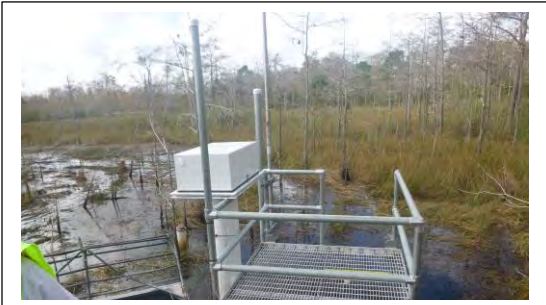






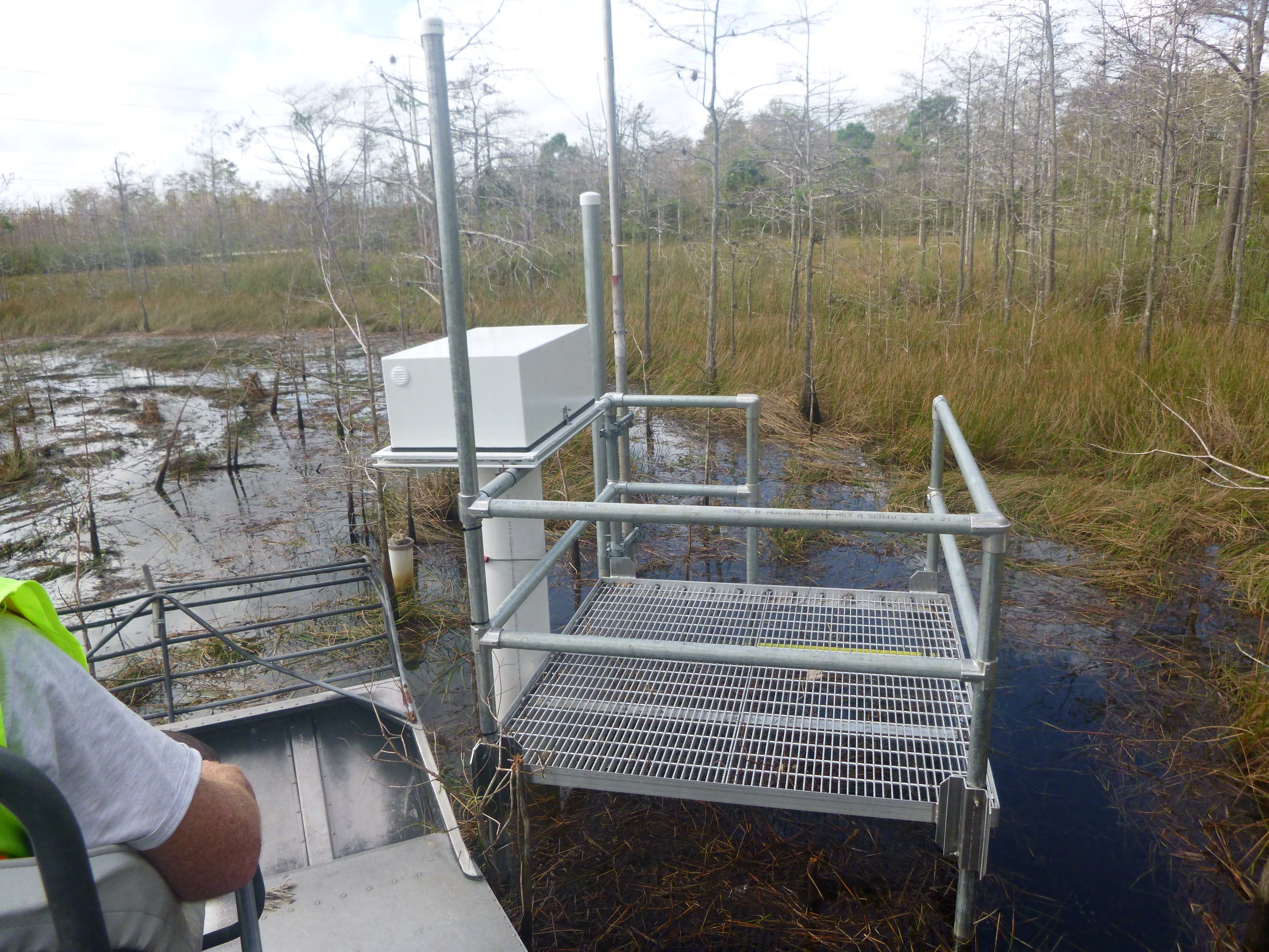
Site Name PGAW04 GW		Date of Field Work 11/18/2015
Party Chief Ebanks/Rodriguez	Field Book Name/Number SCADA FB #12	Page Number(s) Pg. 7
Site Benchmark Name PGAN04 2005	Benchmark Elevation (NAVD88) 16.425ft	Datum Offset to NGVD29 +1.52'
Reference Elevation (NAVD 88) 20.38ft		Existing Tag Elevation (Datum) N/A
Latitude 26° 50' 27.1"		Longitude 80° 10' 25"
Notes: Datum Upgrade to NAVD 88 from NGVD 29		

