Sec. 11 TWP 48 Rge 39

EBanks
Wheeler

Verify Ref. Elev for Wells @ WCA2U3

	BTA	+	+/-	—	Elev	Remarks
BM WCA 2U3					14.42	12.861
					- 0.13	
					14.29	TOP CASING
					- 2.14	
					12.15	STAGE
					+ 6.07	
					18.22	Ref Elev (18.26)

DTW @ STAGE WELL = 6.50
- .43
6.07

For GW wells

16.661

(88)
12.861

	4.64	19.06		
		17.501		
GW#1			1.82	17.24 (17.23)
GW#2			1.86	17.20 (17.19)
GW#3			0.70	18.36 (18.375)
GW#4			0.70	18.36 (18.375)
GW#5			0.795	18.265 (18.275)
GW#6			0.82	18.24 (18.250)
BM			4.64	
W/S.			6.915	12.145

Sec 33 TWP 48 Rge 40

Verify Ref Elev for Wells @ WCA2U1

	BTA	+	+/-	—	Elev	Remarks
BM WCA 2U1	4.90		18.78		13.88	
			17.203			
WCA2U1 GW1				1.99	16.79	(16.79)
WCA2U1 GW2				1.98	16.80	(16.80)
WCA2U1 STG WELL				1.79	16.99	(17.09)
W/S.				7.17	11.61	

15.68 GW1
15.64 GW2
16.80 GW3
16.80 GW4
16.71 GW5
16.68 GW6
10.59 W/S

(88)
12.303
—
—
15.21
—
—
15.22
—
—
15.41
—
10.03

Sec. 4 TWP 48 Rge 40

Ebanks
Wheeler

Verify Ref Elev @ WCA2E4 Wells.

hTA	+	H.I.	−	Elev	Remarks
BM WCA2E4	5.24	19.66 18.100		14.42	(88) 12.861
GW#1			2.37	17.29	(17.29)
GW#2			2.385	17.275	(17.275)
GW#3			1.92	17.74	(17.74)
GW#4			1.92	17.74	(17.74)
GW#5			2.08	17.58	(17.582)
GW#6			2.105	17.555	(17.56)
WCA2E4 STG well			2.335	17.325	(17.395)
BM			5.24	14.42	

(88)	
15.73	GW1
15.72	GW2
16.18	GW3
16.18	GW4
16.02	GW5
15.996	GW6
15.766	STG

Sec. 31 TWP 47 Rge 30

Verify Ref Elev @ WCA2F4 Wells.

hTA	+	H.I.	−	Elev	Remarks
BM WCA2F4	5.28	19.76 18.206		14.48	(88) 12.926
WCA2F4 GW#1			2.38	17.38	(17.38)
WCA2F4 GW#2			2.185	17.575	(17.57)
WCA 2F4 hTA well			2.913	16.847	(17.26)
BM WCA2F4			5.28	14.48	

(88)	
15.83	
—	
16.02	
—	
—	
—	
15.29	


WCA2U1 GW1
ELEV. 16.79
DATE 6 3 13
BY EE RW
NAVD NGVD 29


WCA2U1 STGWELL
ELEV. 16.99
DATE 6 3 13
BY EE RW
NAVD
NGVD


SFWMD
Equip Tag
10045579
S/N
0000000000000537
SFWMD
Equip Tag
10045579
S/N
0000000000000537
OCAZUI STOWELL
ELEV. 16.99
DATE 6 3 13
BY EE RH
NAVD NGVD29


WCA 2U1 GW2
ELEV. 16.80
DATE 6 3 13
BY EE RW
NAVD NGVD 29


WCA2U1 GW1
ELEV. 16.79
DATE 6 3 15
BY EE RW
NAVD NGVD 29
In-Situ Inc. RuggedCable™
24 AWG 6


WCA2U3 GW3
ELEV. 18.375
DATE 6 3 13
BY EE RW
NAVD NGVD 29
WCA2U3 GW4
ELEV. 18.375
DATE 6 3 13
BY EE RW
NAVD NGVD 29


WCA2U3 GW5
ELEV. 18.275
DATE 6 3 13
BY EE RW
NAVD NGVD 29
WCA2U3 GW6
ELEV. 18.25
DATE 6 3 13
BY EE RW
NAVD NGVD 29
GW.6


GW 5
GW 6
WCA2U3 GW5
ELEV. 18.276
DATE 6 3 13
BY EE RW
NAVD NGVD 29
WCA2U3 GW6
ELEV. 18.26
DATE 6 3 13
BY EE RW
NAVD NGVD 29
GW. 6


WCA2U3 GW 2
ELEV. 17.19
DATE 6 5 13
BY EE RW
NAVD NGVD 29


WCA2U3 GW1
ELEV. 17.23
DATE 6 3 15
BY EE RW
NAVD NGVD 29
17.23
GW1
In-Situ Inc. Rugged Cable 24 AWG 6 PU AWM 80°C 300V E54661 LL54185 CM


NONSPILLABLE
WCA2U3 STGWELL
ELEV. 18.22
DATE 6 3 13
BY EE RW
NAVD NGVD 29


WCA2E4 GW6
ELEV. 17.56
DATE 6 3 13
BY EE RW
NAVD NGVD 29
WCA2E4 GW5
ELEV. 17.58
DATE 6 3 13
BY EE RW
NAVD NGVD 29
GW5
17.592
GW6
17.56


