

Rev. 1/16

DB Hydro Station Name: IWA	-MZL		DB Hydro Site Name:	IWAM	ZL	Agency: <b>WMD</b>	Date of	Field Work: <b>26-oct-17</b>	
Party Chief: Wise			Field Book: Misc 7E	Pages	26-2	29	Prepare	d by: <b>H. Ehmke</b>	
			SITE SP	ECIFIC	DATA				
Site Benchmark: Bei			chmark Elevation (NAVI	088)	Corp	scon 6.0.1 Conve	rsion Factor (	NAVD88 to NGVD29)	
IWAMZL 6.10			+1.175			.75			
Reference Elevation(s) (NAVI	Reference Elevation(s) (NAVD88):			Existing Brass Tag Elevation (Datum):			Calibration Port Elevation(s) (NAVD88):		
IWA-MZL (GW1) El. 9.45			None				Not Applic	able	
Ground Elevation (NAVD88):			Pad Elevation (NAVI			ion (NAVD88):			
North side El. <b>5.7</b>	East side	El.	5.7 North		th side El. <b>6.14</b>		East side	El. <b>6.13</b>	
West side El. <b>5.7</b>	South side	e El.	. <b>5.7</b> West side El. <b>6.1</b>			El. <b>6.12</b>	South si	de El. <b>6.14</b>	
	GEOOGI	RAPHIC	DATA	4					
Section 21			Township <b>46</b> South			Range 22 E	ast		
Benchmark Latitude: 2			26°26′31.746"	Long	gitude	e: <b>82°06′37.554</b>	" Source	: OPUS Solution	

#### Notes:

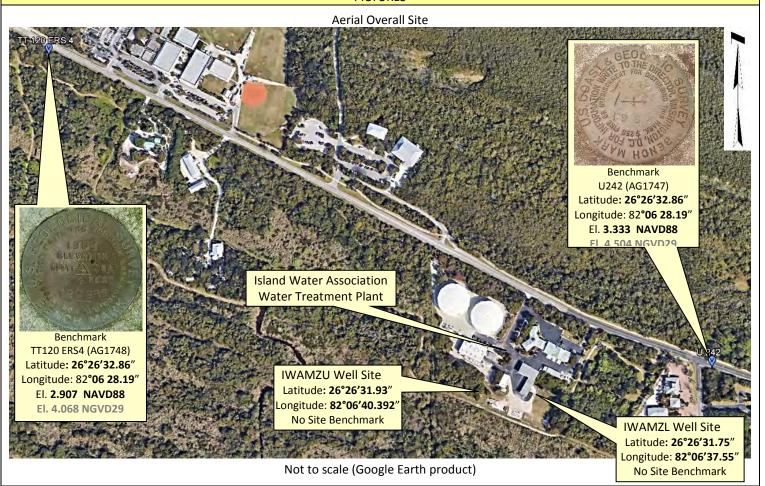
OPUS - Online Positioning User Service provided by the National Geodetic Survey (NGS)

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**

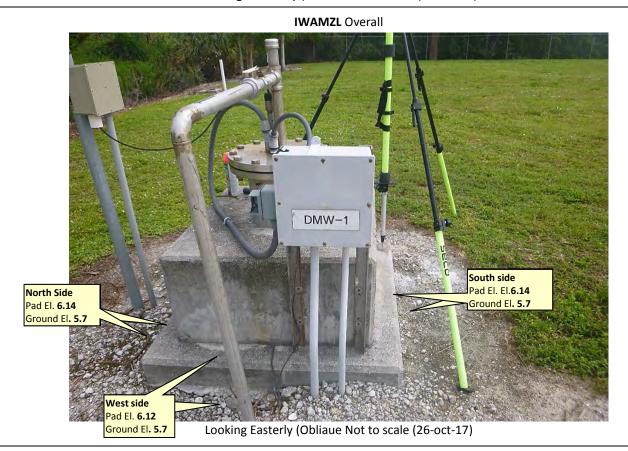




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#### Looking Northerly (Obliaue Not to scale (26-oct-17)





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#### IWAMZL Well Reference Point



Looking Northwesterly (Obliaue Not to scale (26-oct-17)

### RTU Inside Door



Looking Northwesterly (Obliaue Not to scale (26-oct-17)



Rev. 1/16

NAVD88 Brass Tag (to be added)





Rev. 1/16

DB Hydro Station Name: IV	VA-MZU	DB Hydro Site Name:	IWAMZU	Agency: WMD	Date of Field Work: <b>26-oct-17</b>				
Party Chief: Wise		Field Book: Misc 7E	Page(s) 2	26-29	Prepared by: <b>H. Ehmke</b>				
SITE SPECIFIC DATA									
Site Benchmark:	enchmark Elevation (NAV	D88) Co	Corpscon 6.0.1 Conversion Factor (NAVD88 to NGVD29)						
IWAMZL	6.	163	+1	.175					
Reference Elevation(s) (NA	Existing Brass Tag Ele	vation (Dat	um):	Calibration Port Elevation(s) (NAVD88):					
IWA-MZU (GW1) El. 5.80		None			581				
Ground Elevation (NAVD88	3):		Pad Eleva	ition (NAVD88):					
North side El. <b>3.9</b>	East side E	El. <b>4.0</b>	North sid	e El. <b>4.46</b>	East side El. <b>4.47</b>				
West side El. 3.9	South side E	il. <b>4.0</b>	West side	e El. <b>4.48</b>	South side El. 4.48				
		GEOOG	RAPHIC DA	TA					
Section 21		Township <b>46</b> South	Township <b>46</b> South		Range <b>22</b> East				
Well	Latitude:	26°26′31.93"	Longitud	de: <b>82º06'40.392</b>	" Source: Scaled from Google Earth				
	•		•		•				

#### Notes:

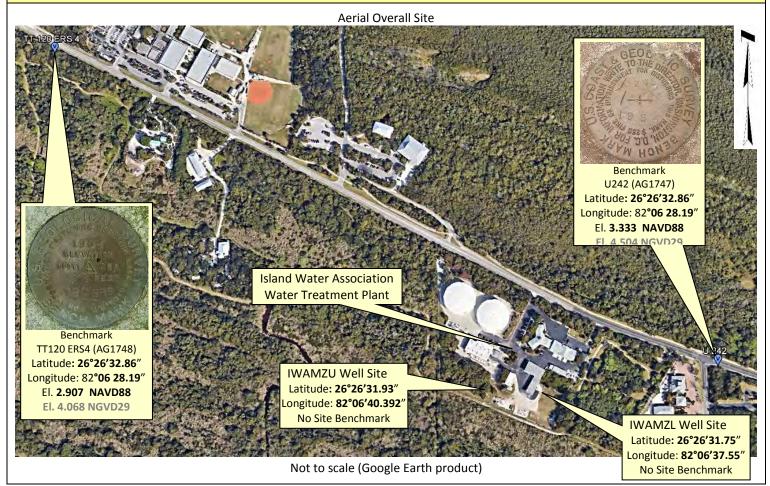
**OPUS** – Online Positioning User Service provided by the National Geodetic Survey (NGS)

NAVD88 - North American Vertical Datum of 1988

NGVD29- National Geodetic Vertical Datum of 1929

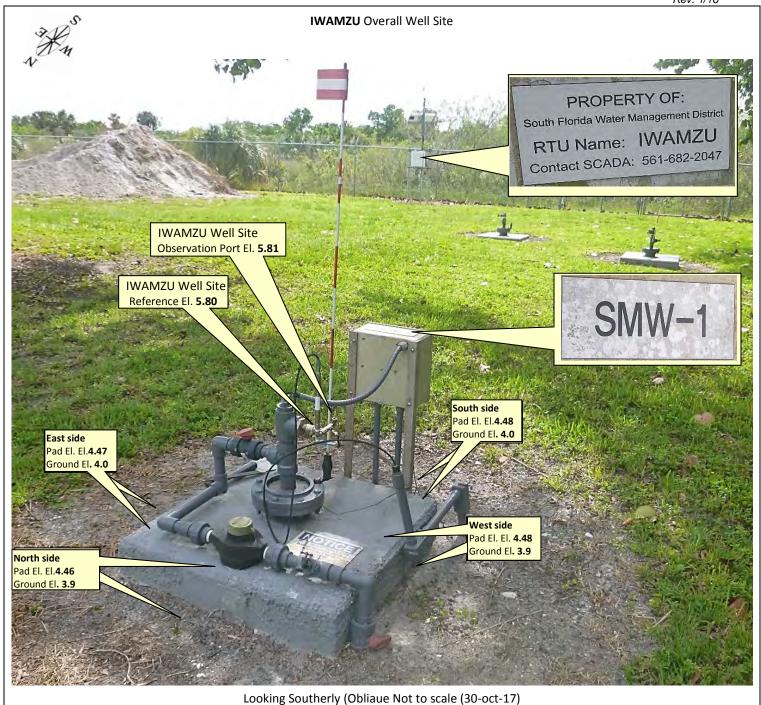
**Corpscon 6.0.1** - A U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windowsbased program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of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

