SEC 34 TWP 23 RGE 29 Escambia Co. Florida

VERIFY REF. FLEV. FOR GW MONITORING WELL "SKYLARK" (SR 528) ORANGE Co.

STA	+	H.I.	−	ELEV.	Remarks
BM L665 010 (PID AA6622)	3.47 10.18	101.222		97.752	
TP.			3.53 10.12	97.69	
	3.53 10.12	101.22			
TP.			4.71 8.94	96.51	
	4.04 9.61	100.55			
TP.			5.15 8.50	95.40	
	6.25 7.40	101.65			
TP.			3.25 10.40	98.40	
	4.63 9.02	103.03			
TP.			4.35 9.30	98.68	
	4.74 8.91	103.42			
TP.			5.425 8.225	97.995	

LEVELS CONT'D

STA	+	H.I.	−	ELEV.	Remarks.
	4.66 8.99	102.655			
TP/TBM			4.645 9.005	98.010	BOT/TOLL PLAZA REDUCE SPEED SIGN) ADJ(-0.01 (= 98.00)
		Ft. Levels.			
TP/TBM.	4.80 8.85	102.81		98.010	BOT.
TP.			4.805 8.84	98.005	
	5.42 8.23	103.425			
TP.			5.065 8.585	98.36	
	4.63 9.02	102.99			
TP.			4.34 9.31	98.65	
	3.95 9.70	102.60			
TP.			6.14 7.51	96.46	
	5.44 8.21	101.90			
TP.			4.66 8.99	97.24	
	5.37 8.28	102.61			
TP.			3.62 10.03	98.99	

LEVELS CONTD

		H.I.	—	ELEV	Remarks
BTA	+			98.99	
	2.71	101.70			
	10.94				
Bm. (L665 010)			3.93 9.72	97.772 (97.752) (+0.02)	

FOR CURVE.

TP/TBM	6.56 7.09	104.56		98.00	Base @ 1500 ahead Reduce Speed Sign
TP.(TBm2)			7.21 12.43	97.35	

Rt.

TP/(TBm2)	7.30 12.35	104.65		
TP/TBm.			6.65 7.00	98.00 (98.00)

AT SINK

TP/TBm 2	4.84 8.81	102.19		97.35	TBM 2. ??
GW 1			1.50 12.15	100.69	(99.790)
GW 2			1.425 12.23	100.765	(99.860)
TP/TBm 2			4.84 8.81	97.35	

SEC. 26 TWP 50 RGE 25

VERIFY REF. ELEVS FOR "GOLDWING" GOLDEN GATE CANYON & CR 31.

		H.I.	—	ELEV	Remarks
BTA	+				
Bm Coll 44	0.64 13.01	13.08		12.44	
	2.65 11.00		10.43		(10.41)