Photographs

Overall Site	Benchmark Location	Benchmark Close Up
		

Brass Tag Close Up	Brass Tag + Reference Mark
	

Staff Gauge (Front View)	Staff Gauge (Side View)
	



STN PGAW04 GW
ELEV. 20.38
DATE 11 18 15
BY EE SP
NAVD 88 NGVD
OFFSET + 1.52

↑
REF

BOTTOM

STN PGAW04 GW
ELEV. 20.38
DATE 11 18 15
BY EE SP
NAVD 88 NGVD
OFFSET +1.52



STN PGAW04 GW
ELEV. 20.38
DATE 11 18 15
BY EE SP
NAVD 88 NGVD
OFFSET +1.52







SOUTH FLORIDA WATER

MANAGEMENT DISTRICT

11





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY PALM BEACH		PROJECT Hydrology – Palm Beach, Martin, & Highlands County Wells	DESIGNATION PGAN04 2005
SECTION 05		TOWNSHIP 42 SOUTH	RANGE 42 EAST
GEOGRAPHIC INDEX OF QUAD			
Established by <u>Nick Miller Inc.</u> Recovered by		NAME OF QUADRANGLE DELTA	
SURVEYOR <u>Stephen M. Gordon</u> DATE <u>12/14/2005</u>		FIELD BOOK _____ 8 _____ PAGE 48	
HORIZONTAL DATUM: 1927 <u>1983</u> Other _____ (circle one) ZONE <u>E</u> or W			
STATE PLANE COORDINATES		E 925,618 ft	N 912,235 ft
LATITUDE: N 26.84095°		LONGITUDE: W 80.17367°	
VERTICAL DATUM: MSL 1929 <u>1988</u> Other _____ (circle one)		EL. 16.43 ft	
VERTICAL DATUM: MSL <u>1929</u> 1988 Other _____ (circle one)		EL. 17.94 ft	
CONTROL ACCURACY: HORIZONTAL 1 2 3 <u>SUB-METER</u> (circle one) VERTICAL 1 2 <u>3</u>			
DESCRIPTION			
<p>To Reach:</p> <p>FROM INTERSECTION OF MILITARY TAIL AND SR-786 (PGA BLVD.) GO WEST ON PGA BLVD. FOR 4.2 MILES TO MARK ON RIGHT. MARK IS LOCATED +/-200 FEET NORTH OF CENTERLINE PGA BLVD. INTO WETLAND MARSH, 1.5 FEET WEST OF WEST EDGE OF WOODEN PLATFORM FOR MONITORING WELL PGAN04, 6.55 FEET SOUTHWEST OF 2 INCH DIAMETER PVC PIPE OF PGAN04 MONTIORING WELL.</p> <p>Benchmarks Used: Q600, V 547</p> <p>Notable Land marks:</p>			



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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SKETCH

