



# SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

|  |  |                                     |                                  |   |
|--|--|-------------------------------------|----------------------------------|---|
| SCADA RTU Station Name:<br><b>C4359C</b><br><b>C4359B</b><br><b>C4359A</b> | DB Hydro Station Name:<br><b>C4359G3</b><br><b>C4359G2</b><br><b>C4359G1</b> | DB Hydro Site Name:<br><b>C4359</b> | Agency:<br><b>S.F.W.M.D</b>      | Date of Field Work:<br><b>4/24/2019</b> |
| Party Chief: <b>EBANKS</b>   | Field Book:<br><b>SCADA FB# 13</b>   | Page(s): <b>27</b>                  | Prepared by:<br><b>E. Ebanks</b> |   |

### SITE SPECIFIC DATA

|  |   |  |
|--|---|--|
| Site Benchmark(s):<br><b>PZ59 2018</b><br><b>COMELAS 2015</b>  | Benchmark Elevation(s) (NAVD88)<br><b>24.28 feet</b><br><b>24.28 feet</b> | Corpcon 6.0.1 Conversion Factor (NAVD88 to NGVD29)<br><b>+1.25 feet</b>    |
| Reference Elevation(s) (NAVD88):<br><b>C4359C = 27.81 feet</b><br><b>C4359B = 27.94 feet</b><br><b>C4359A = 27.82 feet</b> |   | Calibration Port Elevation(s) (NAVD88):<br><b>N/A</b>                      |
| Ground Elevation (NAVD88): <b>24.1 feet</b>  |   | Pad Elevation (NAVD88): <b>C= 24.52 feet, B= 24.63 feet, A= 24.52 feet</b> |

### GEOGRAPHIC DATA

|                                     |  |  |
|-------------------------------------|--|--|
| Section <b>10</b>                   | Township <b>44 South</b>   | Range <b>28 East</b>   |
| Well(s) Gate(s)<br><br>Benchmark(s) | Latitude:<br><b>C4359C 26°39'31.7"</b><br><b>C4359B 26°39'31.7"</b><br><b>C4359A 26°39'31.7"</b> | Longitude:<br><b>C4359C -81°30'35.5"</b><br><b>C4359B -81°30'35.6"</b><br><b>C4359A -81°30'35.7"</b> |
| State Plane Coordinates             |  | Northing (Y) = <b>N/A</b><br>Easting (X) = <b>N/A</b>  |

**Notes:** **NAVD88** – North American Vertical Datum of 1988; **NGVD29** - National Geodetic Vertical Datum of 1929; **Corpcon 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

## Aerial of Overall Site

Not to scale (esri product)

**COMELAS**

Benchmark "COMELAS"  
 Latitude: 26°39'31.2"  
 Longitude: -81°30'38.0"  
 El. 24.28 feet NAVD88

**PZ59**

Benchmark "PZ59"  
 Latitude: 26°39' 31.7"  
 Longitude: -81°30'35.7"  
 El.24.28 feet NAVD88

**C4359C**

Latitude: 26°39'31.7"  
 Longitude: -81°30'35.5"

**C4359B**

Latitude: 26°39'31.7"  
 Longitude: -81°30'35.6"

