

Sec. 31 Twp 36 Rge 41. Ebanks Reichart  
Verify Ref elev. for SAU 1

| HTA       | +               | H.I.   | -               | Elev.  | Remarks.                   |
|-----------|-----------------|--------|-----------------|--------|----------------------------|
| Bm. SAU 1 | 4.86<br>(3.405) | 22.329 |                 | 17.469 | fnD                        |
| SAU 1 HTA |                 |        | 1.995<br>(2.69) | 20.334 | (20.342)                   |
| SAU 1 GWL |                 |        | 1.935<br>(2.75) | 20.394 | (20.62)                    |
| Bm. SAU 1 | 4.86            |        |                 |        |                            |
| W/S.      | 7.40            |        |                 | 14.93  | (15.21)<br>ADJUST<br>GRADE |

Sec. Twp Rge Ebanks Reichart  
Verify Ref elev. for SAU 4

| SIA         | +              | H.I.   | -                                 | Elev   | Remarks        |
|-------------|----------------|--------|-----------------------------------|--------|----------------|
| Bm SAU 4.   | 5.70<br>(2.56) | 21.485 |                                   | 15.785 | fnD.           |
| SAU 4 HTA   |                |        | 2.97<br><del>2.86</del><br>(5.39) | 18.515 | (18.20)<br>ccy |
| SAU 4 GWL   |                |        | 2.87<br>(5.30)                    | 18.615 | (17.57)        |
| SAU 4 BOLT. |                |        | 7.55                              | 13.935 |                |

~~VOID  
3/2/09  
FB~~

Sec. 16 fwp 37 Rge 41

Verify Ref elev for SAV 6 wells -

| LSTA                | +              | H.I.   | -                 | Elev              | Remarks         |
|---------------------|----------------|--------|-------------------|-------------------|-----------------|
| BMSAV6              | 5.67<br>(2.59) | 20.293 | <del>14.723</del> | <del>14.723</del> | <del>IND.</del> |
| SAV6 SITE           |                |        | 1.05<br>(3.67)    | 19.343            | (19.02)<br>GUY  |
| SAV6 GW#            |                |        | 0.985<br>(3.695)  | 19.408            | (18.36)         |
| SAV6 STAFF<br>POST. |                |        | 5.81              | 14.58             | (13.53)         |

~~IND. 3/21/09~~

Sec. 21 fwp 37 Rge 41

Verify Ref elev for SAV 5 wells

| LSTA                | +               | H.I.   | -                | Elev   | Remarks        |
|---------------------|-----------------|--------|------------------|--------|----------------|
| BM SAV5             | 4.79<br>(3.475) | 20.542 |                  | 15.752 | IND.           |
| SAV5 SITE           |                 |        | 1.586<br>(3.085) | 18.956 | (18.96)<br>GUY |
| SAV5 GW#            |                 |        | 1.42<br>(3.25)   | 19.122 | (18.392)       |
| SAV5 STAFF<br>POST. |                 |        | 6.51<br>(1.76)   | 14.032 | (13.43)        |

Ebanks  
Reichert

REL. 31 twp 46 Rge 38

Establish REF ELEV FOR T/W (G-370)  $\frac{1}{2}$  SEPARATE WALL (G-370 NORTHSIDE)

| STA                            | +            | H.I.   | -     | ELEV     | Remarks       |
|--------------------------------|--------------|--------|-------|----------|---------------|
| B.M. G-370                     | 6.11<br>7.54 | 25.678 |       | 19.568   |               |
| G-370 (NORTH)<br>SEPARATE WALL |              |        | 9.715 | 15.963   | ✓ SET<br>TACK |
| G-370 T/W<br>WALL (WEST)       |              |        | 3.46  | 22.218   | ✓ SET<br>TACK |
| B.M. G-370                     | 6.11<br>7.54 |        |       | (19.568) |               |