1078.005 SET ROD BENCHMARK @ MONITORING WELL PGAND4

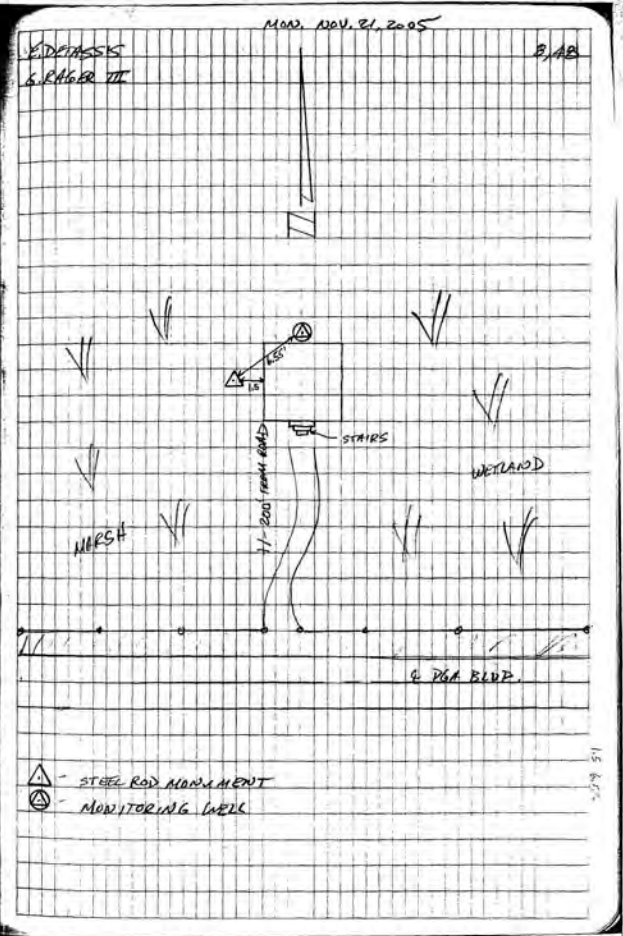
PGAND4
 - SET STEEL ROD TO REFUSAL W/ 6" PVC PIPE CASING

- SET STEEL ROD 1.5' WEST OF WEST EDGE OF WOODEN PLATFORM FOR MONITORING WELL PGAND4
 - SET STEEL ROD 6.55' SW OF ACTUAL MONITORING WELL (2" PVC PIPE)

STAMPED

COORDINATES ON BENCHMARK PGAND4
 STATE PLANE 83 WGS 84
 N. 278049.690 m N. 76° 50' 27" 430
 E. 282128.833 m W. 080° 10' 25" 226

COORDINATES ON MONITORING WELL PGAND4
 STATE PLANE 83 WGS 84
 N. 278051.176 m N. 76° 50' 27" 427
 E. 282129.507 m W. 080° 10' 25" 212



PGAN04



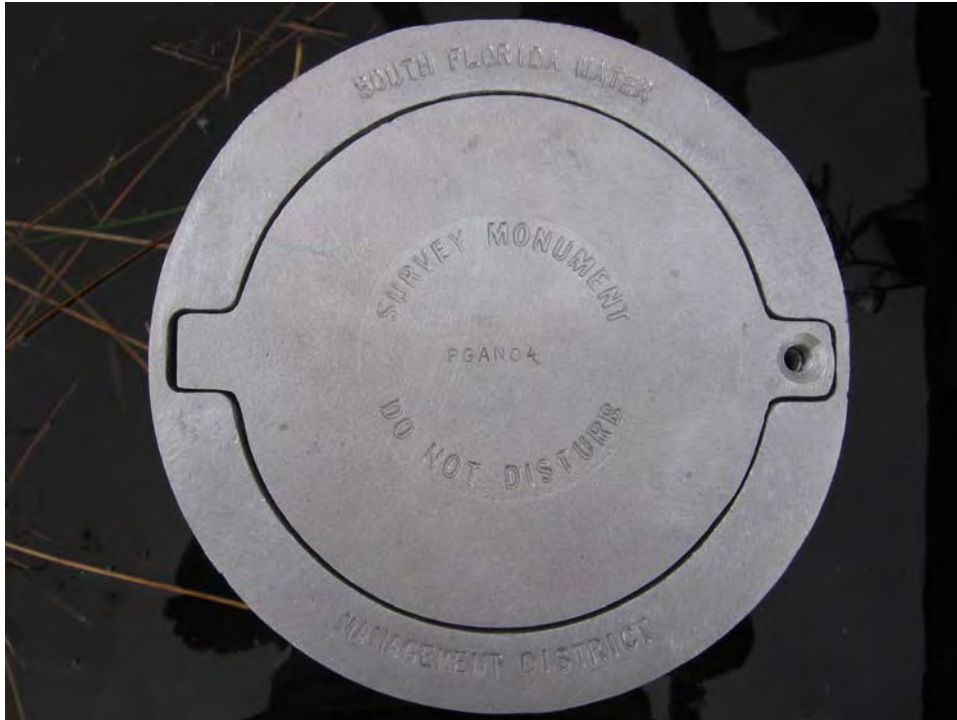
Nick Miller, Inc.
Date of Photo: November 21, 2005
View: Looking at the well PGAN04 facing north

