

Rev. 1/16

DB Hydro Station Name: G-3061	DB Hydro Site Name: HIAFAS			Date of Field Work: 15-jun-17			
Party Chief: Hudson	Field	Field Book: Misc 7C		Page(s) 26 & 47			
Site Benchmark:	enchmark Elevation (NAVD88)		Corpscon 6.0.1 Conversion Factor (NAVD88 to NGVD29)				
HIAFAS	7.88	+1.552					
Reference Elevation(s) (NAVD88):	Existing Tag Elevation (Datum):		Calibration Port Elevation(s) (NAVD88):				
El. 10.61	None	ne El. 10.62		El. 10.625	:5		
Ground Elevation (NAVD88):			Pad Elevation (NAVD88):				
El. 6.8 NW corner El. 7.0 NE corner			El. 7.86 NW corner El. 7.88 NE corner				
El. 6.9 SE corner El. 6.8 SW corner			El. 7.92 SE corner El. 7.84 SW corner			ner	
Latitude: 25°49'42.324"			Longitude: 80°17′15.973" (OPUS taken on benchmar			(OPUS taken on benchmark)	

Notes:

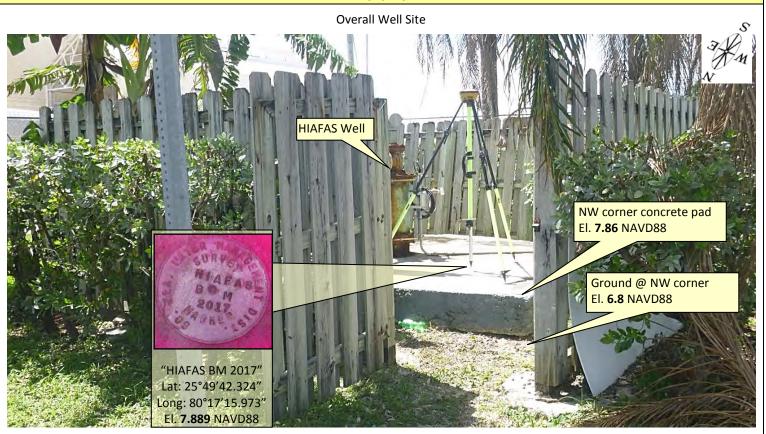
OPUS – Online Positing User Service (a National Geodetic Survey Product)

NAVD88 – North American Vertical Datum of 1988

NGVD29- National Geodetic Vertical Datum of 1929

Corpscon 6.0.1 - A U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windowsbased program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville Fl.

PICTURES



Looking Southeasterly (Not to scale) (15-jun-17)



Rev. 1/16

HIAFAS Well Pictures



Looking Easterly (Not to scale) (15-jun-17)

HIAFAS Well Pictures



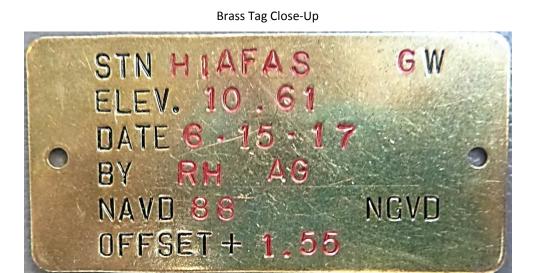
Looking Southerly (Not to scale) (15-jun-17)

Reference and Verification Port Measuring Points





Rev. 1/16





Rev. 1/16

DESIGNATION: HIAFAS PROJECT: HIAFAS Well Site ESTABLISHED BY: SOUTH FLORIDA WATER MANAGEMENT DISTRICT SURVEYOR: Hudson RECOVERED BY: DATE: **15-jun-17** GEOGRAPHIC POSITION TOWNSHIP **53** SOUTH RANGE 41 EAST SECTION 18 NAME OF QUADRANGLE: Hialeah COUNTY: Miami-Dade **GEOGRAPHIC INDEX OF QUAD: 1503** HORIZONTAL DATUM: 1927 (1983) Other (circle one) ZONE E or W 1929 **1988** Other VERTICAL DATUM: MSL (circle one) VERTICAL ACCURACY: 1 2 (3) NAVD 88 EL. **7.889** STATE PLANE (N) Y= **543965.215** (E) X= **890441.175** COORDINATE NGVD 29 EL. CORPSCON 6.0.1 CONVERSION FACTOR (NAVD88 TO NGVD29): +1.552