WCA2E4 GW4
ELEV. 17.74
DATE 6 3 13
EE RW
NGVD 29
WCA2E4 GW3
ELEV. 17.74
DATE 6 3 13
BY EE RW
NAVD NGVD 29


WCA2E4 GW2
ELEV. 17.275
DATE 6 5 13
BY EE RW
NAVD NGVD 29
GW2=17.28


GW 1
17.29
WCA2E4 GW 1
ELEV. 17.29
DATE 6 3 13
BY EE RW
NAVD NGVD 29


WCA2E4 STGWELL
ELEV. 17.325
DATE 6 3 13
BY EE RW
NAVD NGVD 29


WCA2F4 GW2
ELEV. 17.57
DATE 6 3 13
BY EE RW
NAVD NGVD 29
17.57


15.84
15.84
1
17.38
WCA 2F4 GW 1
ELEV. 17.38
DATE 6 3 13
BY EE RW
NAVD NGVD 29


WCA2F4 STGWELL
ELEV. 16.847
DATE 6 3 13
BY EE RW
NAVD NGVD 29

The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.9
1         National Geodetic Survey,   Retrieval Date = JUNE  7, 2016
 AG9876 ***********************************************************************
 AG9876  HT_MOD      -  This is a Height Modernization Survey Station.
 AG9876  DESIGNATION -  WCA 2U1
 AG9876  PID         -  AG9876
 AG9876  STATE/COUNTY-  FL/BROWARD
 AG9876  COUNTRY     -  US
 AG9876  USGS QUAD   -  COOPER CITY NE (1983)
 AG9876
 AG9876                        *CURRENT SURVEY CONTROL
 AG9876  ______________________________________________________________________
 AG9876* NAD 83(2011) POSITION- 26 14 27.27691(N) 080 21 20.40615(W)   ADJUSTED
 AG9876* NAD 83(2011) ELLIP HT-   -21.428 (meters)        (06/27/12)   ADJUSTED
 AG9876* NAD 83(2011) EPOCH    -  2010.00
 AG9876* NAVD 88 ORTHO HEIGHT -     3.75  (meters)       12.3   (feet) GPS OBS
 AG9876  ______________________________________________________________________
 AG9876  NAVD 88 orthometric height was determined with geoid model    GEOID96
 AG9876  GEOID HEIGHT    -        -25.121 (meters)                     GEOID96
 AG9876  GEOID HEIGHT    -        -25.181 (meters)                     GEOID12B
 AG9876  NAD 83(2011) X  -    959,043.420 (meters)                     COMP
 AG9876  NAD 83(2011) Y  - -5,643,645.807 (meters)                     COMP
 AG9876  NAD 83(2011) Z  -  2,803,016.984 (meters)                     COMP
 AG9876  LAPLACE CORR    -         -2.33  (seconds)                    DEFLEC12B
 AG9876
 AG9876  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
 AG9876  Standards:
 AG9876         FGDC (95% conf, cm)     Standard deviation (cm)     CorrNE
 AG9876            Horiz  Ellip           SD_N   SD_E   SD_h      (unitless)
 AG9876  ------------------------------------------------------------------
 AG9876  NETWORK    0.79   1.37           0.37   0.25   0.70      0.15750430
 AG9876  ------------------------------------------------------------------
 AG9876  Click here for local accuracies and other accuracy information.
 AG9876
 AG9876
 AG9876.The horizontal coordinates were established by GPS observations
 AG9876.and adjusted by the National Geodetic Survey in June 2012.
 AG9876
 AG9876.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
 AG9876.been affixed to the stable North American tectonic plate. See
 AG9876.NA2011 for more information.
 AG9876
 AG9876.The horizontal coordinates are valid at the epoch date displayed above
 AG9876.which is a decimal equivalence of Year/Month/Day.
 AG9876
 AG9876.The orthometric height was determined by GPS observations and a
 AG9876.high-resolution geoid model using precise GPS observation and
 AG9876.processing techniques.
 AG9876
 AG9876.Significant digits in the geoid height do not necessarily reflect accuracy.
 AG9876.GEOID12B height accuracy estimate available here.
```

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AG9876
AG9876.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AG9876
AG9876.The Laplace correction was computed from DEFLEC12B derived deflections.
AG9876
AG9876.The ellipsoidal height was determined by GPS observations
AG9876.and is referenced to NAD 83.
AG9876
AG9876. The following values were computed from the NAD 83(2011) position.
AG9876
AG9876;                    North         East     Units Scale Factor Converg.
AG9876;SPC FL E     -   211,463.732   264,373.910   MT  0.99999232   +0 17 05.6
AG9876;SPC FL E     -   693,777.26    867,366.74   sFT  0.99999232   +0 17 05.6
AG9876;UTM  17      - 2,902,523.563   564,351.946   MT  0.99965113   +0 17 05.6
AG9876
AG9876!             -  Elev Factor  x  Scale Factor =   Combined Factor
AG9876!SPC FL E     -   1.00000337  x   0.99999232  =   0.99999569
AG9876!UTM  17      -   1.00000337  x   0.99965113  =   0.99965450
AG9876
AG9876                          SUPERSEDED SURVEY CONTROL
AG9876
AG9876  NAD 83(2007)-  26 14 27.27711(N)    080 21 20.40674(W) AD(2002.00) 0
AG9876  ELLIP H (02/10/07)  -21.408  (m)                       GP(2002.00)
AG9876  NAD 83(1999)-  26 14 27.27752(N)    080 21 20.40708(W) AD(       ) 1
AG9876  ELLIP H (05/31/01)  -21.422  (m)                       GP(       ) 4 1
AG9876  NAD 83(1990)-  26 14 27.27559(N)    080 21 20.40628(W) AD(       ) 1
AG9876  ELLIP H (08/11/98)  -21.400  (m)                       GP(       ) 3 1
AG9876
AG9876.Superseded values are not recommended for survey control.
AG9876
AG9876.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AG9876.See file dsdata.txt to determine how the superseded data were derived.
AG9876
AG9876_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6435102523(NAD 83)
AG9876
AG9876_MARKER: I = METAL ROD
AG9876_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AG9876_MARK LOGO: FLDEP
AG9876_PROJECTION: PROJECTING 61 CENTIMETERS
AG9876_MAGNETIC: N = NO MAGNETIC MATERIAL
AG9876_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AG9876_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AG9876+SATELLITE: SATELLITE OBSERVATIONS - 1998
AG9876_ROD/PIPE-DEPTH:  8.8 meters
AG9876
AG9876  HISTORY     - Date     Condition        Report By
AG9876  HISTORY     - 1998     MONUMENTED       FLDEP
AG9876
AG9876                          STATION DESCRIPTION
AG9876
AG9876'DESCRIBED BY FL DEPT OF ENV PRO 1998 (SAS)
AG9876'THE STATION IS IN THE EVERGLADES WILDLIFE MANAGEMENT AREA,
AG9876'CONSERVATION AREA NUMBER 2, IN ESTIMATED SECTION 33, TOWNSHIP 48
AG9876'SOUTH, RANGE 40 EAST.  NOTE--ACCESS TO STATION IS BY AIRBOAT OR
AG9876'HELICOPTER.  TO REACH THE STATION FROM THE SAWGRASS EXPRESSWAY
AG9876'OVERPASS AND JUNCTION OF U.S.  HIGHWAY 441 (STATE ROAD 7) IN PARKLAND,
AG9876'GO NORTH ON U.S.  HIGHWAY 441 (STATE ROAD 7) FOR 1.8 MI (2.9 KM) TO
AG9876'THE JUNCTION OF STATE ROAD 827 (LOXAHATCHEE ROAD) ON THE LEFT, JUST
AG9876'SOUTH OF THE BROWARD-PALM BEACH COUNTY LINE, TURN LEFT ON STATE ROAD
AG9876'827 (LOXAHATCHEE ROAD) AND GO NORHTWESTERLY FOR 6.3 MI (10.1 KM) TO
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AG9876'THE END OF THE PAVEMENT AND STATE ROAD 827 AND THE ENTRANCE TO THE
AG9876'LOXAHATCHEE NATIONAL WILDLIFE REFUGE, CONTINUE AHEAD ON THE GRAVEL
AG9876'ROAD FOR 0.05 MI (0.08 KM) TO THE TOP OF THE LEVEE AND THE
AG9876'INTERSECTION OF THE NORTH-SOUTH LEVEE L-36 ROAD, TURN LEFT ON THE
AG9876'LEVEE ROAD AND GO SOUTH FOR 0.2 MI (0.3 KM) TO THE BOAT RAMP ON THE
AG9876'RIGHT, NOW BY AIRBOAT GO SOUTH-SOUTHWESTERLY FOR ABOUT 8.5 MI (13.7
AG9876'KM) LATITUDE 26 14 27.3 LONGITUDE 080 21 20.4 TO A 30.0 FT (9.1 M) BY
AG9876'2.0 FT (0.6 M) WOODEN PLATFORM AND THE STATION SET IN THE SOUTH END OF
AG9876'THE PLATFORM, A STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A DEPTH OF
AG9876'28.9 FT (8.8 M) SURROUNDED BY A 5-INCH PVC PIPE, THE DATUM POINT IS
AG9876'RECESSED 0.3 FT (9.1 CM) BELOW THE TOP OF THE PVC PIPE. NOTE THE PVC
AG9876'PIPE IS ABOUT 8.0 FT (2.4 M) LONG AND WAS DRIVEN INTO THE MUCK AND
AG9876'ATTACHED TO THE PLATFORM AT THE TOP, THE PVC PIPE WAS NOT BACKFILLED.
AG9876'LOCATED 2.0 FT (0.6 M) NORTH OF THE SOUTH END OF THE PLATFORM, 1.0 FT
AG9876'(0.3 M) EAST OF THE WEST SIDE OF THE PLATFORM AND 1.0 FT (0.3 M) WEST
AG9876'OF THE EAST SIDE OF THE PLATFORM. NOTE FOR ACCESS CONTACT SOUTH
AG9876'FLORIDA WATER MANAGEMENT DISTRICT (561) 686-8800.

*** retrieval complete.
Elapsed Time = 00:00:03

The NGS Data Sheet

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

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PROGRAM = datasheet95, VERSION = 8.9
1         National Geodetic Survey,   Retrieval Date = JUNE  7, 2016
 AG9874 ***********************************************************************
 AG9874  HT_MOD      -  This is a Height Modernization Survey Station.
 AG9874  DESIGNATION -  WCA 2U3
 AG9874  PID         -  AG9874
 AG9874  STATE/COUNTY-  FL/BROWARD
 AG9874  COUNTRY     -  US
 AG9874  USGS QUAD   -  EAST OF DEEM CITY (1973)
 AG9874
 AG9874                        *CURRENT SURVEY CONTROL
 AG9874  ______________________________________________________________________
 AG9874* NAD 83(2011) POSITION- 26 17 14.92184(N) 080 24 41.06624(W)   ADJUSTED
 AG9874* NAD 83(2011) ELLIP HT-   -21.177 (meters)        (06/27/12)   ADJUSTED
 AG9874* NAD 83(2011) EPOCH    -  2010.00
 AG9874* NAVD 88 ORTHO HEIGHT -     3.92  (meters)       12.9    (feet) GPS OBS
 AG9874  ______________________________________________________________________
 AG9874  NAVD 88 orthometric height was determined with geoid model    GEOID96
 AG9874  GEOID HEIGHT    -        -25.041 (meters)                     GEOID96
 AG9874  GEOID HEIGHT    -        -25.085 (meters)                     GEOID12B
 AG9874  NAD 83(2011) X  -    953,172.414 (meters)                     COMP
 AG9874  NAD 83(2011) Y  - -5,642,325.170 (meters)                     COMP
 AG9874  NAD 83(2011) Z  -  2,807,643.811 (meters)                     COMP
 AG9874  LAPLACE CORR    -         -1.93  (seconds)                    DEFLEC12B
 AG9874
 AG9874  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
 AG9874  Standards:
 AG9874         FGDC (95% conf, cm)     Standard deviation (cm)     CorrNE
 AG9874            Horiz  Ellip           SD_N   SD_E   SD_h      (unitless)
 AG9874  ------------------------------------------------------------------
 AG9874  NETWORK    0.83   1.43           0.38   0.28   0.73      0.14288024
 AG9874  ------------------------------------------------------------------
 AG9874  Click here for local accuracies and other accuracy information.
 AG9874
 AG9874
 AG9874.The horizontal coordinates were established by GPS observations
 AG9874.and adjusted by the National Geodetic Survey in June 2012.
 AG9874
 AG9874.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
 AG9874.been affixed to the stable North American tectonic plate. See
 AG9874.NA2011 for more information.
 AG9874
 AG9874.The horizontal coordinates are valid at the epoch date displayed above
 AG9874.which is a decimal equivalence of Year/Month/Day.
 AG9874
 AG9874.The orthometric height was determined by GPS observations and a
 AG9874.high-resolution geoid model using precise GPS observation and
 AG9874.processing techniques.
 AG9874
 AG9874.Significant digits in the geoid height do not necessarily reflect accuracy.
 AG9874.GEOID12B height accuracy estimate available here.
```