Ebanks  
Reichert

REL. 31 twp 36 Rge 41

checking Ref elev @ STAFF GRADE (see pg. 58)  
**(SAV 1 -)**

| STA                    | +    | H.I.   | -     | ELEV   | Remarks   |
|------------------------|------|--------|-------|--------|-----------|
| B.M. SAV 1             | 4.54 | 22.009 |       | 17.469 |           |
| EXT. WALL<br>INT.      |      |        | 1.675 | 20.334 | (20.334)  |
| GRA 1                  |      |        | 1.161 | 20.399 | (20.394)  |
| hole on<br>STAFF GRADE |      |        | 5.52  | 16.489 | ✓ (16.49) |
| <b>for SAV 4</b>       |      |        |       |        |           |
| B.M. SAV 4             | 6.22 | 22.005 |       | 15.785 |           |
| EXT. WALL              |      |        | 3.81  | 18.195 | (18.20)   |
| GRA 1                  |      |        | 3.71  | 18.295 |           |
| EXT. WALL<br>DUST      |      |        | 8.06  | 13.945 | OK.       |

Elbanks  
Reichert

hwy 16 twp 37 Rgc 41

check REF elev for GAV6 (also staff gauge)  
see pg. 59

| STA  | +    | H.I.   | -    | elev   | Remarks            |
|--|------|--------|------|--------|--------------------|
| "BM GAV6"  | 5.30 | 20.023 |      | 14.723 |                    |
| GAV6 SIG<br>WALL   |      |        | 1.01 | 19.013 | (19.02)            |
| GAV6 GWT<br>WELL   |      |        | 0.94 | 19.083 |                    |
| GAV6 BPT   |      |        | 5.76 | 14.26  | (13.53)<br>(14.58) |
| <u><span style="border: 1px solid red; padding: 2px;">FOR SAV. 5.</span></u> |      |        |      |        |                    |
| BM SAV 5   | 5.05 | 20.802 |      | 15.752 |                    |
| SAV5 SIG<br>WALL   |      |        | 1.85 | 18.95  | (18.956)           |
| SAV5 GWT<br>WELL   |      |        | 1.68 | 19.12  | (19.122)           |
| GAV6 BPT   |      |        | 6.65 | 14.152 | (14.032)           |
|  |      |        | 4.02 | 16.78  | (16.66)            |

hwy 16 twp 42 Rgc 42

establish ELEVATION FOR GATE POINT  
CALIBRATION AT PC-15 culverts 1, 2, 3

| STA              | +    | H.I.   | - | elev   | Remarks |
|------------------|------|--------|---|--------|---------|
| BM R600<br>RECHT | 4.94 | 26.396 |   | 20.456 | FWD.    |



03.11.2008 10:09



U.S. Environmental Protection Agency  
National Water Research Institute  
Water Level Measurement Station  
Station ID: 03-11-2008  
Date: 03/11/2008  
Time: 12:44

