

# SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

USGS Station Name: Not Applicable			ADA RTU <b>Applic</b>	U Station Name c <b>able</b>	<b>:</b> :		DB Hydro Stat BEELINE	tion Name:	e: DB Hydro Site Name: Agen BEELNE WME		
Party Chief: EBANK	S Field B	ook: <b>No</b> n	ne	Page	Date of Field Work:25-aug-14				Prepared by: H. Ehmke 20-jul-20		
					BENCHN	/IARK DA	TA				
Site Benchmark: <b>NOT SET</b>				100 000100			S Source Benchmark El.: 591 (24.869m) NAVD88		<b>-1.083 Corpscon</b> 6.0.1 Conv ( <i>NAVD88 to NGVD29</i>		
			V54	6 022 (AA644	9)			-	-1.039 - Historical Conversio	n Factor	
	•				SITE SPE	CIFIC DA	TA	•			
89.7 Ib NAVIJ88 ISURVEVI			xisting Brass T W <b>90.255 (8-1</b>	s Tag Elevation (Datum): -10-06 EE CC)				Calibration Port Elevation(s) (NAVD88): Not Applicable			
Ground Elevation (	NAVD88): <b>N</b> o	t Taken			Pad E	levation	(NAVD88): <b>No</b>	t Applicable	e		
				C	GEOOGR/	APHIC D	АТА				
Section 26			Towns	ship <b>23</b> South				Range <b>31</b> E	ast		
Wall		Latit	ude: 2	28°27′09.35"	Long	gitude: <b>8</b>	e: 81°10'42.10" Source: Pick Point Goog				
Well		State	Dlane	Coordinatos	North	ing (V) -		Facting (	V) -		

#### Notes:

NAVD88 - North American Vertical Datum of 1988

NGS - National Geodetic Survey

NGVD29- National Geodetic Vertical Datum of 1929

Corpscon 6.0.1 - A U.S. Army Corps of 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.

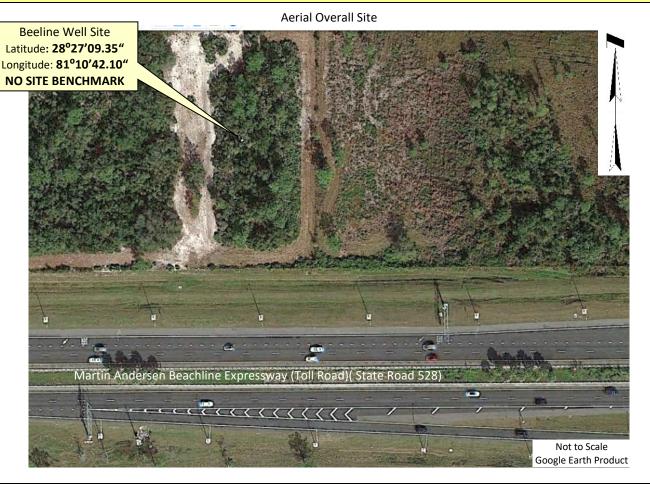
Northing (Y) =

Easting (X) =

**Historical Conversion Factor** – The difference between the NAVD88 value derived from the National Geodetic Survey Source benchmark and the value used at the time of the survey.

State Plane Coordinates

### **PICTURES**





# SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16



Looking? (oblique not to scale) (10-aug-06)

Well Head



(oblique not to scale) (10-aug-06)

Old NGVD29 Brass Tag Close-up (removed)



New NAVD88 Brass Tag Close-up (added 25-aug-14)



11. 60	HOA FB#	7	8-10-	-06		ScA	DA FE	<del>4</del> 7	8-1	0-06	11
	hax. 35	tup 2	3 Rge =	31	bowles hanned.				Levels		2
Establ	1	feleue		or Well	site	h/A	4	H.1.		Glos	Lomarks
	line	(Baelin	e awy		0	BM.	5.68	92.52		86.84	
6	-t	19.1.	-	Aleu	Kamades Explis		7.41		5.09	87.43	\$
022 022	8.50	87. 18		82.63	fre AS Desirb	17	3.59,	91.02	8.50		
TP.			4.15	83.63		P.	10.00		5.04	85.98	
	4.74	88.37	.,				3.88	89.86			
ŢP.	70,211	×	4.47	83.90			á.n		5.34 8.31	84.5	2
	4.72 ° 8.93	88 62					3,93	8845	1,.495	83 99	55
TP	5,45	90.03	4.04	84.58		•	( 2)	88,165	a. 155		
TP	8.20		4.03	86.00			4.21 9.44	00,10	4.54	83.62	15
11	5.21 2.44	91.21	9.60				4 Ole	87.685	4.11		
P.	a	22.02	378	87.43		BM _22	9.5		5.045		(826
	4.57	700		94	,81,835	V Fale Day			0	(+0,01)	
1BM			5.18	86.84	oh /						

SCHOA FB # 7 Age Parson Sec 35 top 23 Rgc 31 Chanles Restablish Ref Klev to Beeline Gas Elev for wells @ G. 305 N Romantes Fleu Eles Romaks bm G.305N 7.16 Zo.628 13.468 86.835 91.275 9.21 18.503 (18.43 (+ W) = 3.21 17418 (17.02 7.16