Stamping: HIAFAS BM 2017

To Reach: From the intersection of U.S. Highway 27 (South Okeechobee Road) and State Road 826 (Palmetto Expressway) go southeast on U.S. Highway 27 for 2.6 miles to West 9th Street on the left; turn left (East) onto West 9th Street and go 0.14 of a mile to West 3rd Avenue; turn right (South) and go 430 feet to the entrance to the water plant on the right; turn right and enter the parking lot of the water plant and the station location on the left inside the wooden fenced area of the HIAFAS well. The station is located on the concrete well pad 3 feet south of and 3 feet east of the northwest corner of the well pad and 4.45' northwest of the well. The station is a South Florida Water Management District aluminum disk set in the well pad and stamped "HIAFAS BM 2017."

LATITUDE: 25°49'42.324" | LONGITUDE: 80°17'15.973" (OPUS solution) opus – Online Positing User Service (a National Geodetic Survey Product)

RECOVERY DATA

NGS SOURCE BENCHMARK: W421 (AB7784) El. 11.309 NAVD88

FIELD BOOK: MISC 7C PAGES: 46 & 47

PICTURES





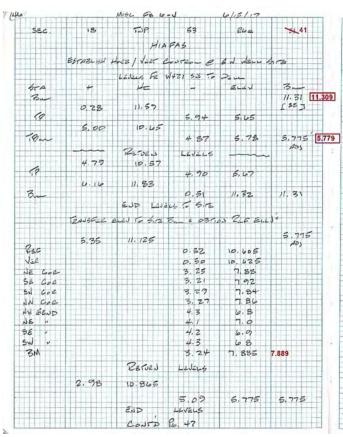
stamped "HIAFAS BM 2017" El. 7.889 NAVD88

Looking Southeasterly (Not to scale) (15-jun-17)

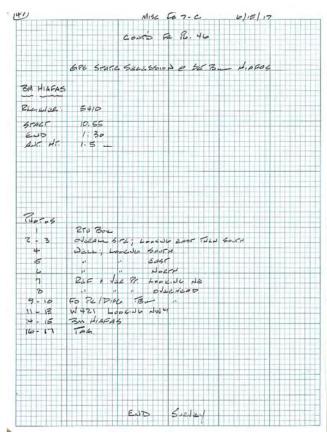


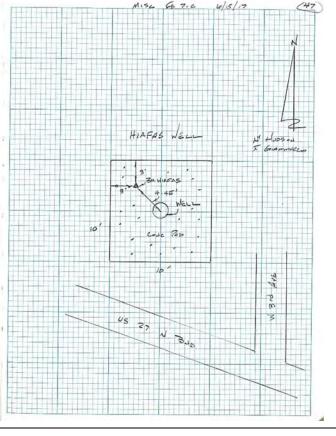
Rev. 1/16

Field Notes (FB MISC 7C pages 46 & 47



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	AND S SDALM OF MM COT OF 185 STAW	TED HISTAY	Dr 6017
	13 Azali; Eccoc + 0001		