☒ MINK WELL

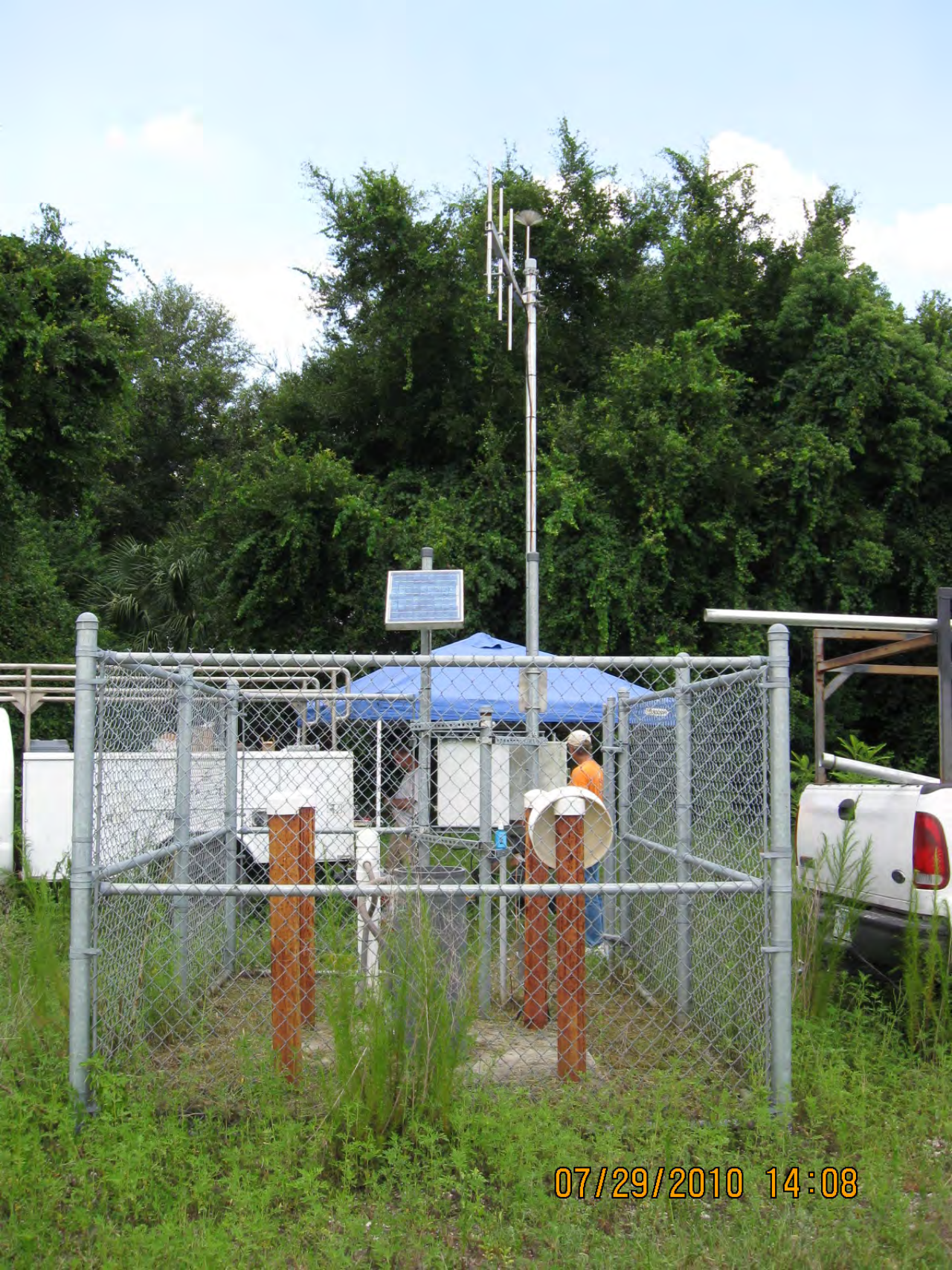
☒ WELL HEAD

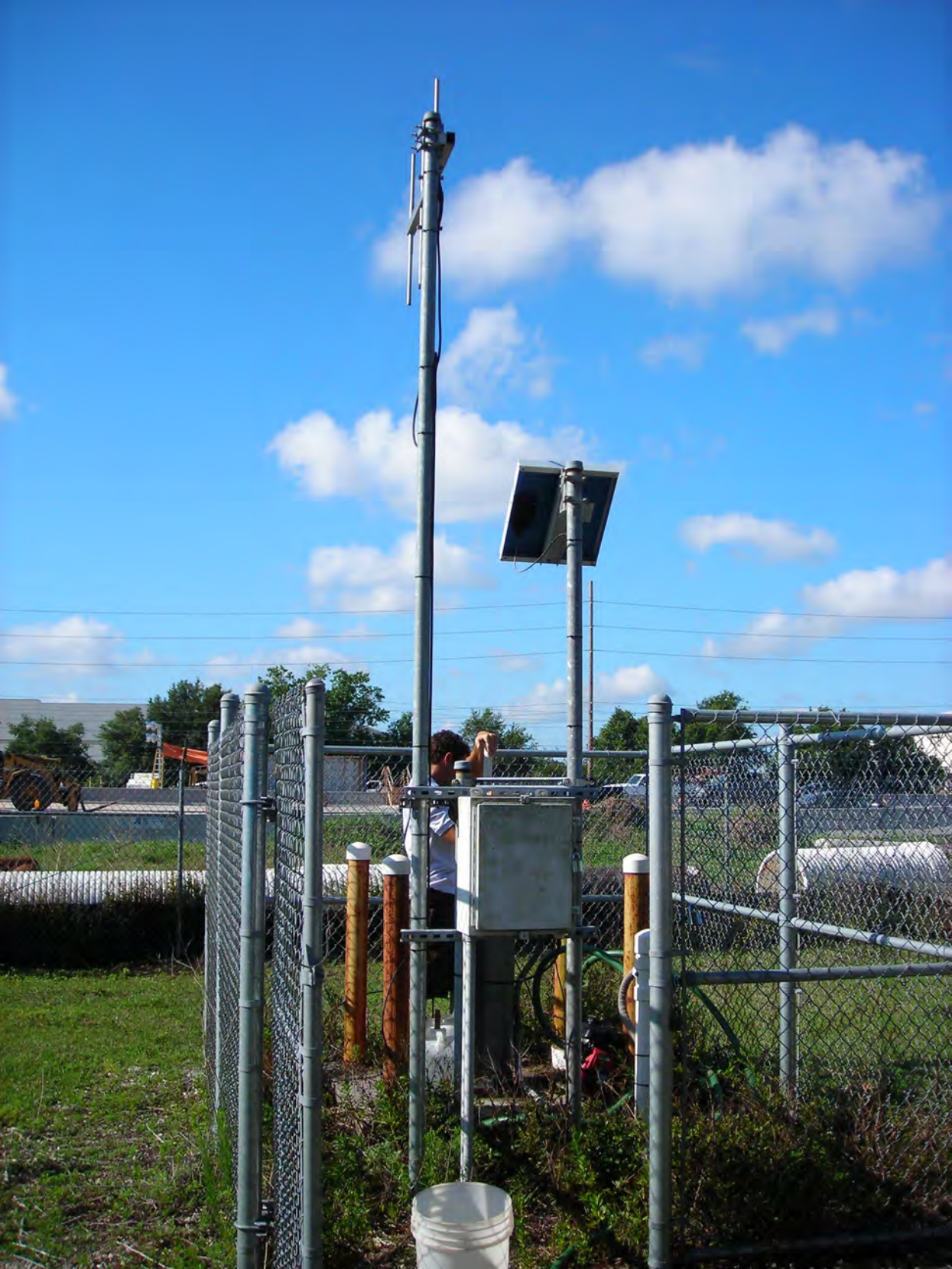