PGAN04



Nick Miller, Inc.
Date of Photo: November 21, 2005
View: Looking at the benchmark facing north

PGAN04



Nick Miller, Inc.
Date of Photo: November 21, 2005
View: A top view of the benchmark



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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COUNTY PALM BEACH	PROJECT Hydrology – Palm Beach, Martin, & Highlands County Wells	DESIGNATION PGAN04A 2005
SECTION 06	TOWNSHIP 42 SOUTH	RANGE 42 EAST
GEOGRAPHIC INDEX OF QUAD		
Established by <u>Nick Miller Inc.</u> Recovered by	NAME OF QUADRANGLE DELTA	
SURVEYOR <u>Stephen M. Gordon</u> DATE <u>12/14/2005</u>	FIELD BOOK <u>8</u> PAGE <u>43</u>	
HORIZONTAL DATUM: 1927 <u>1983</u> Other _____ (circle one) ZONE <u>E</u> or W		
STATE PLANE COORDINATES	E 923,221 ft	N 912,055 ft
LATITUDE: N 26.84050°	LONGITUDE: W 80.18103°	
VERTICAL DATUM: MSL 1929 <u>1988</u> Other _____ (circle one)	EL. 17.22 ft	
VERTICAL DATUM: MSL <u>1929</u> 1988 Other _____ (circle one)	EL. 18.73 ft	
CONTROL ACCURACY: HORIZONTAL 1 2 3 <u>SUB-METER</u> (circle one) VERTICAL 1 2 <u>3</u>		
DESCRIPTION		
<p>To Reach:</p> <p>FROM INTERSECTION OF MILITARY TRAIL AND SR-786 (PGA BLVD.) GO WEST ON PGA BLVD. FOR 4.6 MILES TO MARK ON RIGHT. LOCATED 6.0 FEET NORTH OF NORTH EDGE OF PAVEMENT OF PGA BLVD., 44.7 FEET SOUTHEAST OF WOOD UTILITY POLE (SBT&T CO.), 76.0 FEET NORTHWEST OF CONCRETE UTILITY POLE (192 D1). SET MAGNET 1 FOOT NORTH OF MONUMENT.</p> <p>Benchmarks Used: Q600, V 547</p> <p>Notable Land marks:</p>		



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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SKETCH