DATASHEETS Page 1 of 2

The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.12
       National Geodetic Survey, Retrieval Date = MARCH 17, 2017
AB7784 DESIGNATION - W 421
AB7784 PID
                      AB7784
AB7784 STATE/COUNTY- FL/MIAMI-DADE
AB7784 COUNTRY - US
AB7784 USGS OUAD - HIALEAH (1994)
AB7784
AB7784
                               *CURRENT SURVEY CONTROL
AB7784
AB7784* NAD 83(1986) POSITION- 25 49 46. (N) 080 17 22.
                                                               (W)
                                                                    SCALED
AB7784* NAVD 88 ORTHO HEIGHT - 3.447 (meters)
                                                              (feet) ADJUSTED
                                                       11.31
AB7784
AB7784 GEOID HEIGHT
                                -25.148 (meters)
                                                                    GEOID12B
AB7784 DYNAMIC HEIGHT -
                                                       11.29 (feet) COMP
                                  3.441 (meters)
AB7784 MODELED GRAVITY -
                             979,040.6
                                        (mgal)
                                                                    NAVD 88
AB7784
                        - FIRST
AB7784 VERT ORDER
                                    CLASS II
AB7784
AB7784. The horizontal coordinates were scaled from a topographic map and have
AB7784.an estimated accuracy of \pm 6 seconds.
AB7784.
AB7784. The orthometric height was determined by differential leveling and
AB7784.adjusted by the NATIONAL GEODETIC SURVEY
AB7784.in March 1997.
AB7784
AB7784. Significant digits in the geoid height do not necessarily reflect accuracy.
AB7784.GEOID12B height accuracy estimate available here.
AB7784
AB7784. The dynamic height is computed by dividing the NAVD 88
AB7784.geopotential number by the normal gravity value computed on the
AB7784. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AB7784.degrees latitude (g = 980.6199 \text{ gals.}).
AB7784. The modeled gravity was interpolated from observed gravity values.
AB7784
AB7784;
                           North
                                        East
                                                Units Estimated Accuracy
AB7784; SPC FL E
                        165,910.
                                     271,240.
                                                   MT (+/-180 \text{ meters Scaled})
AB7784
AB7784 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ712569(NAD 83)
AB7784
AB7784
                                SUPERSEDED SURVEY CONTROL
AB7784
AB7784 No superseded survey control is available for this station.
AB7784 MARKER: DV = VERTICAL CONTROL DISK