**C4359A**

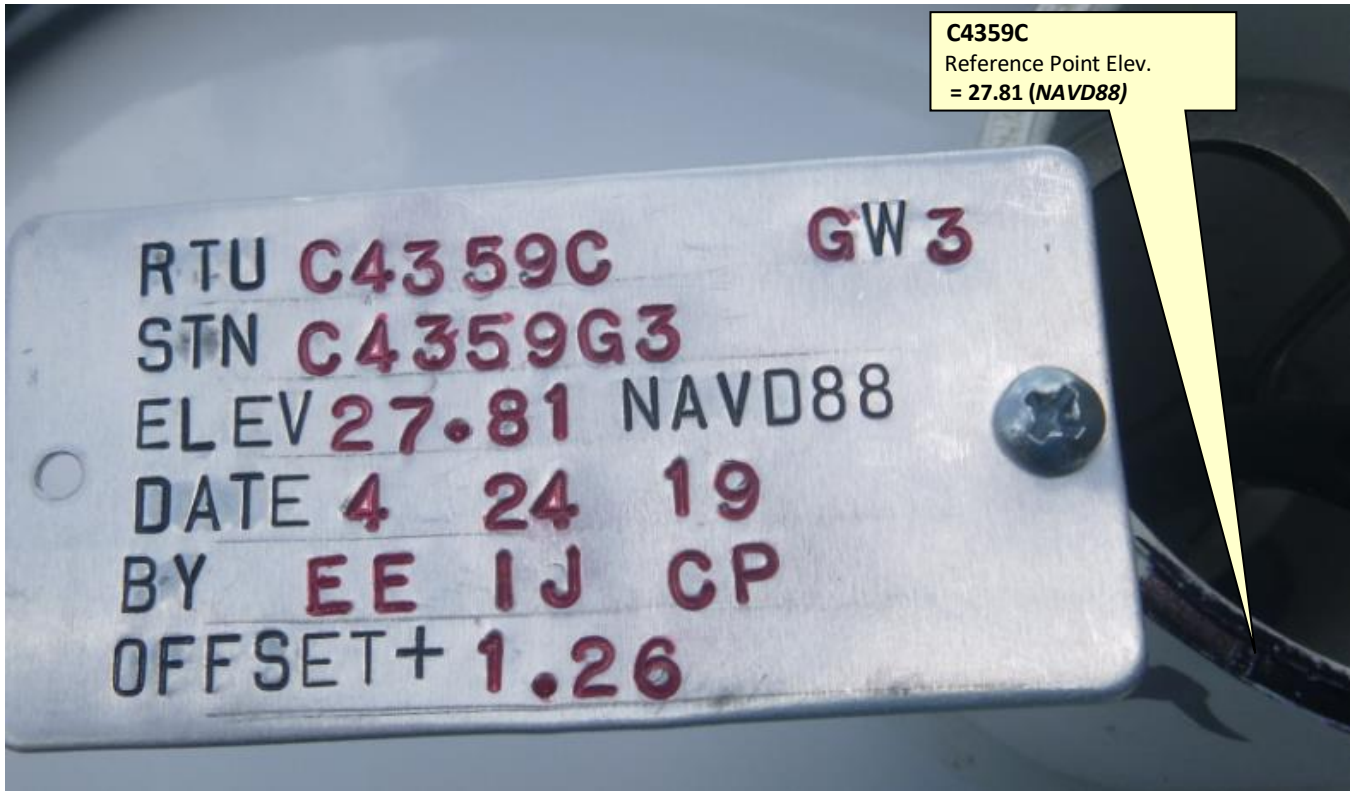
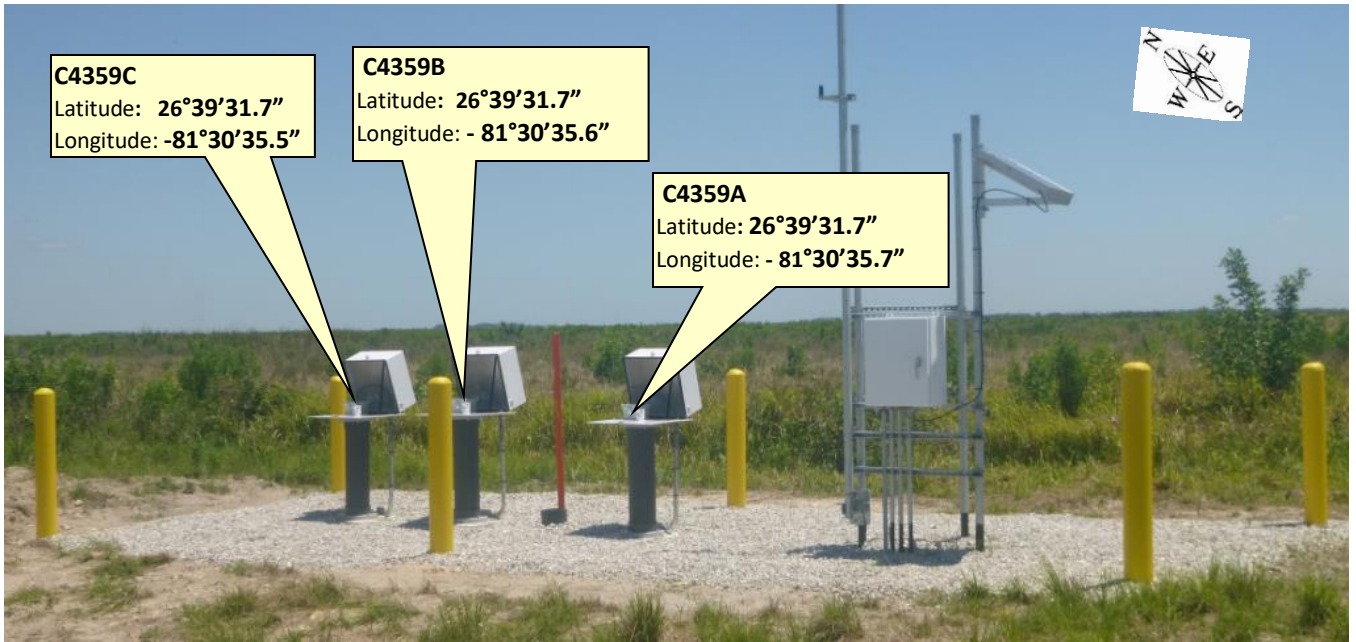
Latitude: 26°39'31.7"  
 Longitude: -81°30'35.7"