FB

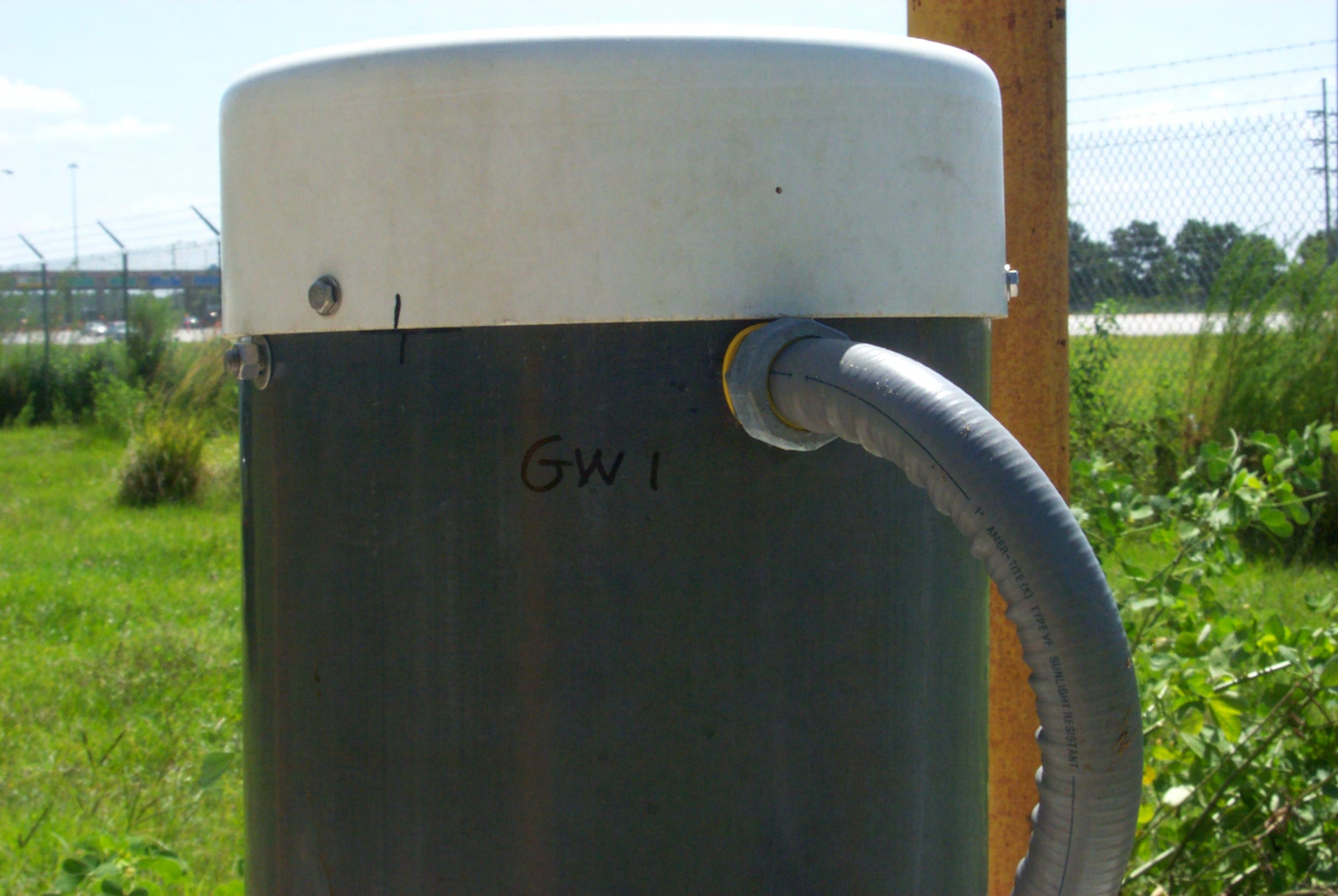
	12.80 10.85	13.23		
Bm Coll 44			0.795 12.855	12.435 [12.44]

