

Rev. 1/16

Data of Field Morks

PBF-3 PBF-4 PBF-5		DB Hydro Site Name: LYTAL LYTAL LYTAL		Date of Field Work:  19-sep-17						
Party Chief: <b>Giammarco</b>		Field Book: Misc <b>6Z</b>	Pages <b>69-7</b>	1		Prepared by: <b>H. Ehmke</b>				
		SI	TE SPECIFIC	DATA						
Site Benchmark: PBF 345		Benchmark Elevation <b>20.001</b>	(NAVD88)	Corps +1.51		onversion Factor (NAVD88 to NGVD29)				
Reference Elevation(s) (NA)	/D88):	Existing Brass Tag Elev	ation (Datu	m):	Calibration/Observation Port Elevations (NAVD8					
PBF-3 GWFL1 El. <b>23.86</b>		PBF-3 None			PBF-3 GWFL1 El. <b>23.86</b> El. <b>23.86</b> El. <b>23.86</b>					
PBF-4 GWFL2 El. <b>24.20</b>		PBF-4 <b>None</b>			PBF-4 GWFL2 El. <b>24.21</b> El. <b>24.21</b> El. <b>24.21</b>					
PBF-5 GWFL3 El. <b>22.11</b>		PBF-5 None			PBF-5 GW	WFL3 Not Applicable				
Ground Elevation (NAVD88)	):		Pad Elevat	ion (NA	AVD88):					
NW Corner El. 18.4	NE Corr	ner El. <b>18.3</b>	NW Corner El. 19.95			NE Corner El. 19.96				
SW Corner El. 18.0	SE Corn	ier El. <b>18.1</b>	SW Corner	El. <b>19</b>	.96	SE Corner El. 19.97				
		GE	OOGRAPHIC	DATA						
Section 6		Township <b>44</b> South			Range <b>43</b>	East				
Well or Benchmark	Latitu	de: <b>26º40'34.819"</b>	Longitude <b>80°06'12.</b> 6			Source: OPUS Solution				
	State	Plane Coordinates	Northing (Y) = <b>852549.391</b>			Easting (X) = <b>948920.159</b>				
Notes:										

DD Hudro Cito Namo

Notes:

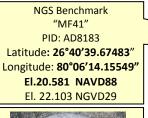
**OPUS** – Online Positioning User Service

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 Windows-based 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**



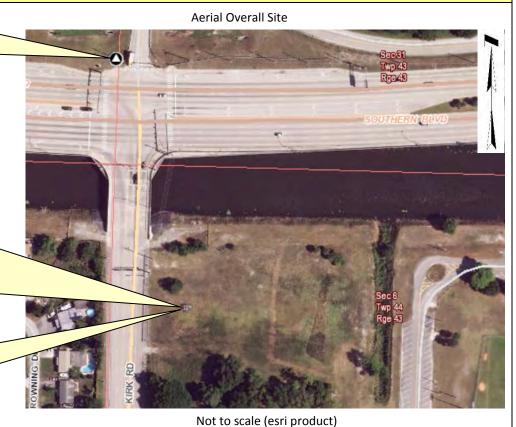


SFWMD Site Benchmark
"PBF345"
Latitude: 26°40'34.819"
Longitude: 80°06'12.630"
El. 20.001 NAVD88

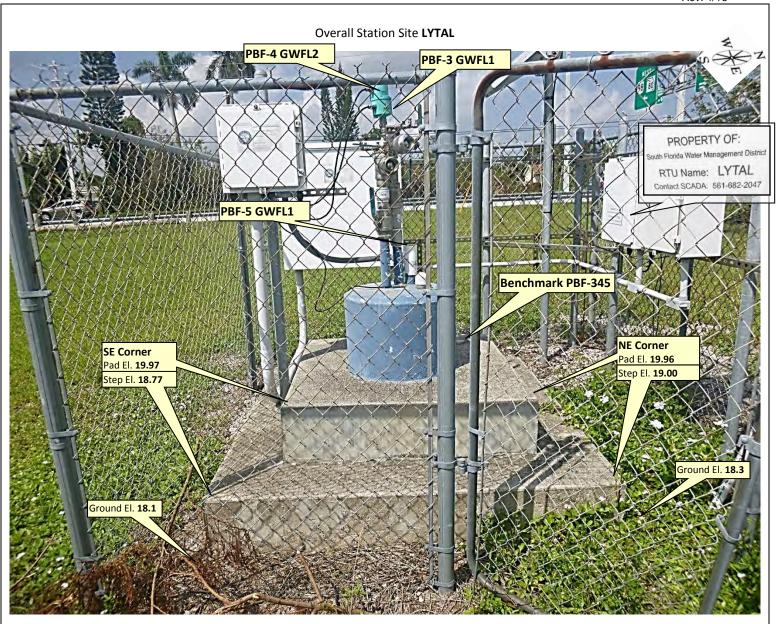
El. 21.523 NGVD29

Station: LYTAL Well Site Site: PBF-3 Site: PBF-4 Site: PBF-5 Latitude: 26°40'34.81"