AB7784 SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE
AB7784 SP SET: PEDESTRIAN OVERPASS
AB7784 STAMPING: W 421 1993
AB7784 MARK LOGO: NGS
```

DATASHEETS Page 2 of 2

AB7784 MAGNETIC: N = NO MAGNETIC MATERIAL

AB7784 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

AB7784 SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR

AB7784+SATELLITE: SATELLITE OBSERVATIONS - 1993

AB7784

AB7784 HISTORY - Date Condition Report By AB7784 HISTORY - 1993 MONUMENTED FLDEP

AB7784

AB7784 STATION DESCRIPTION

AB7784

AB7784'DESCRIBED BY FL DEPT OF ENV PRO 1993 (LGB)

AB7784'THE MARK IS IN MIAMI SPRINGS, ABOUT 1.2 MI (1.9 KM) SOUTHEAST OF THE

AB7784'JUNCTION OF STATE ROAD 934 AND U.S. HIGHWAY 27, IN SECTION 18,

AB7784'TOWNSHIP 53 SOUTH, RANGE 41 EAST. TO REACH THE MARK FROM THE

AB7784'INTERSECTION OF U.S. HIGHWAY 27 AND STATE ROAD 826 (PALMETTO

AB7784'EXPRESSWAY) GO SOUTHEAST ON U.S. HIGHWAY 27 FOR 2.6 MI (4.2 KM) TO THE

AB7784'JUNCTION OF U.S. HIGHWAY 27 AND NORTHWEST 57TH AVENUE (RED ROAD) AND

AB7784'THE MARK ON THE LEFT, SET VERTICALY IN THE SOUTHEAST FACE OF A

AB7784'PEDESTRIAN OVERPASS, 5.0 FT (1.5 M) ABOVE THE LEVEL OF THE GROUND,

AB7784'19.5 FT (5.9 M) SOUTH OF A METAL TRAFFIC BOX, 14.0 FT (4.3 M)

AB7784'NORTHWEST OF A WOODEN POWER POLE AND 5.5 FT (1.7 M) NORTHEAST OF THE

AB7784'NORTHEAST EDGE OF THE CURB AND GUTTER.

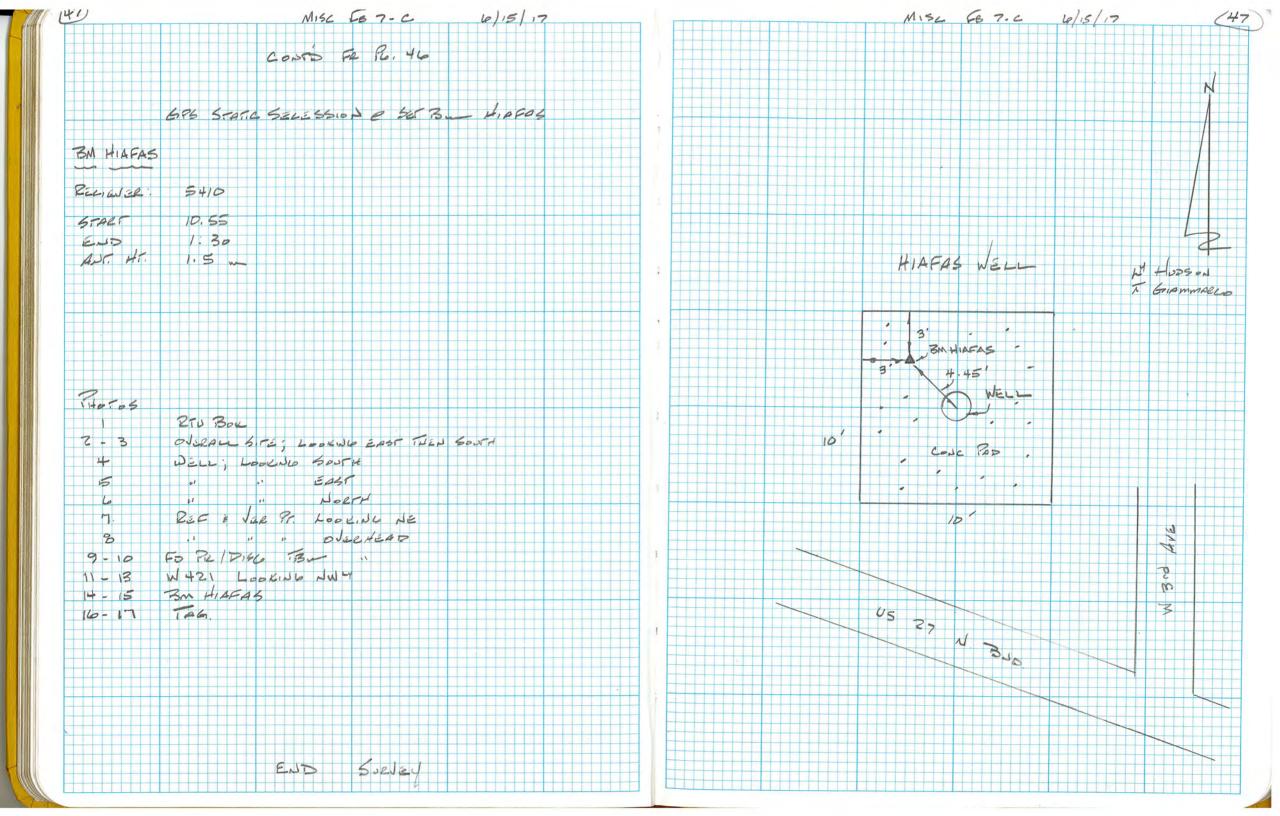
*** retrieval complete. Elapsed Time = 00:00:01







Ho)		MISC FE 10.	1	6/15/17		MISC F3 7.6 45
SEC.	18	TWP	53	QUE.	≫. 41	EQUIP DEE DINI & BOR CODE 20D
		HIA	EA5			NOTES 1, VERT BY DAS TOO HIGH TO USE DIGITAL; TO WIKE
						USED LEVEL & HUNBER 5, DE OF ROD. & GIDWINDERD
	ESTABLISH	HORZ / VEET C	00-20- B	6 W WELL &	ATE	2. USED TOO MEN & BLADE & VEET BUTE A STRICKLAND
		Lider Fe V	1421 32 TO	ا ا ا		ENSURE AGGURACY.
6-0	+	H		ELEN	3-	Comminted
Bu					//. 3/ 11.309	Bu W 421 RELOJERED IN GOOD COND PER DESC
	0.28	11.59			[35]	
10			5.94	5,45		
	5.00	10.65				
TAN			4 87	5,78	5,775 5.779	TK NOIL ! DISC FOIL CONC 5,000 DOLK ON DEST 5.00
		RETURN	LEVELS		ADS	OF B' LL FENCE, ALROSS FROM DELL
	4.79	10.57				
TP			4.90	5,47		
	4.16	11.83				
3			0.31	11.32	11, 31	B. 23054; ER202 0 01
		END Live	15 5 5 TE			
	101/45-0	ELEU TO SICE	8 4 035	7 5 5 5 1	14	
	PANSECE	200 10 71/2		13 424 666		
	5.35	11.125			5,775	Tam Basic
REC			0.52	10.605	ADS	x 550mp od 5 tol of ELBOD & 54.250R
JER			0.50	10. 625		1, 4 " " " 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
NE Coc			3. 25	7.88		CONC POP
SE COR			3. 21	7.92		
SW COR			3. 29	7.84		
NN COC			3. 27	7.86		
NW GEND			4.3	6.8		Geno Elch
NE "			4.1	7.0		
5E ,			4.2	6.9		y v
			4.3 3.24	68	7,000	" " " " " " " " " " " " " " " " " " " "
3M	1,7			7,885	7.889	SENMO ALUM COP SET WAWLY COR OF COHE PO; 3'E.