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## C4359 Well Site



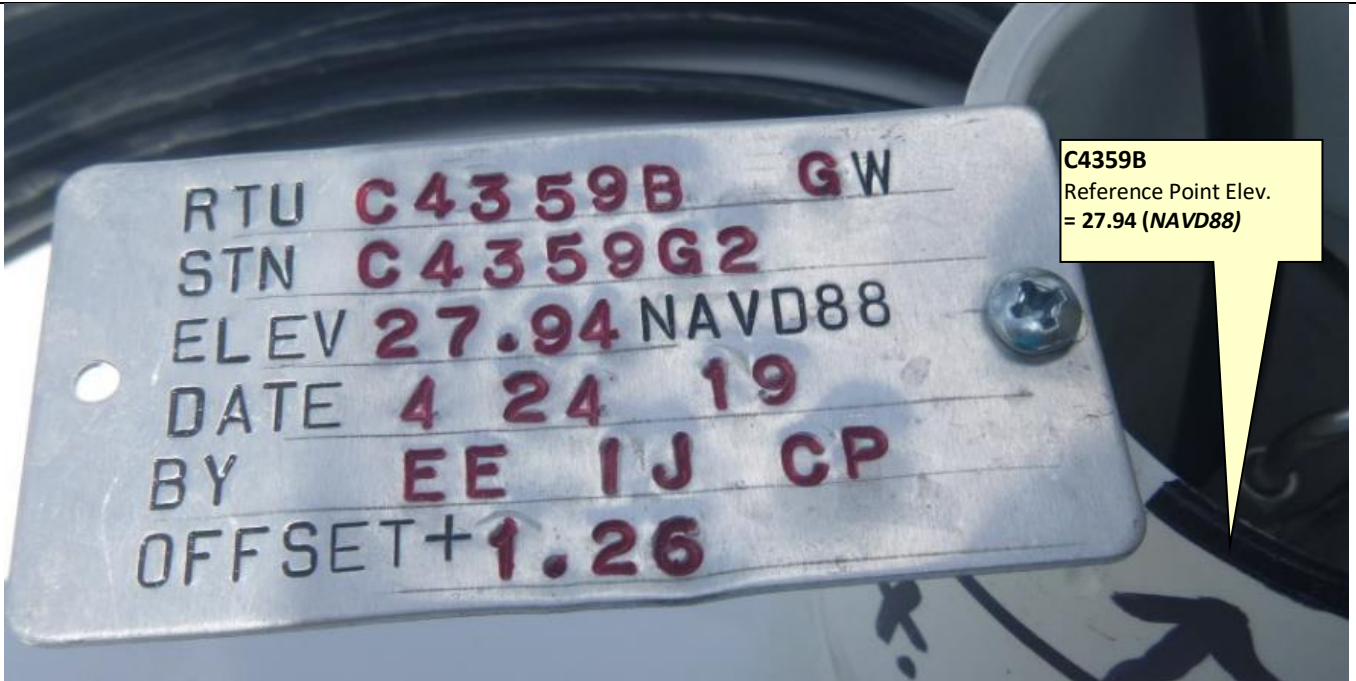