03.11.2008 12:44





SHV. 1

GWS

HW  
Date 4  
20.64

03.11.2008 12:42



GW1

20.684

03.18.2008 08:12



SAV1 GW1  
ELEV. 20.394  
DATE 2 23 09  
BY EE MR  
NAVD 'NGVD 29

02.23.2009

SAV 1 STW  
ELEV. 20.334  
DATE 2 23 09  
BY EE MR  
NAVD NGVD 29

02.23.2009



SAVI  
S  
A  
V  
I





Ver. ~~4.0.5~~ 3-18-08  
CRIDX-TP

SAV 1      STW  
ELEV. 20.334  
DATE 2 23 09  
E MR  
NGVD 29



SAV1 GW1

ELEV. 20.394

DATE 2 23 09

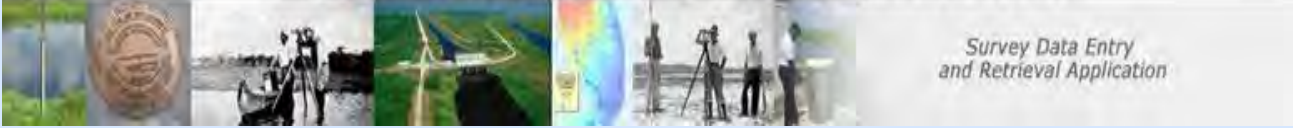
BY EE MR

NAVY

NGVD 29



## SOUTH FLORIDA WATER MANAGEMENT DISTRICT



## Survey Data Entry and Retrieval Application (SDERA) Print Output

## Control Point Search Results

Derived Data - Denoted By: \*\*

|                   |                  |                      |            |
|-------------------|------------------|----------------------|------------|
| Designation       | SAV1             | Record State         | ACCEPTED   |
| NGS PID           |                  |                      |            |
| Project Name      | SAV1 WELL SITE   | Date Entered/Updated | 12/09/2015 |
| Updated By        | hehmke           | Status               |            |
| Party Chief       |                  | Type                 | H/V        |
| Monument Set By   | GCV, INC         | Date Established     | 01/01/2008 |
| County            | ST. LUCIE COUNTY | Section              | 31         |
| Township          | 36               | Range                | 41         |
| Quadrangle        | ANKONA           | Offset (29 to 88)    |            |
| NGS Source BM     |                  | CCR Link             |            |
| Ctrl Pt Source(s) |                  |                      |            |

| Horizontal     | NAD 1927 | NAD 1983   | Vertical         | NGVD 1929 | NAVD 1988 |
|----------------|----------|------------|------------------|-----------|-----------|
| Latitude       |          | 27 18 08.1 | Class            |           |           |
| Longitude      |          | 80 16 22.7 | Order            |           |           |
| Northing(Y)    |          | 1079728.0  | Elevation        | 17.469    | 15.986    |
| Easting(X)     |          | 892268.0   | Measurement Unit | Feet      | Feet      |
| Class          |          |            |                  |           |           |
| Order          |          |            |                  |           |           |
| NAD83 Adj Year |          |            |                  |           |           |

## Field Book

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## Field Book Pages

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## Stamping

SO. FLA. WATER MANAGEMENT DIST. SURVEY MARKER "SAV1 2008"

## How to Reach

To reach from the intersection of FEC railroad and Walton Road, go West 1 mile to the entrance to the South Savannas Park Facility. Follow the trail Northerly along the West side of facility for 1310 feet more or less to station on the left. Station lies between dirt trail and edge of wetland.

Benchmarks used: NGS A640, SAV 9, Weatherington, J 236. Leveling began at the NGS benchmark a 640 (NGS PID pending) and continued onto NGS benchmark SAV 9 (NGS PID AJ8576) with a closure of 0.001 feet over a distance of 0.27 miles. Leveling continued through the newly constructed benchmark SAV 1 2008 and closed on NGS benchmark Weatherington (NGS PID AA5069) with a cumulative closure of 0.004 feet over a distance of 2.25 miles. Leveling then continued onto and concluded At NGS benchmark j 236 (NGS PID AJ3191) with a total cumulative error of 0.002 feet over A distance of 2.69 miles. Allowable error for this project is 0.03 feet times the square root of the distance run (in miles).

## Description

A concrete monument roughly 3 feet deep with a bell shaped bottom (12-inch to 14-inch) top 10-inch round with a 2-inch aluminum disc. (three and one-half (3.5), 80 pound bags of concrete.)

## DISCLAIMER:



A CONCRETE MONUMENT ROUGHLY 3 FEET DEEP WITH A BELL SHAPED BOTTOM (12-INCH TO 14-INCH) TOP 10-INCH ROUND WITH A 2-INCH ALUMINUM DISC. (3.5, 80 POUND BAGS OF CONCRETE.)