PROJECT: LINE FROM <u>V</u> 54	602ZTO <u>TP</u>	M	BEEWE	FIELD BO PARTY C	OK SKAD	NKS	OR CO	DER_ UNTY	3LD ORANOE	ADJ. BY LE
SECTION	DISTANCE	FåB	SUM ROD BACK+	READINGS FWD	DIFF. ELEV.	MEAN DIFF.	UNADJ.	CORR	ADJ.	REMARKS
V546 022									81. 591	(88)
		F	29.86	25.65	4.21				82,63	(EBWINES ZA)
		B	25,35	29,55	-4,20	4.205				
TBM						1			85,796	(EBAUKS ZA)
			4.44	1.02	+3.42				86.835	(EBAULS 24)
WELL						89.216				
					7	90.Z55	EBRUSS	<u> </u>		*
										1
			9		,					
		_								
		_								
4										
•										1
	- 0									























# South Florida Water Management District **Benchmark Database**

Report run on: July 27, 2006 1:51 PM

Designation V546023 Latitude: 282704.000 Scaled values only County: ORANGE Longitude 811043.000 USGS Quad NARCOOSSEE NW Monument By: FL-095 Project: BEELNE WELL SITE Year: 1989 Type: V Sec: 35 Twp: 23 Rge: 31 Stamping: V546-23 Status: Party Chief: Field Book NAD 1927 Coordinates: Page: N= E= **NGVD 1929** Adjustment: Elevation: Order: NAD 1983 Coordinates: Class: X = Y = **NAVD 1988** Adjustment: Elevation: 82.887 Order: Order: 2 Class: Class: I Description: THE NGS DATA SHEET SEE FILE DSDATA.TXT FOR MORE INFORMATION ABOUT THE DATASHEET.DATABASE = SYBASE ,PROGRAM = DATASHEET, VERSION = 7.37 NATIONAL GEODETIC SURVEY, RETRIEVAL DATE = JULY 26, 2006 AA6450 DESIGNATION - V 546 023 AA6450 PID - AA6450 AA6450 STATE/COUNTY- FL/ORANGE AA6450 USGS QUAD - NARCOOSSEE NW (1980) AA6450 AA6450 \*CURRENT SURVEY CONTROL AA6450\* NAD 83(1986)- 28 27 04. (N) 081 10 43. (W) SCALED AA6450\* NAVD 88 -25.264 (METERS) 82.89 (FEET) ADJUSTED AA6450 GEOID HEIGHT--27.99 (METERS) GEOID03 AA6450 DYNAMIC HT -25.227 (METERS) 82.77 (FEET) COMP AA6450 MODELED GRAV- 979,189.6 (MGAL) NAVD 88 AA6450 VERT ORDER - SECOND CLASS I AA6450.THE HORIZONTAL COORDINATES WERE SCALED FROM A TOPOGRAPHIC MAP AND HAVE AA6450.AN ESTIMATED ACCURACY OF +/- 6 SECONDS. AA6450.THE ORTHOMETRIC HEIGHT WAS DETERMINED BY DIFFERENTIAL LEVELING AA6450.AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN DECEMBER 1995... AA6450.THE GEOID HEIGHT WAS DETERMINED BY GEOID03. AA6450.THE DYNAMIC HEIGHT IS COMPUTED BY DIVIDING THE NAVD 88 AA6450.GEOPOTENTIAL NUMBER BY THE NORMAL GRAVITY VALUE COMPUTED ON THE AA6450.GEODETIC REFERENCE SYSTEM OF 1980 (GRS 80) ELLIPSOID AT 45

AA6450.DEGREES LATITUDE (G = 980.6199 GALS.).



# South Florida Water Management District **Benchmark Database**

Report run on: July 27, 2006 1:51 PM

AA6450

AA6450.THE MODELED GRAVITY WAS INTERPOLATED FROM OBSERVED GRAVITY VALUES.

AA6450:

NORTH

EAST UNITS ESTIMATED ACCURACY

AA6450; SPC FL E - 456,210.

182,510.

MT (+/- 180 METERS SCALED)

AA6450

AA6450

SUPERSEDED SURVEY CONTROL

AA6450

AA6450.NO SUPERSEDED SURVEY CONTROL IS AVAILABLE FOR THIS STATION.

AA6450

AA6450 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM825471(NAD 83)

AA6450 MARKER: DD = SURVEY DISK

AA6450 SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE

AA6450 SP SET: CONCRETE HEADWALL

AA6450 STAMPING: V546-23 AA6450 MARK LOGO: FL-095

AA6450\_MAGNETIC: O = OTHER; SEE DESCRIPTION

AA6450 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AA6450+STABILITY: SURFACE MOTION

AA6450 HISTORY - DATE CONDITION REPORT BY AA6450 HISTORY - 1989 MONUMENTED FL-095

AA6450

AA6450

STATION DESCRIPTION

AA6450

AA6450'DESCRIBED BY ORANGE COUNTY FLORIDA 1989 (PKV)

AA6450'BRASS DISK ON TOP, CENTER OF CONCRETE HEADWALL IN SOUTH RIGHT-OF-WAY AA6450'OF BEE LINE, 15 FT (4.6 M) SOUTH OF SOUTH EDGE OF PAVEMENT OF AA6450'EASTBOUND LANES. HEADWALL IS 0.4 MI (0.6 KM) EAST OF V546-22 AND AT AA6450'MILE MARK 18.6. IN SECTION 35, TOWNSHIP 23 SOUTH, RANGE 31 EAST. SITE AA6450'SUITABILITY FOR GPS OCCUPATION NOT DETERMINED. (DESCRIPTION AA6450'SOURCE--THE ORANGE COUNTY ENGINEERING DEPARTMENT.)