Longitude: 80°06'12.62"

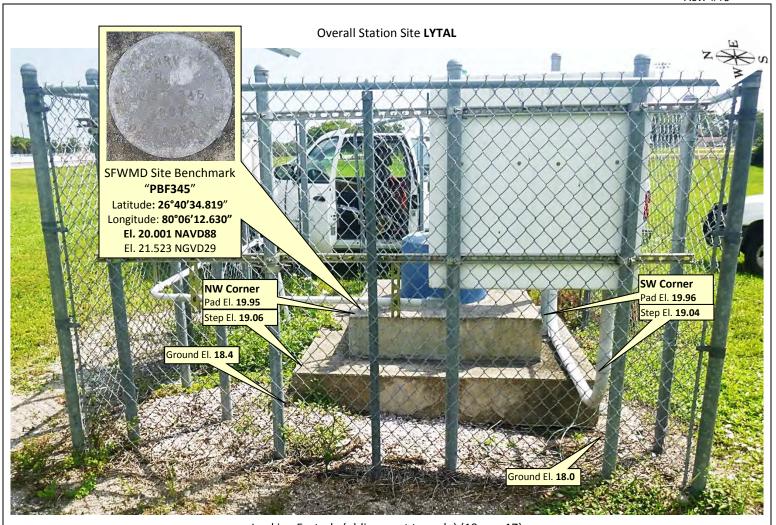




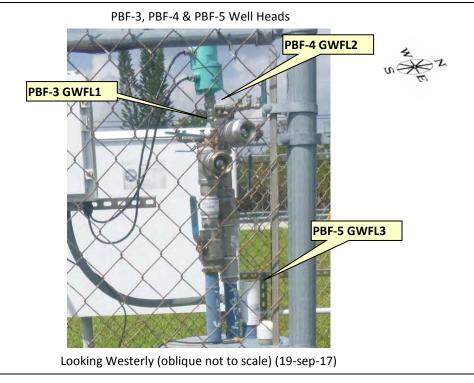


Looking Westerly (oblique not to scale) (19-sep-17)

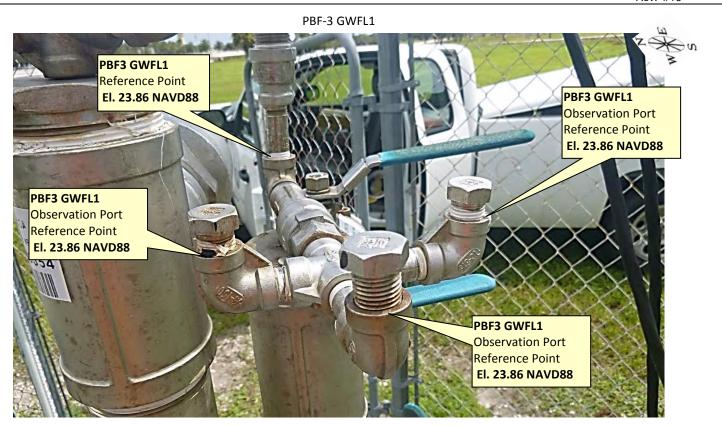




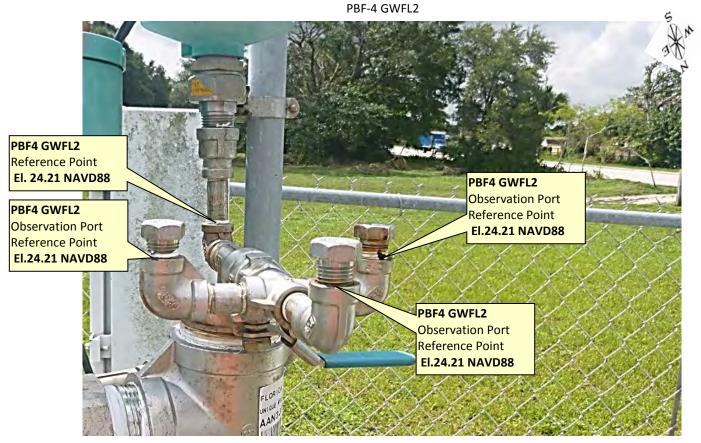
Looking Easterly (oblique not to scale) (19-sep-17)







Looking Easterly (oblique not to scale) (19-sep-17)



Looking Southerly (oblique not to scale) (19-sep-17)



Rev. 1/16



Looking Southerly (oblique not to scale) (19-sep-17)