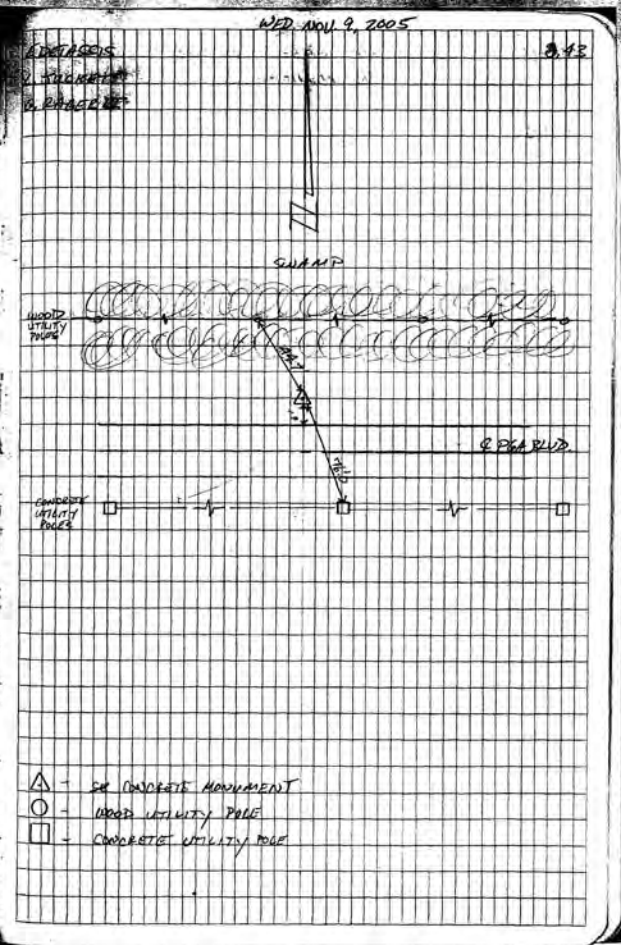
1078005 SET CONCRETE MONUMENT FOR P6A N04A

P6A N04A

- SET PAIRED-IN-PLACE CONCRETE MONUMENT W/ BRASS DISK
- SET MAGNET 1' NORTH OF CONC. MONUMENT
- SET CONC. MONUMENT 76' NW OF CONCRETE UTILITY POLE (M2D1)
- " " " 447' SE OF WOOD UTILITY POLE (SST&T CO.)
- " " " 60' NORTH OF NORTH EDGE OF PAVEMENT OF P6A BLVD.

STAMPED P6A N04A 2005

COORDINATES ON CONCRETE MONUMENT P6A N04A
 STATE PLANE 83 WGS 84
 N. 277994.589 m N. 26° 50' 25" 793
 E. 281397.702 m W. 080° 10' 51" 719



PGAN04A



Nick Miller, Inc.
Date of Photo: November 9, 2005
View: Looking at the benchmark facing north

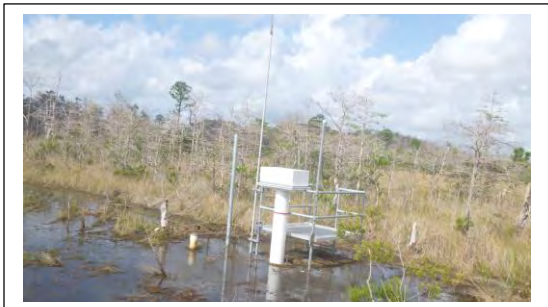

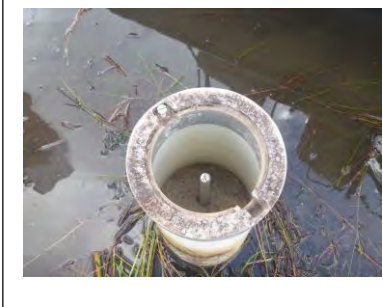
PGAN04A





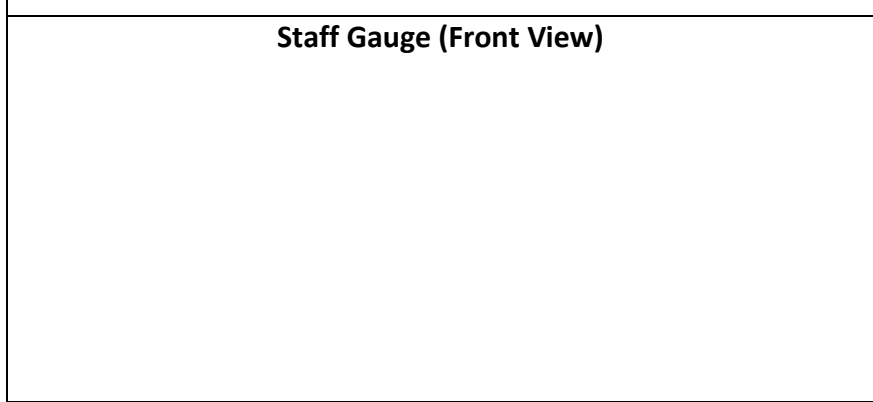
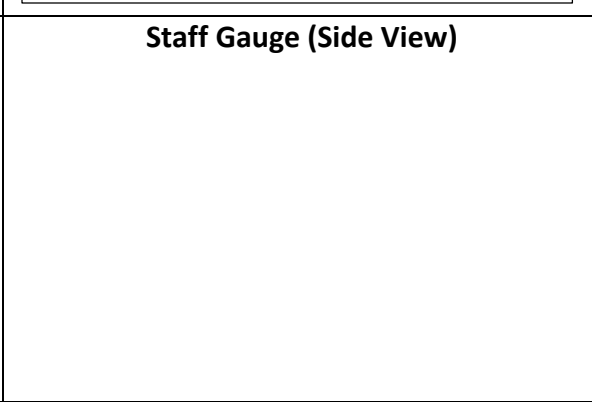
Nick Miller, Inc.
Date of Photo: November 9, 2005
View: A top view of the benchmark