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AG9874
AG9874.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AG9874
AG9874.The Laplace correction was computed from DEFLEC12B derived deflections.
AG9874
AG9874.The ellipsoidal height was determined by GPS observations
AG9874.and is referenced to NAD 83.
AG9874
AG9874. The following values were computed from the NAD 83(2011) position.
AG9874
AG9874;                    North         East     Units Scale Factor Converg.
AG9874;SPC FL E     -   216,596.470   258,781.565   MT  0.99998382   +0 15 38.5
AG9874;SPC FL E     -   710,616.92    849,019.18   sFT  0.99998382   +0 15 38.5
AG9874;UTM  17      - 2,907,654.550   558,761.509   MT  0.99964263   +0 15 38.5
AG9874
AG9874!             -  Elev Factor  x  Scale Factor =   Combined Factor
AG9874!SPC FL E     -   1.00000333  x   0.99998382  =   0.99998715
AG9874!UTM  17      -   1.00000333  x   0.99964263  =   0.99964596
AG9874
AG9874                          SUPERSEDED SURVEY CONTROL
AG9874
AG9874  NAD 83(2007)-  26 17 14.92203(N)    080 24 41.06684(W) AD(2002.00) 0
AG9874  ELLIP H (02/10/07)  -21.156  (m)                       GP(2002.00)
AG9874  NAD 83(1999)-  26 17 14.92243(N)    080 24 41.06716(W) AD(       ) 1
AG9874  ELLIP H (05/31/01)  -21.171  (m)                       GP(       ) 4 1
AG9874  NAD 83(1990)-  26 17 14.92057(N)    080 24 41.06637(W) AD(       ) 1
AG9874  ELLIP H (08/11/98)  -21.154  (m)                       GP(       ) 3 1
AG9874
AG9874.Superseded values are not recommended for survey control.
AG9874
AG9874.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AG9874.See file dsdata.txt to determine how the superseded data were derived.
AG9874
AG9874_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK5876107654(NAD 83)
AG9874
AG9874_MARKER: I = METAL ROD
AG9874_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AG9874_MARK LOGO: FLDEP
AG9874_PROJECTION: PROJECTING 61 CENTIMETERS
AG9874_MAGNETIC: N = NO MAGNETIC MATERIAL
AG9874_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AG9874_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AG9874+SATELLITE: SATELLITE OBSERVATIONS - 1998
AG9874_ROD/PIPE-DEPTH:  5.8 meters
AG9874
AG9874  HISTORY     - Date     Condition        Report By
AG9874  HISTORY     - 1998     MONUMENTED       FLDEP
AG9874
AG9874                          STATION DESCRIPTION
AG9874
AG9874'DESCRIBED BY FL DEPT OF ENV PRO 1998 (SAS)
AG9874'THE STATION IS IN THE EVERGLADES WILDLIFE MANAGEMENT AREA,
AG9874'CONSERVATION AREA NUMBER 2, IN SECTION 11, TOWNSHIP 48 SOUTH, RANGE 39
AG9874'EAST.  NOTE--ACCESS TO STATION IS BY AIRBOAT OR HELICOPTER.  TO REACH
AG9874'THE STATION FROM THE SAWGRASS EXPRESSWAY OVERPASS AND JUNCTION OF U.S.
AG9874'HIGHWAY 441 (STATE ROAD 7) IN PARKLAND, GO NORTH ON U.S.  HIGHWAY 441
AG9874'(STATE ROAD 7) FOR 1.8 MI (2.9 KM) TO THE JUNCTION OF STATE ROAD 827
AG9874'(LOXAHATCHEE ROAD) ON THE LEFT, JUST SOUTH OF THE BROWARD-PALM BEACH
AG9874'COUNTY LINE, TURN LEFT ON STATE ROAD 827 (LOXAHATCHEE ROAD) AND GO
AG9874'NORHTWESTERLY FOR 6.3 MI (10.1 KM) TO THE END OF THE PAVEMENT AND
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AG9874'STATE ROAD 827 AND THE ENTRANCE TO THE LOXAHATCHEE NATIONAL WILDLIFE
AG9874'REFUGE, CONTINUE AHEAD ON THE GRAVEL ROAD FOR 0.05 MI (0.08 KM) TO THE
AG9874'TOP OF THE LEVEE AND THE INTERSECTION OF THE NORTH-SOUTH LEVEE L-36
AG9874'ROAD, TURN LEFT ON THE LEVEE ROAD AND GO SOUTH FOR 0.2 MI (0.3 KM) TO
AG9874'THE BOAT RAMP ON THE RIGHT, NOW BY AIRBOAT GO WEST-SOUTHWESTERLY FOR
AG9874'ABOUT 8.3 MI (13.4 KM) LATITUDE 26 17 14.9 LONGITUDE 080 24 41.1 TO A
AG9874'WOODEN T-SHAPED PLATFORM, 30.1 FT (9.2 M) NORTH-SOUTH AND 11.3 FT (3.4
AG9874'M) BY 1.8 FT (0.5 M) EAST-WEST AND THE STATION SET IN THE SOUTHEAST
AG9874'CORNER OF THE T-SHAPED PLATFORM, A STAINLESS STEEL ROD DRIVEN TO
AG9874'REFUSAL AT A DEPTH OF 19.1 FT (5.8 M) SURROUNDED BY A 5-INCH PVC PIPE,
AG9874'THE DATUM POINT IS RECESSED 0.3 FT (9.1 CM) BELOW THE TOP OF THE PVC
AG9874'PIPE. NOTE THE PVC PIPE IS ABOUT 8.0 FT (2.4 M) LONG AND WAS DRIVEN
AG9874'INTO THE MUCK AND ATTACHED TO THE PLATFORM AT THE TOP, THE PVC PIPE
AG9874'WAS NOT BACKFILLED. LOCATED 24.3 FT (7.4 M) SOUTH OF THE NORTH END OF
AG9874'THE PLATFORM, 20.7 FT (6.3 M) SOUTH OF A WELL PIPE FOR A WATER GAGE,
AG9874'11.3 FT (3.4 M) EAST OF THE WEST END OF THE PLATFORM, 8.6 EAST OF A
AG9874'WELL PIPE FOR A WATER GAGE BOX NUMBER GW4, 6.3 FT (1.9 M) EAST OF A
AG9874'WELL PIPE FOR WATER GAGE BOX NUMBER GW3 AND 5.8 FT (1.8 M) NORTH OF
AG9874'THE SOUTH END OF THE PLATFORM. NOTE FOR ACCESS CONTACT SOUTH FLORIDA
AG9874'WATER MANAGEMENT DISTRICT (561) 686-8800.