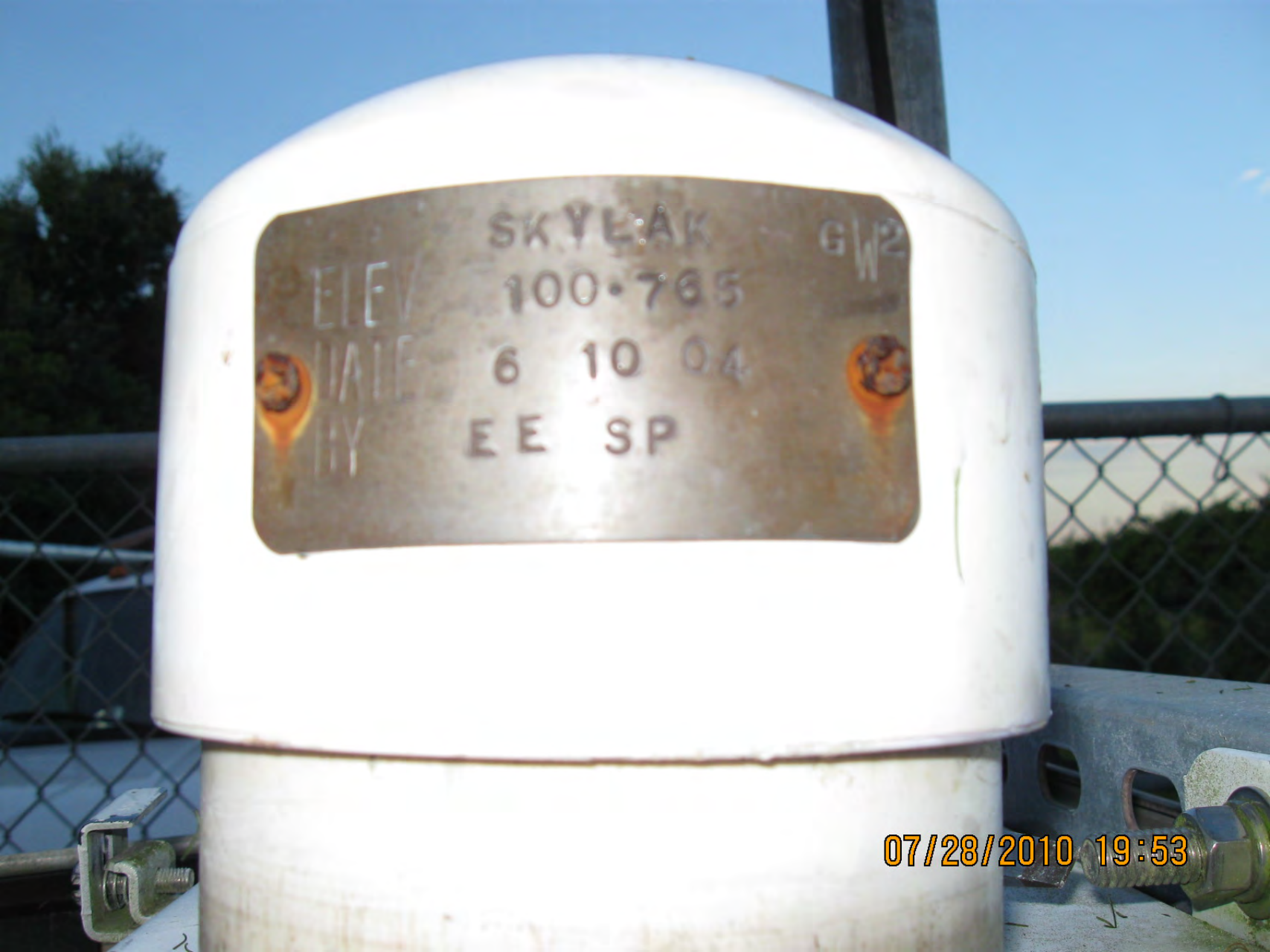
PROJECT: L665 010 TO SITE
LINE FROM
FIELD BOOK SCADA 6
PARTY CHIEF EBANKS
ORDER 2ND
COUNTY GRAUGE
ADJ. BY HJE
DATE 11/15