## PBF-3 GWFL1 New NAVD88 Brass Tag and Reference Point Close-up (to be added)



Looking Southerly (oblique not to scale) (19-sep-17)





PBF-4 GWFL2 New NAVD88 Brass Tag Close-up (to be added)

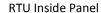


PBF-5 GWFL3 New NAVD88 Brass Tag Close-up (to be added)





Rev. 1/16





Looking Northerly (oblique not to scale) (14-jul-15)

Not a part of the 19-sep-17 work shown for informational purposes only



Aluminum cap stamped

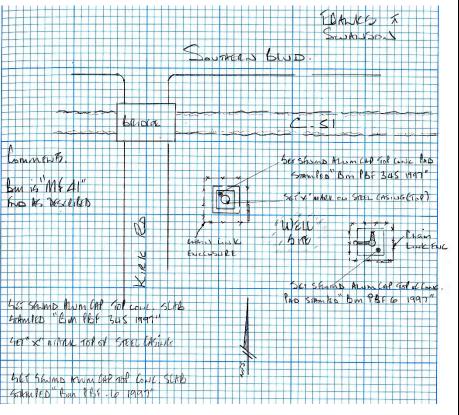
## SOUTH FLORIDA WATER MANAGEMENT DISTRICT

The second second			Rev. 1/16
DESIGNATION: PBF345			PROJECT: LYDAL Well Site
ESTABLISHED BY: <b>SOUTH FLORIDA WA</b> RECOVERED BY:	SURVEYOR: <b>Ebanks</b> DATE: <b>28-apr-97</b>		
	GEOGRAPH	HIC POSITION	
SECTION 6	TOWNSH	IIP <b>44</b> SOUTH	RANGE <b>43</b> EAST
COUNTY: Palm Beach	<u> </u>	NAME OF QUADRA GEOGRAPHIC INDE	
VERTICAL DATUM: MSL 1929 (198		e one) ZONE E or voircle one)	N
STATE PLANE COORDINATE	N (Y)=	E (X)=	NAVD 88 EL. <b>20.001</b> NGVD 29 EL. <b>21.523</b>
CORPSCON 6.0.1 CONVERSION FACTO	R (NAVD88 TO NO	, , , , , , , , , , , , , , , , , , ,	200 201 40 201
LATITUDE: 26° 40' 34.81"		1 = = = = = = = = = = = = = = = = = = =	80° 06' 12.62"
	RECOVI	ERY DATA	
Stamping: <b>PBF 345 1997</b> To Reach: From the intersection of Souther gate opening on the left; turn left and go the station location.  NOTABLE LAND MARKS:			
NGS SOURCE BENCHMARK: MF41 (AD8	183)		
FIELD BOOK PBCoWells 6 PAGES 1			
	014	FTOU	

#### **SKETCH**



Looking Westerly oblique picture Not to Scale (07-jun-10)



DATASHEETS Page 1 of 4

### The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.12.3
1 National Geodetic Survey, Retrieval Date = SEPTEMBER 18, 2017
AD8183 DESIGNATION - MF 41
AD8183 PID - AD8183
AD8183 STATE/COUNTY- FL/PALM BEACH
AD8183 COUNTRY - US
AD8183 USGS OUAD - PALM BEACH (1983)
AD8183
                             *CURRENT SURVEY CONTROL
AD8183
AD8183
AD8183* NAD 83(2011) POSITION- 26 40 39.67483(N) 080 06 14.15549(W) ADJUSTED
AD8183* NAD 83(2011) ELLIP HT- -19.919 (meters) (06/27/12) ADJUSTED
AD8183* NAD 83(2011) EPOCH - 2010.00
AD8183* <u>NAVD 88</u> ORTHO HEIGHT - 6.273 (meters) 20.58 (feet) ADJUSTED
AD8183
AD8183 GEOID HEIGHT - -26.223 (meters)
AD8183 NAD 83(2011) X - 980,124.739 (meters)
AD8183 NAD 83(2011) Y - -5,618,137.962 (meters)
                                                                 GEOID12B
                                                                 COMP
                                                                 COMP
AD8183 NAD 83(2011) Z - 2,846,341.004 (MCCCC),
AD8183 LAPLACE CORR - -3.83 (seconds)

DEFL.