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

The NGS Data Sheet

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

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PROGRAM = datasheet95, VERSION = 8.9
1         National Geodetic Survey,   Retrieval Date = JUNE  7, 2016
 AG9873 ***********************************************************************
 AG9873  HT_MOD      -  This is a Height Modernization Survey Station.
 AG9873  DESIGNATION -  WCA 2E4
 AG9873  PID         -  AG9873
 AG9873  STATE/COUNTY-  FL/BROWARD
 AG9873  COUNTRY     -  US
 AG9873  USGS QUAD   -  CORAL SPRINGS NE (1983)
 AG9873
 AG9873                        *CURRENT SURVEY CONTROL
 AG9873  ______________________________________________________________________
 AG9873* NAD 83(2011) POSITION- 26 18 32.37908(N) 080 21 25.18267(W)   ADJUSTED
 AG9873* NAD 83(2011) ELLIP HT-   -21.296 (meters)        (06/27/12)   ADJUSTED
 AG9873* NAD 83(2011) EPOCH    -  2010.00
 AG9873* NAVD 88 ORTHO HEIGHT -     3.92  (meters)       12.9    (feet) GPS OBS
 AG9873  ______________________________________________________________________
 AG9873  NAVD 88 orthometric height was determined with geoid model    GEOID96
 AG9873  GEOID HEIGHT    -        -25.158 (meters)                     GEOID96
 AG9873  GEOID HEIGHT    -        -25.207 (meters)                     GEOID12B
 AG9873  NAD 83(2011) X  -    958,353.405 (meters)                     COMP
 AG9873  NAD 83(2011) Y  - -5,640,376.118 (meters)                     COMP
 AG9873  NAD 83(2011) Z  -  2,809,780.829 (meters)                     COMP
 AG9873  LAPLACE CORR    -         -2.20  (seconds)                    DEFLEC12B
 AG9873
 AG9873  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
 AG9873  Standards:
 AG9873         FGDC (95% conf, cm)     Standard deviation (cm)     CorrNE
 AG9873            Horiz  Ellip           SD_N   SD_E   SD_h      (unitless)
 AG9873  ------------------------------------------------------------------
 AG9873  NETWORK    0.73   1.29           0.34   0.23   0.66      0.14420089
 AG9873  ------------------------------------------------------------------
 AG9873  Click here for local accuracies and other accuracy information.
 AG9873
 AG9873
 AG9873.The horizontal coordinates were established by GPS observations
 AG9873.and adjusted by the National Geodetic Survey in June 2012.
 AG9873
 AG9873.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
 AG9873.been affixed to the stable North American tectonic plate. See
 AG9873.NA2011 for more information.
 AG9873
 AG9873.The horizontal coordinates are valid at the epoch date displayed above
 AG9873.which is a decimal equivalence of Year/Month/Day.
 AG9873
 AG9873.The orthometric height was determined by GPS observations and a
 AG9873.high-resolution geoid model using precise GPS observation and
 AG9873.processing techniques.
 AG9873
 AG9873.Significant digits in the geoid height do not necessarily reflect accuracy.
 AG9873.GEOID12B height accuracy estimate available here.
```

