

PREPARED FOR

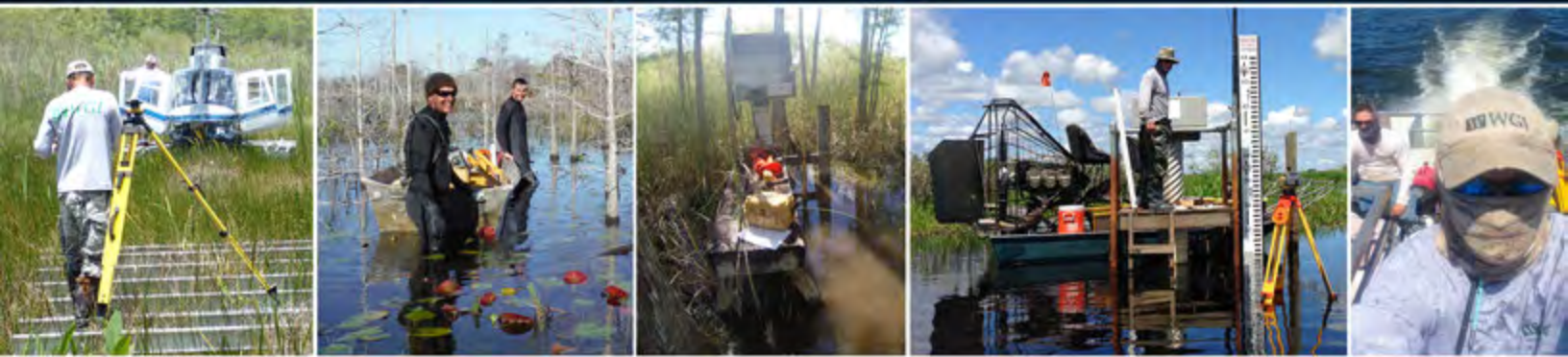


HYDROGRAPHIC TECHNOLOGY SERVICES

# SPECIFIC PURPOSE SURVEY SURVEYOR'S REPORT

VERTICAL DATUM UPGRADE PROJECT

WO# 4600002187-WO13  
SAP PO# 9500007032  
WGI# 1071.13



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# **Overview of Project**

## OVERVIEW OF PROJECT

### **Purpose of Project:**

Procure all materials to construct and install 60 staff gauges (and 1 staff gauge BBCW1 from 4600002187-WO14) calibrated to the North American Vertical Datum of 1988 (NAVD88) at various sites identified by the Vertical Datum Project Manager. Establish a new NAVD88 Bench Mark at sites where needed, and prepare a SFWMD Bench Mark Data Sheet. Establish a NAVD88 Reference Elevation on the inside deck of existing Telemetry Stations and Ground Well Sites, and stamp site specific data onto a brass tag, using a steel stamp die set. The brass tags were delivered to SFWMD and would be installed by SFWMD Field Personnel during site inspections.

### **Accuracy:**

Staff gauges have been set (adjusted) to the nearest two hundredth (.02') of a foot. Elevations have been transferred from bench mark using a digital level, level rod, and redundant measurements.

### **Bench Marks:**

A bench mark was provided by SFWMD at each location, unless otherwise noted, and used to establish the reference elevation and calibrate each staff gauge. Six (6) new bench marks were set during this project.

### **Survey Equipment Used:**

Topcon DL-502 (Digital Level)  
Fiberglass Digital Level Rods  
Conventional Level Rod

### **Vertical Datum Factor:**

The staff gauges in this report, have been correctly calibrated to the North American Vertical Datum of 1988. The datum conversion to the National Geodetic Vertical Datum of 1929 (NGVD 29), as shown herein and engraved on each gauge, were provided by the SFWMD VDUP Project Manager.

### **Completion Date:**

Staff Gauge installation and calibration was completed on July 26, 2017.

### **Construction:**

Each Staff Gauge is attached to a 4" O.D. galvanized steel pipe with stainless steel hardware, except where installed on existing structures or pilings, as noted on the installation sheet. The pipes were driven by jack hammer to a depth to achieve required stability, to a minimum of 10', unless otherwise noted. Sections of pipes were attached with a galvanized threaded coupling.

# **Details of Staff Gauges**

Staff Gauge Detail Summary:

Gauges completed:

| Staff Gauge Site | Latitude        | Longitude       | Bench-mark Used | Benchmark Elevation NAVD88 | Well Head Reference BM Elevation | Conversion Elevation to NGVD29 |
|------------------|-----------------|-----------------|-----------------|----------------------------|----------------------------------|--------------------------------|
| BBCW1            | 25° 27' 55.2"   | 80° 20' 45.8"   | DCBM F61 1      | 7.13'                      | N/A                              | +1.53'                         |
| BARW4            | 25° 59' 41.567" | 81° 20' 49.25"  | CEH4            | 6.543'                     | 13.07'                           | +1.37'                         |
| BARW6A           | 26° 03' 04.286" | 81° 20' 40.702" | 1174 73a        | 9.772'                     | 14.65'                           | +1.36'                         |
| FU1_H            | 25° 57' 37.86"  | 81° 30' 34.31"  | Y407            | 7.70'                      | 11.69'                           | +1.34'                         |
| FU1_T            | 25° 57' 36.26"  | 81° 30' 34.26"  | Y407            | 7.70'                      | 10.62'                           | +1.34'                         |
| S332BS           | 25° 32' 41.59"  | 80° 34' 02.32"  | S332BS2         | 10.19'                     | 14.28'                           | +1.57'                         |
| S384_H           | 27° 23' 45.382" | 80° 23' 59.353" | S384            | 24.90'                     | 26.89'                           | +1.48'                         |
| S384_T           | 27° 23' 46.227" | 80° 23' 57.327" | S384            | 24.90'                     | 20.04'                           | +1.48'                         |
| TMBR45           | 25° 58' 41.4"   | 81° 33' 30.8"   | E408            | 6.43'                      | 6.74'                            | +1.33'                         |
| TMBR52           | 25° 57' 38.359" | 81° 30' 55.312" | TAMI52          | 6.57'                      | 7.21'                            | +1.34'                         |
| TMBR55           | 25° 57' 38"     | 81° 30' 01"     | BR55            | 6.25'                      | 6.86'                            | +1.34'                         |
| TMBR66           | 25° 55' 59.4"   | 81° 26' 49.8"   | 6.31 RESET      | 6.98'                      | 7.45'                            | +1.36'                         |
| TMBR71           | 25° 55' 19.3"   | 81° 24' 39.7"   | 6.13 RESET      | 6.81'                      | 7.06'                            | +1.36'                         |
| SGT5W3_GW1       | 25° 56' 18.686" | 81° 29' 08.024" | SGT5W3          | 1.33'                      | 6.37'                            | +1.34'                         |
| SGT5W3_STG       | 25° 56' 18.686" | 81° 29' 08.024" | SGT5W3          | 1.33'                      | 6.79'                            | +1.34'                         |
| SGT5W2_GW1       | 25° 56' 59.786" | 81° 31' 55.807" | SGT5W2          | 1.45'                      | 5.74'                            | +1.34'                         |
| SGT5W2_GW2       | 25° 56' 59.786" | 81° 31' 55.807" | SGT5W2          | 1.45'                      | 6.91'                            | +1.34'                         |
| SGT5W1_GW1       | 25° 57' 34.554" | 81° 34' 01.543" | SGT5W1          | 2.25'                      | 6.40'                            | +1.33'                         |
| SGT5W1_STG       | 25° 57' 34.554" | 81° 34' 01.543" | SGT5W1          | 2.25'                      | 6.94'                            | +1.33'                         |
| TMBR40           | 25° 59' 16.5"   | 81° 34' 53.5"   | BR40            | 6.37'                      | 7.27'                            | +1.32'                         |
| TMBR37           | 25° 59' 54.41"  | 81° 35' 53.4"   | TAMIBR37        | 7.886'                     | 7.13'                            | +1.32'                         |
| TAMTOM           | 26° 00' 20.564" | 81° 36' 33.06"  | L527            | 3.78'                      | 6.31'                            | +1.32'                         |
| HENDTAMI_H       | 26° 03' 27.35"  | 81° 41' 21.77"  | HENDTAMI        | 6.472'                     | 8.74'                            | +1.32'                         |
| COCO4_H          | 26° 16' 32.03"  | 81° 37' 34.22"  | TE1             | 13.24'                     | 21.37'                           | +1.30'                         |
| COCO4_T          | 26° 16' 32.03"  | 81° 37' 34.22"  | TE1             | 13.24'                     | 21.78'                           | +1.30'                         |
| NAP31_H          | 26° 10' 55.412" | 81° 46' 01.559" | AG25W           | 8.505'                     | 11.98'                           | +1.27'                         |
| NAP31_T          | 26° 10' 51.889" | 81° 46' 01.308" | AG25W           | 8.505'                     | 11.99'                           | +1.27'                         |
| BRDROOK          | 26° 18' 54.84"  | 81° 38' 07.82"  | BRDROOK         | 16.276'                    | 21.84'                           | +1.29'                         |
| FU6_H            | 26° 18' 10.35"  | 81° 31' 47.51"  | COLL            | 17.49'                     | 21.60'                           | +1.32'                         |
| FU6_T            | 26° 18' 10.35"  | 81° 31' 47.51"  | COLL            | 17.49'                     | 20.47'                           | +1.32'                         |
| FU5_H            | 26° 16' 17.17"  | 81° 31' 43.665" | S5              | 15.46'                     | 21.12'                           | +1.32'                         |
| FU5_T            | 26° 16' 15.795" | 81° 31' 43.673" | S5              | 15.46'                     | 21.13'                           | +1.32'                         |
| FU4_H            | 26° 11' 41.335" | 81° 31' 39.838" | FU4S            | 11.86'                     | 14.94'                           | +1.33'                         |
| FU4_T            | 26° 11' 38.197" | 81° 31' 39.719" | FU4S            | 11.86'                     | 15.55'                           | +1.33'                         |
| MLRI75           | 26° 09' 09"     | 81° 33' 18.7"   | I75 R32         | 19.67'                     | 15.96'                           | +1.33'                         |