#### **PICTURES**



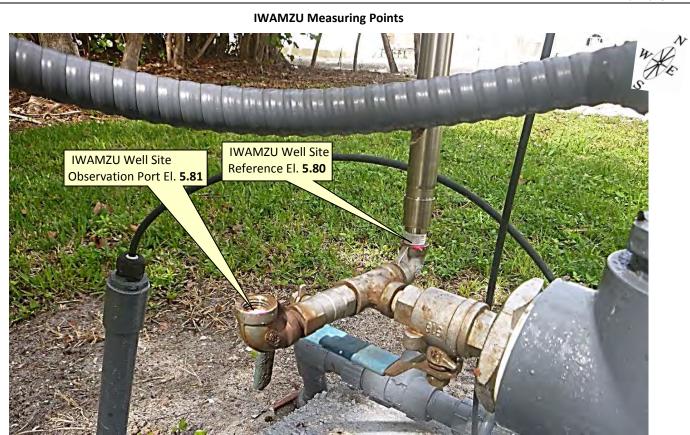


Rev. 1/16





Rev. 1/16



Looking Northwesterly (Obliaue Not to scale (30-oct-17)



Looking Southerly (Obliaue Not to scale (30-oct-17)



Rev. 1/16

NAVD88 Brass Tag (to be added)





Rev. 1/16

DESIGNATION: IWAMZL PROJECT: IWAMZL Well site SURVEYOR: Michael Wise ESTABLISHED BY: SOUTH FLORIDA WATER MANAGEMENT DISTRICT DATE: **26-oct-17 RECOVERED BY: GEOGRAPHIC POSITION** SECTION 21 TOWNSHIP 46 SOUTH RANGE 22 EAST NAME OF QUADRANGLE: Sanibel COUNTY: Lee GEOGRAPHIC INDEX OF QUAD: 2017 HORIZONTAL DATUM: 1927 (1983) Other (circle one) ZONE (E) or W VERTICAL DATUM: MSL 1929 **1988** Other (circle one) VERTICAL ACCURACY: 1 2 (3) STATE PLANE NAVD 88 EL. **6.163** 

STATE PLANE (N) Y= **767969.698** (E) X= **292809.700** NAVD 88 EL. **6.163** NGVD 29 EL. **7.329** 

CORPSCON 6.0.1 CONVERSION FACTOR (NAVD88 TO NGVD29): +1.175

LATITUDE: 26°26'31.7828" LONGITUDE: 82°06'37.53"

#### RECOVERY DATA

#### Stamping: IWAMZL B-M 2017

To Reach: From the intersection of Causeway Boulevard and Periwinkle Way in Sanibel, go west on Periwinkle Way, 2.7 miles to Tarpon Bay Road; turn right onto Tarpon Bay Road and go North, 0.3 of a mile to Sanibel Captiva Road; turn left onto Sanibel Captiva Road and go Westerly 2 miles to the second entrance to Island Water Association, Inc. Water Treatment Plant; turn left at the second water plant entrance (paved). Proceed westerly 120 feet to an automated gate and call box (call box and red phone); After calling and gaining access proceed 150 feet to a "T" intersection; Turn left and proceed 70 feet to an "L" shaped storage building on a raised area; Turn right, proceed southerly to the south side of "L" shaped building along the pavement area continue 75 feet around the "L" shaped building to the back side of building and end of pavement, and station location 21 feet from the edge of pavement and well site.

The station is South Florida Water Management District aluminum survey disk grouted into the southeast corner of the concrete well pad, stamped "IWAMZL B-M 2017."

NGS SOURCE BENCHMARK: **U242** (AG1747) and **TT20 ERS4** (AG1747)