```
AG9873
AG9873.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AG9873
AG9873.The Laplace correction was computed from DEFLEC12B derived deflections.
AG9873
AG9873.The ellipsoidal height was determined by GPS observations
AG9873.and is referenced to NAD 83.
AG9873
AG9873. The following values were computed from the NAD 83(2011) position.
AG9873
AG9873;                    North         East     Units Scale Factor Converg.
AG9873;SPC FL E     -   219,006.091   264,203.872   MT  0.99999205   +0 17 06.0
AG9873;SPC FL E     -   718,522.48    866,808.87   sFT  0.99999205   +0 17 06.0
AG9873;UTM  17      - 2,910,063.349   564,181.966   MT  0.99965086   +0 17 06.0
AG9873
AG9873!             -  Elev Factor  x  Scale Factor =   Combined Factor
AG9873!SPC FL E     -   1.00000335  x   0.99999205  =   0.99999540
AG9873!UTM  17      -   1.00000335  x   0.99965086  =   0.99965420
AG9873
AG9873                          SUPERSEDED SURVEY CONTROL
AG9873
AG9873  NAD 83(2007)-  26 18 32.37928(N)    080 21 25.18326(W) AD(2002.00) 0
AG9873  ELLIP H (02/10/07)  -21.277  (m)                       GP(2002.00)
AG9873  NAD 83(1999)-  26 18 32.37967(N)    080 21 25.18370(W) AD(       ) 1
AG9873  ELLIP H (05/31/01)  -21.291  (m)                       GP(       ) 4 1
AG9873  NAD 83(1990)-  26 18 32.37788(N)    080 21 25.18260(W) AD(       ) 1
AG9873  ELLIP H (08/11/98)  -21.268  (m)                       GP(       ) 3 1
AG9873
AG9873.Superseded values are not recommended for survey control.
AG9873
AG9873.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AG9873.See file dsdata.txt to determine how the superseded data were derived.
AG9873
AG9873_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6418110063(NAD 83)
AG9873
AG9873_MARKER: I = METAL ROD
AG9873_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AG9873_MARK LOGO: FLDEP
AG9873_PROJECTION: PROJECTING 61 CENTIMETERS
AG9873_MAGNETIC: N = NO MAGNETIC MATERIAL
AG9873_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AG9873_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AG9873+SATELLITE: SATELLITE OBSERVATIONS - 1998
AG9873_ROD/PIPE-DEPTH:  6.9 meters
AG9873
AG9873  HISTORY     - Date     Condition        Report By
AG9873  HISTORY     - 1998     MONUMENTED       FLDEP
AG9873
AG9873                          STATION DESCRIPTION
AG9873
AG9873'DESCRIBED BY FL DEPT OF ENV PRO 1998 (SAS)
AG9873'THE STATION IS IN THE EVERGLADES WILDLIFE MANAGEMENT AREA,
AG9873'CONSERVATION AREA NUMBER 2, IN ESTIMATED SECTION 4, TOWNSHIP 48 SOUTH,
AG9873'RANGE 40 EAST.  NOTE--ACCESS TO STATION IS BY AIRBOAT OR HELICOPTER.+
AG9873'
AG9873'TO REACH THE STATION FROM THE SAWGRASS EXPRESSWAY OVERPASS AND
AG9873'JUNCTION OF U.S.  HIGHWAY 441 (STATE ROAD 7) IN PARKLAND, GO NORTH ON
AG9873'U.S.  HIGHWAY 441 (STATE ROAD 7) FOR 1.8 MI (2.9 KM) TO THE JUNCTION
AG9873'OF STATE ROAD 827 (LOXAHATCHEE ROAD) ON THE LEFT, JUST SOUTH OF THE
AG9873'BROWARD-PALM BEACH COUNTY LINE, TURN LEFT ON STATE ROAD 827
```

AG9873'(LOXAHATCHEE ROAD) AND GO NORHTWESTERLY FOR 6.3 MI (10.1 KM) TO THE
AG9873'END OF THE PAVEMENT AND STATE ROAD 827 AND THE ENTRANCE TO THE
AG9873'LOXAHATCHEE NATIONAL WILDLIFE REFUGE, CONTINUE AHEAD ON THE GRAVEL
AG9873'ROAD FOR 0.05 MI (0.08 KM) TO THE TOP OF THE LEVEE AND THE
AG9873'INTERSECTION OF THE NORTH-SOUTH LEVEE L-36 ROAD, TURN LEFT ON THE
AG9873'LEVEE ROAD AND GO SOUTH FOR 0.2 MI (0.3 KM) TO THE BOAT RAMP ON THE
AG9873'RIGHT, NOW BY AIRBOAT GO SOUTHWESTERLY FOR ABOUT 4.7 MI (7.6 KM)
AG9873'TO A WOODEN T-SHAPED PLATFORM, 30.8 FT (9.4 M) BY 2.0 FT (0.6 M)
AG9873'NORTH-SOUTH AND 5.0 FT (1.5 M) BY 5.0 FT (1.5 M) EAST-WEST WOODEN
AG9873'PLATFORM AND THE STATION SET IN THE SOUTHEAST CORNER OF THE T-SHAPED
AG9873'PLATFORM, A STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A DEPTH OF
AG9873'22.7 FT (6.9 M) SURROUNDED BY A 5-INCH PVC PIPE, THE DATUM POINT IS
AG9873'RECESSED 0.3 FT (9.1 CM) BELOW THE TOP OF THE PVC PIPE. NOTE THE PVC
AG9873'PIPE IS ABOUT 8.0 FT (2.4 M) LONG AND WAS DRIVEN INTO THE MUCK AND
AG9873'ATTACHED TO THE PLATFORM AT THE TOP, THE PVC PIPE WAS NOT BACKFILLED.
AG9873'LOCATED 5.1 FT (1.6 M) NORTH-NORTHWEST OF THE SOUTHWEST CORNER OF THE
AG9873'SOUTH END OF THE PLATFORM, 5.0 FT (1.5 M) SOUTHEAST OF THE NORTHWEST
AG9873'CORNER AND 1.2 FT (0.4 M) SOUTHWEST OF THE SOUTHEAST INSIDE CORNER OF
AG9873'THE T-SHAPED PLATFORM. NOTE FOR ACCESS CONTACT SOUTH FLORIDA WATER
AG9873'MANAGEMENT DISTRICT (561) 686-8800.

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

The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.9
1         National Geodetic Survey,   Retrieval Date = JUNE  7, 2016
 AG9872 ***********************************************************************
 AG9872  HT_MOD      -  This is a Height Modernization Survey Station.
 AG9872  DESIGNATION -  WCA 2F4
 AG9872  PID         -  AG9872
 AG9872  STATE/COUNTY-  FL/BROWARD
 AG9872  COUNTRY     -  US
 AG9872  USGS QUAD   -  EAST OF DEEM CITY (1973)
 AG9872
 AG9872                        *CURRENT SURVEY CONTROL
 AG9872  ______________________________________________________________________
 AG9872* NAD 83(2011) POSITION- 26 19 01.02387(N) 080 23 06.56067(W)   ADJUSTED
 AG9872* NAD 83(2011) ELLIP HT-   -21.224 (meters)        (06/27/12)   ADJUSTED
 AG9872* NAD 83(2011) EPOCH    -  2010.00
 AG9872* NAVD 88 ORTHO HEIGHT -     3.94  (meters)       12.9    (feet) GPS OBS
 AG9872  ______________________________________________________________________
 AG9872  NAVD 88 orthometric height was determined with geoid model    GEOID96
 AG9872  GEOID HEIGHT    -        -25.107 (meters)                     GEOID96
 AG9872  GEOID HEIGHT    -        -25.152 (meters)                     GEOID12B
 AG9872  NAD 83(2011) X  -    955,515.818 (meters)                     COMP
 AG9872  NAD 83(2011) Y  - -5,640,461.241 (meters)                     COMP
 AG9872  NAD 83(2011) Z  -  2,810,571.082 (meters)                     COMP
 AG9872  LAPLACE CORR    -         -2.03  (seconds)                    DEFLEC12B
 AG9872
 AG9872  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
 AG9872  Standards:
 AG9872         FGDC (95% conf, cm)     Standard deviation (cm)      CorrNE
 AG9872            Horiz  Ellip           SD_N   SD_E   SD_h      (unitless)
 AG9872  ------------------------------------------------------------------
 AG9872  NETWORK    0.66   1.18           0.30   0.23   0.60      0.12658812
 AG9872  ------------------------------------------------------------------
 AG9872  Click here for local accuracies and other accuracy information.
 AG9872
 AG9872
 AG9872.The horizontal coordinates were established by GPS observations
 AG9872.and adjusted by the National Geodetic Survey in June 2012.
 AG9872
 AG9872.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
 AG9872.been affixed to the stable North American tectonic plate. See
 AG9872.NA2011 for more information.
 AG9872
 AG9872.The horizontal coordinates are valid at the epoch date displayed above
 AG9872.which is a decimal equivalence of Year/Month/Day.
 AG9872
 AG9872.The orthometric height was determined by GPS observations and a
 AG9872.high-resolution geoid model using precise GPS observation and
 AG9872.processing techniques.
 AG9872
 AG9872.Significant digits in the geoid height do not necessarily reflect accuracy.
 AG9872.GEOID12B height accuracy estimate available here.
```

```
AG9872
AG9872.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AG9872
AG9872.The Laplace correction was computed from DEFLEC12B derived deflections.
AG9872
AG9872.The ellipsoidal height was determined by GPS observations
AG9872.and is referenced to NAD 83.
AG9872
AG9872. The following values were computed from the NAD 83(2011) position.
AG9872
AG9872;                    North         East     Units Scale Factor Converg.
AG9872;SPC FL E     -   219,873.955   261,387.787   MT  0.99998769   +0 16 21.3
AG9872;SPC FL E     -   721,369.80    857,569.76   sFT  0.99998769   +0 16 21.3
AG9872;UTM  17      - 2,910,930.917   561,366.842   MT  0.99964649   +0 16 21.3
AG9872
AG9872!             -  Elev Factor  x  Scale Factor =   Combined Factor
AG9872!SPC FL E     -   1.00000333  x   0.99998769  =   0.99999102
AG9872!UTM  17      -   1.00000333  x   0.99964649  =   0.99964982
AG9872
AG9872                          SUPERSEDED SURVEY CONTROL
AG9872
AG9872  NAD 83(2007)-  26 19 01.02406(N)    080 23 06.56126(W) AD(2002.00) 0
AG9872  ELLIP H (02/10/07)  -21.203  (m)                       GP(2002.00)
AG9872  NAD 83(1999)-  26 19 01.02445(N)    080 23 06.56163(W) AD(       ) 1
AG9872  ELLIP H (05/31/01)  -21.218  (m)                       GP(       ) 4 1
AG9872  NAD 83(1990)-  26 19 01.02263(N)    080 23 06.56075(W) AD(       ) 1
AG9872  ELLIP H (08/11/98)  -21.199  (m)                       GP(       ) 3 1
AG9872
AG9872.Superseded values are not recommended for survey control.
AG9872
AG9872.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AG9872.See file dsdata.txt to determine how the superseded data were derived.
AG9872
AG9872_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6136610930(NAD 83)
AG9872
AG9872_MARKER: I = METAL ROD
AG9872_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AG9872_MARK LOGO: FLDEP
AG9872_PROJECTION: PROJECTING 61 CENTIMETERS
AG9872_MAGNETIC: N = NO MAGNETIC MATERIAL
AG9872_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AG9872_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AG9872+SATELLITE: SATELLITE OBSERVATIONS - 1998
AG9872_ROD/PIPE-DEPTH:  7.5 meters
AG9872
AG9872  HISTORY     - Date     Condition        Report By
AG9872  HISTORY     - 1998     MONUMENTED       FLDEP
AG9872
AG9872                          STATION DESCRIPTION
AG9872
AG9872'DESCRIBED BY FL DEPT OF ENV PRO 1998 (SAS)
AG9872'THE STATION IS IN THE EVERGLADES WILDLIFE MANAGEMENT AREA,
AG9872'CONSERVATION AREA NUMBER 2, IN ESTIMATED SECTION 31, TOWNSHIP 47
AG9872'SOUTH, RANGE 30 EAST.  NOTE--ACCESS TO STATION IS BY AIRBOAT OR
AG9872'HELICOPTER.
AG9872'
AG9872'TO REACH THE STATION FROM THE SAWGRASS EXPRESSWAY
AG9872'OVERPASS AND JUNCTION OF U.S.  HIGHWAY 441 (STATE ROAD 7) IN PARKLAND,
AG9872'GO NORTH ON U.S.  HIGHWAY 441 (STATE ROAD 7) FOR 1.8 MI (2.9 KM) TO
AG9872'THE JUNCTION OF STATE ROAD 827 (LOXAHATCHEE ROAD) ON THE LEFT, JUST
```