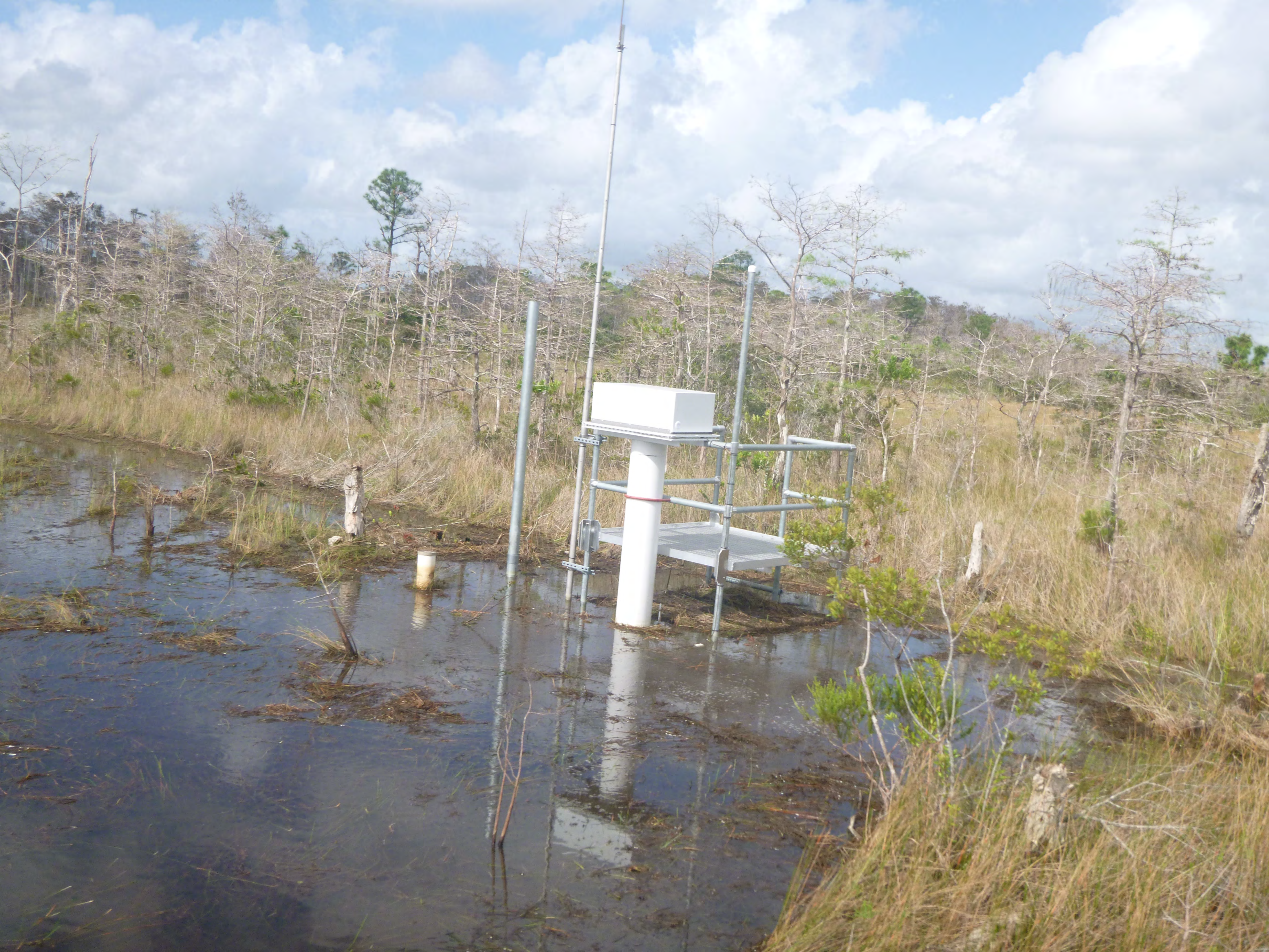
Site Name PGAW05 GW		Date of Field Work 11/18/2015
Party Chief Ebanks/Rodriguez	Field Book Name/Number SCADA FB #12	Page Number(s) Pg. 7
Site Benchmark Name PGAN05 2005	Benchmark Elevation (NAVD88) 16.206ft	Datum Offset to NGVD29 +1.52'
Reference Elevation (NAVD 88) 21.268ft		Existing Tag Elevation (Datum) N/A
Latitude 26° 50' 27.9"		Longitude 80° 11' 15.8"
Notes: Datum Upgrade to NAVD 88 from NGVD 29		