**DISCLAIMER:**

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03.12.2008 11:57



03.25.2008 08:14

RP<sup>s</sup> ~~ST~~ HW - 17.51

GW-1 - 17.57

03.25.2008 08:15



SAV4

Rev 1.0  
SAV4

03.12.2008 12:03

REV

W LLL  
 ELEV. 18.29  
 DATE 02/05/08  
 BY MDE GUY, INC.  
 NAVD NGVD 29

03.25.2008 08:15



**In-Situ Inc.**

Level**TROLL™** 500

03.25.2008 08:16



SAV 4 STW  
ELEV. 18.195  
DATE 3 11 09  
BY EE MR  
NAVD NGVD 29

0.35  
0.25  
0.48

REV

03.11.2009

SAV 4 GW1  
ELEV. 18.295  
DATE 3 11 09  
BY EE MR  
NAVD NGVD-29

03.11.2009



NAVD 88  
SFWM  
+1.48TONGVD29

16

15

14

09.21.2015 00:06

**SOUTH FLORIDA WATER MANAGEMENT DISTRICT**



Survey Data Entry and Retrieval Application (SDERA) Print Output

**Control Point Search Results**

Derived Data - Denoted By: \*\*

|                   |                |                      |            |
|-------------------|----------------|----------------------|------------|
| Designation       | SAV4           | Record State         | ACCEPTED   |
| NGS PID           |                |                      |            |
| Project Name      | SAV5 WELL SITE | Date Entered/Updated | 12/09/2015 |
| Updated By        | hehmke         | Status               |            |
| Party Chief       |                | Type                 | H/V        |
| Monument Set By   | GCY, INC       | Date Established     | 01/01/2008 |
| County            | MARTIN COUNTY  | Section              | 21         |
| Township          | 37             | Range                | 41         |
| Quadrangle        | PALM CITY      | Offset (29 to 88)    |            |
| NGS Source BM     |                | CCR Link             |            |
| Ctrl Pt Source(s) |                |                      |            |

| <u>Horizontal</u> | <u>NAD 1927</u> | <u>NAD 1983</u> | <u>Vertical</u>  | <u>NGVD 1929</u> | <u>NAVD 1988</u> |
|-------------------|-----------------|-----------------|------------------|------------------|------------------|
| Latitude          |                 | 27 14 65.5      | Class            |                  |                  |
| Longitude         |                 | 80 15 00.8      | Order            |                  |                  |
| Northing(Y)       |                 | 1059401.0       | Elevation        | 15.785           | 14.312           |
| Easting(X)        |                 | 899781.0        | Measurement Unit | Feet             | Feet             |
| Class             |                 |                 |                  |                  |                  |
| Order             |                 |                 |                  |                  |                  |
| NAD83 Adj Year    |                 |                 |                  |                  |                  |

**Field Book**  
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**Field Book Pages**  
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**Stamping**  
SO. FLA. WATER MANAGEMENT DIST. SURVEY MARKER STATION DESIGNATION "SAV4 2008"

**How to Reach**  
To reach from the intersection of Jensen Beach Boulevard and Green River Parkway, go East on Jensen Beach Boulevard approximately 1075 feet to the entrance to Savannas State Park on the North. Go into the park to the sidewalk intersection between the picnic pavilion and the restrooms. Station is 39.5 feet Northwest of said sidewalk intersection and 15.7 feet Easterly of the corner of the picnic pavilion.  
Benchmarks used: NGS- GS 41, GCY D20  
Leveling began at the NGS benchmark GS 41 (NGS PID ab2495) and continued onto NGS benchmark GCY D20 (NGS PID AJ5262) with a closure of 0.007 feet over a distance of 0.41 miles. Leveling continued through the newly constructed benchmark SAV 4 2008. Leveling continued through the newly constructed benchmark SAV 5 2008. Leveling continued through the newly constructed benchmark SAV 6 2008 and closed back on NGS benchmark GS 41 (NGS PID AB2495) with a cumulative closure of 0.001 feet over a distance of 2.11 miles. Allowable error for this project is 0.03 feet times the square root of the distance run (in miles).