\*\*\* RETRIEVAL COMPLETE. ELAPSED TIME = 00:00:00

# The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
        National Geodetic Survey, Retrieval Date = NOVEMBER
AA6449 ****************
AA6449 DESIGNATION - V 546 022
AA6449 PID
                - AA6449
AA6449 STATE/COUNTY- FL/ORANGE
AA6449 COUNTRY - US
AA6449 USGS QUAD - NARCOOSSEE NW (1980)
AA6449
AA6449
                                *CURRENT SURVEY CONTROL
AA6449
AA6449* NAD 83(1986) POSITION- 28 27 04.
                                              (N) 081 11 04.
                                                                 (W)
                                                                       SCALED
AA6449* NAVD 88 ORTHO HEIGHT -
                                  24.869 (meters)
                                                         81.59
                                                                (feet) ADJUSTED
AA6449
 AA6449 GEOID HEIGHT
                                  -28.028 (meters)
                                                                       GEOID12B
AA6449 DYNAMIC HEIGHT -
                                  24.833 (meters)
                                                         81.47
                                                                (feet) COMP
AA6449 MODELED GRAVITY -
                              979,189.4 (mgal)
                                                                       NAVD 88
AA6449
AA6449 VERT ORDER
                        - SECOND
                                     CLASS I
AA6449
AA6449. The horizontal coordinates were scaled from a topographic map and have
AA6449.an estimated accuracy of \pm 6 seconds.
AA6449. The orthometric height was determined by differential leveling and
AA6449.adjusted by the NATIONAL GEODETIC SURVEY
AA6449.in December 1995.
AA6449.Significant digits in the geoid height do not necessarily reflect accuracy.
AA6449.GEOID12B height accuracy estimate available here.
AA6449. The dynamic height is computed by dividing the NAVD 88
AA6449.geopotential number by the normal gravity value computed on the
AA6449. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AA6449.degrees latitude (g = 980.6199 \text{ gals.}).
AA6449
AA6449. The modeled gravity was interpolated from observed gravity values.
AA6449
AA6449;
                                                  Units Estimated Accuracy
                            North
                                          East
AA6449; SPC FL E
                       456,210.
                                      181,940.
                                                  MT (+/-180 \text{ meters Scaled})
AA6449
AA6449
                                 SUPERSEDED SURVEY CONTROL
AA6449
AA6449. No superseded survey control is available for this station.
AA6449
AA6449 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM819471 (NAD 83)
AA6449
AA6449 MARKER: DD = SURVEY DISK
AA6449 SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE
 AA6449 SP SET: CONCRETE HEADWALL
AA6449_STAMPING: V546-22
AA6449 MARK LOGO: FL-095
AA6449 MAGNETIC: O = OTHER; SEE DESCRIPTION
AA6449 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AA6449+STABILITY: SURFACE MOTION
AA6449
AA6449 HISTORY
                    - Date
                               Condition
                                                Report By
AA6449 HISTORY
                    - 1989
                               MONUMENTED
                                                FL-095
```

**DATASHEETS** Page 2 of 2

AA6449

AA6449 STATION DESCRIPTION

AA6449

AA6449'DESCRIBED BY ORANGE COUNTY FLORIDA 1989 (PKV)

AA6449'BRASS DISK ON TOP, CENTER OF CONCRETE HEADWALL IN SOUTH RIGHT-OF-WAY AA6449'OF THE BEE LINE, 12 FT (3.7 M) SOUTH OF SOUTH EDGE OF PAVEMENT OF

AA6449'EASTBOUND LANES. HEADWALL IS 0.6 MI (1.0 KM) EAST OF V546-21 AND AT

AA6449'MILE MARKER 18.2. IN SECTION 35, TOWNSHIP 23 SOUTH, RANGE 31 EAST.

AA6449'SITE SUITABILITY FOR GPS OCCUPATION NOT DETERMINED. (DESCRIPTION

AA6449'SOURCE--THE ORANGE COUNTY ENGINEERING DEPARTMENT.)

\*\*\* retrieval complete. Elapsed Time = 00:00:02 DATASHEETS Page 1 of 2

# The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
       National Geodetic Survey, Retrieval Date = NOVEMBER 22, 2015
AA6450 DESIGNATION - V 546 023
AA6450 PID - AA6450
AA6450 STATE/COUNTY- FL/ORANGE
AA6450 COUNTRY - US
AA6450 USGS QUAD - NARCOOSSEE NW (1980)
AA6450
AA6450
                              *CURRENT SURVEY CONTROL
AA6450
AA6450* NAD 83(1986) POSITION- 28 27 04. (N) 081 10 43. (W)
AA6450* NAVD 88 ORTHO HEIGHT - 25.264 (meters) 82.89 (feet) ADJUSTED
AA6450
AA6450 GEOID HEIGHT -
                                -28.033 (meters)
                                                                   GEOID12B
AA6450 DYNAMIC HEIGHT -
                                25.227 (meters)
                                                     82.77 (feet) COMP
AA6450 DYNAMIC HEIGHT - 25.227 (meter AA6450 MODELED GRAVITY - 979,189.6 (mgal)
                                                                   NAVD 88
AA6450
AA6450 VERT ORDER - SECOND
                                  CLASS I
AA6450
AA6450. The horizontal coordinates were scaled from a topographic map and have
AA6450.an estimated accuracy of \pm 6 seconds.
AA6450. The orthometric height was determined by differential leveling and
AA6450.adjusted by the NATIONAL GEODETIC SURVEY
AA6450.in December 1995.
AA6450. Significant digits in the geoid height do not necessarily reflect accuracy.
AA6450.GEOID12B height accuracy estimate available here.
AA6450. The dynamic height is computed by dividing the NAVD 88
AA6450.geopotential number by the normal gravity value computed on the
AA6450.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AA6450.degrees latitude (g = 980.6199 \text{ gals.}).
AA6450. The modeled gravity was interpolated from observed gravity values.
AA6450
AA6450;
                                               Units Estimated Accuracy
                          North
                                        East
AA6450; SPC FL E - 456,210.
                                     182,510.
                                               MT (+/-180 \text{ meters Scaled})
AA6450
AA6450
                               SUPERSEDED SURVEY CONTROL
AA6450.No superseded survey control is available for this station.
AA6450 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM825471 (NAD 83)
AA6450
AA6450 MARKER: DD = SURVEY DISK
AA6450 SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE
AA6450 SP SET: CONCRETE HEADWALL
AA6450 STAMPING: V546-23
AA6450 MARK LOGO: FL-095
AA6450 MAGNETIC: O = OTHER; SEE DESCRIPTION
AA6450 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AA6450+STABILITY: SURFACE MOTION
AA6450
AA6450 HISTORY - Date Condition
AA6450 HISTORY - 1989 MONUMENTED
                                              Report By
                                              FL-095
```