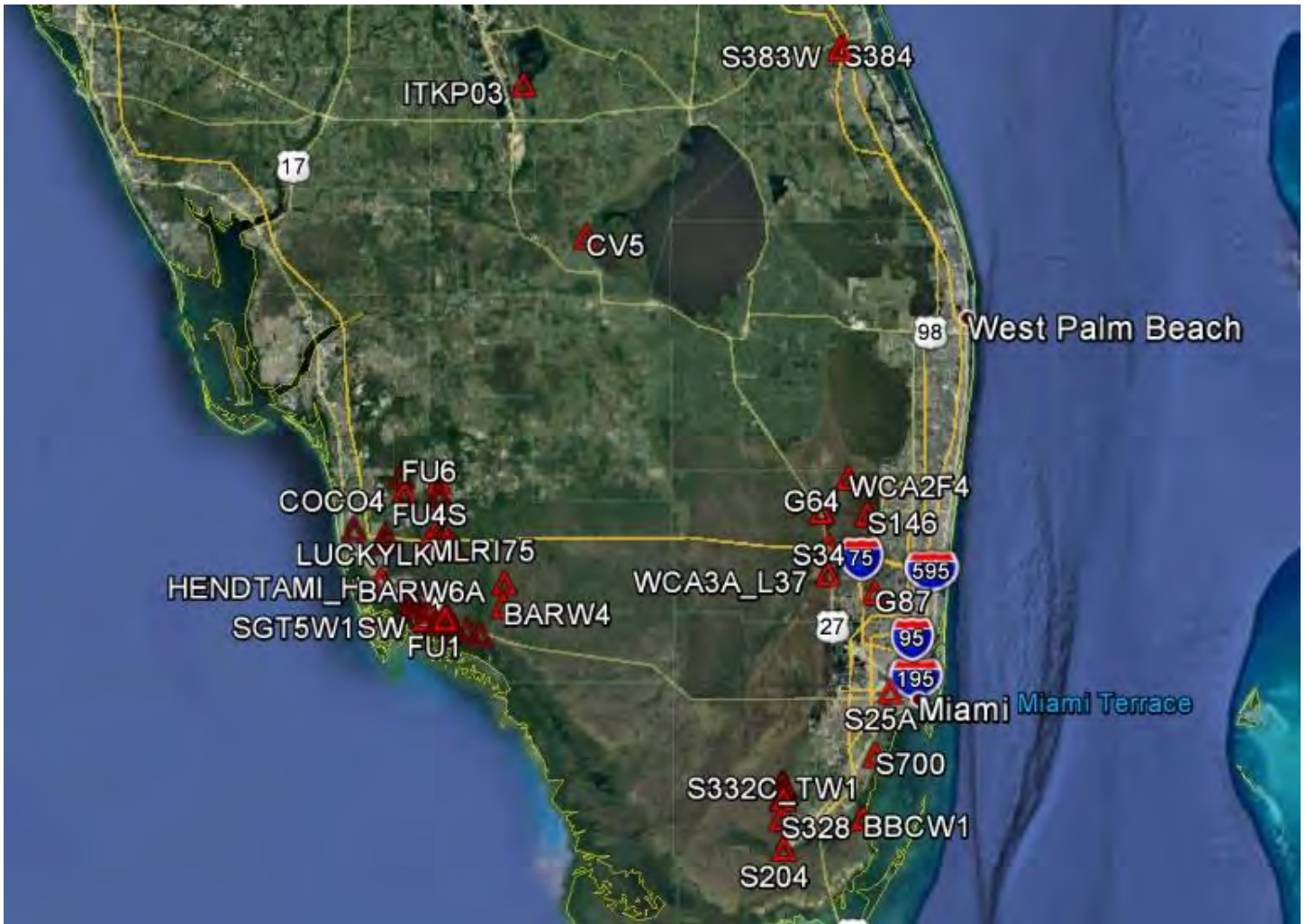
| Staff Gauge Site | Latitude        | Longitude       | Bench-Mark Used | Benchmark Elevation NAVD88 | Well Head Reference BM Elevation | Conversion Elevation to NGVD29 |
|------------------|-----------------|-----------------|-----------------|----------------------------|----------------------------------|--------------------------------|
| FAKI75           | 26° 09' 10.3"   | 81° 31' 24.8"   | I75U32          | 20.24'                     | 17.56'                           | +1.34'                         |
| S488_H           | 26° 08' 22.17"  | 81° 29' 29.65"  | S488            | 14.191'                    | 16.52'                           | +1.34'                         |
| S488_T           | 26° 08' 21.18"  | 81° 29' 29.646" | S488            | 14.191'                    | 16.38'                           | +1.34'                         |
| CV5_H            | 26° 55' 10.21"  | 81° 07' 18.23"  | FCE125          | 24.465'                    | 23.21'                           | +1.33'                         |
| CV5_T            | 26° 55' 10.21"  | 81° 07' 18.23"  | FCE125          | 24.465'                    | 19.49'                           | +1.33'                         |
| ITKPO3           | 27° 18' 03.86"  | 81° 18' 03.25"  | ITKPO3          | 41.96'                     | 45.93'                           | +1.14'                         |
| LUCKYLK          | 26° 08' 33.457" | 81° 29' 26.854" | COLL0021        | 11.238'                    | 13.85'                           | +1.34'                         |
| S328_H           | 25° 27' 47.64"  | 80° 34' 24.65"  | S328            | 7.119'                     |                                  | +1.56'                         |
| S328_T           | 25° 27' 48.27"  | 80° 34' 27.09"  | S328            | 7.119'                     |                                  | +1.56'                         |
| S204             | 25° 23' 19.57"  | 80° 33' 56.506" | Q504            | 3.543'                     |                                  | +1.58'                         |
| S332B_TW1        | 25° 32' 58.944" | 80° 34' 03.598" | S332BTW2        | 6.751'                     |                                  | +1.57'                         |
| S332B_TW2        | 25° 32' 58.797" | 80° 34' 17.921" | S332BTW2        | 6.751'                     |                                  | +1.57'                         |
| S332C_TW1        | 25° 30' 55.479" | 80° 34' 01.951" | S332CTW         | 11.80'                     |                                  | +1.56'                         |
| S332C_TW2        | 25° 30' 55.555" | 80 34' 13.989"  | S332CTW         | 11.80'                     |                                  | +1.56'                         |
| S25A_H           | 25° 46' 57.457" | 80° 16' 11.267" | S25A            | 4.984'                     |                                  | +1.55'                         |
| S25A_T           | 25° 46' 58.062" | 80° 16' 10.09"  | S25A            | 4.984'                     |                                  | +1.55'                         |
| G87_H            | 26° 01' 47.3"   | 80° 18' 46.75"  | G87             | 3.778'                     |                                  | +1.60'                         |
| G87_T            | 26° 01' 44.28"  | 80° 18' 46.86"  | G87             | 3.778'                     |                                  | +1.60'                         |
| S146_H           | 26° 13' 32.262" | 80° 20' 00.167" | E467            | 16.102'                    |                                  | +1.53'                         |
| S146_T           | 26° 13' 31.088" | 80° 20' 00.228" | E467            | 16.102'                    |                                  | +1.53'                         |
| G64_T            | 26° 13' 56.52"  | 80° 27' 43.741" | G64             | 10.379'                    |                                  | +1.48'                         |
| G64_H            | 26° 13' 56.849" | 80° 27' 42.228" | G64             | 10.379'                    |                                  | +1.48'                         |
| S383_H           | 27° 23' 33.852" | 80° 24' 28.698" | S383            | 32.90'                     | 35.29'                           | +1.48'                         |
| S383_T           | 27° 23' 33.565" | 80° 24' 26.488" | S383            | 32.90'                     |                                  | +1.48'                         |
| S383_Well1       | 27°23'33.28"    | 80°24'28.32"    | S383            | 32.90'                     | 34.92'                           | +1.48'                         |
| S383_Well2       | 27°23'33.28"    | 80°24'28.32"    | S383            | 32.90'                     | 34.47'                           | +1.48'                         |
| S383_well3       | 27°23'33.28"    | 80°24'28.32"    | S383            | 32.90'                     | 34.93'                           | +1.48'                         |
| S383_Well4       | 27°23'33.28"    | 80°24'28.32"    | S383            | 32.90'                     | 34.75'                           | +1.48'                         |
| S383_Well5       | 27°23'33.28"    | 80°24'28.32"    | S383            | 32.90'                     | 34.89'                           | +1.48'                         |
| S383_Well6       | 27°23'33.28"    | 80°24'28.32"    | S383            | 32.90'                     | 34.90'                           | +1.48'                         |
| S383_T1          | 27° 23' 33.284" | 80° 24' 26.506" | S383            | 32.90'                     | 29.42'                           | +1.48'                         |
| S383_T2          | 27° 23' 33.384" | 80° 24' 26.504" | S383            | 32.90'                     | 29.37'                           | +1.48'                         |
| WCA2F4_STG       | 26° 19' 01"     | 80° 23' 06"     | WCA2F4          | 12.926'                    | 15.29'                           | +1.49'                         |
| WCA2F4_GW1       | 26° 19' 01"     | 80° 23' 06"     | WCA2F4          | 12.926'                    | 17.01'                           | +1.49'                         |
| WCA2F4_GW2       | 26° 19' 01"     | 80° 23' 06"     | WCA2F4          | 12.926'                    | 15.29'                           | +1.49'                         |
| WCA2F4_GW3       | 26° 19' 01"     | 80° 23' 06"     | WCA2F4          | 12.926'                    | 15.83'                           | +1.49'                         |
| WCA2F4_GW4       | 26° 19' 01"     | 80° 23' 06"     | WCA2F4          | 12.926'                    | 16.02'                           | +1.49'                         |