FIELD BOOK: Misc 7E PAGES 26-29

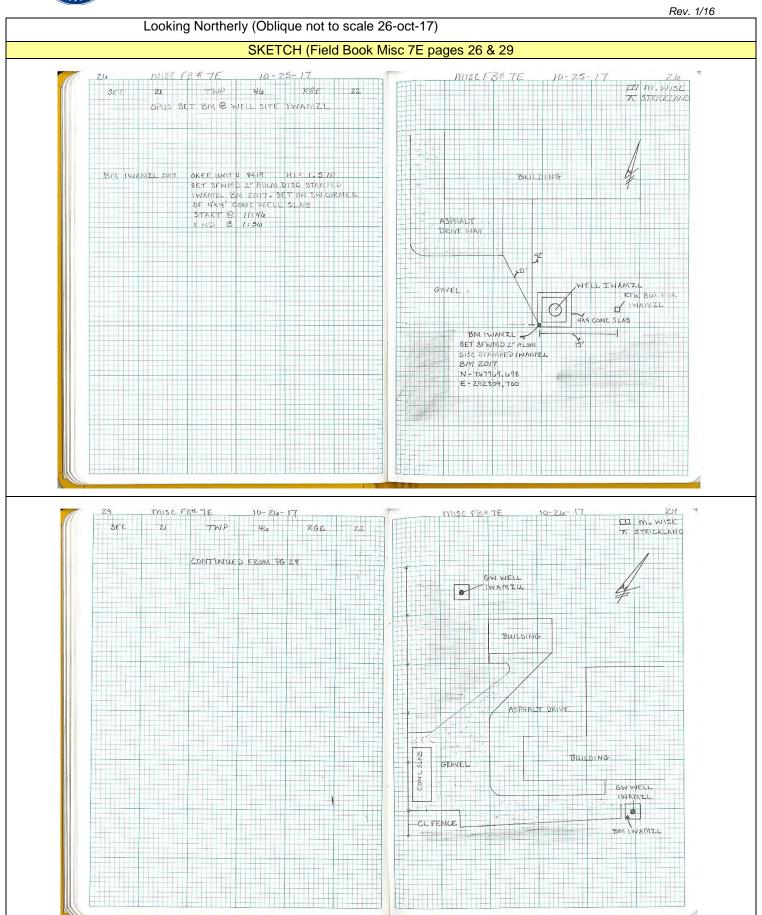
# PICTURES Overall Site



IWAMAL BOM 2017

Aluminum cap stamped "IWAMZL B-M 2017"
El. 6.163 NAVD88
El. 7.329 NGVD29





DATASHEETS Page 1 of 4

## The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.12.1
        National Geodetic Survey, Retrieval Date = JUNE 30, 2017
AG1747 DESIGNATION - U 242
AG1747
       PID
                      AG1747
                                                                       3.333
AG1747 STATE/COUNTY- FL/LEE
AG1747 COUNTRY
                - US
AG1747 USGS QUAD
                    - SANIBEL (1987)
AG1747
AG1747
                               *CURRENT SURVEY CONTROL
AG1747
AG1747* NAD 83(1986) POSITION- 26 26 32.91
                                            (N) 082 06 28.0
                                                                (W)
                                                                     HD HELD1
AG1747* NAVD 88 ORTHO HEIGHT -
                                                         3.33
                                                               (feet) ADJUSTED
                                   1.016 (meters)
AG1747
AG1747 GEOID HEIGHT
                                 -23.537 (meters)
                                                                     GEOID12B
AG1747 DYNAMIC HEIGHT -
                                                               (feet) COMP
                                   1.015 (meters)
                                                         3.33
AG1747 MODELED GRAVITY -
                             979,076.3
                                         (mgal)
                                                                     NAVD 88
AG1747
AG1747 VERT ORDER
                        - FIRST
                                     CLASS I
AG1747
AG1747. The horizontal coordinates were determined by differentially corrected
AG1747.hand held GPS observations or other comparable positioning techniques
AG1747.and have an estimated accuracy of +/- 3 meters.
AG1747.
AG1747. The orthometric height was determined by differential leveling and
AG1747.adjusted by the NATIONAL GEODETIC SURVEY
AG1747.in June 1991.
AG1747
AG1747. Significant digits in the geoid height do not necessarily reflect accuracy.
AG1747.GEOID12B height accuracy estimate available here.
AG1747
AG1747. Photographs are available for this station.
AG1747
AG1747. The dynamic height is computed by dividing the NAVD 88
AG1747.geopotential number by the normal gravity value computed on the
AG1747. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AG1747.degrees latitude (g = 980.6199 \text{ gals.}).
AG1747
AG1747. The modeled gravity was interpolated from observed gravity values.
AG1747
AG1747;
                           North
                                         East
                                                 Units Estimated Accuracy
AG1747; SPC FL W
                        233,638.9
                                      189,249.5
                                                       (+/- 3 \text{ meters HH1 GPS})
AG1747 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RLK8954925162(NAD 83)
AG1747
AG1747
                                SUPERSEDED SURVEY CONTROL
AG1747
AG1747 NGVD 29 (??/??/92)
                              1.373 (m)
                                                    4.50
                                                           (f) ADJ UNCH
                                                                          1 1
AG1747. Superseded values are not recommended for survey control.
AG1747
```

DATASHEETS Page 2 of 4