DATASHEETS Page 2 of 2

AA6450 AA6450 AA6450

STATION DESCRIPTION

AA6450'DESCRIBED BY ORANGE COUNTY FLORIDA 1989 (PKV)
AA6450'BRASS DISK ON TOP, CENTER OF CONCRETE HEADWALL IN SOUTH RIGHT-OF-WAY

AA6450'BRASS DISK ON TOP, CENTER OF CONCRETE HEADWALL IN SOUTH RIGHT-OF-WAY AA6450'OF BEE LINE, 15 FT (4.6 M) SOUTH OF SOUTH EDGE OF PAVEMENT OF

AA6450'EASTBOUND LANES. HEADWALL IS 0.4 MI (0.6 KM) EAST OF V546-22 AND AT

AA6450'MILE MARK 18.6. IN SECTION 35, TOWNSHIP 23 SOUTH, RANGE 31 EAST. SITE

AA6450'SUITABILITY FOR GPS OCCUPATION NOT DETERMINED. (DESCRIPTION

AA6450'SOURCE--THE ORANGE COUNTY ENGINEERING DEPARTMENT.)

\*\*\* retrieval complete. Elapsed Time = 00:00:02 DATASHEETS Page 1 of 2

# The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
       National Geodetic Survey, Retrieval Date = NOVEMBER 22, 2015
AA6450 DESIGNATION - V 546 023
AA6450 PID - AA6450
AA6450 STATE/COUNTY- FL/ORANGE
AA6450 COUNTRY - US
AA6450 USGS QUAD - NARCOOSSEE NW (1980)
AA6450
AA6450
                              *CURRENT SURVEY CONTROL
AA6450
AA6450* NAD 83(1986) POSITION- 28 27 04. (N) 081 10 43. (W)
AA6450* NAVD 88 ORTHO HEIGHT - 25.264 (meters) 82.89 (feet) ADJUSTED
AA6450
AA6450 GEOID HEIGHT -
                                -28.033 (meters)
                                                                   GEOID12B
AA6450 DYNAMIC HEIGHT -
                                25.227 (meters)
                                                     82.77 (feet) COMP
AA6450 DYNAMIC HEIGHT - 25.227 (meter AA6450 MODELED GRAVITY - 979,189.6 (mgal)
                                                                   NAVD 88
AA6450
AA6450 VERT ORDER - SECOND
                                  CLASS I
AA6450
AA6450. The horizontal coordinates were scaled from a topographic map and have
AA6450.an estimated accuracy of \pm 6 seconds.
AA6450. The orthometric height was determined by differential leveling and
AA6450.adjusted by the NATIONAL GEODETIC SURVEY
AA6450.in December 1995.
AA6450. Significant digits in the geoid height do not necessarily reflect accuracy.
AA6450.GEOID12B height accuracy estimate available here.
AA6450. The dynamic height is computed by dividing the NAVD 88
AA6450.geopotential number by the normal gravity value computed on the
AA6450.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AA6450.degrees latitude (g = 980.6199 \text{ gals.}).
AA6450. The modeled gravity was interpolated from observed gravity values.
AA6450
AA6450;
                                               Units Estimated Accuracy
                          North
                                        East
AA6450; SPC FL E - 456,210.
                                     182,510.
                                               MT (+/-180 \text{ meters Scaled})
AA6450
AA6450
                               SUPERSEDED SURVEY CONTROL
AA6450.No superseded survey control is available for this station.
AA6450 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM825471 (NAD 83)
AA6450
AA6450 MARKER: DD = SURVEY DISK
AA6450 SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE
AA6450 SP SET: CONCRETE HEADWALL
AA6450 STAMPING: V546-23
AA6450 MARK LOGO: FL-095
AA6450 MAGNETIC: O = OTHER; SEE DESCRIPTION
AA6450 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AA6450+STABILITY: SURFACE MOTION
AA6450
AA6450 HISTORY - Date Condition
AA6450 HISTORY - 1989 MONUMENTED
                                              Report By
                                              FL-095
```

DATASHEETS Page 2 of 2

AA6450 AA6450 AA6450

STATION DESCRIPTION

AA6450'DESCRIBED BY ORANGE COUNTY FLORIDA 1989 (PKV)
AA6450'BRASS DISK ON TOP, CENTER OF CONCRETE HEADWALL IN SOUTH RIGHT-OF-WAY

AA6450'BRASS DISK ON TOP, CENTER OF CONCRETE HEADWALL IN SOUTH RIGHT-OF-WAY AA6450'OF BEE LINE, 15 FT (4.6 M) SOUTH OF SOUTH EDGE OF PAVEMENT OF