| Staff Gauge Site | Latitude      | Longitude     | Bench-Mark Used | Benchmark Elevation NAVD88 | Well Head Reference BM Elevation | Conversion Elevation to NGVD29 |
|------------------|---------------|---------------|-----------------|----------------------------|----------------------------------|--------------------------------|
| WCA3A_L37        | 26° 03' 45.6" | 80° 26' 37.9" | WCA3A_L37       | 13.699'                    |                                  | +1.49'                         |
| S700_HW          | 25° 37' 23.2" | 80° 18' 43.1" | AMELIA          | 7.068'                     | 8.13'                            | +1.53'                         |

- All Elevations shown are NAVD 88

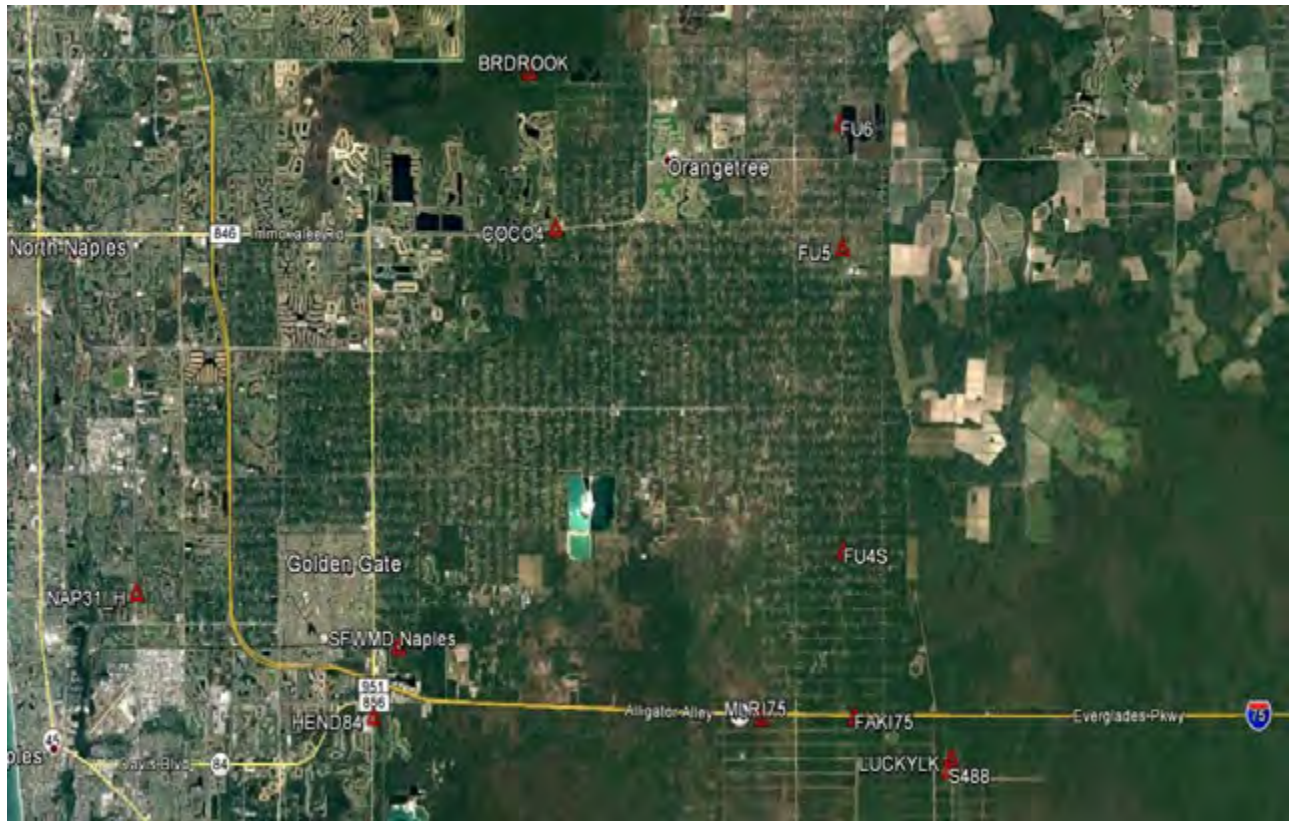
## Project Location Maps:

Overall Map:

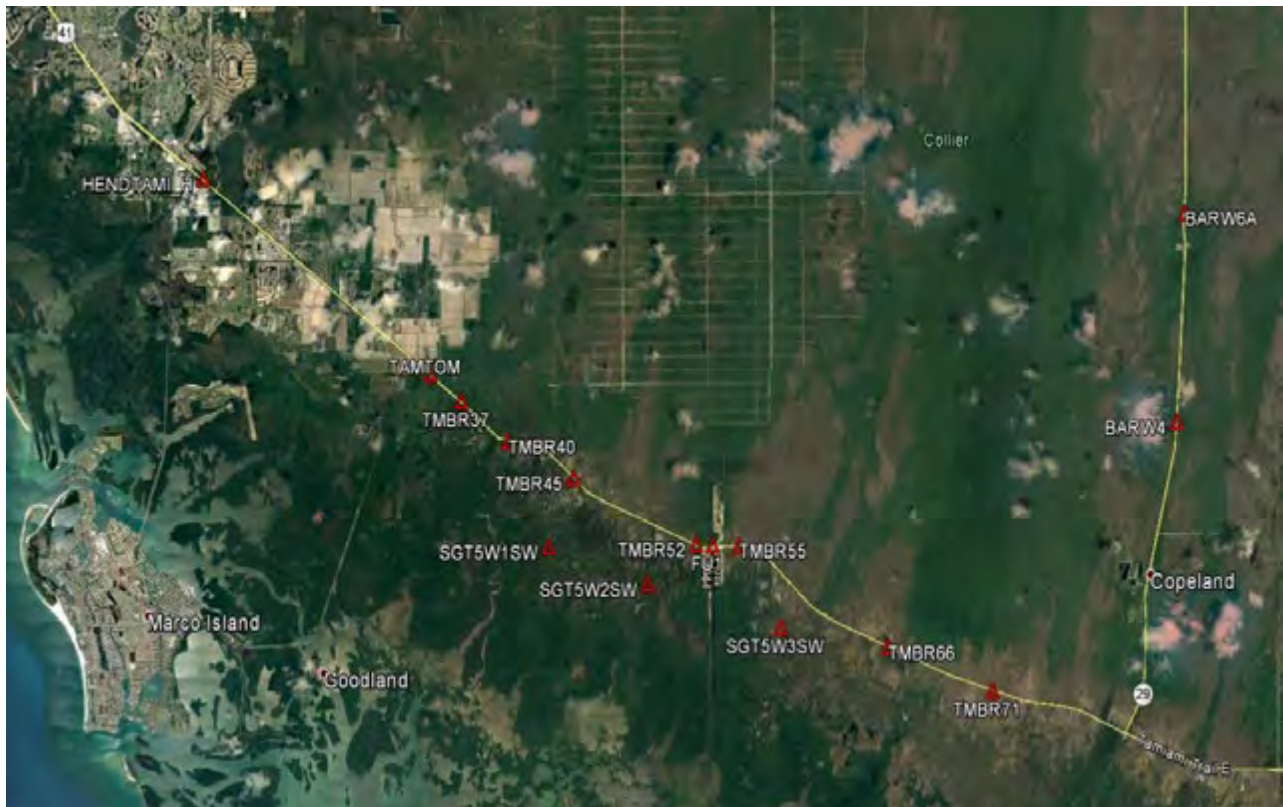




Location Map #3:



Location Map #4



## REGISTRATION WORKSHEET - SGT5W3 Addendum

|                  |                        |                 |           |                      |                 |
|------------------|------------------------|-----------------|-----------|----------------------|-----------------|
| Site Name:       | SGT5W3                 | Today's Date:   | 2/10/2017 | Type Recorder:       | CR10            |
| Activity:        | Addendum               | Effective Date: |           | Start Date of Data : |                 |
| Customer:        | Amelia Rodriguez-Alers | Bus. Area:      | Survey    | Agency:              | SFWMD           |
|                  |                        |                 |           | Internal Order:      |                 |
| Project Manager: | Patrick Meeds          | Bus. Area:      |           | Agency:              |                 |
|                  |                        |                 |           | Fund:                |                 |
| Project Name:    | VDUP                   |                 |           | Contract #:          | 4600002187-WO13 |
|                  |                        |                 |           | Legal Mandate:       |                 |

|                                  |  |
|----------------------------------|--|
| Short Common Name / Description: |  |
| Proj. Mgr. Notes:                | Install new NAVD88 staff gauge. To convert to NGVD29 Add +1.34 |

|                  |  |
|------------------|--|
| Site Directions: | TO REACH: FROM THE JUNCTION OF US 41 AND SR 29. GO SOUTH ON SR 29 (CR 29) FOR 4.8 MILES TO EVERGLADES CITY AIRPORT ACCESS ROAD ENTRANCE. GO WESTERLY THEN SOUTHERLY ON ACCESS ROAD FOR 0.25 MILE TO EVERGLADES CITY AIRPORT AND STAGING AREA. FROM STAGING AREA HEAD 8.75 MILES BY HELICOPTER AT AN AZIMUTH 316° 27' 42" TO STATION. |
|------------------|--|

|                        |  |
|------------------------|--|
| Site Address (if any): |  |
|------------------------|--|

|                                       |                                      |                           |             |             |   |      |
|---------------------------------------|--------------------------------------|---------------------------|-------------|-------------|---|------|
| Transportation:                       | Airboat                              | Lock type or combination: | Combination | Lock number | # | 6745 |
| Recorder Location/Purpose:            | Stand-Alone Recorder (Non-Flow Site) | Structure Type:           |             |             |   |      |
| Array ID Configuration table attached |                                      |                           |             |             |   |      |

### SURVEY INFORMATION

|                 |       |       |          |        |         |
|-----------------|-------|-------|----------|--------|---------|
| B.M. Elevation: | 1.330 | Date: | 1/1/2006 | Stamp: | SGT5W3  |
| Agency:         | SFWMD | Type: | IROD     | Datum: | NAVD 88 |

|                                 |  |
|---------------------------------|--|
| Benchmark Location/ Description | LOCATED 0.4 FEET NORTH OF NORTH EDGE OF PLATFORM, 2.2 FEET EAST OF WEST EDGE OF PLATFORM, 1.6 FEET WEST OF EAST EDGE OF PLATFORM AND IS RECESSED 1.50 FEET BELOW PLATFORM. MAGNET PLACED INSIDE 6 INCH PVC CASING. ROD DEPTH IS 13.70 FEET. SGT5W3 IS A SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) 9/16 INCH STAINLESS STEEL ROD SET INSIDE A 6 INCH PVC PIPE ENCLOSURE COVERED WITH AN ACCESS HATCH. |
|---------------------------------|--|

### COMMUNICATIONS INFORMATION

|                        |           |                     |   |                          |  |
|------------------------|-----------|---------------------|---|--------------------------|--|
| Communications System: | Loggernet | Loggernet Server:   | 0 | Loggernet IP Address:    |  |
| Tower:                 | ACMET     | Communication Type: |   | R.F. Code/Modem Address: |  |
| Phone Number:          |           |                     |   | R.F. Access Point:       |  |
| RTU Address:           |           | Gateways:           |   |                          |  |

### WELL INFORMATION

| Sensor | Customer Ref | Ref Elev | Elev Date | Top of Well | Bottom of Well | Ground Elev | Benchmark Elev | Benchmark Datum | Ref Elevation Location   |
|--------|--------------|----------|-----------|-------------|----------------|-------------|----------------|-----------------|--|
| GW1    |              | 6.37Ft   | 2/7/2017  |             |                |             | 1.33Ft         | NAVD 88         | Mark on 2" PVC pipe inside stilling well cover denoted by brass tag. |
| STG1   |              | 6.79Ft   | 2/7/2017  |             |                |             | 1.33Ft         | NAVD 88         | Mark on top of 4" PVC denoted by brass tag.                          |

| Sensor | GW Sensor Location Offset | Meas Pt Elevation | GW Land Elevation | Depth of Well | Type of Well | Top of Monitored Interval | Base of Monitored Interval | Parameter Transmitted |
|--------|---------------------------|-------------------|-------------------|---------------|--------------|---------------------------|----------------------------|-----------------------|
| GW1    |                           |                   |                   |               |              |                           |                            |                       |
| STG1   |                           |                   |                   |               |              |                           |                            |                       |

### COORDINATE INFORMATION

| Item/Param | Lat            | Long           | X-Coord | Y-Coord | Sec | Township | Range | Quad            | Basin | County  | Description |
|------------|----------------|----------------|---------|---------|-----|----------|-------|-----------------|-------|---------|-------------|
| GW1        | 25° 56' 18.686 | 81° 29' 08.024 |         |         | 14  | 52S      | 28E   | Weavers Station |       | Collier |             |
| STG1       | 25° 56' 18.686 | 81° 29' 08.024 |         |         | 14  | 52S      | 28E   | Weavers Station |       | Collier |             |