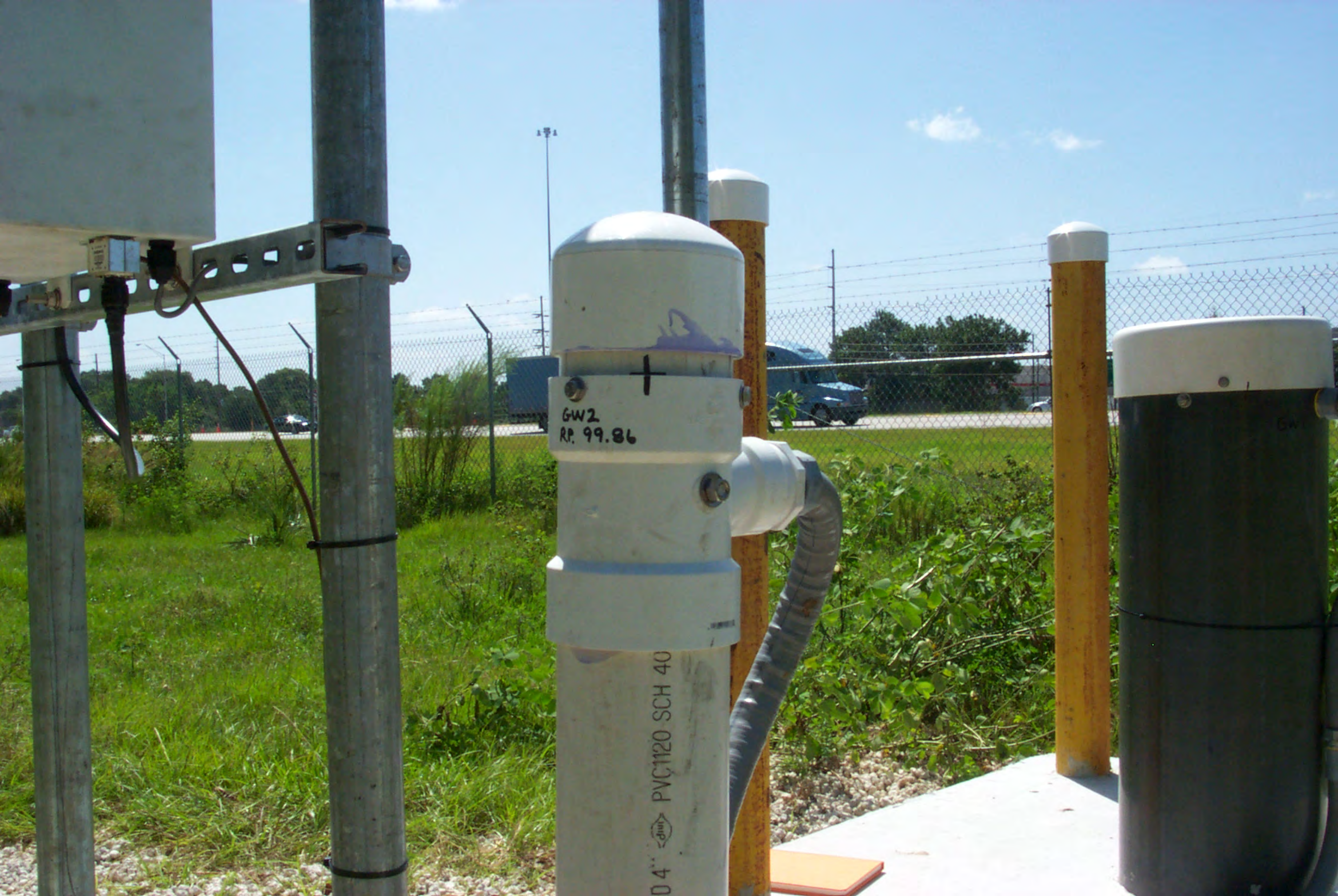
SECTION	DISTANCE	F or B	SUM RODREADINGS BACK +	SUM RODREADINGS FWD. -	DIFF. ELEV.	MEAN DIFF.	ELEVATIONS UNADJ.	ELEVATIONS CORR.	ELEVATIONS ADJ.	REMARKS
L665-010									96.821 (BB)	
		F	31.32	31.06	+0.26				97.752 (EBANKS 29 FB)	
		B	32.32	32.56	-0.24	+0.25				
TBM (BOLT @ TOW PLT)									97.070 (BB)	
									98.002 (EBANKS 29 FB)	
		F	6.56	7.21	-0.65					
		B	7.30	6.65	+0.65				96.421 (BB)	
TBM 2						-0.65			97.352 (29)	
			101.261 102.912							
									99.761 (BB)	
GW1									100.692	
GW2									99.836 (BB) 100.767	
										0.931