```
AG1747.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AG1747. See file dsdata.pdf to determine how the superseded data were derived.
AG1747 MARKER: DB = BENCH MARK DISK
AG1747 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AG1747 STAMPING: U 242 1965
AG1747 MARK LOGO: CGS
AG1747 PROJECTION: FLUSH
AG1747 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
AG1747 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AG1747+STABILITY: SURFACE MOTION
AG1747 SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
AG1747+SATELLITE: SATELLITE OBSERVATIONS - January 08, 2016
AG1747
AG1747 HISTORY - Date Condition
AG1747 HISTORY - 1965 MONUMENTED
AG1747 HISTORY - 1974 GOOD
AG1747 HISTORY - 1983 GOOD
AG1747 HISTORY - 1987 GOOD
AG1747 HISTORY - 1989 GOOD
AG1747 HISTORY - 1990 GOOD
AG1747 HISTORY - 1990 GOOD
AG1747 HISTORY - 19960120 GOOD
AG1747 HISTORY - 19980220 GOOD
AG1747 HISTORY - 19980220 GOOD
AG1747 HISTORY - 20020814 GOOD
AG1747 HISTORY - 20040310 GOOD
AG1747 HISTORY - 20060209 GOOD
AG1747 HISTORY - 20081002 GOOD
AG1747 HISTORY - 20081002 GOOD
AG1747 HISTORY - 20151130 GOOD
AG1747 HISTORY - 20160108 GOOD
AG1747 HISTORY - 20160108 GOOD
AG1747
                                                           Report By
                                                           CGS
                                                           NGS
                                                           LOCSUR
                                                          USPSQD
                                                           USPSQD
                                                           USPSQD
                                                          USPSQD
                                                          USPSQD
                                                          USPSQD
                                                          USPSQD
                                                           FLDEP
                                                           INDIV
                                                           GEOCAC
AG1747
                                        STATION DESCRIPTION
AG1747
AG1747
AG1747'DESCRIBED BY COAST AND GEODETIC SURVEY 1965
AG1747'5.8 MI W FROM SANIBEL.
AG1747'ABOUT 3.85 MILES WEST ALONG PERIWINKLE WAY FROM THE POST OFFICE
AG1747'AT SANIBEL, THENCE 2.0 MILES NORTH AND WEST ALONG STATE HIGHWAY
AG1747'S 867, ALONG SANIBEL ISLAND, IN SECTION 21, R 22 E, T 46 S, 0.6
AG1747'MILE EAST OF THE SANIBEL ELEMENTARY SCHOOL, NEAR THE JUNCTION
AG1747'OF RABBIT ROAD, 61 FEET EAST OF THE CENTER LINE OF RABBIT ROAD,
AG1747'34 FEET SOUTH OF THE CENTER LINE OF THE HIGHWAY, 50.3 FEET
AG1747'NORTHWEST OF THE NORTHWEST CORNER OF THE SANIBEL FIRE CONTROL
AG1747'BUILDING, 41 FEET WEST OF THE CENTER LINE OF THE DRIVE LEADING
AG1747'TO THE FIRE HOUSE AND ABOUT 0.5 FOOT ABOVE THE LEVEL OF THE
AG1747'HIGHWAY.
AG1747
                                        STATION RECOVERY (1974)
AG1747
AG1747
AG1747'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1974
AG1747'RECOVERED IN GOOD CONDITION.
AG1747
AG1747
                                        STATION RECOVERY (1983)
AG1747
AG1747'RECOVERY NOTE BY LOCAL SURVEYOR (INDIVIDUAL OR FIRM) 1983
AG1747'STATION IS AT GROUND LEVEL. STATION IS LOCATED ON SANIBEL ISLAND, FL.
AG1747'FROM POST OFFICE GO NORTH ON TARPON BAY RD. 1.000' TURN LEFT ON
AG1747'SANIBEL-CAPTIVA RD. GO WEST 1-3/4 MILES. STATION IS ON THE SOUTH SIDE
AG1747'48 FEET EAST OF RABBIT RD AND 19 FEET SOUTH OF THE EDGE OF THE
AG1747'PAVEMENT OF SANIBEL-CAPTIVA RD. STATION IS 46' NORTHWEST OF THE
AG1747'NORTHWEST CORNER OF A SMALL UNUSED FIRE STATION. WITNESS POST IS
AG1747'INTACT.
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```
AG1747
AG1747
                                STATION RECOVERY (1987)
AG1747
AG1747'RECOVERY NOTE BY US POWER SQUADRON 1987 (KMH)
AG1747'RECOVERED IN GOOD CONDITION.
AG1747
                                STATION RECOVERY (1989)
AG1747
AG1747'RECOVERY NOTE BY US POWER SQUADRON 1989 (ASK)
AG1747'RECOVERED IN GOOD CONDITION.
AG1747
AG1747
                                STATION RECOVERY (1990)
AG1747
AG1747'RECOVERY NOTE BY US POWER SOUADRON 1990 (ASK)
AG1747'RECOVERED IN GOOD CONDITION.
AG1747
AG1747
                                STATION RECOVERY (1996)
AG1747
AG1747'RECOVERY NOTE BY US POWER SQUADRON 1996
AG1747'RECOVERED IN GOOD CONDITION.
AG1747
AG1747
                                STATION RECOVERY (1998)
AG1747
AG1747'RECOVERY NOTE BY US POWER SOUADRON 1998
AG1747'RECOVERED IN GOOD CONDITION.
AG1747
                                STATION RECOVERY (2002)
AG1747
AG1747
AG1747'RECOVERY NOTE BY US POWER SQUADRON 2002 (JHS)
AG1747'PREVIOUS DESCRIPTION ADEQUATE WITH THE FOLLOING EXCEPTIONS. STATION
AG1747 IS 63' EAST OF CENTERLINE OF RABBIT ROAD AND 32' SOUTH OF THE
AG1747'CENTERLINE OF SANIBEL-CAPTIVA ROAD. FIRE STATION IS NO LONGER THERE.
AG1747'WITNESS POST INTACT.
AG1747
AG1747
                                STATION RECOVERY (2004)
AG1747
AG1747'RECOVERY NOTE BY US POWER SQUADRON 2004 (YN)
AG1747'RECOVERED AS DESCRIBED.
AG1747
AG1747
                                STATION RECOVERY (2006)
AG1747
AG1747'RECOVERY NOTE BY US POWER SQUADRON 2006 (EGH)
AG1747'RECOVERED IN GOOD CONDITION.
AG1747
AG1747
                                STATION RECOVERY (2008)
AG1747
AG1747'RECOVERY NOTE BY FL DEPT OF ENV PRO 2008 (JLM)
AG1747'THE MARK IS ABOUT 7.4 MI (11.9 KM) SOUTHEAST OF CAPTIVA, 5.3 MI (8.5
AG1747'KM) WEST OF SANIBEL, 5.1 MI (8.2 KM) EAST-SOUTHEAST OF WULFERT, IN
AG1747'SECTION 2, TOWNSHIP 46 SOUTH, RANGE 21 EAST.
AG1747'TO REACH THE MARK FROM THE JUNCTION OF CAUSEWAY ROAD NORTH AND
AG1747'PERIWINKLE WAY, IN SANIBEL, GO SOUTHWEST ON PERIWINKLE WAY (MAIN
AG1747'STREET) FOR 2.55 MI (4.1 KM) TO THE JUNCTION OF PALM RIDGE ROAD ON THE
AG1747'RIGHT, BEAR RIGHT ON PALM RIDGE ROAD AND GO NORTHWEST FOR 0.35 MI (0.6
AG1747'KM) TO THE INTERSECTION OF TARPON BAY ROAD (AT THE FOUR WAY STOP
AG1747'SIGN). CONTINUE WESTERLY ON CAPTIVA BOULEVARD FOR 1.75 MI (2.8 KM) TO
AG1747'THE MARK ON THE LEFT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT
AG1747'FLUSH WITH THE GROUND AND LEVEL WITH CAPTIVA BOULEVARD.
AG1747'
```

DATASHEETS Page 4 of 4

AG1747'LOCATED 64.5 FT (19.7 M) EAST OF THE CENTERLINE OF RABBIT ROAD, 42.7 AG1747'FT (13.0 M) WEST OF THE EAST END OF A METAL GUARDRAIL, 32.5 FT (9.9 M) AG1747'SOUTH OF THE CENTERLINE OF CAPTIVA BOULEVARD, 4.0 FT (1.2 M) SOUTH OF AG1747'A METAL GUARDRAIL AND 1.0 FT (0.3 M) NORTH OF A METAL WITNESS POST. AG1747'

AG1747'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE AG1747'MONUMENT.

AG1747

AG1747 STATION RECOVERY (2015)

AG1747

AG1747'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2015 (KW)

AG1747'RECOVERED IN GOOD CONDITION.

AG1747

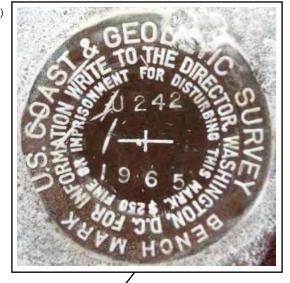
AG1747 STATION RECOVERY (2016)

AG1747

AG1747'RECOVERY NOTE BY GEOCACHING 2016 (RLM)

AG1747'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete. Elapsed Time = 00:00:02





DATASHEETS Page 1 of 3

## The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
       National Geodetic Survey, Retrieval Date = JANUARY 10, 2016
AG1748 DESIGNATION - TT 120 ERS 4
AG1748 PID
               - AG1748
AG1748 STATE/COUNTY- FL/LEE
AG1748 COUNTRY - US
AG1748 USGS OUAD
                  - SANIBEL (1987)
AG1748
AG1748
                               *CURRENT SURVEY CONTROL
AG1748
AG1748* NAD 83(1986) POSITION- 26 26 48.86
                                          (N) 082 07 05.01
                                                               (W)
                                                                    HD HELD1
AG1748* NAVD 88 ORTHO HEIGHT -
                                  0.886 (meters)
                                                        2.91
                                                              (feet) ADJUSTED
AG1748
AG1748 GEOID HEIGHT
                                -23.531 (meters)
                                                                    GEOID12B
AG1748 DYNAMIC HEIGHT -
                                  0.885 (meters)
                                                        2.90
                                                             (feet) COMP
AG1748 MODELED GRAVITY -
                           979,077.0 (mgal)
                                                                    NAVD 88
AG1748
AG1748 VERT ORDER
                      - FIRST
                                    CLASS I
AG1748
AG1748. The horizontal coordinates were determined by differentially corrected
AG1748.hand held GPS observations or other comparable positioning techniques
AG1748.and have an estimated accuracy of \pm 3 meters.
AG1748. The orthometric height was determined by differential leveling and
AG1748.adjusted by the NATIONAL GEODETIC SURVEY
AG1748.in June 1991.
AG1748
AG1748. Significant digits in the geoid height do not necessarily reflect accuracy.
AG1748.GEOID12B height accuracy estimate available here.
AG1748. The dynamic height is computed by dividing the NAVD 88
AG1748.geopotential number by the normal gravity value computed on the
AG1748. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AG1748.degrees latitude (g = 980.6199 \text{ gals.}).
AG1748
AG1748. The modeled gravity was interpolated from observed gravity values.
AG1748
                                                Units Estimated Accuracy
AG1748;
                          North
                                        East
AG1748; SPC FL W
                       234,130.6
                                     188,226.0
                                               MT (+/-3 \text{ meters HH1 GPS})
AG1748
AG1748
                               SUPERSEDED SURVEY CONTROL
AG1748
AG1748 NGVD 29 (??/??/92)
                                                        (f) COMPUTED
                             1.24
                                                   4.1
                                    (m)
AG1748. Superseded values are not recommended for survey control.
AG1748
AG1748.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AG1748. See file dsdata.txt to determine how the superseded data were derived.
AG1748
AG1748 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RLK8852925661(NAD 83)
AG1748
AG1748 MARKER: DB = BENCH MARK DISK
AG1748 SETTING: 9 = SET IN PREFABRICATED CONCRETE POST IMBEDDED IN GROUND
AG1748 STAMPING: TT 120 ERS 4 1952
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AG1748 MARK LOGO: USGS
AG1748 PROJECTION: FLUSH
AG1748 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
AG1748 STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
AG1748 SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
AG1748+SATELLITE: SATELLITE OBSERVATIONS - October 31, 2008
AG1748
AG1748 HISTORY - Date Condition
AG1748 HISTORY - 1952 MONUMENTED
                                                        Report By
                                                       USGS
AG1748 HISTORY - 1952 MONUMENTED USGS
AG1748 HISTORY - 1965 GOOD CGS
AG1748 HISTORY - 1989 GOOD USPSQD
AG1748 HISTORY - 1990 GOOD USPSQD
AG1748 HISTORY - 19960114 MARK NOT FOUND USPSQD
AG1748 HISTORY - 20040329 GOOD USPSQD
AG1748 HISTORY - 20060209 GOOD USPSQD
AG1748 HISTORY - 20081031 GOOD FLDEP
AG1748 HISTORY - 20081031 GOOD FLDEP
AG1748
AG1748
                                     STATION DESCRIPTION
AG1748
AG1748'DESCRIBED BY COAST AND GEODETIC SURVEY 1965
AG1748'6.6 MI W FROM SANIBEL.
AG1748'ABOUT 3.85 MILES WEST ALONG PERIWINKLE WAY FROM THE POST OFFICE
AG1748'AT SANIBEL, THENCE 2.7 MILES NORTH AND WEST ALONG STATE HIGHWAY
AG1748'S 867, IN SECTION 21, R 22 E, T 46 S, 392 FEET WEST-NORTHWEST
AG1748'OF THE CENTER LINE OF THE DRIVE LEADING TO THE SANIBEL ELEMENTARY
AG1748'SCHOOL, 24 FEET SOUTH OF A POWER POLE, NEAR A METAL WITNESS
AG1748'POST, ABOUT 1 FOOT ABOVE THE LEVEL OF THE HIGHWAY AND IS A DISK
AG1748'IN THE TOP OF A CONCRETE POST PROJECTING 0.3 FOOT. ALSO ALONG
AG1748'SANIBEL ISLAND.
AG1748
                                     STATION RECOVERY (1989)
AG1748
AG1748
AG1748'RECOVERY NOTE BY US POWER SOUADRON 1989 (ASK)
AG1748'RECOVERED IN GOOD CONDITION.
AG1748
AG1748
                                     STATION RECOVERY (1990)
AG1748
AG1748'RECOVERY NOTE BY US POWER SQUADRON 1990 (ASK)
AG1748'RECOVERED IN GOOD CONDITION.
AG1748
AG1748
                                     STATION RECOVERY (1996)
AG1748
AG1748'RECOVERY NOTE BY US POWER SQUADRON 1996
AG1748'MARK NOT FOUND.
AG1748
AG1748
                                     STATION RECOVERY (2004)
AG1748'RECOVERY NOTE BY US POWER SQUADRON 2004 (JHS)
AG1748'DESCRIPTION ADEOUATE EXCEPT AS FOLLOWS. STATION IS 11 FEET SOUTH OF
AG1748'UTILITY POLE AND 18 FEET SOUTH OF SPRINT TELEPHONE BOX NUMBER 2314.
AG1748
AG1748
                                     STATION RECOVERY (2006)
AG1748'RECOVERY NOTE BY US POWER SQUADRON 2006 (EGH)
AG1748'RECOVERED IN GOOD CONDITION.
AG1748
AG1748
                                     STATION RECOVERY (2008)
AG1748
AG1748'RECOVERY NOTE BY FL DEPT OF ENV PRO 2008 (JLM)
AG1748'THE MARK IS ABOUT 6.8 MI (10.9 KM) SOUTHEAST OF CAPTIVA, 5.9 MI (9.5
AG1748'KM) WEST OF SANIBEL, 4.4 MI (7.1 KM) EAST-SOUTHEAST OF WULFERT, IN
AG1748'SECTION 2, TOWNSHIP 46 SOUTH, RANGE 21 EAST.
AG1748'
```

