/14/01	15:50 3/14/01	JMB	3.1	A	<1	47	58	
03373	Station # 13+00 WUD Project 98-51 RW-7	14:28 3/14/01	15:50 3/14/01	JMB	2.6	A	<1	72	80	

TYPE OF SUPPLY: COMMUNITY PUBLIC WATER SYSTEM NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: 1st SET

REPORTED BY: [Signature] DATE: 3-23-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3-26-01 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME		I.D. No.		SAMPLER(S)					
System 9		4501332		N.FLEITES					
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analysis Methods		MF	MF	HPC	HPC
				Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)
AF03025	Station #324+00 WUD Project - 98-51 RW-8	14:45 3/7/01	16:20 3/7/01	JMB	0.6	A	<1	39	42
AF03026	Station #310+00 WUD Project - 98-51 RW-9	14:53 3/7/01	16:20 3/7/01	JMB	1.9	A	<1	7	8
AF03027	Station #296+00 WUD Project - 98-51 RW-10	14:58 3/7/01	16:20 3/7/01	JMB	2.8	A	<1	25	32
AF03028	Station #282+00 WUD Project - 98-51 RW-11	15:04 3/7/01	16:20 3/7/01	JMB	3.6	A	<1	74	62
AF03029	Station #268+65 WUD Project - 98-51 RW-12	15:12 3/7/01	16:20 3/7/01	JMB	1.6	A	<1	68	82

TYPE OF SUPPLY: COMMUNITY PUBLIC WATER SYSTEM NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: 1ST SET (RAW WATER MAIN)

REPORTED BY: [Signature] DATE: 3-23-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3-26-2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33448
 (561)838-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		R. SADARANGANI				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF01459	Station # 2+24 WUD 98-51R <i>RW1</i>	14:27 2/1/01	15:30 2/1/01	JMB	1.0	A	<1	<1	<1	
AF01460	Station # 17+70 WUD 98-51R <i>RW2</i>	14:22 2/1/01	15:30 2/1/01	JMB	3.9	A	<1	1	2	

TYPE OF SUPPLY: COMMUNITY PUBLIC WATER SYSTEM NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: 2ND SET

REPORTED BY: [Signature] DATE: 3-10-01 CHEMIST LABTECH:

REVIEWED BY: [Signature] DATE: 3-12-2001 LAB MANAGER: QA OFFICER:

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		N.FLEITES				
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	Analysis Methods	MF	MF	HPC	HPC
						TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
AF03442	Station 68+00 WUD Project 98-51 <i>RW-3</i>	13:41 3/15/01	16:30 3/15/01	RLC	0.6	A	<1		24	37
AF03443	Station 55+00 WUD Project 98-51 <i>RW-4</i>	13:49 3/15/01	16:30 3/15/01	RLC	0.9	A	<1		62	50
AF03444	Station 41+20 WUD Project 98-51 <i>RW-5</i>	13:56 3/15/01	16:30 3/15/01	RLC	1.7	A	<1		47	45
AF03445	Station 27+00 WUD Project 98-51 <i>RW-6</i>	14:04 3/15/01	16:30 3/15/01	RLC	3.1	A	<1		28	36
3446	Station 13+00 WUD Project 98-51 <i>RW-7</i>	14:11 3/15/01	16:30 3/15/01	RLC	2.7	A	<1		38	33

TYPE OF SUPPLY: COMMUNITY PUBLIC WATER SYSTEM NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: 2ND SET

REPORTED BY: [Signature] DATE: 3-23-01 CHEMIST: _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3-26-2001 LAB MANAGER: QA OFFICER: _____

BACTERIOLOGICAL ANALYSIS REPORT
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER WASTEWATER TESTING LABORATORY

DOH CERTIFICATION No E56090

13026 Jog Rd. Bldg. K
 Delray Beach, FL 33446
 (561)638-5000

SYSTEM NAME				I.D. No.		SAMPLER(S)				
System 9				4501332		N.FLEITES				
				Analysis Methods		MF	MF	HPC	HPC	
LOG No.	SAMPLE POINT	TIME/DATE COLLECTED	TIME/DATE ANALYZED	Analyst	CL 2 RESIDUAL mg/L	TOTAL COLIFORM (P/A) per 100 ml	NON-COLIFORM per 100 ml	per 1 ml @ 28 C (R2A)	per 1 ml @ 35 C (R2A)	
F03070	Station #324+00 WUD Project - 98-51 RW-8	13:31 3/8/01	16:00 3/8/01	JMB	1.4	A	<1	62	70	
F03071	Station #310+00 WUD Project - 98-51 RW-9	13:41 3/8/01	16:00 3/8/01	JMB	2.3	A	<1	48	56	
F03072	Station #296+00 WUD Project - 98-51 RW-10	13:49 3/8/01	16:00 3/8/01	JMB	2.6	A	<1	82	74	
F03073	Station #282+00 WUD Project - 98-51 RW-11	13:56 3/8/01	16:00 3/8/01	JMB	2.4	A	<1	110	100	
F03074	Station #268+65 WUD Project - 98-51 RW-12	14:03 3/8/01	16:00 3/8/01	JMB	1.5	A	<1	82	90	

TYPE OF SUPPLY: COMMUNITY PUBLIC WATER SYSTEM NON-COMMUNITY NON-TRANSIENT RAW

TYPE OF SAMPLE: COMPLIANCE REPEAT REPLACEMENT MAIN CLEARANCE WELL OTHER

REMARKS: 2ND SET (RAW WATER MAIN)

REPORTED BY: [Signature] DATE: 3-23-01 CHEMIST _____ LABTECH:

REVIEWED BY: [Signature] DATE: 3-26-01 LAB MANAGER: QA OFFICER: _____



Jeb Bush
Governor

Robert G. Brooks, M.D.
Secretary

June 22, 2001



Steve Korbela, Manager
Regulatory Compliance
Palm Beach County Water Utilities Dept.
2065 Prairie Road
West Palm Beach, FL 33406

Project: New water supply wells 9W-17 through 9W-25 on Hillsboro Canal

Water Permit No.:138308-037-WC

Sewer Permit No.: NA

Dear Mr. Korbela:

The letter authorizes a partial release for use for wells 9W-21 through 9W-25 on the above project. Previous partial releases for wells 17, 19, and 20 were issued on April 13, 2001 and well number 18 was issued a partial release on May 23, 2001.

A final release for this project will require submittal of the final certification and record drawings.

We have also reviewed the results of the MPA testing submitted with your letter of June 19, 2001, which indicated a low risk for contamination from surface water from the adjacent Hillsboro Canal. Based on these results we can authorize use of the wells to supply water to the existing lime softening plant on a temporary basis. Additional MPA testing of the sampled wells during wet season conditions will be required for continued use of this source as a supply to the existing plant. *Sept. or Oct*

Should you have any questions please call me at 561-355-3070 ext. 1136.

Sincerely,

For the Division Director
Environmental Health & Engineering

T. D. LeFevre
Engineer-Supervisor
Plan Review & Permit Section

cc: engineer-of-record: Jorge A. Jaramillo, P.E

2/24