Photographs

Overall Site	Benchmark Location	Benchmark Close Up
		

Brass Tag Close Up	Brass Tag + Reference Mark
	

Staff Gauge (Front View)	Staff Gauge (Side View)
	





BOSCH

NSF SPARK-ENTRIPSE INC.

HUSTEEL RSTM R53 R SCH40 E Z

ASTM A513





FLORIDA FLORIDA FLORIDA

STN PGAW05 GW
ELEV. 21.268
DATE 11 18 15
BY EE SP
NAVD 88 NGVD
OFFSET + 1.52

↑
REF. PT



STN PGAW05 GW

ELEV. 21.268

DATE 11 18 15

BY EE SP

NAVD 88 NGVD

OFFSET + 1.52

Sec. 5 Twp 42 Rge 42

Edwards
Powell

Establish REF Elev for Modified (NEW) well
@ PGAW04

STA	+	H.I.	-	Elev	Remarks
B.M. PGAW04 2005	5.30	21.725		16.425	Top Rod.
PGAW04 well			1.345	20.38	
		<u>RT</u>			
PGAW04 well	1.40	21.78			
B.M. PGAW04		5.355		16.425	

Sec. 6 Twp 42 Rge 42

Edwards
Powell

Establish REF Elev for PGAW05 (NEW)
well.

STA	+	H.I.	-	Elev	Remarks
B.M. PGAW05	6.41	22.616		16.206	
PGAW05 well			1.348	21.268	✓
		<u>RT</u>			
PGAW05 well	1.22	22.488			
B.M. PGAW05		6.283		16.208	