DATASHEETS Page 3 of 3

AG1748'TO REACH THE MARK FROM THE JUNCTION OF CAUSEWAY ROAD NORTH AND AG1748'PERIWINKLE WAY IN SANIBEL, GO SOUTHWEST ON PERIWINKLE WAY (MAIN AG1748'STREET) FOR 2.55 MI (4.1 KM) TO THE JUNCTION OF PALM RIDGE ROAD ON THE AG1748'RIGHT, BEAR RIGHT ON PALM RIDGE ROAD AND GO NORTHWEST FOR 0.35 MI (0.6 AG1748'KM) TO THE INTERSECTION OF TARPON BAY ROAD (AT THE FOUR WAY STOP AG1748'SIGN). CONTINUE WESTERLY ON CAPTIVA BOULEVARD FOR 2.5 MI (4.0 KM) TO AG1748'THE MARK ON THE LEFT, SET IN THE TOP OF A CONCRETE POST PROJECTING 0.3 AG1748'FT (0.1 M) ABOVE THE LEVEL OF THE GROUND AND ABOVE THE LEVEL OF AG1748'CAPTIVA BOULEVARD.

AG1748'LOCATED 46.0 FT (14.0 M) SOUTHWEST OF THE CENTERLINE OF CAPTIVA AG1748'BOULEVARD, 17.9 FT (5.5 M) SOUTHWEST OF AN ELECTRICAL JUNCTION BOX AG1748'NUMBER 2314, 11.5 FT (3.5 M) SOUTH OF A CONCRETE POWER POLE AND 1.2 FT AG1748'(0.4 M) SOUTHEAST OF A METAL WITNESS POST.

AG1748'

AG1748'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE AG1748'MONUMENT.

AG1748

AG1748 STATION RECOVERY (2008)

AG1748

AG1748'RECOVERY NOTE BY FL DEPT OF ENV PRO 2008 (JLM)

AG1748'THE MARK IS ABOUT 6.8 MI (10.9 kM) SOUTHEAST OF CAPTIVA, 5.9 MI (9.5

AG1748'KM) WEST OF SANIBEL, 4.4 MI (7.1 KM) EAST-SOUTHEAST OF WULFERT, IN

AG1748'SECTION 2, TOWNSHIP 46 SOUTH, RANGE 21 EAST.

AG1748'

AG1748'TO REACH THE MARK FROM THE JUNCTION OF CAUSEWAY ROAD NORTH AND AG1748'PERIWINKLE WAY IN SANIBEL, GO SOUTHWEST ON PERIWINKLE WAY (MAIN AG1748'STREET) FOR 2.55 MI (4.1 KM) TO THE JUNCTION OF PALM RIDGE ROAD ON THE AG1748'RIGHT, BEAR RIGHT ON PALM RIDGE ROAD AND GO NORTHWEST FOR 0.35 MI (0.6 AG1748'KM) TO THE INTERSECTION OF TARPON BAY ROAD (AT THE FOUR WAY STOP AG1748'SIGN). CONTINUE WESTERLY ON CAPTIVA BOULEVARD FOR 2.5 MI (4.0 KM) TO AG1748'THE MARK ON THE LEFT, SET IN THE TOP OF A CONCRETE POST PROJECTING 0.3 AG1748'FT (0.1 M) ABOVE THE LEVEL OF THE GROUND AND ABOVE THE LEVEL OF

AG1748'CAPTIVA BOULEVARD. AG1748'

AG1748'LOCATED 46.0 FT (14.0 M) SOUTHWEST OF THE CENTERLINE OF CAPTIVA AG1748'BOULEVARD, 17.9 FT (5.5 M) SOUTHWEST OF AN ELECTRICAL JUNCTION BOX AG1748'NUMBER 2314, 11.5 FT (3.5 M) SOUTH OF A CONCRETE POWER POLE AND 1.2 FT AG1748'(0.4 M) SOUTHEAST OF A METAL WITNESS POST.
AG1748'

AG1748'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE AG1748'MONUMENT.





http://www.ngs.noaa.gov/cgi-bin/ds\_mark.prl?PidBox=AG1748

Page 1 of 3 Level Report

**Project Information** 

Name:

Size:

Modified: 2/15/2012 8:48:57 AM (UTC:-7)

Mountain Standard Time

Time zone:

Reference number: Description:

**Coordinate System** 

Name: Default Datum: WGS 1984 Zone: Default

Geoid:

Vertical datum:

## **Level Report**

Imported file: **IWAMZL2.DAT** 

**Instrument:** DiNi Standard error per kilometer of double leveling: 0.00230 ft 0.00000 ft Standard error per turn/station setup: **Creation option:** Delta elevations **Description usage:** Feature codes

#### **Run - 1 Raw Observations**

Raw Misclosure: 0.00680 ft  $\Sigma$  BS Distances: 1949.600 ft  $\Sigma$  FS Distances: 1857.310 ft 3806.910 ft Run Length: **Reduction:** Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Туре	Distance	Description
<b>✓</b>	1	✓ 5.62520 ft			0.00000 ft	3.330 ft	0.00000 ft	3.330 ft 📤	Benchmark	75.330 ft	U242 3
	3			4.80700 ft	0.81820 ft	4.148 ft	-0.00013 ft	4.148 ft	Computed	92.110 ft	3
	3	✓ 4.90960 ft								221.910 ft	3
	4			5.10410 ft	-0.19450 ft	3.954 ft	-0.00107 ft	3.953 ft	Computed	220.510 ft	3
	4	✓ 4.93750 ft								179.620 ft	3
	5			5.01120 ft	-0.07370 ft	3.880 ft	-0.00169 ft	3.878 ft	Computed	179.380 ft	MAG 3
	5	5.11120 ft								203.720 ft	MAG 3
	6			5.14170 ft	-0.03050 ft	3.850 ft	-0.00247 ft	3.847 ft	Computed	200.070 ft	3
	6	5.10480 ft								202.850 ft	3
. ,	7			5.17640 ft	-0.07160 ft	3.778 ft	-0.00325 ft	3.775 ft	Computed	203.150 ft	3
		3.74110								199.860	

Level Report Page 2 of 3

	7	ft							ft	3
	8		4.24430 ft	-0.50320 ft	3.275 ft	-0.00402 ft	3.271 ft	Computed	199.690 ft	3
	8	✓ 4.67980 ft							201.590 ft	3
	9		4.50870 ft	0.17110 ft	3.446 ft	-0.00480 ft	3.441 ft	Computed	201.600 ft	3
	9	✓ 4.39280 ft							197.710 ft	3
	10		✓ 4.01860 ft	0.37420 ft	3.820 ft	-0.00555 ft	3.814 ft	Computed	199.150 ft	3
	10	✓ 3.66760 ft							202.700 ft	3
	11		✓ 4.19560 ft	-0.52800 ft	3.292 ft	-0.00632 ft	3.286 ft	Computed	199.780 ft	3
	11	5.43760 ft							193.920 ft	3
	12		4.76980 ft	0.66780 ft	3.960 ft	-0.00670 ft	3.953 ft	Computed	85.220 ft	3
	12	✓ 4.45990 ft							70.390 ft	
<b>✓</b>	13		5.50290 ft	-1.04300 ft	2.917 ft	-0.00680 ft	2.910 ft 📤	Benchmark	76.650 ft	120ER 3