07/29/2010 14:08




GW 1
1" AMER-TITE (R) TYPE VF SUNLIGHT RESISTANT


SKYLARK GW2
ELEV 100.765
DATE 6 10 04
BY EE SP
07/28/2010 19:53


GW2
RP. 99.86
4" PVC 1120 SCH 40

The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
1        National Geodetic Survey,   Retrieval Date = NOVEMBER 22, 2015
 AA6622 ***********************************************************************
 AA6622  DESIGNATION -  L 665 010
 AA6622  PID         -  AA6622
 AA6622  STATE/COUNTY-  FL/ORANGE
 AA6622  COUNTRY     -  US
 AA6622  USGS QUAD   -  LAKE JESSAMINE (1980)
 AA6622
 AA6622                        *CURRENT SURVEY CONTROL
 AA6622  ______________________________________________________________________
 AA6622* NAD 83(1986) POSITION- 28 26 30.     (N) 081 23 34.     (W)    SCALED
 AA6622* NAVD 88 ORTHO HEIGHT -    29.511  (meters)       96.82   (feet) ADJUSTED
 AA6622  ______________________________________________________________________
 AA6622  GEOID HEIGHT    -       -27.770  (meters)                      GEOID12B
 AA6622  DYNAMIC HEIGHT  -        29.468  (meters)       96.68   (feet) COMP
 AA6622  MODELED GRAVITY -   979,188.4    (mgal)                        NAVD 88
 AA6622
 AA6622  VERT ORDER      -  SECOND    CLASS I
 AA6622
 AA6622.The horizontal coordinates were scaled from a topographic map and have
 AA6622.an estimated accuracy of +/- 6 seconds.
 AA6622.
 AA6622.The orthometric height was determined by differential leveling and
 AA6622.adjusted by the NATIONAL GEODETIC SURVEY
 AA6622.in December 1995.
 AA6622
 AA6622.Significant digits in the geoid height do not necessarily reflect accuracy.
 AA6622.GEOID12B height accuracy estimate available here.
 AA6622
 AA6622.The dynamic height is computed by dividing the NAVD 88
 AA6622.geopotential number by the normal gravity value computed on the
 AA6622.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AA6622.degrees latitude (g = 980.6199 gals.).
 AA6622
 AA6622.The modeled gravity was interpolated from observed gravity values.
 AA6622
 AA6622;                    North         East     Units  Estimated Accuracy
 AA6622;SPC FL E     -   455,220.      161,530.      MT  (+/- 180 meters Scaled)
 AA6622
 AA6622                          SUPERSEDED SURVEY CONTROL
 AA6622
 AA6622.No superseded survey control is available for this station.
 AA6622
 AA6622_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM615461(NAD 83)
 AA6622
 AA6622_MARKER: DD = SURVEY DISK
 AA6622_SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE
 AA6622_SP_SET: HEADWALL
 AA6622_STAMPING: L-665-010
 AA6622_MARK LOGO: FL-095
 AA6622_MAGNETIC: O = OTHER; SEE DESCRIPTION
 AA6622_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 AA6622+STABILITY: SURFACE MOTION
 AA6622
 AA6622  HISTORY     - Date     Condition        Report By
 AA6622  HISTORY     - 1990     MONUMENTED       FL-095
```

```
AA6622
AA6622                          STATION DESCRIPTION
AA6622
AA6622'DESCRIBED BY ORANGE COUNTY FLORIDA 1990 (SPL)
AA6622'SET 2-1/2 INCH BRASS ORANGE COUNTY CONTROL DISK STAMPED (L-665-010) IN
AA6622'CENTER LINE OF 0.90-FT X 6-FT CONCRETE HEADWALL WITH 12-INCH
AA6622'REINFORCED CONCRETE CROSS OVER PIPE, 21 FT (6.4 M) SOUTH OF SOUTH EDGE
AA6622'OF PAVEMENT OF EASTBOUND LANE OF SR 528, AND 94 FT (28.7 M) SW OF
AA6622'NORTHERNMOST POST OF TOLL PLAZA AHEAD SIGN.  IN SECTION 34, TOWNSHIP
AA6622'23 SOUTH, RANGE 29 EAST.  SITE SUITABILITY FOR GPS OCCUPATION NOT
AA6622'DETERMINED.  (DESCRIPTION SOURCE--THE ORANGE COUNTY ENGINEERING
AA6622'DEPARTMENT.)