AA6450'EASTBOUND LANES. HEADWALL IS 0.4 MI (0.6 KM) EAST OF V546-22 AND AT

AA6450'MILE MARK 18.6. IN SECTION 35, TOWNSHIP 23 SOUTH, RANGE 31 EAST. SITE

AA6450'SUITABILITY FOR GPS OCCUPATION NOT DETERMINED. (DESCRIPTION

AA6450'SOURCE--THE ORANGE COUNTY ENGINEERING DEPARTMENT.)

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

#### REGISTRATION WORKSHEET - BEELNE Addendum BEELNE Type Recorder: CR10 Site Name: Today's Date: 9/2/2014 Activity: Addendum Effective Date: Start Date of Data: Customer: Garnett Ritchie Bus. Area: SCADA Maintenance Agency: SFWMD Internal Order: Fund: Project Manager: Amelia Rodriguez-Alers Bus. Area: Survey & Mapping Agency: SFWMD Contract #: Project Name: VDUP Legal Mandate: 1972 Florida Water Resources Act Short Common Name / Description: BEELNE Proj. Mgr. Notes: Addendum Added to Update NAVD88 Surveying Data. To convert to NGVD 29 add + 1.076 Site Directions: From the FOC, drive north on I-95 for approximately 130 miles to Hwy. 528; exit and turn west on to Hwy. 528. Drive west on Hwy. 528 for approximately 26 miles to the Central Florida Greenway (exit 16.) Drive north on the greenway for approximately 4.25 miles to SR-552 (Curry Ford Rd.) Exit and drive east for approximately .4 miles to Young Pine Rd., then turn south on to Young Pine Rd. Drive for approximately 2.85 miles to a large green building on the north side Site Address (if any): Transportation: Lock type or combination: Ablov S Stand-Alone Recorder (Non-Flow Site) Recorder Location/Purpose: Structure Type: Array ID Configuration table attached NO SURVEY INFORMATION B.M. Elevation: 81.591' Date: 6/6/1989 Stamp: BM V546022 Agency: ORG Type: BRASS Datum: NAVD 88 Benchmark Location/ Description CONCRETE HEADWALL SOUTH SIDE OF BEELINE HIGHWAY COMMUNICATIONS INFORMATION Loggernet IP Address: 141.232.83.94 Communications System: Loggernet Loggernet Server: STCLOG1 Tower: STCLDT Communication Type: R.F. (V.H.F. Radio) R.F. Code/Modem Address: 53 R.F. Access Point: NO Phone Number: RTU Address: Gateways: WELL INFORMATION Customer Top of Rottom Ground Renchmark Renchmark Ref Elev Elev Date Datum Ref Elevation Location Sensor 81.591 NAVD 88 8/25/2014 GW Sensor Location Meas Pt GW Land Depth of Type of Monitored Sensor Offset Elevation Elevation Well Well Interval Transmitted Interval COORDINATE INFORMATION Township Range County Descriptio Item/Parm X-Coord Y-Coord Sec

# No Survey Field Work available

3610

ake Hart 3610

Lake Hart

ake Hart

Orange

598854.555 1497300

N28° 27' 09.37 W81° 10' 42.0

N28° 27' 09.22 W81° 10' 41.9

RTU

#### REGISTRATION WORKSHEET - BEELNE Addendum Site Name: BEELNE Today's Date: 10/22/2014 Type Recorder: CR10 Effective Date: 10/16/2014 Activity: Addendum Start Date of Data: Garnett Ritchie Bus. Area: SCADA Maintenance Agency: SFWMD Internal Order: Customer: Fund: Project Manager: Jim Vincent Bus. Area: SCADA Maintenance Agency: SFWMD Contract #: Project Name: VDUP Legal Mandate: 1972 Florida Water Resources Act BEELNE Short Common Name / Description: Proj. Mgr. Notes: Addendum added to calibrate sensor to NAVD88 Surveyed Data. To convert to NGVD 29 add + 1.076 Site Directions: From the FOC, drive north on I-95 for approximately 130 miles to Hwy. 528; exit and turn west on to Hwy. 528. Drive west on Hwy. 528 for approximately 26 miles to the Central Florida Greenway (exit 16.) Drive north on the greenway for approximately 4.25 miles to SR-552 (Curry Ford Rd.) Exit and drive east for proximately 4 miles to Young Pine Rd., then turn south on to Young Pine Rd. Drive for approximately 2.85 miles to a large green building on the north side of Site Address (if any): Transportation: Lock type or combination: Ablov S Recorder Location/Purpose: Stand-Alone Recorder (Non-Flow Site) Structure Type: Array ID Configuration table