

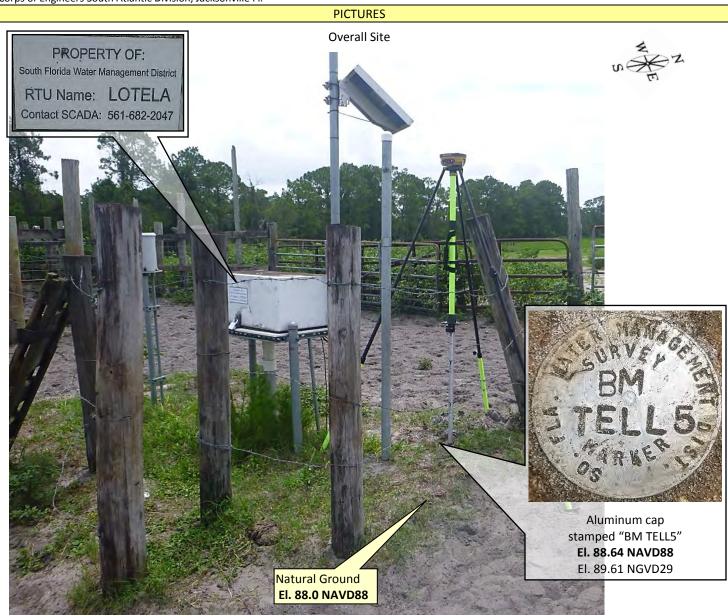
Rev. 1/16

DB Hydro Station Name: LOTELA		DB Hydro Site Name: <b>LOTELA</b>			Date of Field Work: 21-jun-17					
Party Chief: <b>Strickland</b>	Fiel	ield Book: <b>Misc 7B</b>		Page <b>68</b>						
Site Benchmark:	e Benchmark: Benchmark Elevation (NA			Corpscon 6.0.1 Conversion Factor (NAVD88 to NGVD29)						
Tell 5	64		+0.984							
Reference Elevation(s) (NAVD88):	Existing Tag Elevation (Datum		n):	Calibration Port Elevation(s) (NAVD88):						
91.76	92.72 4 24 05 EE &	COON	NC.	Not applicable						
Ground Elevation (NAVD88): 88.0			Pad Elevation (NAVD88): Not applicable							
Latitude: <b>27°35'28.357"</b>			Longitude: 81°26'07.586"							

#### Notes:

**NAVD88** – North American Vertical Datum of 1988 **NGVD29**- National Geodetic Vertical Datum of 1929

**Corpscon 6.0.1** - A U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windows-based program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville FI.

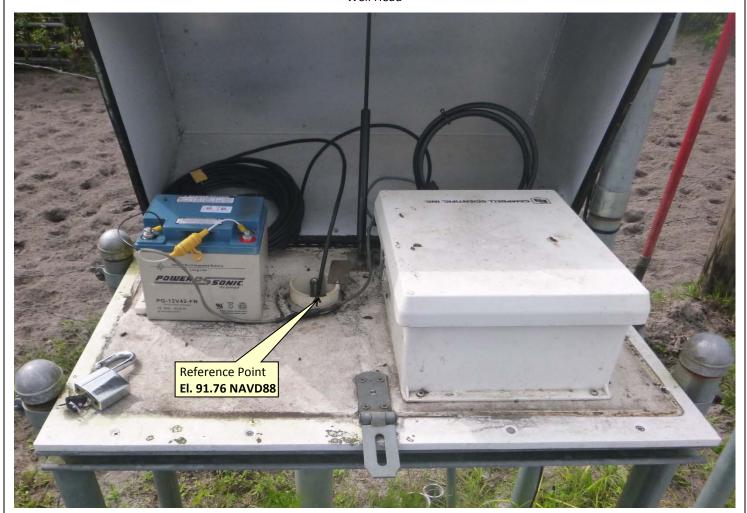


Looking Westerly (Not to scale) (21-jun-17)



Rev. 1/16

Well Head



Old tag and Reference point



Old NGVD29 Brass Tag Close-up (to be removed)



New NAVD88 Brass Tag Close-up (to be added)