		RETURN	LEJELS			AND 3'SDOTH OF NW COR OF PAD STAMPED" HINCAS By 2017"
	2.98	10.865				
			5,09	5.775	5,775	TBN 430/6: 62606 0:00'
		END	LEVELS			113 4:30 VE; ERDE 0.00
		CONTD	Pb. 47			



From: opus

To: Ehmke, Howard

Subject: OPUS solution: HIAFAS.tps OP1497981445397

Date: Tuesday, June 20, 2017 1:58:31 PM

FILE: HIAFAS.tps OP1497981445397

1009 WARNING! No antenna type was selected. No antenna offsets or

1009 pattern will be applied. Coordinates with reduced accuracy

1009 will be returned for the antenna phase center.

1009

NGS OPUS SOLUTION REPORT

All computed coordinate accuracies are listed as peak-to-peak values.

For additional information: https://www.ngs.noaa.gov/OPUS/about.jsp#accuracy

USER: hehmke@sfwmd.gov DATE: June 20, 2017 RINEX FILE: hiaf166o.17o TIME: 17:58:12 UTC

SOFTWARE: page5 1603.24 master57.pl 160321 START: 2017/06/15 14:55:00

EPHEMERIS: igr19534.eph [rapid] STOP: 2017/06/15 17:30:00

NAV FILE: brdc1660.17n OBS USED: 4527 / 6403 : 71%

ANT NAME: NONE NONE # FIXED AMB: 58 / 83 : 70%

ARP HEIGHT: 1.5 OVERALL RMS: 0.026(m)

X: 969114.291(m) 0.151(m) 969113.503(m) 0.151(m) Y: -5662274.688(m) 0.099(m) -5662273.087(m) 0.099(m) Z: 2761955.052(m) 0.021(m) 2761954.879(m) 0.021(m)

LAT: 25 49 42.32413 0.026(m) 25 49 42.34332 0.026(m) E LON: 279 42 44.02660 0.152(m) 279 42 44.00842 0.152(m) W LON: 80 17 15.97340 0.152(m) 80 17 15.99158 0.152(m) EL HGT: -22.499(m) 0.083(m) -24.114(m) 0.083(m)

ORTHO HGT: 2.654(m) 0.141(m) [NAVD88 (Computed using GEOID12B)] 8.2447

Y= 543965.21456083333

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 17) SPC (0901 FL E)

Northing (Y) [meters] 2856876.341 165800.929 Easting (X) [meters] 571382.650 271407.013 Convergence [degrees] 0.31031570 0.31031570

X) [meters] 571382.650 271407.013 nce [degrees] 0.31031570 0.31031570 le 0.99966292 1.00000411 X= 890441.1751508332

Point Scale 0.99966292 1.00000411 Combined Factor 0.99966645 1.00000764

US NATIONAL GRID DESIGNATOR: 17RNJ7138256876(NAD 83)

BASE STATIONS USED

PID DESIGNATION LATITUDE LONGITUDE DISTANCE(m)
DF9225 ZMA1 MIAMI WAAS 1 CORS ARP N254928.585 W0801909.066 3178.0
DG9798 PBCH WEST PALM CORS ARP N265046.638 W0801309.299 112978.0

NEAREST NGS PUBLISHED CONTROL POINT

AB7784 W 421 N254946. W0801722. 202.4

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

Office

Project

20 June 2017

INPUT

State Plane, flhpgn - Florida HPGN 0901 - Florida East, U.S. Feet Vertical - NAVD88, U.S. Feet

OUTPUT

Geographic, flhpgn - Florida HPGN Vertical - NGVD29 (Custom), U.S. Feet

HIAFAS

1/1

Northing/Y: 543965.214560833333 Easting/X: 890441.1751508332 **Latitude:** 25 49 42.32412 **Longitude:** 80 17 15.97342

Elevation/Z: 0

Elevation/Z: 1.552

Convergence: 0 18 37.13653

Scale Factor: 1.000004114