SGT5W3 Field Notes

|  |      |  |   |
|--|------|--|---|
| 311107113  | 1022 | USED AIR POINT<br>UNUSUAL LOOK COMED<br>6745 | 646/44<br>REF 1045 TO 1046<br>NEW GAUGE 104<br>SERIAL 134 |
| FIND 55 800 94 DESCRIBED NOTE NO STAMPING VISIBLE IN<br>1000 CUP & BEACH MARK IS UNDER FIRST PLANK OF BEACH AS STAIR<br>BUT END PLANK IS NEEDED TO ACCESS BM |      |  |   |
| ATTACHED TO SIDE OF PLATFORM NO VISIBLE REF MARK<br>NO TAG   |      |  |   |
| <del>EXISTING BEACH MARK 7.73</del> NO TAG @ REF MARK BLACK MARKER<br>93   |      |  |   |
| EXISTING BEACH MARK 7.73 CALCIFIED 1.556<br>MARK   |      |  |   |
| 66111 BM<br>EX UNUSUAL BEACH MARK  |      |  |   |

|                       |               |                              |
|-----------------------|---------------|------------------------------|
| 2-7-17                | SEW/MD        | 800 CLEAR                    |
| MENDOZA               | 567 5 W/3     |                              |
| MUNIZ (CAPTAIN STONE) | ELEVATE WELLS |                              |
| LUNA                  | \$ RECEPT     |                              |
| 3 WIRE +              | H1 3 WIRE -   | ELEV DESC                    |
| 1.09                  |               | 1.93 STGS W/3                |
| 1.075                 | 6.075 7.405   |                              |
| 1.06                  |               |                              |
|                       | 0.685         |                              |
|                       | 0.161         | 0.1611 6.794 5W1 4" PVC      |
|                       | 0.59          |                              |
|                       | 0.70          |                              |
|                       | 0.168         | 0.168 6.775 6E MARKING WELLS |
|                       | 0.166         |                              |
|                       | 1.055         |                              |
|                       | 1.03          | 1.031 6.574 4" PVC           |
|                       | 1.01          |                              |
| 1.22                  |               |                              |
| 1.20                  | 1.20          | 7.574                        |
| 1.18                  |               |                              |
|                       | 0.865         |                              |
|                       | 0.845         | 0.845 6.779 4" WELLS         |
|                       | 0.825         |                              |
|                       | .80           |                              |
|                       | .78           | 0.78 6.794 5W1 4" PVC        |
|                       | .76           |                              |
|                       |               |                              |
|                       | 6.216         |                              |
|                       | 6.24          | 1.216 3 STGS W/3 1/4         |
|                       | 6.25          |                              |
|                       |               |                              |
|                       | 7.81          | 6.20 6.216 4" 6" INSTANT     |



2-7-17  
 MONROE  
 JUNER  
 LUNA

SEWARD  
 SGT 5 W3  
 SET GAUGE BOARD

8012AR

H1  
 7.55  
 ELEV DESC  
 1.33  
 3.107 3.88 TOP OF SET

6.12  
 2.88  
 0.805 6.715 1.06 DEEMARK

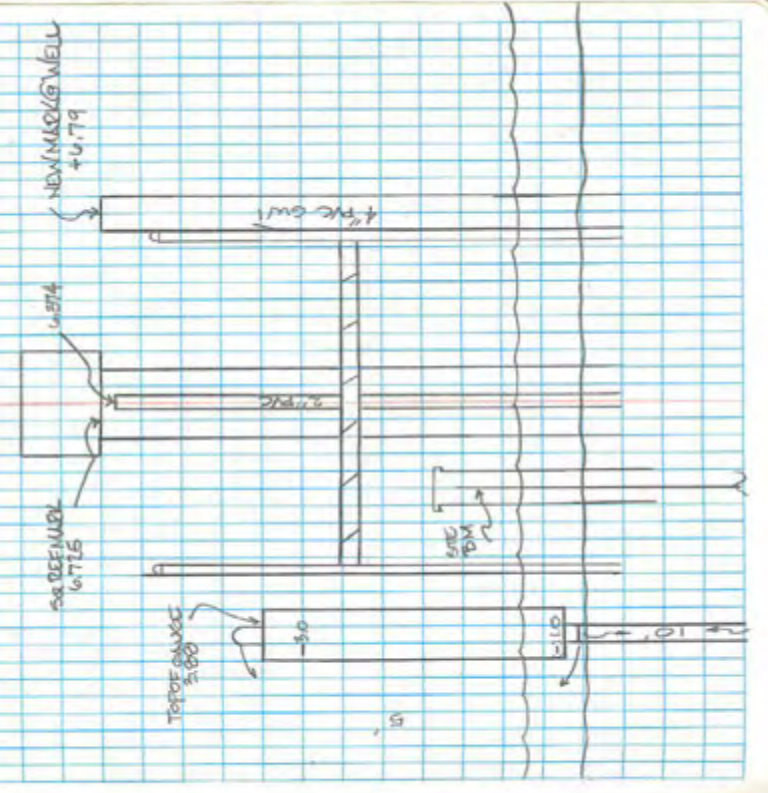
444/145  
 DEFS 44 Pa  
 WELL DATA

31011071.13  
 1022

GAUGE BOARD

@WELL

NOTE EXISTING GAUGE PLATE REMOVED HOUSTON'S POLE & BACK EDED  
 NOT REMOVED



## Stage Recorder Site: SGT5W2\_STG

|  |  |   |
|--|--|---|
| Party Chief:<br>Jose Mendoza                                     | Field Book Number:<br>646                              | Page Number:<br>46-47                     |
| Benchmark Elevation (NAVD 88): <b>1.45'</b>                      | Date of Field Work:<br>February 8, 2017                | Datum Offset to NGVD 29:<br><b>+1.34'</b> |
| Benchmark Agency:<br>SFWMD                                       | Benchmark Type:<br>Precision Rod w/Sleeve              | Benchmark Stamp:<br>STG5W2                |
| Reference Elevation (NAVD88):<br><b>6.91'</b>                    | Existing Tag Elevation (Datum):<br><b>8.25' NGVD29</b> |   |
| Latitude:<br><b>25° 56' 59.786"</b>                              | Longitude:<br><b>81° 31' 55.807"</b>                   |   |
| Notes: Reference is top of 4" PVC. Stilling well lock combo 6745 |  |   |
| Removed Old Board:   |  |   |

Photographs:

Overall Site:



Benchmark Location:



Benchmark Close Up:



Brass Tag Close Up:



Reference Mark:



Brass Tag & Reference:





## REGISTRATION WORKSHEET - SGT5W2 Addendum

|                  |                        |                 |           |                      |                 |
|------------------|------------------------|-----------------|-----------|----------------------|-----------------|
| Site Name:       | SGT5W2                 | Today's Date:   | 2/15/2017 | Type Recorder:       | CR10            |
| Activity:        | Addendum               | Effective Date: |           | Start Date of Data : |                 |
| Customer:        | Amelia Rodriguez-Alers | Bus. Area:      | Survey    | Agency:              | SFWMD           |
| Project Manager: | Patrick Meeds          | Bus. Area:      |           | Agency:              |                 |
| Project Name:    | VDUP                   | Legal Mandate:  |           | Internal Order:      |                 |
|                  |                        |                 |           | Fund:                |                 |
|                  |                        |                 |           | Contract #:          | 4600002187-WO13 |

|                                  |  |
|----------------------------------|--|
| Short Common Name / Description: |  |
| Proj. Mgr. Notes:                | Install new NAVD88 staff gauge. To convert to NGVD29 Add +1.34 |

|                  |  |
|------------------|--|
| Site Directions: | FROM THE JUNCTION OF US 41 AND SR 29. GO SOUTH ON SR 29 (CR 29) FOR 4.8 MILES TO EVERGLADES CITY AIRPORT ACCESS ROAD ENTRANCE. GO WESTERLY THEN SOUTHERLY ON ACCESS ROAD FOR 0.25 MILE TO EVERGLADES CITY AIRPORT AND STAGING AREA. FROM STAGING AREA HEAD 11.4 MILES BY HELICOPTER AT AN AZIMUTH 308° 33' 10" TO STATION. |
|------------------|--|

|                        |  |
|------------------------|--|
| Site Address (if any): |  |
|------------------------|--|

|                 |         |                           |                         |   |      |
|-----------------|---------|---------------------------|-------------------------|---|------|
| Transportation: | Airboat | Lock type or combination: | Combination Lock number | # | 6745 |
|-----------------|---------|---------------------------|-------------------------|---|------|

|                            |                                      |                 |  |
|----------------------------|--------------------------------------|-----------------|--|
| Recorder Location/Purpose: | Stand-Alone Recorder (Non-Flow Site) | Structure Type: |  |
|----------------------------|--------------------------------------|-----------------|--|

|                                       |  |
|---------------------------------------|--|
| Array ID Configuration table attached |  |
|---------------------------------------|--|