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**C4359 Wells**

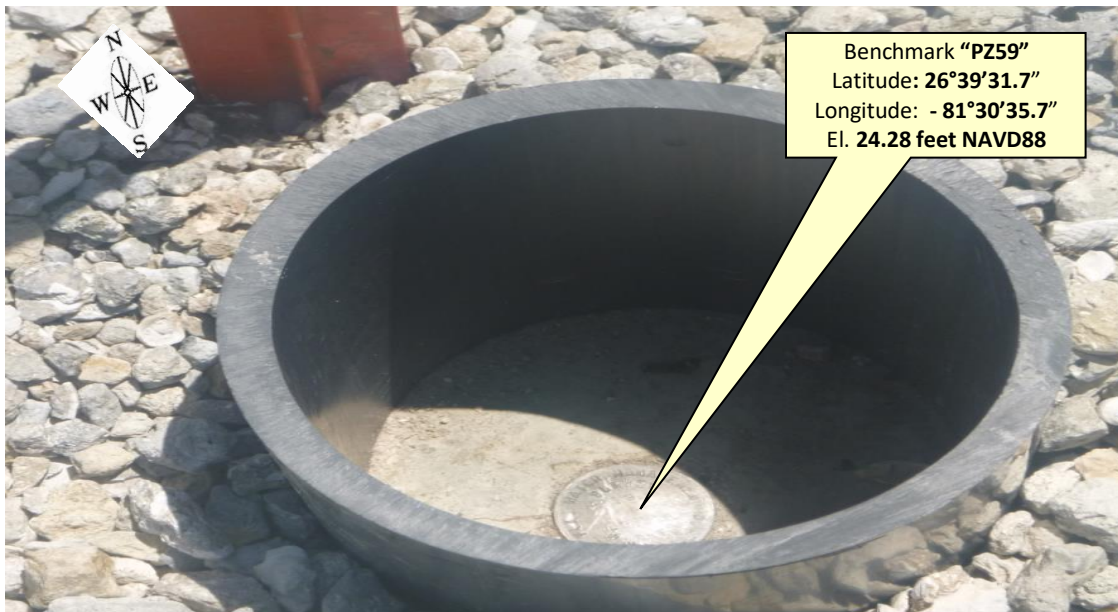
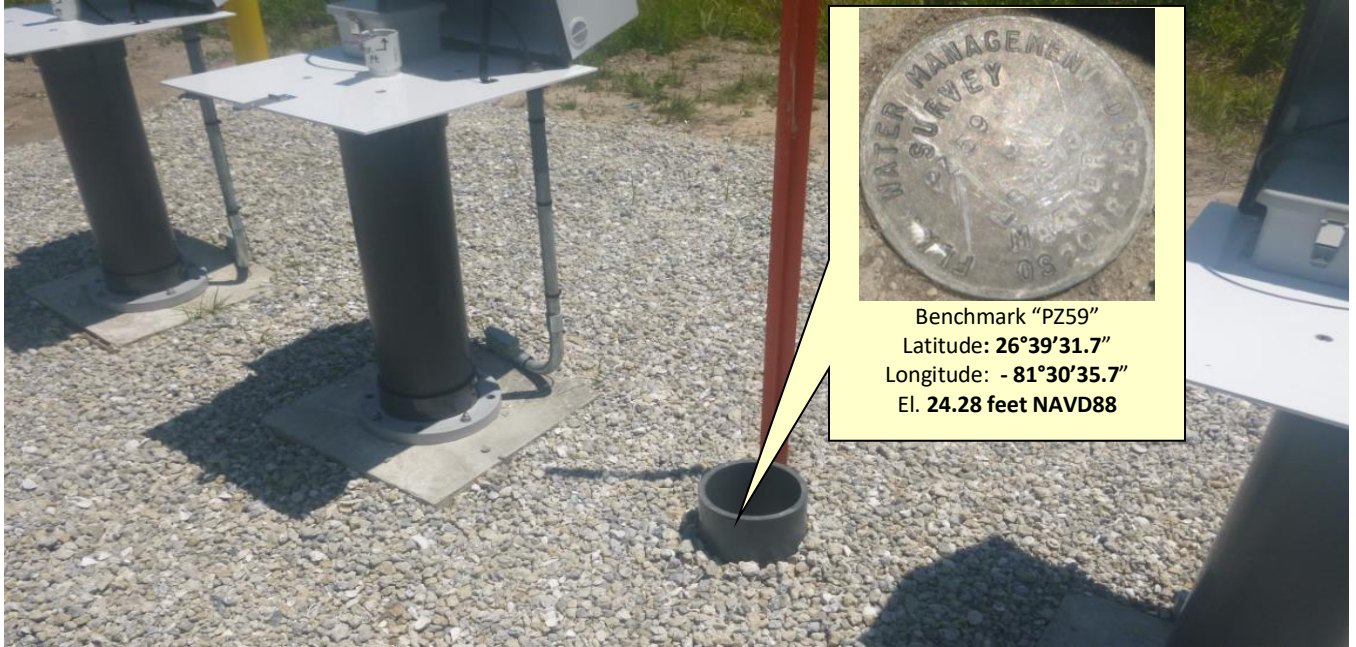