6.263 (meters) 20.55 (feet) COMP
NAVD
                                                                DEFLEC12B
AD8183 MODELED GRAVITY - 979,118.5 (mgal)
                                                                NAVD 88
AD8183
AD8183 VERT ORDER - FIRST CLASS II
AD8183
AD8183 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AD8183 Standards:
AD8183
             FGDC (95% conf, cm) Standard deviation (cm)
             Horiz Ellip SD N SD E SD h (unitless)
AD8183
AD8183 -----
AD8183 NETWORK 2.04 4.06 0.81 0.86 2.07 0.07364402
AD8183 -----
AD8183 Click here for local accuracies and other accuracy information.
AD8183
AD8183
AD8183. The horizontal coordinates were established by GPS observations
AD8183.and adjusted by the National Geodetic Survey in June 2012.
AD8183
AD8183.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
AD8183.been affixed to the stable North American tectonic plate. See
AD8183.NA2011 for more information.
AD8183
AD8183. The horizontal coordinates are valid at the epoch date displayed above
AD8183.which is a decimal equivalence of Year/Month/Day.
AD8183. The orthometric height was determined by differential leveling and
AD8183.adjusted by the NATIONAL GEODETIC SURVEY
AD8183.in January 2014.
AD8183
AD8183. Significant digits in the geoid height do not necessarily reflect accuracy.
```

DATASHEETS Page 2 of 4

```
AD8183.GEOID12B height accuracy estimate available here.
AD8183
AD8183. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AD8183. The Laplace correction was computed from DEFLEC12B derived deflections.
AD8183
AD8183. The ellipsoidal height was determined by GPS observations
AD8183.and is referenced to NAD 83.
AD8183. The dynamic height is computed by dividing the NAVD 88
AD8183.geopotential number by the normal gravity value computed on the
AD8183. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AD8183.degrees latitude (q = 980.6199 \text{ gals.}).
AD8183
AD8183. The modeled gravity was interpolated from observed gravity values.
AD8183. The following values were computed from the NAD 83(2011) position.
AD8183
AD8183;
                          North
                                        East
                                                 Units Scale Factor Converg.
AD8183; SPC FL E AD8183; UTM 17
                   - 260,006.742
                                     289,188.224 MT 1.00003935 +0 24 08.4
                                                                   +0 24 08.4
                   - 853,038.79
                                     948,778.36 sFT 1.00003935
                   - 2,951,050.010 589,157.793 MT 0.99969814 +0 24 08.4
AD8183!
                   - Elev Factor x Scale Factor =
                                                       Combined Factor
                      1.00000313 x 1.00003935 =
AD8183!SPC FL E
                                                       1.00004248