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

The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
1        National Geodetic Survey,   Retrieval Date = NOVEMBER 22, 2015
 AA6623 ***********************************************************************
 AA6623  DESIGNATION -  L 665 011
 AA6623  PID         -  AA6623
 AA6623  STATE/COUNTY-  FL/ORANGE
 AA6623  COUNTRY     -  US
 AA6623  USGS QUAD   -  LAKE JESSAMINE (1980)
 AA6623
 AA6623                        *CURRENT SURVEY CONTROL
 AA6623 ______________________________________________________________________
 AA6623* NAD 83(1986) POSITION- 28 26 36.     (N) 081 23 06.     (W)    SCALED
 AA6623* NAVD 88 ORTHO HEIGHT -    28.325 (meters)       92.93   (feet) ADJUSTED
 AA6623 ______________________________________________________________________
 AA6623  GEOID HEIGHT    -        -27.777 (meters)                      GEOID12B
 AA6623  DYNAMIC HEIGHT  -         28.284 (meters)       92.80   (feet) COMP
 AA6623  MODELED GRAVITY -    979,188.6   (mgal)                        NAVD 88
 AA6623
 AA6623  VERT ORDER      -  SECOND    CLASS I
 AA6623
 AA6623.The horizontal coordinates were scaled from a topographic map and have
 AA6623.an estimated accuracy of +/- 6 seconds.
 AA6623.
 AA6623.The orthometric height was determined by differential leveling and
 AA6623.adjusted by the NATIONAL GEODETIC SURVEY
 AA6623.in December 1995.
 AA6623
 AA6623.Significant digits in the geoid height do not necessarily reflect accuracy.
 AA6623.GEOID12B height accuracy estimate available here.
 AA6623
 AA6623.The dynamic height is computed by dividing the NAVD 88
 AA6623.geopotential number by the normal gravity value computed on the
 AA6623.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AA6623.degrees latitude (g = 980.6199 gals.).
 AA6623
 AA6623.The modeled gravity was interpolated from observed gravity values.
 AA6623
 AA6623;                    North         East     Units  Estimated Accuracy
 AA6623;SPC FL E     -   455,400.      162,290.      MT  (+/- 180 meters Scaled)
 AA6623
 AA6623                          SUPERSEDED SURVEY CONTROL
 AA6623
 AA6623.No superseded survey control is available for this station.
 AA6623
 AA6623_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM623463(NAD 83)
 AA6623
 AA6623_MARKER: DD = SURVEY DISK
 AA6623_SETTING: 30 = SET IN A LIGHT STRUCTURE
 AA6623_SP_SET: DROP INLET
 AA6623_STAMPING: L-665-011
 AA6623_MARK LOGO: FL-095
 AA6623_MAGNETIC: O = OTHER; SEE DESCRIPTION
 AA6623_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 AA6623
 AA6623  HISTORY     - Date     Condition        Report By
 AA6623  HISTORY     - 1990     MONUMENTED       FL-095
 AA6623  HISTORY     - 20100412 MARK NOT FOUND   FL-095
```

```
AA6623
AA6623                          STATION DESCRIPTION
AA6623
AA6623'DESCRIBED BY ORANGE COUNTY FLORIDA 1990 (SPL)
AA6623'SET 2-1/2 INCH ORANGE COUNTY CONTROL DISK STAMPED (L-665-011) ON
AA6623'CENTER LINE AND EAST SIDE OF 5-FT X 6-FT CONCRETE DROP INLET, 33 FT
AA6623'(10.1 M) SOUTH OF SOUTH EDGE OF PAVEMENT OF EASTBOUND LANE OF SR 528,
AA6623'AND 375 FT (114.3 M) EAST OF TOLL PLAZA ON SR 528.  IN SECTION 35,
AA6623'TOWNSHIP 23 SOUTH, RANGE 29 EAST.  SITE SUITABILITY FOR GPS OCCUPATION
AA6623'NOT DETERMINED.  (DESCRIPTION SOURCE--THE ORANGE COUNTY ENGINEERING
AA6623'DEPARTMENT.)
AA6623
AA6623                          STATION RECOVERY (2010)
AA6623
AA6623'RECOVERY NOTE BY ORANGE COUNTY FLORIDA 2010 (DES)
AA6623'NEW TOLL PLAZA. MARK DESTROYED.

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

RECORDER REGISTRATION WORKSHEET

Recorder Name: SKYLAK Today's Date: **6/14/2004** Site Name: SKYLAK

Activity **Addendum** Effective Date: **6/10/2004** Start Date of Data (if different from effective date): _____

Customer **Sam Palermo/ESDA Monitoring** Division: **5430** Agency: **SFWMD** Proj Activity Code: _____

Project Manager: Elvie Ebanks Division: **5430** Agency: **SFWMD**

Project name: Shallow/Floridan Well Pairings Contract #: _____

Common Name / Description:

Groundwater monitoring site near Sky Lake with 15 PSI submersible SDI-12 pressure transducers to monitor ground water levels; Site is on Orlando Utility Commission property and requires advance notification, contact Mr. Todd Mummert with OUC Security at