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## "PZ59" Benchmark Location Benchmark: El.24.28 feet (NAVD88)







# SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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## "PZ59" Benchmark Datasheet (1 of 1)



### SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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|   |                           |  |  |
|---|---------------------------|--|--|
| DESIGNATION: PZ 59  |                           | PROJECT: C-43 VERTICAL CONTROL SURVEY FOR PIEZOMETER WELLS |  |
| ESTABLISHED BY: J. HAYWOOD  |                           | SURVEYOR: SCOTT URQUHART                                   |  |
| RECOVERED BY  |                           | DATE: MARCH 1, 2018  |  |
| <b>GEOGRAPHIC POSITION</b>  |                           |  |  |
| SECTION: 10   | TOWNSHIP: 44 SOUTH        | RANGE: 28 EAST   |  |
| COUNTY: HENDRY  | NAME OF QUADRANGLE: ALVA  |  |  |
|   | GEOGRAPHIC INDEX OF QUAD: |  |  |
| HORIZONTAL DATUM: 1927 <input checked="" type="radio"/> 1983 Other _____ (circle one) ZONE <input checked="" type="radio"/> E or W  |                           |  |  |
| VERTICAL DATUM: MSL 1929 <input checked="" type="radio"/> 1988 Other N/A (circle one)   |                           |  |  |
| CONTROL ACCURACY: HORIZONTAL 1 2 <input checked="" type="radio"/> _____ (circle one) VERTICAL 1 2 <input checked="" type="radio"/> N/A  |                           |  |  |
| STATE PLANE COORDINATES   | X = 489638.6              | Y = 845472.4   | NAVD 88 ELEV. 24.28'<br>NGVD 29 ELEV. 25.55' |
| LATITUDE = N26° 39' 31.62"  |                           | LONGITUDE = W81° 30' 35.59"                                |  |
| <b>RECOVERY DESCRIPTION</b>   |                           |  |  |
| Stamping: SET ALUMINIUM DISK SO. FLA. WATER MANAGEMENT DIST. "PZ 59 LB 7975 2018"   |                           |  |  |
| To Reach: To reach the station from the intersection of S.R. 80 and West Cowboy Way, Go along S.R. 80 southwest for 3.9 miles to Congen Rd. on the left. Go along Congen Rd. South 0.14 miles to gate (SFWMD Lock) continue South 0.4 miles to the intersection of an East-West dirt road. Thence go West, along the dirt road, for 2.5 miles, to the intersection with a dirt road to the North. Thence go North, along the dirt road on the East side of a canal, for 0.4 miles to the junction of an East – West dirt road, thence East 0.26 miles to a junction of a dirt road South, 3 miles south the road turns West. Go West 0.30 miles, the mark is on the left. |                           |  |  |
| Notable Land marks: PZ 59, is an aluminum disk set in a concrete pad that is 65 feet North of the top of bank of the East – West canal, 3 feet south of the middle well in the row of three and 3 feet north of most southerly well in the row of three.  |                           |  |  |
| FIELD BOOK: 510   |                           | PAGE: 36   |  |



# SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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## "COMELAS" Benchmark Datasheet (1 of 2)

### 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 = DECEMBER 28, 2017
DP7139 *****
DP7139 DESIGNATION - COMELLAS
DP7139 PID - DP7139
DP7139 STATE/COUNTY- FL/HENDRY
DP7139 COUNTRY - US
DP7139 USGS QUAD - ALVA (1973)
DP7139
DP7139 *CURRENT SURVEY CONTROL
DP7139
DP7139* NAD 83(1986) POSITION- 26 39 31.16 (N) 081 30 37.99 (W) HD_HELDT
DP7139* NAVD 88 ORTHO HEIGHT - 7.401 (meters) 24.28 (feet) ADJUSTED
DP7139
DP7139 GEOID HEIGHT - -24.477 (meters) GEOID12B
DP7139 DYNAMIC HEIGHT - 7.389 (meters) 24.24 (feet) COMP
DP7139 MODELED GRAVITY - 979,076.7 (mgal) NAVD 88
DP7139
DP7139 VERT ORDER - SECOND CLASS I
DP7139
DP7139.The horizontal coordinates were determined by differentially corrected
DP7139.hand held GPS observations or other comparable positioning techniques
DP7139.and have an estimated accuracy of +/- 3 meters.
DP7139.
DP7139.The orthometric height was determined by differential leveling and
DP7139.adjusted by the NATIONAL GEODETIC SURVEY
DP7139.in May 2015.
DP7139
DP7139.Significant digits in the geoid height do not necessarily reflect accuracy.
DP7139.GEOID12B height accuracy estimate available here.
DP7139
DP7139.Photographs are available for this station.
DP7139
DP7139.The dynamic height is computed by dividing the NAVD 88
DP7139.geopotential number by the normal gravity value computed on the
DP7139.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DP7139.degrees latitude (g = 980.6199 gals.).
DP7139
DP7139.The modeled gravity was interpolated from observed gravity values.
DP7139
DP7139; North East Units Estimated Accuracy
DP7139;SPC FL E - 257,686.6 149,175.6 MT (+/- 3 meters HHL GPS)
DP7139
DP7139_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMK4919248730(NAD 83)
DP7139
DP7139 SUPERSEDED SURVEY CONTROL
DP7139
DP7139.No superseded survey control is available for this station.
DP7139
DP7139_MARKER: F = FLANGE-ENCASED ROD
DP7139_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

```

[https://www.ngs.noaa.gov/cgi-bin/ds\\_mark.pl?PidBox=DP7139](https://www.ngs.noaa.gov/cgi-bin/ds_mark.pl?PidBox=DP7139)

12/28/2017



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## "COMELAS" Benchmark Datasheet (2 of 2)

DATASHEETS

Page 2 of 2

DP7139\_STAMPING: COMELLAS 2015  
 DP7139\_MARK LOGO: CARDNO  
 DP7139\_PROJECTION: RECESSED 15 CENTIMETERS  
 DP7139\_MAGNETIC: 0 = OTHER; SEE DESCRIPTION  
 DP7139\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL  
 DP7139\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 DP7139+SATELLITE: SATELLITE OBSERVATIONS - February 05, 2015  
 DP7139\_ROD/PIPE-DEPTH: 17.8 meters

| DP7139 | HISTORY | - Date     | Condition  | Report By |
|--------|---------|------------|------------|-----------|
| DP7139 | HISTORY | - 20150205 | MONUMENTED | CARDNO    |

DP7139  
 DP7139 STATION DESCRIPTION