AG9872'SOUTH OF THE BROWARD-PALM BEACH COUNTY LINE, TURN LEFT ON STATE ROAD
AG9872'827 (LOXAHATCHEE ROAD) AND GO NORHTWESTERLY FOR 6.3 MI (10.1 KM) TO
AG9872'THE END OF THE PAVEMENT AND STATE ROAD 827 AND THE ENTRANCE TO THE
AG9872'LOXAHATCHEE NATIONAL WILDLIFE REFUGE, CONTINUE AHEAD ON THE GRAVEL
AG9872'ROAD FOR 0.05 MI (0.08 KM) TO THE TOP OF THE LEVEE AND THE
AG9872'INTERSECTION OF THE NORTH-SOUTH LEVEE L-36 ROAD, TURN LEFT ON THE
AG9872'LEVEE ROAD AND GO SOUTH FOR 0.2 MI (0.3 KM) TO THE BOAT RAMP ON THE
AG9872'RIGHT, NOW BY AIRBOAT GO WEST-SOUTHWESTERLY FOR ABOUT 5.9 MI (9.5 KM)
AG9872'TO A WOODEN T-SHAPED PLATFORM, 30.0 FT (9.1 M) BY 2.0 FT (0.6 M)
AG9872'NORTH-SOUTH AND 6.0 FT (1.8 M) BY 2.0 FT (0.6 M) EAST-WEST WOODEN
AG9872'PLATFORM AND THE STATION SET IN THE SOUTHWEST CORNER OF THE T-SHAPED
AG9872'PLATFORM.
AG9872'
AG9872'IT IS A STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A DEPTH OF 24.6 FT
AG9872'(7.5 M) SURROUNDED BY A 5-INCH PVC PIPE, THE DATUM POINT IS RECESSED
AG9872'0.3 FT (9.1 CM) BELOW THE TOP OF THE PVC PIPE. NOTE THE PVC PIPE IS
AG9872'ABOUT 8.0 FT (2.4 M) LONG AND WAS DRIVEN INTO THE MUCK AND ATTACHED TO
AG9872'THE PLATFORM AT THE TOP, THE PVC PIPE WAS NOT BACKFILLED. LOCATED 5.0
AG9872'FT (1.5 M) NORTH-NORTHWEST OF THE SOUTHWEST CORNER OF THE PLATFORM AND
AG9872'1.5 FT (0.5 M) SOUTHWEST OF THE SOUTH INSIDE CORNER OF THE T-SHAPED
AG9872'PLATFORM.
AG9872'
AG9872'NOT-FOR ACCESS CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT (561)
AG9872'686-8800.