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COUNTY PALM BEACH	PROJECT Hydrology – Palm Beach, Martin, & Highlands County Wells	DESIGNATION PGAN05 2005
SECTION 06	TOWNSHIP 42 SOUTH	RANGE 42 EAST
GEOGRAPHIC INDEX OF QUAD		
Established by <u>Nick Miller Inc.</u> Recovered by	NAME OF QUADRANGLE DELTA	
SURVEYOR <u>Stephen M. Gordon</u> DATE <u>12/14/2005</u>	FIELD BOOK _____ 8 _____	PAGE <u>47</u>
HORIZONTAL DATUM: 1927 <u>1983</u> Other _____ (circle one) ZONE <u>E</u> or W		
STATE PLANE COORDINATES	E 921,036 ft	N 912,256 ft
LATITUDE: N 26.84109°	LONGITUDE: W 80.18772°	
VERTICAL DATUM: MSL 1929 <u>1988</u> Other _____ (circle one)	EL. 16.21 ft	
VERTICAL DATUM: MSL <u>1929</u> 1988 Other _____ (circle one)	EL. 17.72 ft	
CONTROL ACCURACY: HORIZONTAL 1 2 3 <u>SUB-METER</u> (circle one) VERTICAL 1 2 <u>3</u>		
DESCRIPTION		
<p>To Reach:</p> <p>FROM INTERSECTION OF MILITARY TAIL AND SR-786 (PGA BLVD.) GO WEST ON PGA BLVD. FOR 5.1 MILES TO MARK ON RIGHT. MARK LOCATED +/-150 FEET NORTH OF CENTERLINE PGA BLVD. IN WETLAND MARSH, 3.0 FEET WEST OF WEST EDGE OF WOODEN PLATFORM FOR MONITORING WELL PGAN05, 7.0 FEET SOUTHWEST OF 2 INCH DIAMETER PVC PIPE OF PGAN05 MONTIORING WELL.</p> <p>Benchmarks Used: Q 600, V547</p> <p>Notable Land marks:</p>		



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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SKETCH

1178.005 SET ROD BENCHMARK STUMPD
 @ MONITORING WELL P6A105

P6A105
 - SET STEEL ROD TO REFUSAL W/ 6" PVC CASING

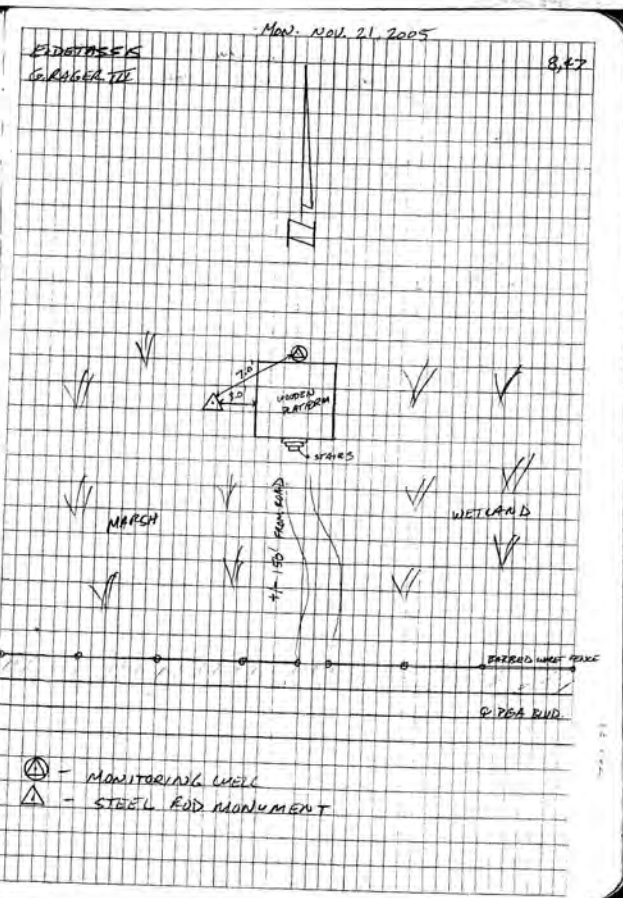
- SET STEEL ROD 3.0' WEST OF WEST END OF WOODEN PLATFORM
 FOR MONITORING WELL P6A105 (ACTUAL)

- SET STEEL ROD 20' SW OF MONITORING WELL (2" PVC PIPE)

STAMPED

COORDINATES ON BENCHMARK 76A105
 STATE PLANE 83 UGCS 89
 N. 278056.256 M N. 26° 50' 27.936
 E. 280732.357 M W. 080° 11' 15".802

COORDINATES ON MONITORING WELL P6A105
 STATE PLANE 82 UGCS 89
 N. 278057.814 M N. 26° 50' 27.966
 E. 280733.934 M W. 080° 11' 15".745



PGAN05



Nick Miller, Inc.

Date of Photo: November 21, 2005

View: Looking at the benchmark facing north

PGAN05



Nick Miller, Inc.
Date of Photo: November 21, 2005
View: A top view of the benchmark