Rev. 4/01

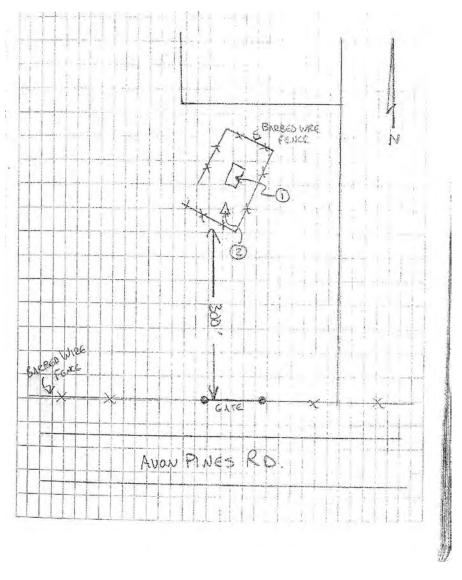
COUNTY Highlands	PROJECT Lake	Lotella	DESIGN						
SECTION 20	TOWNSHIP 338	<u>S</u>	RANGE	29 <u>E</u>					
GEOGRAPHIC INDEX OF QUAD									
Established by X Recovered	by	NAME OF QUADRANGLE							
Cooner & Associates, Inc. (Field World	k by EF Gaines)	Lake Arbuckle SW							
SURVEYOR A. Johnson DATE	04 / 18 / 2005	FIELD BOOK	140	PAGE 4-6					
HORIZONTAL DATUM: 1927	983 Other_	(circle	e one)	ZONE E or V	<b>V</b>				
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)						
CONTROL ACCURACY: HORIZO	NTAL 1 2 3	Sub-meter (circle	one) <b>VE</b>	RTICAL 1 2 3	3				
STATE PLANE COORDINATES	<b>X</b> 515126.15'	<b>Y</b> 1184339.5	55'	<b>EL.</b> 88.64'	89.61 NGVD29				
LATITUDE 27° 35' 28.38" N		LONGITUDE	081° 26	" 07.59" W					
	DES	SCRIPTION SFWMD	ALUM. D	ISK IN CONCRETE	"TELL5"				
To Reach:									
From intersection of US Highway 27 and			State Road	d 64 to Avon Pines Ro	oad.				
Turn right at fork in the road, ~1.3 miles to	mark on the left in	pasture.							
					<del></del>				
Notable Land marks:									
Mark is in fenced well area.									

SKETCH





Rev. 4/01



### Wise, Michael

From: opus <opus@ngs.noaa.gov> Sent: Wednesday, June 21, 2017 1:46 PM

To: Wise, Michael

**Subject:** OPUS solution: TELL5\_BM.tps OP1498067081031

FILE: TELL5\_BM.tps OP1498067081031

2005 NOTE: The IGS precise and IGS rapid orbits were not available 2005 at processing time. The IGS ultra-rapid orbit was/will be used to

2005 process the data.

2005

NGS OPUS SOLUTION REPORT \_\_\_\_\_

All computed coordinate accuracies are listed as peak-to-peak values. For additional information: https://www.ngs.noaa.gov/OPUS/about.jsp#accuracy

USER: mwise@sfwmd.gov DATE: June 21, 2017 RINEX FILE: tell1720.170 TIME: 17:46:02 UTC

SOFTWARE: page5 1603.24 master92.pl 160321 START: 2017/06/21 14:14:00

EPHEMERIS: igu19543.eph [ultra-rapid] STOP: 2017/06/21 16:24:00 NAV FILE: brdc1720.17n OBS USED: 5435 / 5878 : 92%

ANT NAME: TPSHIPER V NONE # FIXED AMB: 39 / 49 : 80%

ARP HEIGHT: 2.0 OVERALL RMS: 0.025(m)

REF FRAME: NAD 83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2017.4703)

X: 842438.398(m) 0.120(m) 842437.598(m) 0.120(m) -5593763.881(m) 0.061(m) -5593762.310(m) 0.061(m) Y: Z: 2936432.186(m) 0.034(m) 2936432.018(m) 0.034(m)

LAT: 27 35 28.35694 0.011(m)27 35 28.37728 0.011(m)E LON: 278 33 52.41416 0.110(m)278 33 52.39386 0.110(m)W LON: 81 26 7.58584 0.110(m) 81 26 7.60614 0.110(m)

0.894(m) 0.078(m) -0.666(m) 0.078(m) EL HGT:

ORTHO HGT: 27.023(m) 0.133(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 17) SPC (0901 FL E)