attached NO SURVEY INFORMATION Stamp: BM V546022 Date: 6/6/1989 B.M. Elevation: 81.591' Agency: ORG Type: BRASS Datum: NAVD 88 CONCRETE HEADWALL SOUTH SIDE OF BEELINE HIGHWAY Benchmark Location/ Description COMMUNICATIONS INFORMATION Communications System: Loggernet Loggernet Server: STCLOG1 Loggernet IP Address: 141.232.83.94 Tower: Communication Type: R.F. (V.H.F. Radio) R.F. Code/Modem Address: 53 R.F. Access Point: NO STCLDT Phone Number: RTU Address: Gateways WELL INFORMATION Ref Elevation Location Ref GW Ser Meas Pt GW Land Depth of Monitored Type of Location Monitored Parameter Offset COORDINATE INFORMATION Item/Parm Y-Coord Sec Description Lat Long X-Coord

# No Survey Field Work available

3610 Lake Har

3610 Lake Har

Orange

### Site Information

11	Site	BEELNE
	Common Name	BEELNE (REPLACES BEELINE)
	Location	EAST OF ORLANDO ON BEELINE HIGHWAY
	Site Notes	CR10 SITE
	Contact	ROBB STARTZMAN / WAYNE HERMANN

## Station Information for Site BEELNE

Station	Description	Latitude	Longitude	Xcoord	Ycoord	County	Basin	Section	Town	Range
BEELINE_G	BEELINE HIGHWAY GROUNDWATER, NEAR ORLANDO	282710.01	811041.222	598931.958	1497364	ORA	L HART	26	23	31
BEELINE_R	BEELINE HIGHWAY RAINFALL, NEAR ORLANDO	282710.01	811041.222	598931.958	1497364	ORA	L HART	26	23	31

\* Need site benchmark.

#### REGISTRATION WORKSHEET - BEELNE Addendum

Site Name:

BEELNE

Today's Date: 9/15/2011

Type Recorder: CR10

Activity:

Addendum

Effective Date: 7/18/2011

Start Date of Data:

Customer:

Dave Anderson

Bus. Area: 7232

Agency: SFWMD

Internal Order:

Project Manager:

Blair Kennedy

Bus. Area: 5720

Agency: SFWMD

Contract #

Project Name:

Loggernet Radio Conversion

Legal Mandate: 1972 Florida Water Resources Act

Short Common Name / Description: BEELNE This site has had its radio and modem upgraded. No changes to the program have been made. Use the map in the site folder to access the site (do not climb Proj. Mgr. Notes: over the fence near SR-528.) From the FOC, drive north on I-95 for approximately 130 miles to Hwy. 528; exit and turn west on to Hwy. 528. Drive west on Hwy. 528 for approximately 26 Site Directions: miles to the Central Florida Greenway (exit 16.) Drive north on the greenway for approximately 4.25 miles to SR-552 (Curry Ford Rd.) Exit and drive east for approximately 4 miles to Young Pine Rd., then turn south on to Young Pine Rd. Drive for approximately 2.85 miles to a large green building on the north side of the road; sign in so they will know you are on the site.

Site Address (if any):

Transportation:

Lock type or combination:

Abloy S

Recorder Location/Purpose:

Stand-Alone Recorder (Non-Flow Site)

Structure Type:

Array ID Configuration table attached

NO

Date: 6/6/1989

Stamp: BM V546022

B.M. Elevation: 82.63' Agency: ORG

Type: BRASS

Datum:

NGVD29

Benchmark Location/ Description CONCRETE HEADWALL SOUTH SIDE OF BEELINE HIGHWAY

COMMUNICATIONS INFORMATION

Communications System: Loggernet

Loggernet Server: STCLOG1

Loggernet IP Address: 141.232.83.94

Tower:

STCLDT

Communication Type: R.F. (V.H.F. Radio)

R.F. Code/Modem Address: 53

R.F. Access Point: NO

Phone Number:

RTU Address:

Gateways:

WELL INFORMATION

CERTIFIED 12 10 22 41	Customer Ref Elev		Elev Elev	the part of the prison of the last in the	Ref Devation Location
CIM/1	90.26	8/10/2006[90.26]	82.63	NGVD 29	Top of the well

GW Sensor Location Meas Pt Sensor Offset Elevation	Depth of Type o	Monitored	A P. LAND STREET, SEC. BUILDING	Parameter Transmitted						
GW1	 Static		<u> </u>		 L	L	L		 	J

## COORDINATE INFORMATION THE RESERVE TO THE RESERVE THE PROPERTY OF THE PROPERTY

Item/Parm	Lat Long X	-Coord	Y-Coord	Sec	Township	Range	Quad	THE PARTY OF	lasin County	Description
GW1	N28° 27' 09.37 W81° 10' 42.01 5	98854.555	1497300	26	23	31	3610	Lake Hart	Orange	