Combined Factor: 1.000008057



DBHYDRO | by station

		STATION IN	FΟ	RMATION	
Station		G-3061			
Site		HIAFAS			
Туре		WELL			
Latitude (d	dmmss.sss)	254942.534			
Longitude ((ddmmss.sss)	801715.984			
X Coord (ft	:) NAD83	890440.093			
Y Coord (ft	:) NAD83	543986.399			
County		Miami-Dade			
Basin		C-6			
Section		18			
Township		53			
Range		41			
Show Map		Google Map			
Well Info		<u>Info</u>			
Description	1	G-3061 USGS WELL	ΗI	ALEAH ASR#1	
Notes					
Nearby Sta		Nearby Stations			
Attachmen	ts	Show Attachments			
		Query returned 1	sta	ation record(s).	
	Get Sa	mple Data		Get Time Series Data	

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Privacy Policy | Disclaimer | Accessibility | User Survey | Redline | Contact Us | Locations | Careers

REGISTRATION WORKSHEET - HIAFAS Addendum

Activity: Addendum Effective Date: Start Date of Data: Customer: Steve Krupa Bus. Area: 5720 Agency: SFWMD Internal Order: Fund: Project Manager: Howard Ehmke Bus. Area: Survey & Mapping Agency: SFWMD Contract #: Project Name: Legal Mandate: Short Common Name / Description: Froj. Mgr. Notes: This addendum was performed to add NAVD 88 surveying data for the reference elevation. To convert to NGVD 29 add +1.552 ft. Site Directions: From the intersection of U.S. Highway 27 (South Okeechobee Road) and State Road 826 (Palmetto Expressway) go southeast on U.S. Highway 27 for to West 9th Street and go 0.14 of a mile to West 3rd Avenue; turn right (South) and go 430 feet to the to the water plant on the right: turn right and enter the narking lot of the water plant and the station location on the left inside the wooden fenced area of the Configuration: Lock type or combination: Abloy S # Recorder Location/Purpose: Stand-Alone Recorder (Non-Flow Site) Structure Type: Array ID Configuration table attached NO	entrance				
Project Manager: Howard Ehmke Bus. Area: Survey & Mapping Agency: SFWMD Contract #: Project Name: Legal Mandate: Short Common Name / Description: Proj. Mgr. Notes: This addendum was performed to add NAVD 88 surveying data for the reference elevation. To convert to NGVD 29 add +1.552 ft. Site Directions: From the intersection of U.S. Highway 27 (South Okeechobee Road) and State Road 826 (Palmetto Expressway) go southeast on U.S. Highway 27 for to West 9th Street on the left; turn left (East) onto West 9th Street and go 0.14 of a mile to West 3rd Avenue; turn right (South) and go 430 feet to the to the water plant on the right: turn right and enter the parking lot of the water plant and the station location on the left inside the wooden fenced area of Site Address (if any): Transportation: Lock type or combination: Abloy S # Recorder Location/Purpose: Stand-Alone Recorder (Non-Flow Site) Structure Type:	entrance				