Northing (Y) [meters] 3051995.614 360986.800 N-1184337.526 Easting (X) [meters] 457025.674 157011.006 E- 515126.942

Convergence [degrees] -0.20168176 -0.20168176

Point Scale 0.99962280 0.99996398 Combined Factor 0.99962266 0.99996384

#### US NATIONAL GRID DESIGNATOR: 17RML5702551995(NAD 83)

#### **BASE STATIONS USED**

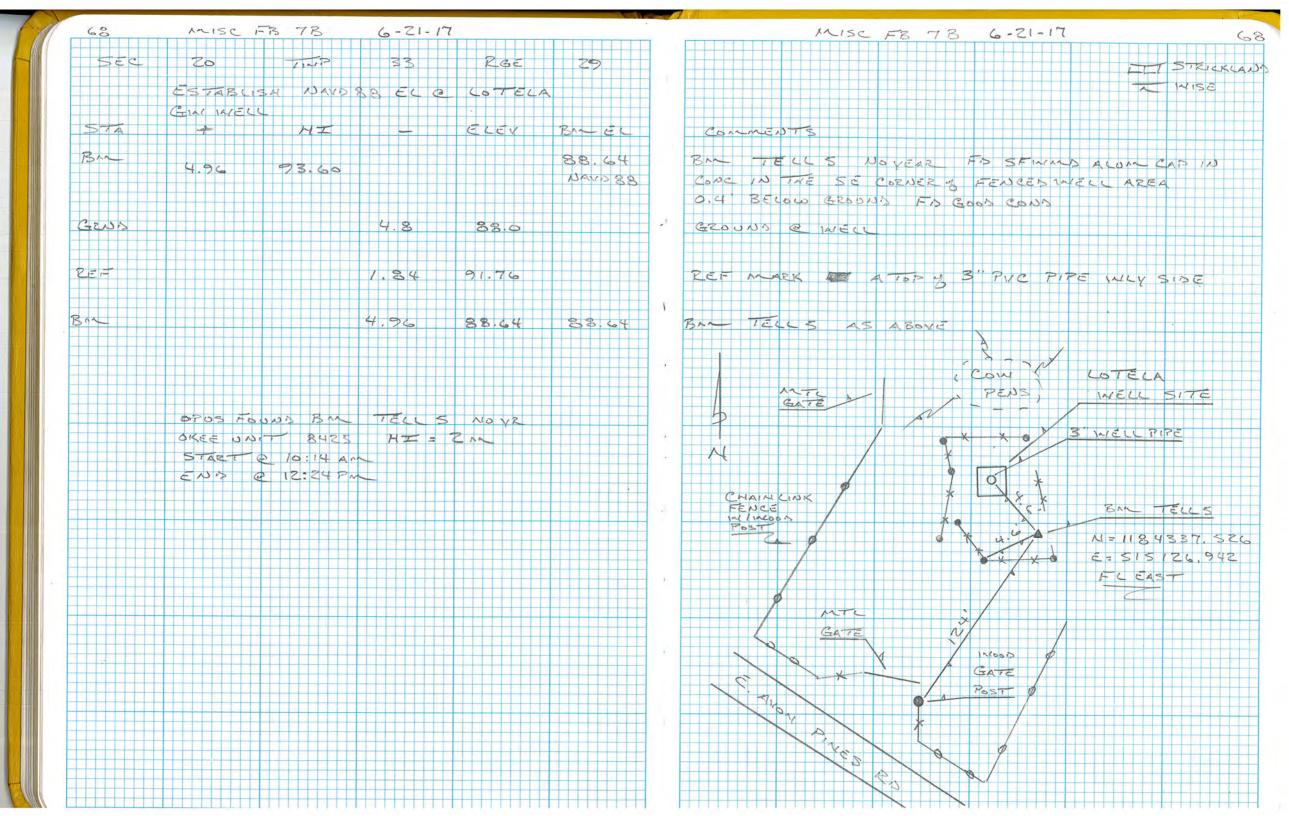
PID DESIGNATION LATITUDE LONGITUDE DISTANCE(m)

DL2756 FLC5 CARD SOUND 5 CORS ARP N252553.839 W0802801.043 257992.9
DI3564 CCV6 CAPE CANAVERAL 6 CORS ARP N282735.827 W0803243.702 130104.4
DE6352 ZJX1 JACKSONVILLE 1 CORS ARP N304155.872 W0815429.445 347459.1

#### NEAREST NGS PUBLISHED CONTROL POINT

AF6101 R 115 N273559. W0812706. 1859.0

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.