## Run - 1 (N1) Reduced Observations

Observation	Status	Raw <b>\Delta</b> Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
1-13 (E1)	Enabled	-0.41320 ft	-0.00680 ft	-0.42000 ft	11	3806.910 ft	52.06710 ft	52.48030 ft	0.03111 ft

## **Run - 1 (N1)** Reduced Coordinates

Point ID	Status	Elevation
<b>1</b> ≥ <u>1</u>	Enabled	3.33000 ft
<u>13</u>	Enabled	2.91000 ft

#### **Run - 2 Raw Observations**

Raw Misclosure: 0.00200 ft
Σ BS Distances: 711.060 ft
Σ FS Distances: 706.850 ft
Run Length: 1417.910 ft
Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation			Description
<b>✓</b>	20	✓ 4.96750 ft			0.00000 ft	3.878 ft	0.00000 ft	3.878 ft▲	Benchmark	154.500 ft	MAG 3
1 m	21			<b>✓</b> 3.71550	1.25200	5.130 ft	-0.00048 ft	5.130 ft	Computed	142.120	3

Level Report Page 3 of 3

			ft	ft					ft	
	21	4.93930 ft							136.580 ft	3
	22		3.51020 ft	1.42910 ft	6.559 ft	-0.00090 ft	6.558 ft	Computed	142.150 ft	3
	22	✓ 5.07960 ft							70.450 ft	3
	23		5.47480 ft	-0.39520 ft	6.164 ft	-0.00100 ft	6.163 ft	Computed	61.730 ft	WAMZL 3
	23	✓ 5.36220 ft							68.940 ft	WAMZL 3
	24		✓ 4.96680 ft	0.39540 ft	6.559 ft	-0.00110 ft	6.558 ft	Computed	66.530 ft	3
	24	✓ 3.47650 ft							139.770 ft	3
10 30	25		5.02320 ft	-1.54670 ft	5.013 ft	-0.00152 ft	5.011 ft	Computed	138.460 ft	3
	25	3.72500 ft							140.820 ft	3
<b>✓</b>	26		4.85760 ft	-1.13260 ft	3.880 ft	-0.00200 ft	3.878 ft▲	Benchmark	155.860 ft	MAG 3

## Run - 2 (N2) Reduced Observations

Observation	Status	Raw Δ Elevation	Correction	Final <b>A</b> Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
20-26 (E2)	Enabled	0.00200 ft	-0.00200 ft	0.00000 ft	6	1417.910 ft	27.55010 ft	27.54810 ft	0.01580 ft

## **Run - 2 (N2)** Reduced Coordinates

Point ID	Status	Elevation
<u>♣</u> <u>20</u>	Enabled	3.87800 ft
<u>♣26</u>	Enabled	3.87800 ft

Date: 11/2/2017 8:35:48 AM	Project:	Trimble Business Center

### Wise, Michael

**From:** opus <opus@ngs.noaa.gov>

Sent: Thursday, October 26, 2017 6:29 AM

To: Wise, Michael

**Subject:** OPUS solution : BM\_IWAMZL OP1509013655782

FILE: BM\_IWAMZL OP1509013655782

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 at processing time. The 105 ditta-rapid orbit was, will be use

2005 process the data.

2005

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: mwise@sfwmd.gov DATE: October 26, 2017 RINEX FILE: bm i298p.17o TIME: 10:28:36 UTC

SOFTWARE: page5 1603.24 master73.pl 160321 START: 2017/10/25 15:46:00

EPHEMERIS: igu19723.eph [ultra-rapid] STOP: 2017/10/25 17:56:00

NAV FILE: brdc2980.17n OBS USED: 5188 / 5707 : 91% ANT NAME: TPSHIPER\_V NONE # FIXED AMB: 36 / 45 : 80%

ARP HEIGHT: 1.5 OVERALL RMS: 0.019(m)

REF FRAME: NAD 83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2017.8156)

X: 784418.742(m) 0.009(m) 784417.947(m) 0.009(m) Y: -5660566.323(m) 0.012(m) -5660564.740(m) 0.012(m) Z: 2822998.912(m) 0.010(m) 2822998.735(m) 0.010(m)

LAT: 26 26 31.78280 0.007(m) 26 26 31.80192 0.007(m) E LON: 277 53 22.47014 0.007(m) 277 53 22.44955 0.007(m) W LON: 82 6 37.52986 0.007(m) 82 6 37.55045 0.007(m) EL HGT: -21.595(m) 0.014(m) -23.175(m) 0.014(m)

ORTHO HGT: 1.939(m) 0.027(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 17) SPC (0901 FL E)

Northing (Y) [meters] 2925129.747 234077.632 N- 767969.698 Easting (X) [meters] 389286.363 89248.575 E- 292809.700

Convergence [degrees] -0.49451622 -0.49451622

Point Scale 0.99975133 1.00009256 Combined Factor 0.99975472 1.00009595

#### US NATIONAL GRID DESIGNATOR: 17RLK8928625129(NAD 83)

#### **BASE STATIONS USED**

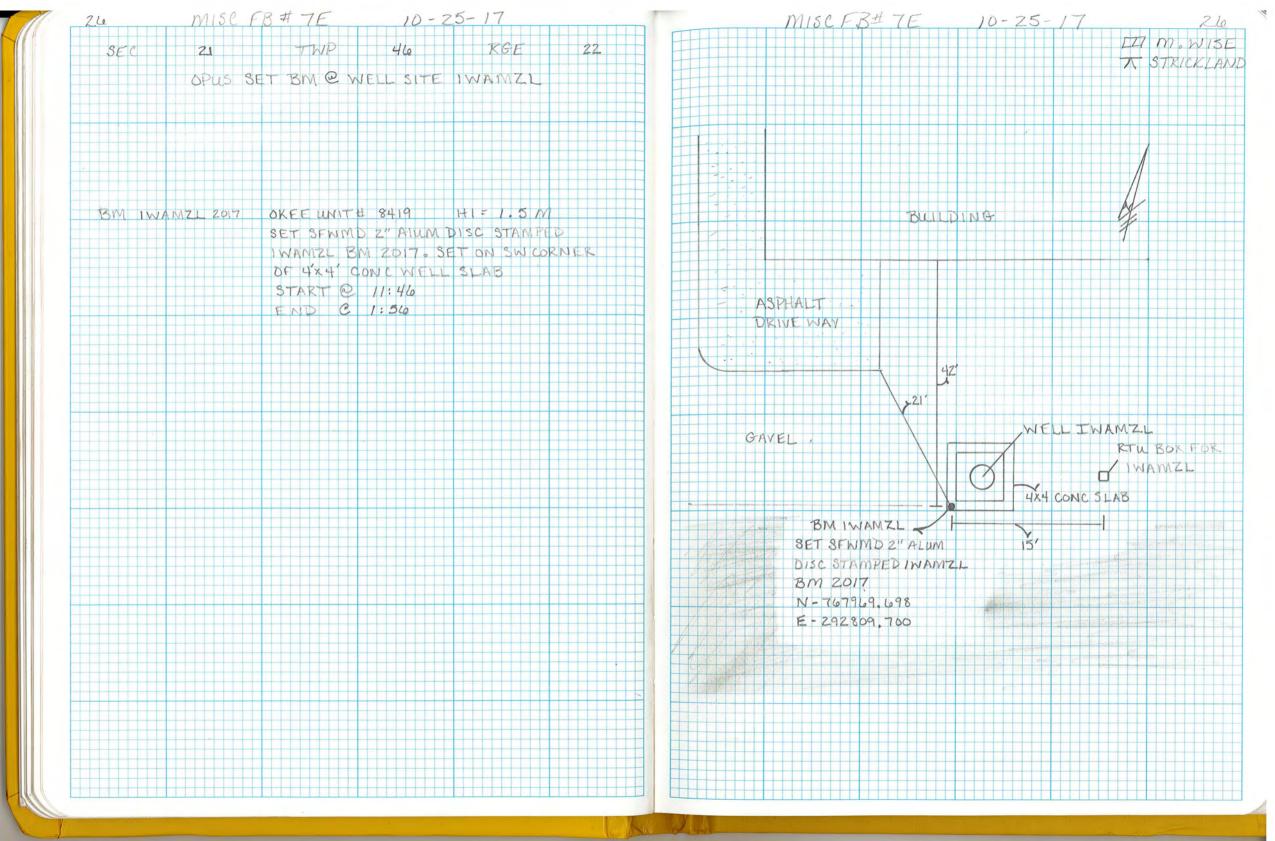
PID DESIGNATION LATITUDE LONGITUDE DISTANCE(m)

