











Site Name G3338 GW1		Date of Field Work May 12, 2016
Party Chief Ebanks/Rodriguez	Field Book Name/Number SCADA FB # 12	Page Number 22
Site Benchmark Name DC BM J-514	Benchmark Elevation (NAVD88) 6.51 ft	Datum Offset to NGVD29 + 1.56
Reference Elevation (NAVD 88) 7.92 ft		Existing Tag Elevation (Datum) 9.85 ft (NGVD 29) Hand written @ RTU
Latitude 25° 20' 15.86"		Longitude 80° 31' 28.753"
Notes: Ground elevation = 7.95 ft Corpscon v. 6.0.1 offset = +1.56'; field offset = +1.93 ft		

Photographs:

Overall Site 	Benchmark Close Up 	Benchmark Location 
Brass Tag Close Up 	Brass Tag and Reference Mark 	Staff Gauge N/A

Site Name G3339 GW1		Date of Field Work May 12, 2016
Party Chief Ebanks/Rodriguez	Field Book Name/Number SCADA FB # 12	Page Number 22
Site Benchmark Name DC BM J-514	Benchmark Elevation (NAVD88) 6.51 ft	Datum Offset to NGVD29 + 1.56
Reference Elevation (NAVD 88) 6.06 ft		Existing Tag Elevation (Datum) 8.05 ft (NGVD 29) Hand written @ RTU
Latitude 25° 19' 56.357"		Longitude 80° 31' 28.65"
Notes: Ground elevation = 6.36 ft Corpscon v. 6.0.1 offset = +1.56'; field offset = +1.99 ft		

Photographs:

Overall Site 	Benchmark Close Up 	Benchmark Location 
Brass Tag Close Up 	Brass Tag and Reference Mark 	Staff Gauge N/A

REC. 3 WP 59 Rge 38 ^{Febankly} Rodriguez

Establish Elev for well G-3339 & G-3338
 Located 500' ± 2,000' North of S-18C on EASTSIDE
 of Canal Levee

6.509 NAVD88

HTA	+	HI.	-	Elev	Remark
B.M. J-514	5.28	11.79		6.51	rod @ S-18C
			4.99	6.80	
TP	4.79	11.59			
Well G-3339			5.53	6.06	✓
G, shot.			5.23	6.36	✓
TP			4.61	6.98	
	4.21	11.19			
TP			4.62	6.57	
	4.70	11.27			
TP			4.62	6.65	
	5.13	11.78			
Well G-3338			3.86	7.92	✓
G.D. shot			3.83	7.95	
TP/B.M.			3.33	8.45	TOP of Ground wire Anchor @ Well.
TP			5.13	6.65	
	4.77	11.42			

No Check Rod reading →

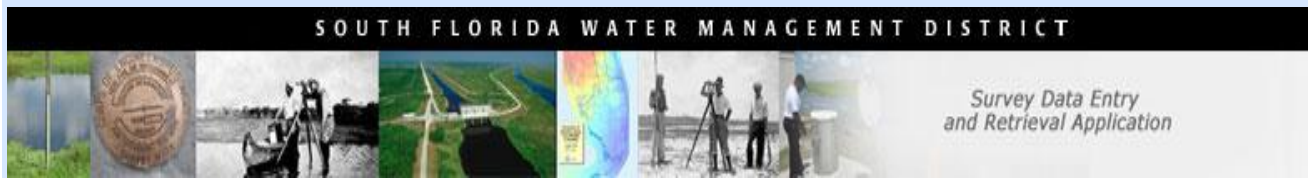
630' ± from bench to G-3339

Bench Run Contd.

HTA	+	HI.	-	Elev.	Remarks
TP		11.42	4.89	6.53	
	4.86	11.39			
TP			4.44	6.95	
	4.66	11.61			
Well G-3339			5.55	6.06	✓
TP			4.83	6.78	
	4.94	11.72			
B.M. J-514			5.22	6.50	(6.51)

1950' ± from G-3338 to G-3338

G-3338 (total run)
 24.11 - 23.97 = +0.14
 19.23 - 19.38 = -0.15
 0.145 avg.