                                       0.99969814 =
AD8183!UTM 17
                       1.00000313 x
                                                       0.99970127
AD8183
AD8183 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK8915751050(NAD 83)
AD8183
AD8183
                               SUPERSEDED SURVEY CONTROL
AD8183
AD8183 NAD 83(2007) - 26 40 39.67498(N)
                                           080 06 14.15607(W) AD(2002.00) 0
AD8183 ELLIP H (02/10/07) -19.898 (m)
                                                              GP(2002.00)
                                          080 06 14.15513(W) AD(
AD8183 NAD 83(1999) - 26 40 39.67574(N)
                                                                     ) 1
AD8183 ELLIP H (07/06/01) -19.944 (m)
                                                                       ) 4 2
                                                              GP(
AD8183 NAD 83(1990) - 26 40 39.67522(N) 080 06 14.15324(W) AD(
                                                                       ) 1
AD8183 ELLIP H (08/13/93) -19.930 (m)
                                                              GP(
AD8183 NAD 83(1990) - 26 40 39.67442(N) 080 06 14.15411(W) AD(
                                                                        ) 1
AD8183 ELLIP H (03/31/93) -19.916 (m)
                                                                        ) 4 1
                                                              GP(
AD8183 NAVD 88 (09/04/92)
                                                          (f) SUPERSEDED 1 2
                            6.275
                                     (m)
                                                  20.59
                             6.74
AD8183 NGVD 29
                                     (m)
                                                  22.1
                                                          (f) LEVELING
AD8183 NGVD 29 (09/01/92) 6.737 (m)
                                                  22.10 (f) ADJUSTED
AD8183
AD8183. Superseded values are not recommended for survey control.
AD8183.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AD8183. See file dsdata.pdf to determine how the superseded data were derived.
AD8183
AD8183 MARKER: DB = BENCH MARK DISK
AD8183 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AD8183 STAMPING: MF 41 1954 JACKSONVILLE
AD8183 MARK LOGO: USE
AD8183 PROJECTION: FLUSH
AD8183 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
AD8183 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AD8183+STABILITY: SURFACE MOTION
AD8183 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AD8183+SATELLITE: SATELLITE OBSERVATIONS - November 01, 2007
AD8183
AD8183 HISTORY
                  - Date
                              Condition
                                               Report By
```

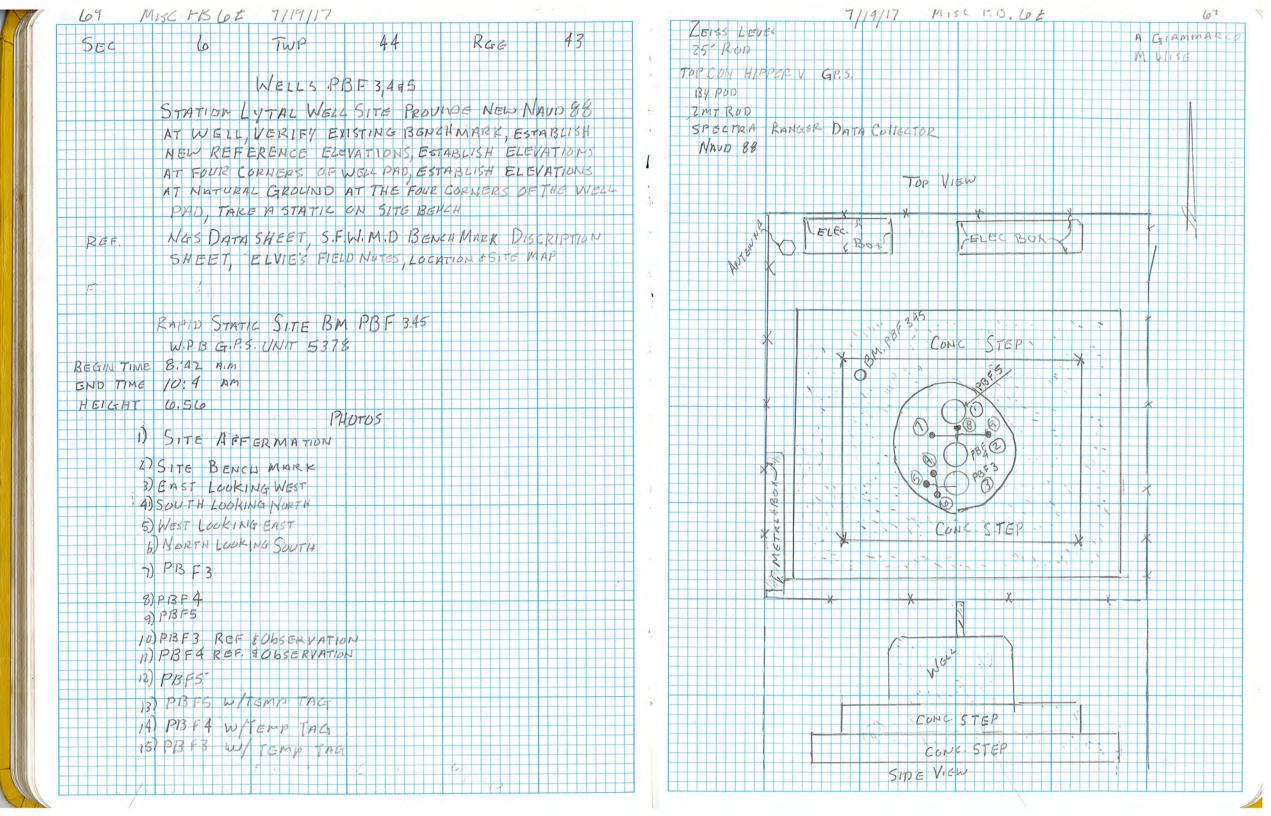
DATASHEETS Page 3 of 4