RTU	N28° 27' 09.37 W81° 10' 42.01 5	98854.555	1497300	26	23	31	3610	Lake Hart	Orange	
Rain Gage	N28° 27' 09.22 W81° 10' 41.9 5	98865.974	1497285	26	23	31	3610	Lake Hart	Orange	







Survey Data Entry and Retrieval Application (SDERA) Print Output

#### **Control Point Search Results** Derived Data - Denoted By: \*\* ACCEPTED V546022 Designation Record State NGS PID AA6449 BEELNE WELL SITE Date Entered/Updated 06/27/2009 Project Name Updated By ATLAS DATA LOAD Status Party Chief Type 01/01/1989 Date Established Monument Set By County ORANGE Section 35 Range 31 Townshin 23 Quadrangle NARCOOSSEE NW Offset (29 to 88) CCR Link NGS Source BM Ctrl Pt Source(s) NAVD 1988 **Horizontal** NAD 1927 NAD 1983 Vertical NGVD 1929 28 27 04.0 Latitude Class Longitude 81 11 04.0 Order 2 Northing(Y) Elevation 81.591 Easting(X) Measurement Unit Feet Feet Class Order NAD83 Adj Year Field Book Field Book Pages Stamping V546-22 How to Reach Description CORPSCON EL. 82.63 NGVD 1929 THE NGS DATA SHEET SEE FILE DSDATA.TXT FOR MORE INFORMATION ABOUT THE DATASHEET.DATABASE = SYBASE, PROGRAM = DATASHEET, VERSION = 7.37 1 NATIONAL GEODETIC SURVEY, RETRIEVAL DATE = AUGUST 10, 2006 AA6449 \*\*\* AA6449 DESIGNATION - V 546 022 AA6449 PID - AA6449 AA6449 STATE/COUNTY-FL/ORANGE AA6449 USGS QUAD - NARCOOSSEE NW (1980) AA6449 AA6449 \*CURRENT SURVEY CONTROL AA6449 AA6449\* NAD 83(1986)- 28 27 04. (N) 081 11 04. (W) SCALED AA6449\* NAVD 88 - 24.869 (METERS) 81.59 (FEET) ADJUSTED AA6449 AA6449 GEOID HEIGHT--27.98 (METERS) GEOID03 AA6449 DYNAMIC HT - 24.833 (METERS) 81.47 (FEET) COMP

AA6449 MODELED GRAV- 979,189.4 (MGAL) NAVD 88

AA6449 VERT ORDER - SECOND CLASS I

AA6449

AA6449

AA6449.THE HORIZONTAL COORDINATES WERE SCALED FROM A TOPOGRAPHIC MAP AND HAVE

AA6449.AN ESTIMATED ACCURACY OF +/- 6 SECONDS.

AA6449

AA6449.THE ORTHOMETRIC HEIGHT WAS DETERMINED BY DIFFERENTIAL LEVELING

AA6449.AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN DECEMBER 1995..

AA6449

AA6449.THE GEOID HEIGHT WAS DETERMINED BY GEOID03.

AA6449

AA6449.THE DYNAMIC HEIGHT IS COMPUTED BY DIVIDING THE NAVD 88

AA6449.GEOPOTENTIAL NUMBER BY THE NORMAL GRAVITY VALUE COMPUTED ON THE

AA6449.GEODETIC REFERENCE SYSTEM OF 1980 (GRS 80) ELLIPSOID AT 45

AA6449.DEGREES LATITUDE (G = 980.6199 GALS.).

AA6449

AA6449.THE MODELED GRAVITY WAS INTERPOLATED FROM OBSERVED GRAVITY VALUES.

AA6449

AA6449; NORTH EAST UNITS ESTIMATED ACCURACY

AA6449;SPC FL E - 456,210. 181,940. MT (+/- 180 METERS SCALED)

AA6449

AA6449 SUPERSEDED SURVEY CONTROL

AA6449

AA6449.NO SUPERSEDED SURVEY CONTROL IS AVAILABLE FOR THIS STATION.

AA6449

AA6449 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM819471(NAD 83)

AA6449 MARKER: DD = SURVEY DISK

AA6449 SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE

AA6449\_SP\_SET: CONCRETE HEADWALL

AA6449 STAMPING: V546-22 AA6449 MARK LOGO: FL-095

AA6449 MAGNETIC: O = OTHER; SEE DESCRIPTION

AA6449\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AA6449+STABILITY: SURFACE MOTION

AA6449

AA6449 HISTORY - DATE CONDITION REPORT BY

AA6449 HISTORY - 1989 MONUMENTED FL-095

AA6449

AA6449 STATION DESCRIPTION

AA6449

AA6449 DESCRIBED BY ORANGE COUNTY FLORIDA 1989 (PKV)

AA6449 BRASS DISK ON TOP, CENTER OF CONCRETE HEADWALL IN SOUTH RIGHT-OF-WAY

AA6449 OF THE BEE LINE, 12 FT (3.7 M) SOUTH OF SOUTH EDGE OF PAVEMENT OF

AA6449 EASTBOUND LANES. HEADWALL IS 0.6 MI (1.0 KM) EAST OF V546-21 AND AT

AA6449 MILE MARKER 18.2. IN SECTION 35, TOWNSHIP 23 SOUTH, RANGE 31 EAST.

AA6449 SITE SUITABILITY FOR GPS OCCUPATION NOT DETERMINED. (DESCRIPTION AA6449 SOURCE--THE ORANGE COUNTY ENGINEERING DEPARTMENT.)

#### \*\*\* RETRIEVAL COMPLETE.

ELAPSED TIME = 00:00:00

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Survey Data Entry and Retrieval Application (SDERA) Print Output

Control	Point	Search	Results