Survey Data Entry and Retrieval Application (SDERA) Print Output

Control Point Search Results

Derived Data - Denoted By:
**

Designation	J514DC	Record State	ACCEPTED
NGS PID	DI8211		
Project Name	S-018C	Date Entered/Updated	03/04/2017
Updated By	hehmke	Status	RECOVERED
Party Chief		Type	V
Monument Set By	U.S. ARMY CORPS OF ENGINEERS	Date Established	01/01/1979
County	MIAMI-DADE COUNTY	Section	3
Township	59	Range	38
Quadrangle	ROYAL PALM RANGER STATION SE	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		25 19 50.0	Class	II	II
Longitude		80 31 30.0	Order	1	1
Northing(Y)			Elevation	8.003	6.509
Easting(X)			Measurement Unit	Feet	Feet
Class					
Order					
NAD83 Adj Year					

Field Book

DCS 1

Field Book Pages

33

Stamping

S-18C/DCBM J-514

How to Reach

OLD SFWMD EL. 6.510 NAVD 1988 8.054 NGVD 1929
 PRELIMINARY FLDEP EL. 8.003 NGVD 1929 EL. 6.514 NAVD 1988
 ***** RECOVERY NOTE *****

7/14/2005 PETERS KEITH&SCHNARS FIELD BOOK 1182 PAGE 24 BRASS DISC IN SOUTHEAST HEADWALL OF

S-18C BM J-514 EL. 8.05 NGVD 1929

8/9/2000 CONSUL-TECH FOR THE STRIVE PROGRAM FOUND J-514, A DADE COUNTY BRASS DISK IN THE SOUTHEAST

CORNER OF S-18C EL. 8.05 NGVD 1929.

8//1980 ART HOLLIN FIELD BOOK MISC 5E, PAGE 26 BM DC J-514

THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT DESCRIPTION



FROM THE INTERSECTION OF U.S. HWY. 1 AND PALM DRIVE IN FLORIDA CITY GO S. ALONG U.S. HWY. 1

ABOUT 10.7 MI. TO SFWMD CANAL 111. GO N.W. ON THE N. ROADWAY OF CANAL 5.16 MI. TO STATION LOCATION.

BM IS A DADE COUNTY WATER CONTROL BRASS BAR SET ON THE EAST ABUTMENT OF SFWMD STRUCTURE S-18C.

BM IS 5.9 FEET NORTH OF THE SOUTH TIP OF THE EAST ABUTMENT, 1.4 FOOT WEST OF THE EAST EDGE,

4.9 FEET SOUTH OF THE NORTHEAST CORNER OF THE SOUTH CURB OF THE ROADWAY OVER THE STRUCTURE.

A SKETCH OF THE BENCH MARK LOCATION IS SHOWN IN DADE COUNTY STRUCTURES BOOK 2, PAGE 16

Description

A MIAMI-DADE COUNTY DISK GROUTED INTO THE STRUCTURE.

DISCLAIMER:

The South Florida Water Management District (hereinafter referred to as the DISTRICT) shall not be held liable for improper or incorrect use of the data, information, apparatus, products, processes or materials described and/or contained herein. These data, information, apparatus, products, processes, materials and related graphics are not legal documents and are not intended to be used as such. The user hereby recognizes that the information, data, apparatus, products, processes and materials are dynamic and may change over time without notice. However, the DISTRICT makes no commitment to update the information, data, apparatus, products, processes or materials contained herein.