```
AD8183 HISTORY - 1954 MONUMENTED USE
                    - 19910810 GOOD
AD8183 HISTORY
                                                  ADRGS
AD8183 HISTORY - 19920317 GOOD
AD8183 HISTORY - 20011109 GOOD
AD8183 HISTORY - 20030304 GOOD
AD8183 HISTORY - 20040419 GOOD
AD8183 HISTORY - 20041117 GOOD
AD8183 HISTORY - 20050423 GOOD
AD8183 HISTORY - 20071101 GOOD
                                                  NGS
                                                  USPSQD
                                                  USPSQD
                                                  USPSQD
                                                   FLDEP
                                                  USPSQD
                                                   GCT
AD8183
AD8183
                                   STATION DESCRIPTION
AD8183
AD8183'DESCRIBED BY ADR GEODETIC SERVICES 1991
AD8183'TO REACH THE STATION FROM THE INTERSECTION OF SOUTHERN BOULEVARD
AD8183'(STATE ROUTE 80, US ROUTE 98) AND MILITARY TRAIL (STATE ROUTE 809) IN
AD8183'WEST PALM BEACH, GO EAST ON SOUTHERN BOULEVARD FOR 0.5 MI (0.80 KM)
AD8183'TO KIRK ROAD AND THE STATION IN THE NORTHWEST CORNER OF THE
AD8183'INTERSECTION.
AD8183'THE STATION IS WEST 2.61 FT (0.80 M) FROM A 6 INCH SQUARE CONCRETE
AD8183'MARKER, EAST 5.72 FT (1.74 M) FROM THE NORTHEAST CORNER OF CONCRETE
AD8183'POWER POLE 6-7820-6057-0-6, AND SOUTH 3.38 FT (1.03 M) FROM A NAIL
AD8183'AND TIN TAB IN A POWER POLE.
AD8183
                                   STATION RECOVERY (1992)
AD8183
AD8183'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992
AD8183'IN WEST PALM BEACH, AT THE INTERSECTION OF U.S. HIGHWAY 98 (SOUTHERN
AD8183'BOULEVARD) AND KIRK ROAD, 12.2 M (40.0 FT) WEST OF AND LEVEL WITH THE
AD8183'CENTER OF AN ENTRANCE ROAD TO THE 391ST BOMB GROUP HEADQUARTERS AND
AD8183'EXTENDED CENTER OF THE ROAD, 10.5 M (34.4 FT) NORTH OF THE CENTERLINE
AD8183'OF THE WESTBOUND LANES OF THE HIGHWAY, 1.7 M (5.6 FT) EAST-NORTHEAST
AD8183'OF A UTILITY POLE, 1.1 M (3.6 FT) SOUTH OF A T-JUNCTION UTILITY POLE
AD8183'WITH A GUY CABLE AND WITNESS SIGN ATTACHED, 0.7 M (2.3 FT) WEST OF A
AD8183'RIGHT-OF-WAY MARKER, AND THE MONUMENT IS FLUSH WITH THE GROUND
AD8183'SURFACE.
AD8183
AD8183
                                   STATION RECOVERY (2001)
AD8183'RECOVERY NOTE BY US POWER SQUADRON 2001 (AAS)
AD8183'RECOVERED IN GOOD CONDITION.
AD8183
AD8183
                                   STATION RECOVERY (2003)
AD8183
AD8183'RECOVERY NOTE BY US POWER SOUADRON 2003 (AAS)
AD8183'RECOVERED IN GOOD CONDITION.
AD8183
AD8183
                                  STATION RECOVERY (2004)
AD8183
AD8183'RECOVERY NOTE BY US POWER SQUADRON 2004 (AAS)
AD8183'RECOVERED IN GOOD CONDITION.
AD8183
                                   STATION RECOVERY (2004)
AD8183
AD8183'RECOVERY NOTE BY FL DEPT OF ENV PRO 2004 (JLM)
AD8183'RECOVERED IN GOOD CONDITION.
AD8183'
AD8183'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE
AD8183'MONUMENT.
AD8183
                                   STATION RECOVERY (2005)
AD8183
```

DATASHEETS Page 4 of 4