DF9225 ZMA1 MIAMI WAAS 1 CORS ARP
DI4159 MCD5 MAC DILL AFB 5 CORS ARP
DE9138 OKCB OKEECHOBEE CORS ARP
N254928.585 W0801909.066 191743.0
N275059.338 W0823156.335 161480.2
N271557.715 W0805119.181 154563.9

#### NEAREST NGS PUBLISHED CONTROL POINT

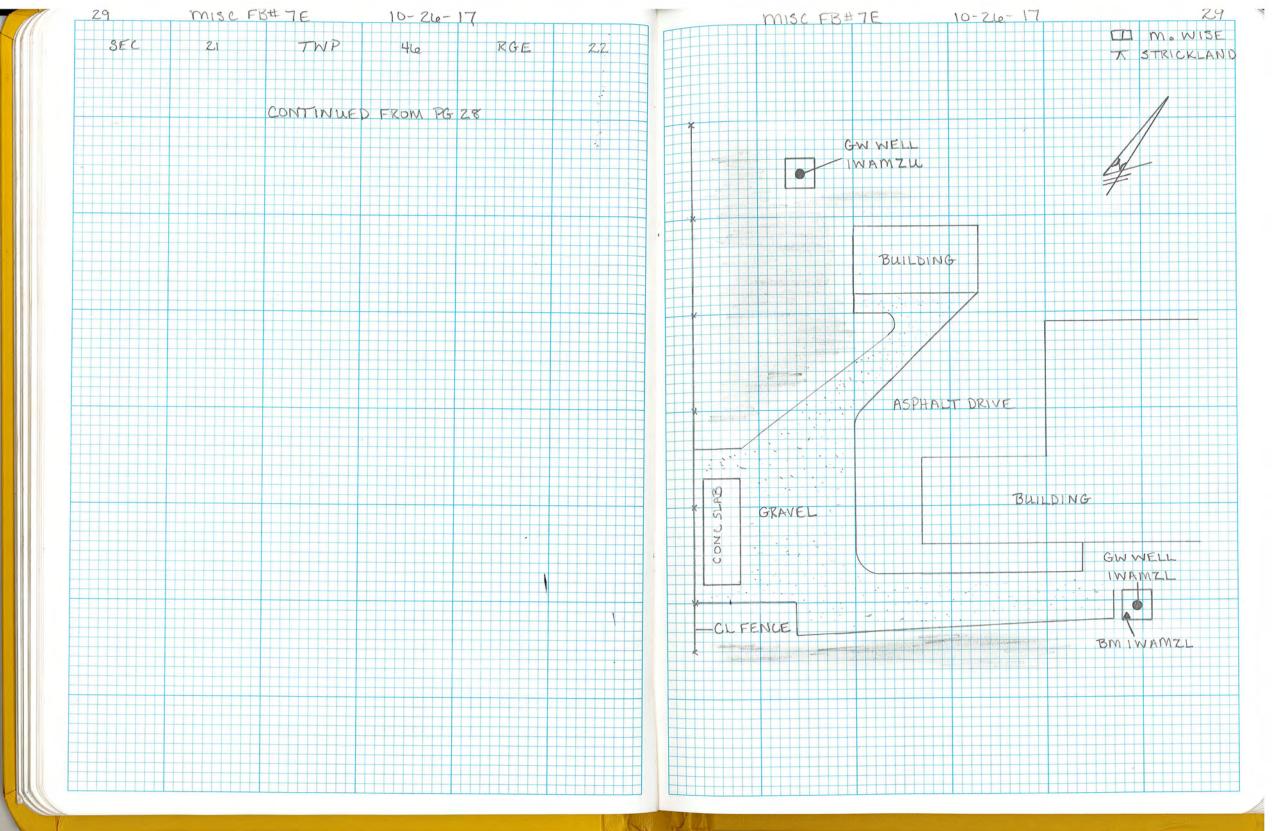
AG1747 U 242 N262632.91 W0820628.05 264.9

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.



27	MISC FB#7E	10-26-17		MISC FB # 7E 10-26-17 27
SEC	ZI TWP	46 RGE	22	EQUIPOUSED: III MONISE
				DINILEVEL SERIAL# 735 642 (LOANER) TO STRICKLAND
	ESTABLISH NAVD 87	ELEVATIONS @ WELL		BAR CODE ROD
	FILE WAME: IWAN	17.12		
STA	. PT#	FI	BMEL	COMMENTS
BM 4242	1	1. 6	3,333 WAVP88	BMUZHZ IS FND US C & G SURVEY BRASS DISC STAMPED UZHZ 1965
			PSQVAM	
MAG	5	3,88		MAG 13 MAG NL SET. IN ASPHALT SIDE WALK
BW 125 FR	13	2,917	2.091	BM 120 ER IS FND US GEOLOGICAL SURVEY BRASS DISC STAMPED 1952
LINE#2				120 F.R.S
MAG	20		3,88	MAG SAME AS ABOVE
BM WAMZL	23	La. Ne le		BMWAMZL IS SET SFWMD Z' ALUM DISC STAMPED TWAMZL BM 2017
MAG	210	3.882	3,88	MAG SAME AS ABOVE
	CONTINUEDO	W PG 28		

28 MISC FBH			MISC FB # 7F	10-210-17 2.8 17 m.w.se
		G E 2.2		T. STRICKLANI
CONT	INUED FROM PG-27			
STA +	HI - EL	BMEL	COMMNYS:	
BW 1WAWZ 4.74 7	0.903	le. I lale NAVD 88	BM IWAMZL IS SET SEWMD Z" ALUM DISC STAMP	ED IWAMZL BM 2017
GWLREFPT	1.45	9.453	GWLREF PT 18 YMARK DN 5 SIDE DF I' STAIN	ESS COUPLING
CONCRADIN	4.76	6.143	CONCRETE PAD ON N SIDE OF WELL IWA	M.Z.L
GROUNDA	5,20	5.703	GROUND SHOT ON N "	11
CONC PADE	4.77	6.133	CONCRETE PAD ON E !	12
GROUND E	5.20	5.703	GROUND SHOT ON E	74
COMO PAO 5	4.76	6.143	CONCRETE PAD ON 5	<i>D</i>
GROUND S	5.20	5.703	GROUND SHOT ON S	1/
CONC PAD W	4.78	6.123	CONCRETE PAD ON W "	1/
GROUNDW	5.20	5.703	GROUND SHOT ONW"	1/
GWU KET PT	5.10	5.803	GULL REF PT IS V MARK ON S SIDE ATOP OF 1/4" STAIN	VLESS STEAL ELBOW
GMUVER PORT	5.09	5.813	GWU YER PORT IS V MARK DN 3 SIDE ATOP OF 1/4" ST	MINLESS STEAL ELBOW
CONEPADM	6.44	4.463	CONCRETE PAD ON N SIDE OF WELL INAMZLL	
GROUNDN	7.0	3.903	GROUND SHOT ON N " 12	
CONC PAD E	6,43	4.473	CONCRETE PAD DN E "	
GROUND E	4.9	4.003	GROUND SHOT ON E	
CONC PAD 5	6.42	4.483	CONCRETE PAD ON 5 "	
GROUND S	6.90	4.003	GROUND SHOT ON 5"	r
CONCRADW	Le, 42	4,483	CONCRETE PAD ON W"	
CROUND W	7.0	3.903	GROUND SHOT ON W "	
BM I WAMZL	4,74	6.143	3M IWAMZL SAME AS ABOVE	



## Office

#### **Project**

1 July 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

**IWAMZL** 

1/2

**Latitude:** 26 26 31.746 **Longitude:** 82 06 37.554

Elevation/Z: 0

Northing/Y: 767966.000 Easting/X: 292807.472 Elevation/Z: 1.175

Convergence: -0 29 40.26850 Scale Factor: 1.000092563 Combined Factor: 1.000096202