**Description**  
A concrete monument about 3 feet deep with a 14-inch bell at the bottom 12-inch at the top, round with a 3-inch brass disc (three and one-half (3-1/2), 80 pound bags of concrete).

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**SOUTH FLORIDA WATER MANAGEMENT DISTRICT**



**Survey Data Entry and Retrieval Application (SDERA) Print Output**

**Control Point Search Results**

Derived Data - Denoted By: \*\*

|                   |                |                      |            |
|-------------------|----------------|----------------------|------------|
| Designation       | SAV6           | Record State         | ACCEPTED   |
| NGS PID           |                |                      |            |
| Project Name      | SAV6 WELL SITE | Date Entered/Updated | 12/09/2015 |
| Updated By        | hehmke         | Status               |            |
| Party Chief       |                | Type                 | H/V        |
| Monument Set By   | GCY, INC       | Date Established     | 01/01/2008 |
| County            | MARTIN COUNTY  | Section              | 16         |
| Township          | 37             | Range                | 41         |
| Quadrangle        | ANKONA         | Offset (29 to 88)    |            |
| NGS Source BM     |                | CCR Link             |            |
| Ctrl Pt Source(s) |                |                      |            |

| <u>Horizontal</u> | <u>NAD 1927</u> | <u>NAD 1983</u> | <u>Vertical</u>  | <u>NGVD 1929</u> | <u>NAVD 1988</u> |
|-------------------|-----------------|-----------------|------------------|------------------|------------------|
| Latitude          |                 | 27 15 10.8      | Class            |                  |                  |
| Longitude         |                 | 80 15 08.4      | Order            |                  |                  |
| Northing(Y)       |                 | 1061866.0       | Elevation        | 14.723           | 13.25            |
| Easting(X)        |                 | 899082.5        | Measurement Unit | Feet             | Feet             |
| Class             |                 |                 |                  |                  |                  |
| Order             |                 |                 |                  |                  |                  |
| NAD83 Adj Year    |                 |                 |                  |                  |                  |

**Field Book**  
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**Field Book Pages**  
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**Stamping**  
SO. FLA. WATER MANAGEMENT DIST. SURVEY MARKER STATION DESIGNATION "SAV6 2008"

**How to Reach**  
To reach from the intersection of Jensen Beach Boulevard and Green River Parkway, go East on Jensen Beach Boulevard approximately 230 feet to a dirt road on the North side of Jensen Beach Boulevard. Thence go North along said road approximately 2830 feet to the station on the right. Station is approximately 65 feet East of the dirt road at the West side of a wetland.

Benchmarks used: NGS- GS 41, GCY D20 Leveling began at the NGS benchmark GS 41 (NGS PID AB2495) and continued onto NGS Benchmark GCY D20 (NGS PID AJ5262) with a closure of 0.007 feet over a distance of 0.41 miles. Leveling continued through the newly constructed benchmark SAV 4 2008. Leveling continued through the newly constructed benchmark SAV 5 2008. Leveling continued through the newly constructed benchmark SAV 6 2008 and closed back on NGS Benchmark GS 41 (NGS PID AB2495) with a cumulative closure of 0.001 feet over a distance of 2.11 miles. Allowable error for this project is 0.03 feet times the square root of the distance run (in miles).

**Description**  
A concrete monument about 3 feet deep with a 14-inch bell at the bottom 12-inch at the top, round with a 3-inch brass disc (five and one-half (5-1/2), 80 pound bags of concrete).