```
AD8183
AD8183'RECOVERY NOTE BY US POWER SQUADRON 2005 (AAS)
AD8183'RECOVERED IN GOOD CONDITION.
AD8183
AD8183
AD8183
AD8183'RECOVERY NOTE BY GUSTIN, COTHERN, AND TUCKER, I 2007 (HWW)
AD8183'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:03
```



(70) MISC	FB 62 6	1/19/17				7/19/17 MISC HB 62
556	6					MAUD 88 A. GIAMMARC
72-	a l	TWA	44	RGE	43	. M.U.V.SE
		CONTINUE	D FROM PAIDT			
	,		SITE BENCH	r 1		
BM	+	HI		ELEV		Comment
M F41		27,69		20,58		FD U.S. CORP. EMG BRASS DISK SET IN CONC. STAMPED M.F 41 1954
	7.11	21161				
			6.60	21.09		
	3.85	24.94				
2 30 - 1			4,94	20.00	20.001	FD S CIVINAD DV 10.46 C
PBF 345			37) ( 4	40.00	201001	FD S. F. W. M. D. ALUMN DISK SET IN SECOND LEVEL CONG, STED AT
						THE NORTH WEST CORNER STAMPED B.M. PBF 345 19.97
224245				20.00		
P13 F 3 4 5				20.00		
	4.73	24.73				
	117	49.10				
P+#1			2.62	22.11	P13 F5	CIW FL3 REF
(1) H2			0.53	24.2	P13 F 4	
PTH3						
			0,87	23.86	1713 - 3	CTWF4 REF
PT#4			0.87	23.86	PB F3	GWFL1 0135
PTP5			0.87	23.56	PB F3	GWFLI REF
			0.87	23.86	P13 F3	GWFI REF
12746			0.07			
p7167			0.52	24.21	PBF4	GWF2 0135
PT#8			0.52	24,21	1213 F4 1213 F4	COUFERE
197789			0.52	7/7/	12/8/=4	CTWF2 REF
1 1			0,74	49,41	1011	CIWIE KEE
		Cont	PG-71			
		C - 711 /	1 4 4			

W I	NIISCFB 6	2 7/19/				Zeiss Niz	FROL	9/19/17	A GIAMMA
SEC	6	Tup	44	RGE 43		26' ROD			
		122-20	1/21.6						M W/136
		Lyrna				NAVO 88			
		CONT. FROM	PG-70						
		KDTAW	PAD & CTROWN	n					
		DISTAIN	TAD & CREDGE						
		ELEV. AI	ROLIND WELL						
BM	7	HI	>	ELEV					
271	7/	117-		20,00					
	226	23.29		20,00					
	3.29	25.29				CONCPAD			
			3.33	19,96	N.E COR	2010			
			y 4, 29	19.00	STEP				
			50	18.3	GND				
			×3·32	19,97	S.E COR	CONC PAD			
			x4,25	18.77	STEP				
			5,20	18.1	GND				
				19.96	S.W COR	CONK PAD			
			73,33		STEP				
			14.25	19.04					
			5,3	18.0	GND	1 1200			
			3.34	19,95	N.W COR	Cons. PAD			
			4,23	19.06	STEP				
			4.9	18.39	CIMO				
				.,,,,,					
		Cas D	0010106	, <del>Z</del>					
		366 0	RAVOITA	,					
		PC 6	9 MISCF. 106	, £					

From: opus

To: Ehmke, Howard

 Subject:
 OPUS solution : log0919m.tps OP1505914573657

 Date:
 Wednesday, September 20, 2017 9:37:30 AM

FILE: log0919m.tps OP1505914573657

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

2005 NOTE: The IGS precise and IGS rapid orbits were not available

2005 at processing time. The IGS ultra-rapid orbit was/will be used to

2005 process the data.

2005

#### NGS OPUS SOLUTION REPORT

\_\_\_\_\_

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

For additional information: <a href="https://www.ngs.noaa.gov/OPUS/about.jsp#accuracy">https://www.ngs.noaa.gov/OPUS/about.jsp#accuracy</a>

USER: hehmke@sfwmd.gov DATE: September 20, 2017

RINEX FILE: log0262m.170 TIME: 13:37:10 UTC

SOFTWARE: page5 1603.24 master92.pl 160321 START: 2017/09/19 12:41:00

EPHEMERIS: igu19672.eph [ultra-rapid] STOP: 2017/09/19 14:43:00 NAV FILE: brdc2620.17n OBS USED: 5283 / 5534 : 95% ANT NAME: NONE NONE #FIXED AMB: 33 / 38 : 87%

ARP HEIGHT: 1.5 OVERALL RMS: 0.017(m)

X: 980177.858(m) 0.018(m) 980177.060(m) 0.018(m) Y: -5618197.078(m) 0.033(m) -5618195.488(m) 0.033(m) Z: 2846207.665(m) 0.009(m) 2846207.499(m) 0.009(m)

LAT: 26 40 34.81860 0.008(m) 26 40 34.83865 0.008(m) E LON: 279 53 47.36965 0.015(m) 279 53 47.35108 0.015(m) W LON: 80 6 12.63035 0.015(m) 80 6 12.64892 0.015(m) EL HGT: -19.624(m) 0.035(m) -21.221(m) 0.035(m)

ORTHO HGT: 6.597(m) 0.061(m) [NAVD88 (Computed using GEOID12B)]

#### UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 17) SPC (0901 FL E)

Northing (Y) [meters] 2950900.893 259857.574 Easting (X) [meters] 589200.998 289231.443

8 259857.574 Y=852549.3906983332 X=948920.1592424999

Convergence [degrees] 0.40250656 0.40250656

Point Scale 0.99969823 1.00003944 Combined Factor 0.99970131 1.00004252

US NATIONAL GRID DESIGNATOR: 17RNK8920050900(NAD 83)

#### BASE STATIONS USED

PID DESIGNATION LATITUDE LONGITUDE DISTANCE(m)
DE9138 OKCB OKEECHOBEE CORS ARP N271557.715 W0805119.181 99197.7
D08520 CN15 GRANDBAHAMCR2011 CORS ARP 141084.2
DF9225 ZMA1 MIAMI WAAS 1 CORS ARP N254928.585 W0801909.066 96792.4

NEAREST NGS PUBLISHED CONTROL POINT
AD8183 MF 41 N264039.674 W0800614.155 155.3

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**

18 September 2017