Derived Data - Denoted By: \*\*

Designation	V546023	Record State	ACCEPTED
NGS PID	AA6450		
Project Name	BEELNE WELL SITE	Date Entered/Updated	06/27/2009
Updated By	ATLAS DATA LOAD	Status	
Party Chief		Туре	v
Monument Set By		Date Established	01/01/1989
County	ORANGE	Section	35
Township	23	Range	31
Quadrangle	NARCOOSSEE NW	Offset (29 to 88)	
NGS Source BM		CCR Link	
Ctrl Pt Source(s)			

NGVD 1929 **NAVD 1988** <u>Horizontal</u> NAD 1927 NAD 1983 Vertical Latitude 28 27 04.0 Class 81 10 43.0 Order Longitude Northing(Y) Elevation 83,93 82.887 Measurement Unit Easting(X) Feet Feet Class

NAD83 Adj Year

Order

Field Book Pages

Field Book

Stamping V546-23

How to Reach

Description

CORPSCON EL. 83.93 NGVD 1929

\*\*\*\*

THE NGS DATA SHEET

SEE FILE DSDATA.TXT FOR MORE INFORMATION ABOUT THE DATASHEET.DATABASE = SYBASE , PROGRAM = DATASHEET, VERSION = 7.37

1 NATIONAL GEODETIC SURVEY, RETRIEVAL DATE = JULY 26, 2006

AA6450 DESIGNATION - V 546 023

AA6450 PID - AA6450

AA6450 STATE/COUNTY-FL/ORANGE

AA6450 USGS QUAD - NARCOOSSEE NW (1980)

AA6450

AA6450 \*CURRENT SURVEY CONTROL

AA6450

AA6450\* NAD 83(1986)- 28 27 04. (N) 081 10 43. (W) SCALED

AA6450\* NAVD 88 - 25.264 (METERS) 82.89 (FEET) ADJUSTED

AA6450

AA6450 GEOID HEIGHT- -27.99 (METERS) GEOID03

AA6450 DYNAMIC HT - 25.227 (METERS) 82.77 (FEET) COMP

AA6450 MODELED GRAV- 979,189.6 (MGAL) NAVD 88

AA6450

AA6450 VERT ORDER - SECOND CLASS I

AA6450

AA6450.THE HORIZONTAL COORDINATES WERE SCALED FROM A TOPOGRAPHIC MAP AND HAVE

AA6450.AN ESTIMATED ACCURACY OF +/- 6 SECONDS.

A A 6450

AA6450.THE ORTHOMETRIC HEIGHT WAS DETERMINED BY DIFFERENTIAL LEVELING

AA6450.AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN DECEMBER 1995..

AA6450

AA6450.THE GEOID HEIGHT WAS DETERMINED BY GEOID03.

AA6450

AA6450.THE DYNAMIC HEIGHT IS COMPUTED BY DIVIDING THE NAVD 88

AA6450.GEOPOTENTIAL NUMBER BY THE NORMAL GRAVITY VALUE COMPUTED ON THE

AA6450.GEODETIC REFERENCE SYSTEM OF 1980 (GRS 80) ELLIPSOID AT 45

AA6450.DEGREES LATITUDE (G = 980.6199 GALS.).

AA6450

AA6450.THE MODELED GRAVITY WAS INTERPOLATED FROM OBSERVED GRAVITY VALUES.

AA6450

AA6450; NORTH EAST UNITS ESTIMATED ACCURACY

AA6450;SPC FL E - 456,210. 182,510. MT (+/- 180 METERS SCALED)

AA6450

AA6450 SUPERSEDED SURVEY CONTROL

AA6450

AA6450.NO SUPERSEDED SURVEY CONTROL IS AVAILABLE FOR THIS STATION.

AA6450

AA6450 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM825471(NAD 83)

AA6450 MARKER: DD = SURVEY DISK

AA6450\_SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE

AA6450 SP SET: CONCRETE HEADWALL

AA6450\_STAMPING: V546-23

AA6450 MARK LOGO: FL-095

AA6450\_MAGNETIC: O = OTHER; SEE DESCRIPTION

AA6450 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AA6450+STABILITY: SURFACE MOTION

AA6450

AA6450 HISTORY - DATE CONDITION REPORT BY

AA6450 HISTORY - 1989 MONUMENTED FL-095

AA6450

AA6450 STATION DESCRIPTION

AA6450

AA6450 DESCRIBED BY ORANGE COUNTY FLORIDA 1989 (PKV)

AA6450 BRASS DISK ON TOP, CENTER OF CONCRETE HEADWALL IN SOUTH RIGHT-OF-WAY

AA6450 OF BEE LINE, 15 FT (4.6 M) SOUTH OF SOUTH EDGE OF PAVEMENT OF

AA6450 EASTBOUND LANES. HEADWALL IS 0.4 MI (0.6 KM) EAST OF V546-22 AND AT

AA6450 MILE MARK 18.6. IN SECTION 35, TOWNSHIP 23 SOUTH, RANGE 31 EAST. SITE

AA6450 SUITABILITY FOR GPS OCCUPATION NOT DETERMINED. (DESCRIPTION

AA6450 SOURCE--THE ORANGE COUNTY ENGINEERING DEPARTMENT.)

#### \*\*\* RETRIEVAL COMPLETE.

ELAPSED TIME = 00:00:00

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## Office

## **Project**

23 June 2014

### **INPUT**

Geographic, NAD83 Vertical - NAVD88, U.S. Feet

### **OUTPUT**

Geographic, NAD83 Vertical - NGVD29 (Custom), U.S. Feet

beelne

1/1

Latitude: 28 27 04.0 Longitude: 081 11 04.0

Latitude: 28.451111111 Longitude: 81.184444444

Elevation/Z: 0

Elevation/Z: 1.076