DP7139'DESCRIBED BY CARDNO INC 2015 (JH)  
 DP7139'THE STATION IS LOCATED APPROXIMATELY 9 MI (14.5 KM) SOUTHWEST OF  
 DP7139'LABELLE, 3.9 MI (6.3 KM) SOUTHEAST OF ALVA.  
 DP7139'  
 DP7139'THE STATION IS ON THE PROPERTY OF THE SOUTH FLORIDA WATER MANAGEMENT  
 DP7139'DISTRICT.  
 DP7139'  
 DP7139'TO REACH THE STATION FROM THE INTERSECTION OF STATE ROAD 80 (PALM  
 DP7139'BEACH BLVD) AND WEST COWBOY WAY ON THE SOUTHWEST SIDE OF LABELLE, GO  
 DP7139'SOUTHWEST ALONG STATE ROAD 80 FOR 3.9 MI (6.3 KM) TO CONGEN ROAD ON  
 DP7139'THE LEFT (SOUTH), GO SOUTH ALONG CONGEN ROAD 0.14 MI (0.2 KM) TO  
 DP7139'GATE(PASS THROUGH GATE WITH SFWMD LOCK). CONTINUE SOUTH 0.4 MI (0.6  
 DP7139'KM) TO THE JUNCTION OF AN EAST - WEST DIRT ROAD, THENCE EAST ALONG  
 DP7139'DIRT ROAD FOR 0.26 MI (0.4 KM) TO THE JUNCTION OF A DIRT ROAD TO THE  
 DP7139'SOUTH, THENCE SOUTH ALONG DIRT ROAD FOR 3.0 MI (4.8 KM) TO THE  
 DP7139'JUNCTION OF A DIRT ROAD TO THE WEST, THENCE ALONG DIRT ROAD TO THE  
 DP7139'WEST FOR 0.4 MI (0.6 KM) TO THE MARK ON THE LEFT.  
 DP7139'  
 DP7139'IT IS 17.2 FT (5.2 M) NORTH OF THE TOP OF BANK OF A CANAL, 14.0 FT  
 DP7139'(4.3 M) NORTHEAST OF AN 18 INCH CABBAGE PALM, 12.4 FT (3.8 M) SOUTH OF  
 DP7139'THE CENTERLINE OF A DIRT ROAD AND 3 FT (0.9 M) NORTH OF A CARSONITE  
 DP7139'WITNESS POST.  
 DP7139'  
 DP7139'NOTE ACCESS TO THE DATUM POINT IS THROUGH A 5 INCH (13 CM) LOGO CAP.

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





# SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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C4359R Field Notes (1 of 1)

SCADA FB# 13 4-24-19 27

Sec. 10 TWP. 44 Rge 28

Ebanks  
Jones  
Porter

Establish REF. Elev. For wells @ C-43 Reservoir  
Well C-43 59

| HTA         | +    | HTA   | -     | Elev   | Remarks |
|-------------|------|-------|-------|--------|---------|
| BM PZ 59    | 5.08 | 29.30 |       | 24.28  |         |
| GW 13 A C   |      |       | 1.55  | 27.81  | ✓       |
| GW 2 - B    |      |       | 1.42  | 27.94  | ✓       |
| GW 11 A     |      |       | 1.54  | 27.82  | ✓       |
| GW 1 PAD 3  |      |       | 4.84  | 24.52  |         |
| GW 2 PAD    |      |       | 4.73  | 24.63  |         |
| GW 3 PAD 1  |      |       | 4.84  | 24.52  |         |
| Ground E    |      |       | 5.3   | 24.1   | ✓       |
| Ground N    |      |       | 5.6   | 23.8   | ✓       |
| Ground W    |      |       | 5.7   | 23.7   | 24.1    |
| Ground S    |      |       | 4.7   | 24.7   | ✓       |
| BM Comelas  |      |       | 5.07  | 24.29  | (24.28) |
|             |      | R+    |       |        |         |
| BM Comelas  | 5.25 | 29.54 |       | 24.28  |         |
| Well GW 3 1 |      |       | 1.715 | 27.825 |         |
| " GW 2      |      |       | 1.60  | 27.94  |         |
| " GW X 3    |      |       | 1.725 | 27.815 |         |
| BM PZ 59    |      |       | 5.26  | 24.28  |         |

6/20/19 Well Ad. C Revised per SCADA instructions  
KE (C. Gomez)