### SURVEY INFORMATION

|                 |       |       |          |        |         |
|-----------------|-------|-------|----------|--------|---------|
| B.M. Elevation: | 1.450 | Date: | 1/1/2006 | Stamp: | SGT5W2  |
| Agency:         | SFWMD | Type: | IROD     | Datum: | NAVD 88 |

|                                 |   |
|---------------------------------|---|
| Benchmark Location/ Description | LOCATED 8.0 FEET NORTH OF METAL DRUM FOR MONITORING WELL PIPE, 0.4 FEET NORTH OF NORTH EDGE OF PLATFORM, AND IS RECESSED 1.45 FEET BELOW PLATFORM. PLACED INSIDE 6 INCH PVC CASING. ROD DEPTH IS 42.16 FEET. SGT5W2 IS A SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) 9/16 INCH STAINLESS STEEL ROD SET INSIDE A 6 INCH PVC PIPE ENCLOSURE COVERED WITH AN ACCESS HATCH. |
|---------------------------------|---|

### COMMUNICATIONS INFORMATION

|                        |           |                     |   |                          |  |
|------------------------|-----------|---------------------|---|--------------------------|--|
| Communications System: | Loggernet | Loggernet Server:   | 0 | Loggernet IP Address:    |  |
| Tower:                 | ACMET     | Communication Type: |   | R.F. Code/Modem Address: |  |
| Phone Number:          |           | R.F. Access Point:  |   |                          |  |
| RTU Address:           |           | Gateways:           |   |                          |  |

### WELL INFORMATION

| Sensor | Customer Ref | Ref Elev | Elev Date | Top of Well | Bottom of Well | Ground Elev | Benchmark Elev | Benchmark Datum | Ref Elevation Location                           |
|--------|--------------|----------|-----------|-------------|----------------|-------------|----------------|-----------------|--|
| GW1    |              | 5.74Ft   | 2/8/2017  |             |                |             | 1.45Ft         | NAVD 88         | Mark on 2" PVC under cover denoted by brass tag. |
| GW2    |              | 8.91Ft   | 2/8/2017  |             |                |             | 1.45Ft         | NAVD 88         | Mark on 4" PVC denoted by brass tag.             |

| Sensor | GW Sensor Location Offset | Meas Pt Elevation | GW Land Elevation | Depth of Well | Type of Well | Top of Monitored Interval | Base of Monitored Interval | Parameter Transmitted |  |  |  |  |  |  |
|--------|---------------------------|-------------------|-------------------|---------------|--------------|---------------------------|----------------------------|-----------------------|--|--|--|--|--|--|
| GW1    |                           |                   |                   |               |              |                           |                            |                       |  |  |  |  |  |  |
| GW2    |                           |                   |                   |               |              |                           |                            |                       |  |  |  |  |  |  |

### COORDINATE INFORMATION

| Item/Param | Lat            | Long           | X-Coord | Y-Coord | Sec | Township | Range | Quad           | Basin | County  | Description |
|------------|----------------|----------------|---------|---------|-----|----------|-------|----------------|-------|---------|-------------|
| GW1        | 25° 56' 59.786 | 81° 31' 55.807 |         |         |     | 8 52S    | 28E   | Royal Palm Har |       | Collier |             |
| GW2        | 25° 56' 59.786 | 81° 31' 55.807 |         |         |     | 8 52S    | 28E   | Royal Palm Har |       | Collier |             |

# SGT5W2 Field Notes

| Date   | Location / Notes               | Reading 1 | Reading 2 | Reading 3 | Reading 4 | Remarks  |
|--------|--------------------------------|-----------|-----------|-----------|-----------|----------|
| 2-8-17 | MENORA (CAPTAIN STEVE AIRPORT) |           |           |           |           |          |
|        | WALK                           |           |           |           |           |          |
|        | 3 WIRE + HI                    |           |           |           |           |          |
|        |                                | 6.675     |           |           |           |          |
|        |                                | 6.666     | 6.059     | 6.109     |           |          |
|        |                                | 6.643     |           |           |           |          |
|        |                                | 1.217     |           |           |           |          |
|        |                                | 1.205     | 1.202     | 6.909     |           | REMARK   |
|        |                                | 1.085     |           |           |           |          |
|        |                                | 2.39      |           |           |           |          |
|        |                                | 2.305     | 2.306     | 5.743     |           | REMARK   |
|        |                                | 2.345     |           |           |           |          |
|        |                                | 2.258     | 2.237     | 7.990     |           |          |
|        |                                | 2.215     |           |           |           |          |
|        |                                | 1.087     |           |           |           |          |
|        |                                | 1.072     | 1.071     | 6.909     |           | √ @ 4.5K |
|        |                                | 1.084     |           |           |           |          |
|        |                                | 6.547     |           |           |           |          |
|        |                                | 6.527     | 6.527     | 1.453     | 6.153     | √ @ 5.0K |
|        |                                | 6.512     |           |           |           |          |
|        |                                | 7.93      | 0.00      |           |           | 1.2      |

| Date | Location / Notes  | Reading 1 | Reading 2 | Reading 3 | Reading 4 | Remarks         |
|------|---|-----------|-----------|-----------|-----------|-----------------|
|      | BIG 1107ALIS  |           |           |           |           |                 |
|      | 1022  |           |           |           |           |                 |
|      | FOUND 50 PWD @ PRE-CRIPED LOCATION. NO STAMPING ON ACCESS     |           |           |           |           |                 |
|      | UNO CAP   |           |           |           |           |                 |
|      | TOP OF 4" PVC EXISTING TO TAG TUBE 8.25                       |           |           |           |           | CALC DIFF 1.241 |
|      | TOP OF 2" PVC EXISTING TO TAG TUBE 6.98                       |           |           |           |           | CALC DIFF 1.257 |
|      | 5" W. OFFICE NOTHERS EVEN UNDER BITING DIFFERS. INTRODUCED TO |           |           |           |           |                 |
|      | W/OD LEVELING W/ 5.00 / 1.0. WAS VERIFIED                     |           |           |           |           |                 |
|      | REF WALK  |           |           |           |           |                 |
|      | PM SOTT SW 2  |           |           |           |           |                 |
|      | @ 6.25 AM EXCHANGE BEARS 1.71                                 |           |           |           |           |                 |



646/17  
DEEPS HQ  
NEW DATA

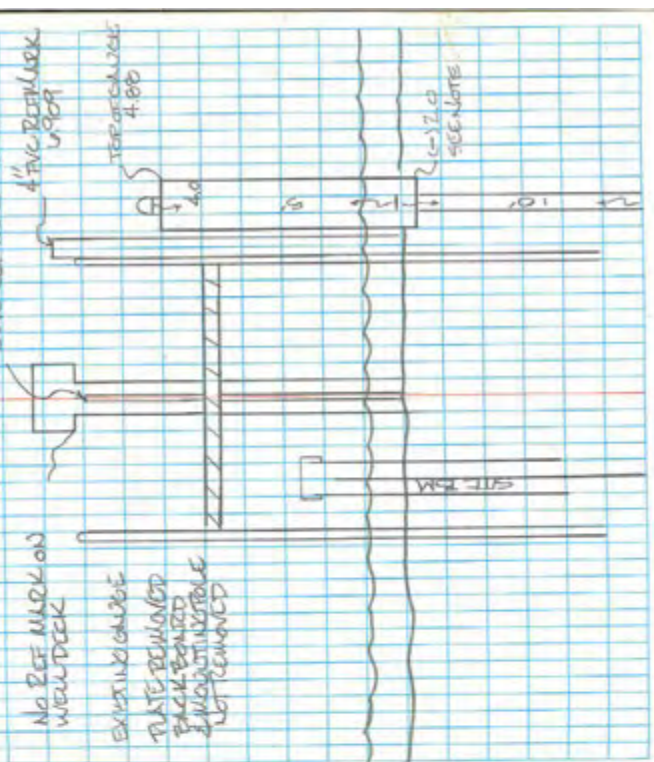
310107 1B  
1027

MUSTER LOCK  
# 6745

TOP OF GAUGE BOARD

GET MARK 2" IN

NOTE CUT 50 OFF OF BOTTOM OF BORED GAUGE STILL  
1" INTO MARK  
BOTH MARK UNDER FIRST PLANK TO DRILL BIT HEAD  
BIT NEEDED