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.11
1      National Geodetic Survey,  Retrieval Date = MARCH  4, 2017
DI8211 *****
DI8211 DESIGNATION - J 514
DI8211 PID - DI8211
DI8211 STATE/COUNTY- FL/MIAMI-DADE
DI8211 COUNTRY - US
DI8211 USGS QUAD - ROYAL PALM RANGER STATION SE (1967)
DI8211
DI8211 *CURRENT SURVEY CONTROL
DI8211
DI8211* NAD 83(1986) POSITION- 25 19 50. (N) 080 31 29. (W) SCALED
DI8211* NAVD 88 ORTHO HEIGHT - 1.984 (meters) 6.51 (feet) ADJUSTED
DI8211
DI8211 GEOID HEIGHT - -24.440 (meters) GEOID12B
DI8211 DYNAMIC HEIGHT - 1.981 (meters) 6.50 (feet) COMP
DI8211 MODELED GRAVITY - 978,982.0 (mgal) NAVD 88
DI8211
DI8211 VERT ORDER - FIRST CLASS II
DI8211
DI8211.The horizontal coordinates were scaled from a topographic map and have
DI8211.an estimated accuracy of +/- 6 seconds.
DI8211.
DI8211.The orthometric height was determined by differential leveling and
DI8211.adjusted by the NATIONAL GEODETIC SURVEY
DI8211.in September 2009.
DI8211
DI8211.Significant digits in the geoid height do not necessarily reflect accuracy.
DI8211.GEOID12B height accuracy estimate available here.
DI8211
DI8211.The dynamic height is computed by dividing the NAVD 88
DI8211.geopotential number by the normal gravity value computed on the
DI8211.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DI8211.degrees latitude (g = 980.6199 gals.).
DI8211
DI8211.The modeled gravity was interpolated from observed gravity values.
DI8211
DI8211; North East Units Estimated Accuracy
DI8211;SPC FL E - 110,540. 247,850. MT (+/- 180 meters Scaled)
DI8211
DI8211_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ478016(NAD 83)
DI8211
DI8211 SUPERSEDED SURVEY CONTROL
DI8211
DI8211.No superseded survey control is available for this station.
DI8211
DI8211_MARKER: DD = SURVEY DISK
DI8211_SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE
DI8211_SP_SET: WATER GATE HEADWALL
DI8211_STAMPING: DC BM J-514
DI8211_MARK LOGO: USACE

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DI8211_MAGNETIC: N = NO MAGNETIC MATERIAL
 DI8211_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 DI8211+STABILITY: SURFACE MOTION
 DI8211_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DI8211+SATELLITE: SATELLITE OBSERVATIONS - June 21, 2004

DI8211
 DI8211 HISTORY - Date Condition Report By
 DI8211 HISTORY - UNK MONUMENTED
 DI8211 HISTORY - 20040621 GOOD FLDEP
 DI8211 HISTORY - 20150510 GOOD WANTGP

DI8211
 DI8211 STATION DESCRIPTION

DI8211'DESCRIBED BY FL DEPT OF ENV PRO 2004 (JLM)
 DI8211'THE MARK IS ABOUT 16.0 MI (25.7 KM) NORTHWEST OF KEY LARGO, 9.0 MI
 DI8211'(14.5 KM) SOUTH OF FLORIDA CITY, IN SECTION 3, TOWNSHIP 59 SOUTH,
 DI8211'RANGE 38 EAST.

DI8211'
 DI8211'TO REACH THE MARK FROM THE INTERSECTION OF PALM DRIVE (STATE HIGHWAY
 DI8211'9336, SOUTHWEST 344TH STREET) AND U.S. HIGHWAY 1 (SOUTH DIXIE HIGHWAY)
 DI8211'IN FLORIDA CITY, GO SOUTH ON U.S. HIGHWAY 1 (SOUTH DIXIE HIGHWAY) FOR
 DI8211'10.9 MI (17.5 KM) TO A SIDE ROAD ON THE LEFT JUST BEFORE REACHING A
 DI8211'SMALL DRAW BRIDGE, TURN LEFT ON THE SIDE ROAD AND GO SOUTHEAST THEN
 DI8211'SOUTH FOR 0.15 MI (0.2 KM) TO THE T-JUNCTION OF A LEVEE ROAD, TURN
 DI8211'RIGHT ON THE LEVEE ROAD AND GO WEST, PASSING THROUGH A LOCKED GATE AND
 DI8211'UNDER A SMALL BRIDGE THAT SPANS CANAL C-111, CONTINUE WEST ON THE
 DI8211'LEVEE ROAD FOR 6.25 MI (10.1 KM) TO STRUCTURE S18C ON THE LEFT AND THE
 DI8211'MARK ON THE LEFT, SET FLUSH IN THE SOUTHEAST CORNER OF THE HEADWALL OF
 DI8211'THE WATER CONTROL GATE AND LEVEL WITH THE STRUCTURE ROAD.