Recorder Location/Purpose **stand-alone Recorder (Non-Flow Site)** Type Recorder: **Loggernet**

If water control structure, select: **Existing Structure**

COORDINATE INFORMATION: GPS **Trimble ProXR** GPS Operators Name **Brian Sedock**

Latitude: **282640.2** Longitude: **812306.907** X-coord: **532363.72** Y-coord: **1494509.34**

Section: **35** Township: **23S** Range: **29E** Quad: Lake Jessamine

Basin: **SHINGLE CREEK** County: **ORANGE** Transportation **4X4 Vehicle**

Travel, Access and Site info.:

FL Turnpike to Orlando and exit to US-17,-92 North, take US17,-92 North ~1.25 miles to Sand Lake Road, take Sand Lake Road East ~1 mile to Winegard Road, turn right (south) and road may be under construction, you will need an escort to the site, call OUC at 407-649-4404.

Array ID Configuration table attached **YES** Lock type or combination: Combination Lock number # **6745**

Equipment Removed (if applicable) _____

B.M. Elevation: **97.752** **Date:** 6/6/2001 **Stamp** **L 665010** **G.W. Land Elev.** _____

Agency **ORG** **Type** **BRASS**

B. M. Location/Description:

BM is (NGS L 665 010 PID # AA6622) located on SR 528 and found as described.....[[OLD Ref. Elev.= GW #1= 99.79.....GW #2 = 99.86]]

Sensor name **GW1** DBHydro station: _____ Measurement location: **Existing**

Well Reference Elevation: **100.690** Date: ###### Top of Well **100.690** Bottom of Wel _____

Location **Paint mark top of PVC well at measuring point Ref. Mark....denoted by brass tag...**

Sensor name **GW2** DBHydro station: _____ Measurement location: **Existing**

Well Reference Elevation: **100.765** Date: ###### Top of Well **100.765** Bottom of Wel **deep**

Location **Paint mark top of PVC well at measuring point Ref. Mark....denoted by brass tag...**

Sensor name _____ Customers reference: _____ Measurement location: _____

Well Reference Elevation: _____ Date: _____ Top of Well _____ Bottom of Wel _____

Location

Sensor name _____ Customers reference: _____ Measurement location: _____

Well Reference Elevation: _____ Date: _____ Top of Well _____ Bottom of Wel _____

Location

Sensor name _____ Customers reference: _____ Measurement location: _____

Well Reference Elevation: _____ Date: _____ Top of Well _____ Bottom of Wel _____

Location

Sensor name _____ Customers reference: _____ Measurement location: _____

Well Reference Elevation: _____ Date: _____ Top of Well _____ Bottom of Wel _____

Location

Communication Type: **R.F. (V.H.F. Radio)** R.F. Code: **215f** Phone Number: _____

ARDAMS Loop: **S61T** R.F. Access Point _____

RTU address: _____ Gateway: _____ Gateway: _____

Gateway: _____ Gateway: _____

REV. A 10/30/02

REGISTRATION WORKSHEET - SKYLAK Addendum

Site Name: **SKYLAK** Today's Date: **9/2/2014** Type Recorder: **CR10**

Activity: **Addendum** Effective Date: Start Date of Data :

Customer: **Garnett Ritchie** Bus. Area: **SCADA Maintenance** Agency: **SFWMD** Internal Order: Fund:

Project Manager: **Amelia Rodriguez-Alers** Bus. Area: **Survey & Mapping** Agency: **SFWMD** Contract #:

Project Name: **VDUP** Legal Mandate:

Short Common Name / Description:	
Proj. Mgr. Notes:	Addendum Added to Update NAVD88 Surveying Data. To convert to NGVD 29 add + 0.94
Site Directions:	FL Turnpike to Orlando and exit to US 17, 92 North, take US 17, 92 North 1.25 mi to Sand Lake Rd, take Sand Lake Rd east 1 mi to Winegard Rd, turn right (south). You need escort to the site, call OUC at 407-649-4404.
Site Address (if any):	

Transportation: **Std Vehicle** 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: **96.680** Date: **1/1/1990** Stamp: **L665-010**

Agency: **ORG** Type: **BRASS** Datum: NAVD 88

Benchmark Location/ Description	Located on SR 528. PID AA6622

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		99.76	8/25/2014				96.82	NAVD 88	top of well	
GW2		99.83	8/25/2014				96.82	NAVD 88		

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/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin		County	Description
GW1	28 26 40.2	81 23 06.907			35	23	29	Lake Jessamine	Shingle Creek		Orange	
GW2	28 26 40.2	81 23 06.907			35	23	29	Lake Jessamine	Shingle Creek		Orange	