**IWAMZU** 

2/2

Latitude: 26 26 31.93 Longitude: 82 06 40.392

Elevation/Z: 0

Northing/Y: 767986.807 Easting/X: 292549.651 Elevation/Z: 1.175

Convergence: -0 29 41.53583 Scale Factor: 1.000092777 Combined Factor: 1.000096417

Remark:



# **DBHYDRO** | by station

#### STATION INFORMATION

Station	IWA-MZL
Site	IWAMZL
Туре	WELL
Latitude (ddmmss.sss)	262632.006
Longitude (ddmmss.sss)	820635.35
X Coord (ft) NAD83	293008
Y Coord (ft) NAD83	767990.447
County	Lee
Basin	CAPE CORAL COASTAL
Section	2
Township	46
Range	21
Show Map	Google Map
Well Info	<u>Info</u>
Description	Island Water Association WWTP Injection Monitoring Well (Deep)
Travel Info	FROM SANIBEL ISLAND CAUSEWAY, CONTINUE TO THE FOUR WAY STOP. TURN RIGHT ON PERIWINKLE AND FOLLOW IT 3651 SANIBEL CAPTIVA RD
Notes	Island Water Assoc.WWTP, Sanibel-Captiva Rd., inside gravel area in plant
Nearby Stations	Nearby Stations
Attachments	Show Attachments

Query returned 1 station record(s).

Get Sample Data

Get Time Series Data

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# **DBHYDRO** | by station

#### STATION INFORMATION

Station	IWA-MZU
Site	IWAMZU
Туре	WELL
Latitude (ddmmss.sss)	262631.988
Longitude (ddmmss.sss)	820637.568
X Coord (ft) NAD83	292806.41
Y Coord (ft) NAD83	767990.447
County	Lee
Basin	CAPE CORAL COASTAL
Section	2
Township	46
Range	21
Show Map	Google Map
Well Info	<u>Info</u>
Description	Island Water Association WWTP Injection Monitoring Well (Shallow)
Travel Info	FROM SANIBEL ISLAND CAUSEWAY, CONTINUE TO THE FOUR WAY STOP. TURN RIGHT ON PERIWINKLE AND FOLLOW IT 3651 SANIBEL CAPTIVA RD
Notes	Island Water Assoc.WWTP, Sanibel-Captiva Rd., inside gravel area in plant
Nearby Stations	Nearby Stations
Attachments	Show Attachments

Query returned 1 station record(s).

Get Sample Data

Get Time Series Data

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## **REGISTRATION WORKSHEET - IWAMZL Addendum**

Site Name:		IWAMZL			То	day's Date:	11/21/2017						Type Recorder: CR1000						
Activity:	rity: Addendum				Effe	ctive Date:	10/26/2017			St	Start Date of Data :								
Customer:	Steve Krupa			Bus. Area: <b>5720</b>				Agency: SFWMD			Internal Order:								
Project Man	Manager: Howard Ehmke				Bus. Area: Survey & Mapping			<b>M</b> apping	Agency: SFWMD			Contra	Fund: Contract #:						
Project Name:						]	Legal Mandate:												
Short Comm	non Name / D	escription:	IWA-MZ	L															
Proj. Mgr. N	Iotes:		This adde	ndum wa	s nerform	ed to add N	IAVD 88 sur	veving data fo	or the reference	elevation '	To convert to N	NGVD 2	9 add +1 1	75 ft					
roji mgi	. otes.		I mo udde	induiii wa	o periorii.	ou to uuu 1		roying data re			10 0011 011 10 1		, 444 - 111	, 5 10					
Site Direction	ons:																		
Site Birectio	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,																		
Site Address	s (if any):																		
Transportati	on:	Std Vehicle	e				Lock type or	r combination:					#						
Recorder Lo	cation/Purpo	se:	Stand-Alor	ne Recorde	er (Non-Flo	ow Site)			Structure Type:										
Array ID Co	onfiguration to	able attached	d	NO															
SURV	EY INFORM	ATION																	
B.M. Elevation: 6.163			Date: 10/26/2017						Stamp: SFWMD										
	Agency:	#REF!					Type	ALUM			Dat	um:	NA	VD 88					
Benchmark Location/ Description From the intersecting Tarpon Bay Road a Island Water Association of the intersection of the in			ınd go No	rth, 0.3 of a	a mile to San	ibel Captiva R		nto Sanibel	l Captiva Road	and go	Westerly 2	miles	to the sec	cond enti	rance to				
COMMUNIC	ATIONS INF	ORMATION																	
	Communicati					Logg	gernet Server	:		Lo	ggernet IP Ado	dress:							
Tower:		Co	mmunicati	ion Type:		R.F. Code/Modem					ddress: R.F. Access Point:								
Pho	one Number:																		
R	ΓU Address:		C	ateways:															
WELL INFO	RMATION																		
Sensor	Customer Ref	Ref Elev	Elev Date		Bottom of Well	Ground Elev	Benchmark Elev	Benchmark Datum	Ref Elevation Lo	cation									
GW1	IWA-MZL	9.45	10/26/2017	9.45		5.7	6.163	NAVD 88	Nut below sensor ca	able									
	GW Sensor					Top of	Base of												
Sensor		Meas Pt Elevation	GW Land Elevation	Depth of Well	Type of Well	Monitored Interval	Monitored Interval	Parameter Transmitted											
GW1																			
COORDINAT	ΓΕ INFORMA	TION																	
Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin		C	County					Description		

## **REGISTRATION WORKSHEET - IWAMZU Addendum**

Site Name:	ite Name: IWAMZU			То	day's Date:	11/21/2017		Type Recorder: CR1000										
Activity:	Addendum		Effective Date: 10/26/2017					Start Date of Data :					:					
Customer:	Steve Krupa				Bus. Area:	5720	Agency: SFW				Internal Order:							
Project Mana	t Manager: Howard Ehmke				Bus. Area: Survey & Mapping			Agency: SFWMD				Fund: Contract #:						
Project Name:						I	Legal Mandate:											
Short Common Name / Description: IWA-MZL																		
Proj. Mgr. Notes: This addendum was			s perform	ed to add N	AVD 88 sur	To convert to N	NGVD 2	29 add +1	.175 ft.									
Site Directio	ns:																	
Site Address	(if any):																	
Transportation	on:	Std Vehicle	e				Lock type or	combination:					#					
Recorder Location/Purpose: Stand-Alone Recorder		ne Recorde	r (Non-Flo	w Site)			Structure Type:											
Array ID Configuration table attached NO																		
SURV	EY INFORM	ATION																
B.M. Elevation: 6.163		Date: 10/26/2017							Stamp: SFWMD									
	Agency	#REF!				Type: ALUM							Datum: NAVD 88					
Benchmark I	Location/ De	scription	Tarpon Ba	ay Road a	on of Causeway Boulevard and Periwinkle Way in Sanibel, go west on Periwinkle Wa and go North, 0.3 of a mile to Sanibel Captiva Road; turn left onto Sanibel Captiva Roa ciation. Inc. Water Treatment Plant: turn left at the second water plant entrance (payed							and go	Westerly	2 miles	s to the se	econd en	trance to	
COMMUNIC	ATIONS INF	ORMATION																
C	Communicati	ons System:				Logg	ernet Server	:		Lo	ggernet IP Ado	dress:						
Tower:		Co	mmunicati	ion Type:				R.	F. Code/Modem Address: R.F. Acces					ss Point	t:			
Pho	one Number:																	
RT	ΓU Address:		C	ateways:														
WELL INFO	RMATION																	
	Customer				Bottom of		Benchmark	Benchmark										
Sensor GW1	Ref IWA-MZU	Ref Elev 5.8	Elev Date 10/26/2017		Well	Elev 4	Elev 6.163	Datum NAVD 88	Ref Elevation Loc Top of 90Degree elb									
	GW Sensor Location	Meas Pt	GW Land	Denth of	Type of	Top of Monitored	Base of Monitored	Parameter										
Sensor GW1	Offset	Elevation	Elevation	Well	Well	Interval	Interval	Transmitted										
O441	1	1	<u>I</u>		<u> </u>	1	1	L							1			
COORDINAT	E INFORMA	TION																
Item/Parm			Y-Coord	Sec	Township	Range	Quad	Basin		C	ounty					Descrip	ion	