#### **INPUT**

Geographic, flhpgn - Florida HPGN Vertical - NAVD88, U.S. Feet

#### **OUTPUT**

State Plane, flhpgn - Florida HPGN 0901 - Florida East, U.S. Feet Vertical - NGVD29 (Custom), U.S. Feet

**PBF-3,PBF-4 & PBF-5** 

1/1

Latitude: 26 40 34.82 Northing/Y: 852549.525 Longitude: 80 06 12.64 Easting/X: 948919.283 Elevation/Z: 1.516

Elevation/Z: 0

Convergence: 0 24 09.01931

**Scale Factor:** 1.000039440 **Combined Factor:** 1.000043481

Remark:



# **DBHYDRO** | by station

	STATION INFORMATION						
Station	PBF-3						
Site	LYTAL						
Туре	SUBSTATION						
Latitude (ddmmss.sss)	264034.82						
Longitude (ddmmss.sss)	800612.63						
X Coord (ft) NAD83	948920.094						
Y Coord (ft) NAD83	852549.445						
County	Palm Beach						
Basin	C-51 EAST						
Section	6						
Township	44						
Range	43						
Show Map	Google Map						
Well Info	<u>Info</u>						
Description	Substation of LYTAL-TW (1050-1252 ft bls)						
Notes							
Nearby Stations	Nearby Stations						
Attachments	None Available						
	Query returned 1 station record(s).						
Get Sa	mple Data Get Time Series Data						

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# **DBHYDRO** | by station

	STATION INFORMATION					
Station	PBF-4					
Site	LYTAL					
Туре	SUBSTATION					
Latitude (ddmmss.sss)	264034.82					
Longitude (ddmmss.sss)	800612.63					
X Coord (ft) NAD83	948920.094					
Y Coord (ft) NAD83	852549.445					
County	Palm Beach					
Basin	C-51 EAST					
Section	6					
Township	44					
Range	43					
Show Map	Google Map					
Well Info	<u>Info</u>					
Description	Substation of LYTAL-TW (1360-1510 ft bls)					
Notes						
Nearby Stations	Nearby Stations					
Attachments	None Available					
	Query returned 1 station record(s).					
Get Sa	mple Data Get Time Series Dat	а				

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# **DBHYDRO** | by station

	STATION INFORMATION						
Ct. II							
Station	PBF-5						
Site	LYTAL						
Туре	SUBSTATION						
Latitude (ddmmss.sss)	264034.82						
Longitude (ddmmss.sss)							
X Coord (ft) NAD83	948920.094						
Y Coord (ft) NAD83	852549.445						
County	Palm Beach						
Basin	C-51 EAST						
Section	6						
Township	44						
Range	43						
Show Map	Google Map						
Well Info	<u>Info</u>						
Description	Substation of LYTAL-TW (2340-2490 ft bls)						
Notes							
Nearby Stations	Nearby Stations						
Attachments	None Available						
-	Query returned 1 station record(s).						
Get Sa	mple Data Get Time Series Data						

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#### **REGISTRATION WORKSHEET - LYTAL Addendum** LYTAL Type Recorder: CR1000 Site Name: Today's Date: 9/20/2017 Effective Date: 9/19/2017 Start Date of Data: Activity: Addendum 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: LYTAL Proj. Mgr. Notes: This addendum was performed to add NAVD 88 surveying data for the reference elevation. To convert to NGVD 29 add +1.516ft. The site is located approximately 300 yards east of pumping station S140. Site Directions: Site Address (if any): Std Vehicle Lock type or combination: Transportation: Abloy S Recorder Location/Purpose: Stand-Alone Recorder (Non-Flow Site) Structure Type: Array ID Configuration table attached NO SURVEY INFORMATION Date: 4/28/1997 Stamp: SFWMD B.M. Elevation: BM PBF345 1997 NAVD 88 Agency: #REF! Type: ALUM Datum: Benchmark Location/ Description 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			Top of	Bottom	Ground	Benchmark	Benchmark	
Sensor	Ref	Ref Elev	Elev Date	Well	of Well	Elev	Elev	Datum	Ref Elevation Location
GW1	PBF-3	23.86	9/19/2017	23.86		18.3	20.001	NAVD 88	Top of 1/4" 90 degree stainless steel elbow
GW2	PBF-4	24.2	9/19/2017	24.2		18.3	20.001	NAVD 88	Top of 1/4" 90 degree stainless steel elbow
GW3	PBF-5	22.11	9/19/2017	22.11		18.3	20.001	NAVD 88	Top of 1/4" 90 degree stainless steel elbow

		GW Sensor					Top of	Base of						
		Location	Meas Pt	GW Land	Depth of	Type of	Monitored	Monitored	Parameter					
5	ensor	Offset	Elevation	Elevation	Well	Well	Interval	Interval	Transmitted					
(	W1													
(	SW2													
(	SW3													

#### COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
GW1	26 40 34.82	90 06 12.63			6	44	43	Palm Beach		Palm Beach	
GW2	26 40 34.82	80 06 12.63			6	44	43	Palm Beach		Palm Beach	
GW3	26.40.34.82	80 06 12 63			6	44	//3	Palm Beach		Palm Reach	