Project Name: Legal Mandate:	entrance				
Short Common Name / Description: Proj. Mgr. Notes: This addendum was performed to add NAVD 88 surveying data for the reference elevation. To convert to NGVD 29 add +1.552 ft. Site Directions: From the intersection of U.S. Highway 27 (South Okeechobee Road) and State Road 826 (Palmetto Expressway) go southeast on U.S. Highway 27 for to West 9th Street on the left; turn left (East) onto West 9th Street and go 0.14 of a mile to West 3rd Avenue; turn right (South) and go 430 feet to the to the water plant on the right; turn right and enter the parking lot of the water plant and the station location on the left inside the wooden fenced area of the station in the properties of the station location on the left inside the wooden fenced area of the station in the properties of the station in the properties of the station in the station location on the left inside the wooden fenced area of the station in the properties of the station in the properties of the station in the station location on the left inside the wooden fenced area of the station in the properties of the station	entrance				
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Transportation: Lock type or combination: Abloy S # Recorder Location/Purpose: Stand-Alone Recorder (Non-Flow Site) Structure Type:					
Recorder Location/Purpose: Stand-Alone Recorder (Non-Flow Site) Structure Type:					
Array ID Configuration table attached NO					
SURVEY INFORMATION					
B.M. Elevation: 7.889 Date: 6/15/2017 Stamp: HIAFAS BM 2017	Stamp: HIAFAS BM 2017				
Agency: SFWMD Type: ALUM Datum: NAVD 88					
Benchmark Location/ Description The station is located on the concrete well pad 3 feet south of and 3 feet east of the northwest corner of the well pad and 4.45' northwest of the well. T station is a South Florida Water Management District aluminum disk set in the well pad and stamped "HIAFAS BM 2017."	ne				
COMMUNICATIONS INFORMATION					
Communications System: Loggernet Server: Loggernet IP Address:					
Tower: Communication Type: R.F. Code/Modem Address: R.F. Access Point:					
Phone Number:					
RTU Address: Gateways:					
WELL INFORMATION					
Customer Sensor Ref Ref Elev Elev Date Well of Well Elev Elev Datum Ref Elevation Location					
GW1 HIAFAS 10.61 6/15/2017 10.61 6.9 7.889 NAVD 88 top of 90° elbow below the transducer					
GW Sensor Top of Base of					
Location Meas Pt GW Land Depth of Type of Monitored Monitored Parameter					
Sensor Offset Elevation Elevation Well Well Interval Interval Transmitted Woll Well Well Interval					

Quad

41 Hialeah

Basin

County

Miami-Dade

Description

Item/Parm GW1

Lat Long 25 49 42.32 80 17 15.97

X-Coord Y-Coord Sec

Township Range

18