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03.12.2008 10:38





03.12.2008 10:38

SAV 6 WELL  
ELEV. 19.02  
DATE 02 06 08  
BY MDL GCY. INC.  
NAVD NGVD 29

03.19.2008 08:27



18.356

18.36

03.19.2008 08:27

RP - 18.27 = H<sub>2</sub>O  
- 18.36 = G<sub>2</sub>  
x 10<sup>6</sup>

3003



03.19.2008 08:26

SAV 5 STW  
ELEV. 18.956  
DATE 2 23 09  
BY EE MR  
NAVD NGVD 29

02.23.2009

GW1

|       |         |      |    |
|-------|---------|------|----|
|       | SAV 5   | GW1  |    |
| ELEV. | 19.122  |      |    |
| DATE  | 2 23 09 |      |    |
| BY    | EE MR   |      |    |
| NAVD  |         | NGVD | 29 |

02.23.2009

**SOUTH FLORIDA WATER MANAGEMENT DISTRICT**



Survey Data Entry and Retrieval Application (SDERA) Print Output

**Control Point Search Results**

Derived Data - Denoted By: \*\*

|                   |                |                      |            |
|-------------------|----------------|----------------------|------------|
| Designation       | SAV5           | Record State         | ACCEPTED   |
| NGS PID           |                |                      |            |
| Project Name      | SAV5 WELL SITE | Date Entered/Updated | 12/09/2015 |
| Updated By        | hehmke         | Status               |            |
| Party Chief       |                | Type                 | H/V        |
| Monument Set By   | GCY, INC       | Date Established     | 01/01/2008 |
| County            | MARTIN COUNTY  | Section              | 21         |
| Township          | 37             | Range                | 41         |
| Quadrangle        | PALM CITY      | Offset (29 to 88)    |            |
| NGS Source BM     |                | CCR Link             |            |
| Ctrl Pt Source(s) |                |                      |            |

| Horizontal     | NAD 1927 | NAD 1983   | Vertical         | NGVD 1929 | NAVD 1988 |
|----------------|----------|------------|------------------|-----------|-----------|
| Latitude       |          | 27 14 55.8 | Class            |           |           |
| Longitude      |          | 80 15 07.0 | Order            |           |           |
| Northing(Y)    |          | 1060355.0  | Elevation        | 15.752    | 14.278    |
| Easting(X)     |          | 899210.0   | Measurement Unit | Feet      | Feet      |
| Class          |          |            |                  |           |           |
| Order          |          |            |                  |           |           |
| NAD83 Adj Year |          |            |                  |           |           |

**Field Book**  
113 A

**Field Book Pages**  
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**Stamping**  
SO. FLA. WATER MANAGEMENT DIST. SURVEY MARKER STATION DESIGNATION "SAV5 2008"

**How to Reach**  
To reach from the intersection of Jensen Beach Boulevard and Green River Parkway, go East on Jensen Beach Boulevard approximately 230 feet to a dirt road on the North side of Jensen Beach Boulevard; Thence go North along said dirt road approximately 1300 feet to the station on the right. Station is approximately 225 feet East of the dirt road at the west side of a wetland.

Benchmarks used: NGS GS 41, GCY D20 leveling began at the NGS benchmark GS 41 (NGS PID AB2495) and continued onto NGs benchmark GCY D20 (NGS PID AJ5262) with a closure of 0.007 feet over a distance of 0.41 miles. Leveling continued through the newly constructed benchmark SAV 4 2008. Leveling continued through the newly constructed benchmark SAV 5 2008. Leveling continued through the newly constructed benchmark SAV 6 2008 and closed back on NGS benchmark GS 41 (NGS PID AB2495) with a cumulative closure of 0.001 feet over a distance of 2.11 miles. Allowable error for this project is 0.03 feet times the square root of the distance run (in miles).

**Description**  
A concrete monument about 3 feet deep with a 14-inch bell at the bottom 12-inch at the top, round with a 3-inch brass disc (four (4), 80 pound bags of concrete).

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SAV 6      STW  
ELEV.    19.01  
DATE    3   11   09  
BY    EE      MR  
NAVD                      NGVD 29

03.11.2009

SAV 6 GW1  
ELEV. 19.08  
DATE 3 11 09  
BY EE MP NGVD 22  
NAVD

03.11.2009