DI8211'
 DI8211'LOCATED 5.9 FT (1.8 M) NORTH OF THE SOUTH POINT OF THE ABUTMENT, 4.9
 DI8211'FT (1.5 M) SOUTH OF THE NORTHEAST CORNER OF THE SOUTH CURB OF THE ROAD
 DI8211'SPANNING CANAL C-111 AND 1.4 FT (0.4 M) WEST OF THE EAST EDGE OF THE
 DI8211'ABUTMENT.

DI8211'
 DI8211'NOTE FOR KEY CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT AT 2195
 DI8211'NORTHEAST EIGHTH STREET HOMESTEAD, FL 33033, PHONE 305-242-5955.

DI8211
 DI8211 STATION RECOVERY (2015)

DI8211
 DI8211'RECOVERY NOTE BY WANTMAN GROUP INC 2015 (JM)
 DI8211'RECOVERED IN GOOD CONDITION.

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





Vertical Control Points J-514 IS UNKNOWN

Name:J-514

Elev(NGVD29): 8.08

Elev(NAVD88): 999.99

Northing: 362,676

Easting: 813,143

Location1:

SW 472 ST ---

Location2:

C-111-E CANAL ---

Location3:

Description1: BRASS BAR IN CONC RETAINING WALL ON SE CORNER OF STRUCTURE.

Description2:

Field Book: 436-24

Zones: V

Circuit: 600

Set Date:

Locator:9830

Last-Check:

Adjustment:

Adjustment-Date:

Status:UNKNOWN

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Office

Project

4 March 2017

INPUT

Geographic, flhpgn - Florida HPGN
Vertical - NAVD88, U.S. Feet

OUTPUT

State Plane, flhpgn - Florida HPGN
0901 - Florida East, U.S. Feet
Vertical - NGVD29 (Custom), U.S. Feet

J514 DC

1/3

Latitude: 25 19 50
Longitude: 80 31 29
Elevation/Z: 0

Northing/Y: 362666.998
Easting/X: 813147.021
Elevation/Z: 1.562
Convergence: 0 12 12.04809
Scale Factor: 0.999969437
Combined Factor: 0.999973195

G-3338

2/3

Latitude: 25 20 15.86
Longitude: 80 31 28.75
Elevation/Z: 0

Northing/Y: 365277.721
Easting/X: 813160.690
Elevation/Z: 1.562
Convergence: 0 12 12.34897
Scale Factor: 0.999969442
Combined Factor: 0.999973203

G-3339

3/3

Latitude: 25 19 56.36
Longitude: 80 31 28.65
Elevation/Z: 0

Northing/Y: 363309.172
Easting/X: 813176.854
Elevation/Z: 1.562
Convergence: 0 12 12.24554
Scale Factor: 0.999969448
Combined Factor: 0.999973207

Remark:

Corpscon v6.0.1, U.S. Army Corps of Engineers

REGISTRATION WORKSHEET - G3338 Addendum

Site Name: **G3338** Today's Date: **5/13/2016** Type Recorder: **CR10**
 Activity: **Addendum** Effective Date: Start Date of Data :
 Customer: **Garnett Ritchie** Bus. Area: **SCADA Maintenance** Agency: **SFWMD** Internal Order:
 Project Manager: **Amelia Rodriguez** Bus. Area: **Survey & Mapping** Agency: **SFWMD** Fund:
 Project Name: **VDUP** Legal Mandate: **No Known Mandate**

Short Common Name / Description:

Proj. Mgr. Notes: This addendum was performed to add NAVD 88 surveying data for the reference elevation. To convert to NGVD 29 add +1.56ft. We have found that the elevation in NGVD 29 is off by 0.37 ft (higher).