|          |                 |                 |
|----------|-----------------|-----------------|
| 2-8-17   | SEWARD          | BOR             |
| NEW DATA | SGT 5 W/2       |                 |
| W/NEZ    | SET GAUGE BOARD |                 |
| LINK     |                 |                 |
|          | H1              | EVEN DECK       |
|          |                 | 1.45 SITE PM    |
|          | 6.49            | 7.94            |
|          |                 | 3.00 4.00 SET   |
| 2.9105   | 7.845           | 2.105 5.74 ✓ 10 |

## Stage Recorder Site: SGT5W1\_GW1

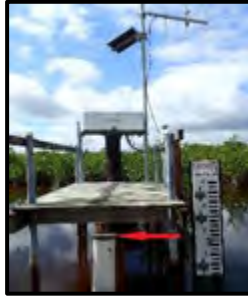
|  |  |  |
|--|--|--|
| <b>Party Chief:</b><br>Jose Mendoza  | <b>Field Book Number:</b><br>646                 | <b>Page Number:</b><br>48-49                           |
| <b>Benchmark Elevation (NAVD 88):</b> 2.25'  | <b>Date of Field Work:</b><br>February 9, 2017   | <b>Datum Offset to NGVD 29:</b><br>+1.33'              |
| <b>Benchmark Agency:</b><br>SFWMD  | <b>Benchmark Type:</b><br>Precision Rod w/Sleeve | <b>Benchmark Stamp:</b><br>SGT5W1                      |
| <b>Reference Elevation (NAVD88):</b><br>6.40'  |  | <b>Existing Tag Elevation (Datum):</b><br>7.71' NGVD29 |
| <b>Latitude:</b><br>25° 57' 34.554"  |  | <b>Longitude:</b><br>81° 34' 01.543"                   |
| <b>Notes:</b> Datum difference SFWMD +1.33 Field +1.31, Stilling well lock combo 6745. Reference is top 2" PVC pipe under cover. |  |  |
| <b>Removed Old Board:</b> Gauge plate removed, mounting board & pole not removed.  |  |  |

Photographs:

Overall Site:



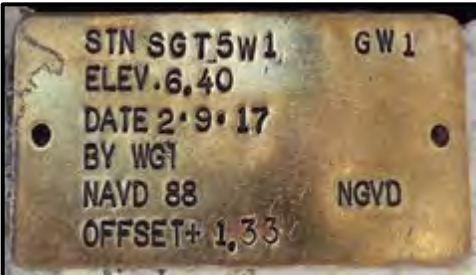
Benchmark Location:



Benchmark Close Up:



Brass Tag Close Up:



Reference Mark:



Brass Tag & Reference:



New Staff Gauge:

Front View:



Side View:





## Stage Recorder Site: SGT5W1\_STG

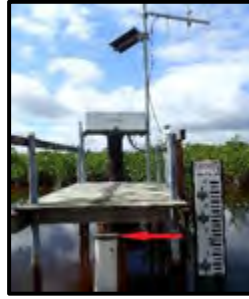
|  |  |   |
|--|--|---|
| Party Chief:<br>Jose Mendoza   | Field Book Number:<br>646                              | Page Number:<br>48-49                     |
| Benchmark Elevation (NAVD 88): <b>2.25'</b>                                    | Date of Field Work:<br>February 9, 2017                | Datum Offset to NGVD 29:<br><b>+1.33'</b> |
| Benchmark Agency:<br>SFWMD   | Benchmark Type:<br>Precision Rod w/Sleeve              | Benchmark Stamp:<br>SGT5W1                |
| Reference Elevation (NAVD88):<br><b>6.94'</b>                                  | Existing Tag Elevation (Datum):<br><b>8.29' NGVD29</b> |   |
| Latitude:<br><b>25° 57' 34.554"</b>  | Longitude:<br><b>81° 34' 01.543"</b>                   |   |
| Notes: Datum difference SFWMD +1.33 Field +1.35, Stilling well lock combo 6745 |  |   |
| Removed Old Board:   |  |   |

Photographs:

Overall Site:



Benchmark Location:



Benchmark Close Up:



Brass Tag Close Up:



Reference Mark:



Brass Tag & Reference:



## Stage Recorder Site: SGT5W2\_GW1

|   |  |   |
|---|--|---|
| Party Chief:<br>Jose Mendoza  | Field Book Number:<br>646                              | Page Number:<br>46-47                     |
| Benchmark Elevation (NAVD 88): <b>1.45'</b>   | Date of Field Work:<br>February 8, 2017                | Datum Offset to NGVD 29:<br><b>+1.34'</b> |
| Benchmark Agency:<br>SFWMD  | Benchmark Type:<br>Precision Rod w/Sleeve              | Benchmark Stamp:<br>STG5W2                |
| Reference Elevation (NAVD88):<br><b>5.74'</b>   | Existing Tag Elevation (Datum):<br><b>6.98' NGVD29</b> |   |
| Latitude:<br><b>25° 56' 59.786"</b>   | Longitude:<br><b>81° 31' 55.807"</b>                   |   |
| Notes: Datum difference SFWMD +1.34 Field +1.24, Stilling well lock combo 6745 Reference is top of 2" pipe PVC under cover. |  |   |
| Removed Old Board: Gauge plate removed, mounting board & pole not removed.  |  |   |

Photographs:

Overall Site:



Benchmark Location:



Benchmark Close Up:



Brass Tag Close Up:



Reference Mark:



Brass Tag & Reference:



New Staff Gauge:

Front View:



Side View:



## Stage Recorder Site: SGT5W3\_GW1

|  |  |   |
|--|--|---|
| Party Chief:<br>Jose Mendoza   | Field Book Number:<br>646                              | Page Number:<br>44-45                     |
| Benchmark Elevation (NAVD 88): <b>1.33'</b>  | Date of Field Work:<br>February 7, 2017                | Datum Offset to NGVD 29:<br><b>+1.34'</b> |
| Benchmark Agency:<br>SFWMD   | Benchmark Type:<br>Precision Rod w/Sleeve              | Benchmark Stamp:<br>SGT5W3                |
| Reference Elevation (NAVD88):<br><b>6.37'</b>  | Existing Tag Elevation (Datum):<br><b>7.73' NGVD29</b> |   |
| Latitude:<br><b>25° 56' 18.686"</b>  | Longitude:<br><b>81° 29' 08.024"</b>                   |   |
| Notes: Datum difference SFWMD +1.34 Field +1.36 Reference is top 2" PVC pipe under cover. Stilling well lock combo 6745. |  |   |
| Removed Old Board: Gauge plate removed, mounting board & pole not removed.   |  |   |

Photographs:

Overall Site:



Benchmark Location:



Benchmark Close Up:



Brass Tag Close Up:



Reference Mark:



Brass Tag & Reference:



New Staff Gauge:

Front View:



Side View:



## REGISTRATION WORKSHEET - SGT5W1 Addendum

|                  |                        |                 |           |                      |                 |
|------------------|------------------------|-----------------|-----------|----------------------|-----------------|
| Site Name:       | SGT5W1                 | Today's Date:   | 2/16/2017 | Type Recorder:       | CR10            |
| Activity:        | Addendum               | Effective Date: |           | Start Date of Data : |                 |
| Customer:        | Amelia Rodriguez-Alers | Bus. Area:      | Survey    | Agency:              | SFWMD           |
|                  |                        |                 |           | Internal Order:      |                 |
|                  |                        |                 |           | Fund:                |                 |
| Project Manager: | Patrick Meeds          | Bus. Area:      |           | Agency:              |                 |
|                  |                        |                 |           | Contract #:          | 4600002187-WO13 |
| Project Name:    | VDUP                   |                 |           | Legal Mandate:       |                 |

|                                  |  |
|----------------------------------|--|
| Short Common Name / Description: |  |
|----------------------------------|--|

|                   |   |
|-------------------|---|
| Proj. Mgr. Notes: | Install new NAVD88 staff gauges. To convert to NGVD29 Add +1.33 |
|-------------------|---|

|                  |   |
|------------------|---|
| Site Directions: | FROM THE JUNCTION OF US 41 AND SR 29. GO SOUTH ON SR 29 (CR 29) FOR 4.8 MILES TO EVERGLADES CITY AIRPORT ACCESS ROAD ENTRANCE. GO WESTERLY THEN SOUTHERLY ON ACCESS ROAD FOR 0.25 MILE TO EVERGLADES CITY AIRPORT AND STAGING AREA. FROM STAGING AREA HEAD 13.55 MILES BY HELICOPTER AT AN AZIMUTH 305° 10' 09" TO STATION. |
|------------------|---|

|                        |  |
|------------------------|--|
| Site Address (if any): |  |
|------------------------|--|

|                 |         |                           |             |             |   |      |
|-----------------|---------|---------------------------|-------------|-------------|---|------|
| Transportation: | Airboat | Lock type or combination: | Combination | Lock number | # | 6745 |
|-----------------|---------|---------------------------|-------------|-------------|---|------|

|                            |                                      |                 |  |
|----------------------------|--------------------------------------|-----------------|--|
| Recorder Location/Purpose: | Stand-Alone Recorder (Non-Flow Site) | Structure Type: |  |
|----------------------------|--------------------------------------|-----------------|--|

|                                       |  |
|---------------------------------------|--|
| Array ID Configuration table attached |  |
|---------------------------------------|--|

### SURVEY INFORMATION

|                 |       |       |          |        |         |
|-----------------|-------|-------|----------|--------|---------|
| B.M. Elevation: | 2.250 | Date: | 1/1/2006 | Stamp: | SGT5W1  |
| Agency:         | SFWMD | Type: | IROD     | Datum: | NAVD 88 |

|                                 |  |
|---------------------------------|--|
| Benchmark Location/ Description | LOCATED 7.5 FEET SOUTHEAST OF METAL DRUM FOR MONITORING WELL PIPE, 0.45 FEET SOUTHEAST OF SOUTHEAST EDGE OF PLATFORM, AND IS RECESSED 1.35 FEET BELOW PLATFORM. MAGNET PLACED INSIDE 6 INCH PVC CASING. ROD DEPTH IS 28.37 FEET.<br>SGT5W1 IS A SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) 9/16 INCH STAINLESS STEEL ROD SET INSIDE A 6 INCH PVC PIPE ENCLOSURE COVERED WITH AN ACCESS HATCH. |
|---------------------------------|--|

### COMMUNICATIONS INFORMATION

|                        |           |                     |   |                          |  |
|------------------------|-----------|---------------------|---|--------------------------|--|
| Communications System: | Loggernet | Loggernet Server:   | 0 | Loggernet IP Address:    |  |
| Tower:                 | ACMET     | Communication Type: |   | R.F. Code/Modem Address: |  |
|                        |           |                     |   | R.F. Access Point:       |  |
| Phone Number:          |           |                     |   |                          |  |
| RTU Address:           |           | Gateways:           |   |                          |  |

### WELL INFORMATION

| Sensor | Customer Ref | Ref Elev | Elev Date | Top of Well | Bottom of Well | Ground Elev | Benchmark Elev | Benchmark Datum | Ref Elevation Location                           |
|--------|--------------|----------|-----------|-------------|----------------|-------------|----------------|-----------------|--|
| GW1    |              | 6.40Ft   | 2/9/2017  |             |                |             | 2.25Ft         | NAVD 88         | Mark on 2" PVC under cover denoted by brass tag. |
| STG1   |              | 6.94Ft   | 2/9/2017  |             |                |             | 2.25Ft         | NAVD 88         | Mark on 4" PVC denoted by brass tag.             |

| Sensor | GW Sensor Location Offset | Meas Pt Elevation | GW Land Elevation | Depth of Well | Type of Well | Top of Monitored Interval | Base of Monitored Interval | Parameter Transmitted |
|--------|---------------------------|-------------------|-------------------|---------------|--------------|---------------------------|----------------------------|-----------------------|
| GW1    |                           |                   |                   |               |              |                           |                            |                       |
| STG1   |                           |                   |                   |               |              |                           |                            |                       |

### COORDINATE INFORMATION

| Item/Parm | Lat             | Long            | X-Coord | Y-Coord | Sec | Township | Range | Quad           | Basin | County  | Description |
|-----------|-----------------|-----------------|---------|---------|-----|----------|-------|----------------|-------|---------|-------------|
| GW1       | 25° 57' 34.554" | 81° 34' 01.543" |         |         |     | 12 52S   | 27E   | Royal Palm Har |       | Collier |             |
| STG1      | 25° 57' 34.554" | 81° 34' 01.543" |         |         |     | 12 52S   | 27E   | Royal Palm Har |       | Collier |             |



# SGT5W1 Field Notes

| DATE   | DESCRIPTION                | DEPTH (FT) | ELEVATION (FT) | REMARKS            |
|--------|----------------------------|------------|----------------|--------------------|
| 2-9-17 | SEWMP SGT 5 W1             |            |                | PO R               |
|        | NEEDLE CAPULATIONS AIRPUMP |            |                | LEVERED COMBO 8089 |
|        | NONZ                       |            |                | WELL COMBO 1745    |
|        | LOW                        |            |                |                    |
|        | SWIRE + HI                 |            |                | REF ELEV DESS      |
|        |                            |            |                | 2.75 SGT 5 W1      |
| 6.432  |                            |            |                |                    |
| 6.410  | 8.1600                     |            |                |                    |
| 6.405  |                            | 1.745      |                |                    |
|        |                            | 1.725      | 6.942          | REF. MARK          |
|        |                            | 1.704      |                |                    |
|        |                            | 2.225      |                |                    |
|        |                            | 2.27       | 6.397          | REF MARK           |
|        |                            | 2.240      |                |                    |
| 2.157  |                            |            |                |                    |
| 2.155  | 8.532                      |            |                |                    |
| 2.115  |                            | 1.101      |                |                    |
|        |                            | 1.595      | 6.94           | REF                |
|        |                            | 1.573      |                |                    |
|        |                            | 6.290      |                |                    |
|        |                            | 6.205      | 6.240 to 6.225 | ✓ IN G             |
|        |                            | 6.27       |                |                    |
|        |                            | 8.42       | 0.112          |                    |

6/19/16  
NONZ 8089/153  
SPT 9/5 151

31011071.13  
1522

FOUND SPT TO BE DEEPER NO STAMPING NO ACCESS LID  
THINKS HIGHER SCREEN DRIVER TO ACCESS PM

3" PVC EXISTING BITING PUB 0.29 CALCIUM 1.547

3" PVC EXISTING BITING PUB 1.71 CALCIUM 1.517

MARK 4" PVC

REF PM

H<sub>2</sub>O @ 9:55 AM EXCHANGE READS 1.23



|        |           |                           |
|--------|-----------|---------------------------|
| 2.9.17 | SEWARD    | 80°10                     |
| MUNIZ  | SGT 5WI   |                           |
| LUNA   | SET GAUGE |                           |
| +      | H1        | ELEV DECC                 |
| 5.15   | 7.4       | 2.25 SGT 5WI              |
| 2.70   | 7.58      | 2.52 4.88 SET TOPOE GAUGE |
|        |           | 5.53 2.15 SGT 5WI √IN     |

W44/49  
REF 46  
WELLTOP

SIGNOFF 1.13  
1022

- NOTE REMAND EXHIBITS GIVE PLATE MAINTENANCE TALK # BACK BOILER NOT REMOVED
- CUT BOTTOM OF BOILER TO (-) 1500 BOLDED ATTILY BELOW NO 800 HOW TO PLACE GAUGE
- NO REF MARK ON WELLTOP