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

REGISTRATION WORKSHEET - WCA2U1 Addendum

Site Name: **WCA2U1** Today's Date: **6/24/2013** Type Recorder: **CR10**

Activity: **Addendum** Effective Date: **6/19/2013** Start Date of Data :

Customer: **L.Hennick** Bus. Area: **SCADA Maintenance** Agency: **SFWMD** Internal Order: Fund:

Project Manager: **E. Ebanks** Bus. Area: **InfrStr. Mgt/Survey** Agency: **SFWMD** Contract #:

Project Name: Legal Mandate:

Short Common Name / Description:	
Proj. Mgr. Notes:	WCA2U1 6/19/2013 Ralph Wheeler Site visit to apply new updated STG Ref Elevation of 16.99. GW's match DTW's. Applied brass tags to all wells.
Site Directions:	From Loxahatchee Airbort Launch in WCA2A (Lox Road)… See SCADA Site Folder for WCA2AU1..
Site Address (if any):	

Transportation: **Airboat** Lock type or combination: **Abloy S** #

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

Array ID Configuration table attached

SURVEY INFORMATION

B.M. Elevation: **13.88ft** Date: **6/6/1998** Stamp: **WCA2U1**

Agency: **DEP** Type: **SS Rod In PVC Casing** Datum: NGVD 29

Benchmark Location/ Description	Located at Site… Attached to Platform…

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
STG1		16.99ft	6/3/2013	16.99ft			13.88ft	NGVD 29	Mark Top of Well Platform.. Denoted by Brass Tag..
GW1		16.79ft	6/3/2013	16.79ft			13.88ft	NGVD 29	Mark Top of Well.. Denoted by Brass Tag.
GW2		16.80ft	6/3/2013	16.80ft			13.88ft	NGVD 29	Mark Top of Well.. 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
STG1								
GW1								
GW2								

COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
STG1	26 14 27.3	80 21 20.4			33	48	40	Cooper City NE		Broward	
GW1	26 14 27.3	80 21 20.4			33	48	40	Cooper City NE		Broward	
GW2	26 14 27.3	80 21 20.4			33	48	40	Cooper City NE		Broward	

REGISTRATION WORKSHEET - WCA2U3 Addendum

Site Name: **WCA2U3** Today's Date: **6/24/2013** Type Recorder: **CR10**

Activity: **Addendum** Effective Date: **6/19/2013** Start Date of Data :

Customer: **K. Snyder/SCADA Cr10 Mon** Bus. Area: **SCADA** Agency: **SFWMD** Internal Order: Fund:

Project Manager: **E. Ebanks** Bus. Area: **InfrStr. Mgt/Survey** Agency: **SFWMD** Contract #:

Project Name: Legal Mandate:

Short Common Name / Description:	
Proj. Mgr. Notes:	WCA2U3 6/19/2013 Ralph Wheeler Site visit to apply new updated STG Ref Elevation of 18.22. GW's match DTW's. Applied brass tags to all wells.
Site Directions:	From Loxahatchee Airport Launch in WCA2A… See SCADA Site Folder for WCA2AU3..
Site Address (if any):	