Site Directions: From the intersection of US-27 and the C-111E canal, travel south on the east levee road of the C-111E canal for 5.0 miles (0.5 miles north of the S-18C structure) The site is on the east side of the rock levee road at the base of the berm.

Site Address (if any):

Transportation: **Std Vehicle** Lock type or combination: **Abloy S** #

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

Array ID Configuration table attached **NO**

SURVEY INFORMATION

B.M. Elevation: **6.51 ft** Date: **1/1/1979** Stamp: **DC BM J 514**
 Agency: **DADE** Type: **BRASS** Datum: **NAVD 88**

Benchmark Location/ Description: FROM US HWY 1 AND CANAL 111, GO NW ON N ROADWAY OF CANAL 5.16 MLS TO STRUCTURE S-18C. MARK IS ON E ABUTMENT.

COMMUNICATIONS INFORMATION

Communications System: Loggernet Server: Loggernet IP Address:
 Tower: 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		7.92ft	5/12/2016			7.95ft	6.51ft	NAVD 88	Top of the pipe

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																

COORDINATE INFORMATION

Item/Param	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
RTU	25 20 15.86	80 31 28.753			34	58	38	C111		Dade	
GW1	26 20 15.86	81 31 28.753			34	58	38	C111		Dade	

REGISTRATION WORKSHEET - G3339 Addendum

Site Name: **G3339** Today's Date: **5/13/2016** Type Recorder: **CR10**
 Activity: **Addendum** Effective Date: Start Date of Data :
 Customer: **Garnett Ritchie** Bus. Area: **SCADA Maintenance** Agency: **SFWMD** Internal Order:
 Project Manager: **Amelia Rodriguez** Bus. Area: **Survey & Mapping** Agency: **SFWMD** Fund:
 Project Name: **VDUP** Legal Mandate: **No Known Mandate** Contract #:

Short Common Name / Description:

Proj. Mgr. Notes: This addendum was performed to add NAVD 88 surveying data for the reference elevation. To convert to NGVD 29 add +1.56ft. We have found that the elevation in NGVD 29 is off by 0.44 ft (higher).

Site Directions: From the intersection of US-27 and the C-111E canal, travel south on the east levee road of the C-111E canal for 5.4 miles (0.14 miles north of the S-18C structure) The site is on the east side of the rock levee road at the base of the berm.

Site Address (if any):

Transportation: **Std Vehicle** Lock type or combination: **Abloy S** #
 Recorder Location/Purpose: **Stand-Alone Recorder (Non-Flow Site)** Structure Type:
 Array ID Configuration table attached **NO**

SURVEY INFORMATION

B.M. Elevation: **6.51 ft** Date: **1/1/1979** Stamp: **DC BM J 514**
 Agency: **DADE** Type: **BRASS** Datum: **NAVD 88**

Benchmark Location/ Description: FROM US HWY 1 AND CANAL 111, GO NW ON N ROADWAY OF CANAL 5.16 MLS TO STRUCTURE S-18C. MARK IS ON E ABUTMENT.

COMMUNICATIONS INFORMATION

Communications System: Loggernet Server: Loggernet IP Address:
 Tower: 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		6.06ft	5/12/2016			6.36ft	6.51ft	NAVD 88	Top of the pipe

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																

COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
RTU	25 19 56.357	80 31 28.65			34	58	38		C111	Dade	
GW1	26 20 15.86	81 31 28.753			34	58	38		C111	Dade	