Transportation: **Airboat** Lock type or combination: **Abloy S** #

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

Array ID Configuration table attached

SURVEY INFORMATION

B.M. Elevation: **14.42ft** Date: **6/6/1998** Stamp: **WCA2U3**

Agency: **DEP** Type: **SS Rod In PVC Casing** Datum: NGVD 29

Benchmark Location/ Description	Located at Site… Attached to Platform…

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
STG1		18.22ft	6/3/2013	18.22ft			14.42ft	NGVD 29	Mark Top of Well Platform.. Denoted by Brass Tag..
GW1		17.23ft	6/3/2013	17.23ft			14.42ft	NGVD 29	
GW2		17.19ft	6/3/2013	17.19ft			14.42ft	NGVD 29	Mark Top of Well.. Denoted by Brass Tag.
GW3		18.375ft	6/3/2013	18.375ft			14.42ft	NGVD 29	Mark Top of Well.. Denoted by Brass Tag..
GW4		18.36ft	6/3/2013	18.375ft			14.42ft	NGVD 29	Mark Top of Well… denoted by Brass Tag.
GW5		18.265ft	6/3/2013	18.275ft			14.42ft	NGVD 29	Mark Top of Well.. Denoted by Brass Tag..
GW6		18.25ft	6/3/2013	18.25ft			14.42ft	NGVD 29	Mark Top of Well… 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
STG1								
GW1								
GW2								
GW3								
GW4								
GW5								
GW6								

COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
STG1	26 17 14.9	80 24 41.1			11	48	39	East of Deem C		Broward	
GW1	26 17 14.9	80 24 41.1			11	48	39	East of Deem C		Broward	
GW2	26 17 14.9	80 24 41.1			11	48	39	East of Deem C		Broward	
GW3	26 17 14.9	80 24 41.1			11	48	39	East of Deem C		Broward	
GW4	26 17 14.9	80 24 41.1			11	48	39	East of Deem C		Broward	
GW5	26 17 14.9	80 24 41.1			11	48	39	East of Deem C		Broward	
GW6	26 17 14.9	80 24 41.1			11	48	39	East of Deem C		Broward	

REGISTRATION WORKSHEET - WCA2E4 Addendum

Site Name: **WCA2E4** Today's Date: **6/24/2013** Type Recorder: **CR10**

Activity: **Addendum** Effective Date: **6/19/2013** Start Date of Data :

Customer: **L.Hennick** Bus. Area: **SCADA Maintenance** Agency: **SFWMD** Internal Order: Fund:

Project Manager: **E. Ebanks** Bus. Area: **InfrStr. Mgt/Survey** Agency: **SFWMD** Contract #:

Project Name: Legal Mandate:

Short Common Name / Description:	

Proj. Mgr. Notes:	WCA2E4 6/19/2013 Ralph Wheeler Site visit is to apply new updated STG Ref Elevation of 17.325. Surface water stage is the only well that has changed. Cal'd STG to dtw all other GW's match DTW's. Applied brass tags to all wells.

Site Directions:	From Loxahatchee Airboat Launch in WCA2A (Lox Road)… See SCADA Site Folder for WCA2AE4..

Site Address (if any):	

Transportation: **Airboat** Lock type or combination: **Abloy S** #

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

Array ID Configuration table attached

SURVEY INFORMATION

B.M. Elevation: **14.42ft** Date: **6/6/1998** Stamp: **WCA2E4**

Agency: **DEP** Type: **SS Rod In PVC Casing** Datum: NGVD 29

Benchmark Location/ Description	Located at Site… Attached to Platform…

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
STG1		17.325ft	6/3/2013	17.325ft			14.42ft	NGVD 29	Mark Top of Well Platform.. Denoted by Brass Tag..
GW1		17.29ft	6/3/2013	17.29ft			14.42ft	NGVD 29	Mark Top of Well.. Denoted by Brass Tag.
GW2		17.275ft	6/3/2013	17.275ft			14.42ft	NGVD 29	Mark Top of Well.. Denoted by Brass Tag.
GW3		17.74ft	6/3/2013	17.74ft			14.42ft	NGVD 29	Mark Top of Well.. Denoted by Brass Tag..
GW4		17.74ft	6/3/2013	17.74ft			14.42ft	NGVD 29	Mark Top of Well... denoted by Brass Tag.
GW5		17.582ft	6/3/2013	17.582ft			14.42ft	NGVD 29	Mark Top of Well.. Denoted by Brass Tag..
GW6		17.56ft	6/3/2013	17.56ft			14.42ft	NGVD 29	Mark Top of Well... 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
STG1								
GW1								
GW2								
GW3								
GW4								
GW5								
GW6								

COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin		County	Description
STG1	26 18 32.4	80 21 25.2			4	48	40	Coral Springs NI			Broward	
GW1	26 18 32.4	80 21 25.2			4	48	40	Coral Springs NI			Broward	
GW2	26 18 32.4	80 21 25.2			4	48	40	Coral Springs NI			Broward	
GW3	26 18 32.4	80 21 25.2			4	48	39	Coral Springs NI			Broward	
GW4	26 18 32.4	80 21 25.2			4	48	39	Coral Springs NI			Broward	
GW5	26 18 32.4	80 21 25.2			4	48	39	Coral Springs NI			Broward	
GW6	26 18 32.4	80 21 25.2			4	48	39	Coral Springs NI			Broward	

REGISTRATION WORKSHEET - WCA2F4 Addendum

Site Name: **WCA2F4** Today's Date: **6/24/2013** Type Recorder: **CR10**

Activity: **Addendum** Effective Date: **6/19/2013** Start Date of Data :

Customer: **K. Snyder/SCADA Cr10 Mon** Bus. Area: **SCADA** Agency: **SFWMD** Internal Order: Fund:

Project Manager: **E. Ebanks** Bus. Area: **InfrStr. Mgt/Survey** Agency: **SFWMD** Contract #:

Project Name: Legal Mandate:

Short Common Name / Description:	

Proj. Mgr. Notes:	WCA2F4 6/19/2013 Ralph Wheeler Site visit to apply new updated STG Ref Elevation of 16.85. Surface water stage is the only well that has changed. Cal'd STG to dtw all other GW's match DTW's. Applied brass tags to all wells

Site Directions:	From Loxahatchee Airbort Launch in WCA2A (Lox Road)… See SCADA Site Folder for WCA2AF4..

Site Address (if any):	

Transportation: **Airboat** Lock type or combination: **Abloy S** #

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

Array ID Configuration table attached

SURVEY INFORMATION

B.M. Elevation: **14.48ft** Date: **6/6/1998** Stamp: **WCA2F4**

Agency: **DEP** Type: **SS Rod In PVC Casing** Datum: NGVD 29

Benchmark Location/ Description	Located at Site… Attached to Platform…

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
STG1		16.847ft	6/3/2013	16.847ft			14.48ft	NGVD 29	Mark Top of Well Platform.. Denoted by Brass Tag..
GW1		17.38ft	6/3/2013	17.38ft			14.48ft	NGVD 29	Mark Top of Well.. Denoted by Brass Tag.
GW2		17.57ft	6/3/2013	17.57ft			14.48ft	NGVD 29	Mark Top of Well.. 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
STG1								
GW1								
GW2								

COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin		County	Description
STG1	26 19 01	80 23 06.6			31	47	30	East of Deem C			Broward	
GW1	26 19 01	80 23 06.6			31	47	30	East of Deem C			Broward	
GW2	26 19 01	80 23 06.6			31	47	30	East of Deem C			Broward	