## Office

#### **Project**

21 June 2017

#### **INPUT**

State Plane, flhpgn - Florida HPGN 0901 - Florida East, U.S. Feet Vertical - NAVD88, U.S. Feet

#### **OUTPUT**

Geographic, flhpgn - Florida HPGN Vertical - NGVD29 (Custom), U.S. Feet

**LOTELA** 

1/1

Northing/Y: 1184339.55 Easting/X: 515126.15 **Latitude:** 27 35 28.37695 **Longitude:** 81 26 07.59472

Elevation/Z: 0

Elevation/Z: 0.984

Convergence: -0 12 06.05858 Scale Factor: 0.999963980 Combined Factor: 0.999968070

Remark:



# **DBHYDRO** | by station

#### STATION INFORMATION

Station	LOTELA
Site	LOTELA
Туре	WELL
Latitude (ddmmss.sss)	273529.118
Longitude (ddmmss.sss)	812607.247
X Coord (ft) NAD83	515157.678
Y Coord (ft) NAD83	1184414.28
County	Highlands
Basin	ARBUCKLE CREEK
Section	20
Township	33
Range	29
Show Map	Google Map
Well Info	<u>Info</u>
Description	GROUNDWATER WELL AT LAKE LOTELA NEAR AVON PARK
Notes	
Nearby Stations	Nearby Stations
Attachments	Show Attachments

Query returned 1 station record(s).

Get Time Series Data

DBHYDRO Menu | DBHYDRO Home | SFWMD Home | User's Guide | What's New | FAQ | Comments? | Login

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#### **REGISTRATION WORKSHEET - LOTELA Addendum**

Site Name:		LOTELA			Too	day's Date:	4/29/2017			Type Recorder:										
Activity:	ity: Addendum			Effective Date:					Start Date of Data :											
Customer:		Steve Krupa			Bus. Area: <b>5720</b>				Agency:		Internal Order:									
Project Mana	iger:	Howard Ehmke			Bus. Area: Survey & Mapping				Agency:	Agency: SFWMD Con					Fund: ntract #:					
Project Name	Project Name:																			
Short Commo	on Name / D	escription:																		
Proj. Mgr. Notes: This addendum was				s perform	ed to add N	AVD 88 sur	veying data fo	or the reference e	elevation.	Γο convert to	NGVD	29 add	+0.984	4ft.						
Site Directions:  From the intersection of US27/US98 and SR64 in the town of Avon Park, take SR64 East towards the Avon Park Air force Base for approximately 3.4 an intersection where SR64 bears to the left and Avon Pines Road goes to the right. Proceed on Avon Pines Road for 1.6 miles and monitoring site shown visible in the pasture on the left.																				
Site Address	(if any):																			
Transportatio	n:					1	Lock type or	combination:		Abloy S	1		#							
Recorder Loc	cation/Purpo	se:							Structure Type:	ıre Type:										
Array ID Configuration table attached																				
SURVI	EY INFORM	ATION																		
B.M	I. Elevation:	88.64 ft					Date:	3/30/2005				St	amp: E	зм те	LL5					
Agency: SFWMD					Type: ALUM					Datum: NAVD 88										
Benchmark Location/ Description Marker is an aluminum disk, stamped "South Florida Water Management District Survey Marker " BM TELL5".																				
COMMUNICA	ATIONS INF	ORMATION																		
Communications System:					Logg	ernet Server:			Loggernet IP Address:					g.						
Tower:		Co	mmunicati	on Type:				R.	F. Code/Modem	Address:			R.F. Ac	ccess P	oint:					
Pho	ne Number:																			
RT	U Address:		G	ateways:																
WELL INFOR	RMATION																			
Sensor	Customer Ref	Ref Elev	Elev Date	Top of Well	Bottom of Well	Ground Elev	Benchmark Elev	Benchmark Datum	Ref Elevation Lo	cation										
Sensor         Ref         Ref Elev         Elev Date         Well         of Well         Elev         Datum         Ref Elevation Location           GW1         LOTELA         91.76         3/30/2005         91.76         88.64 NAVD 88         Black mark on top of PVC well pipe.																				
	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												
Sensor GW1	OHSEL	Esevation	Esevation	14 CII	** EII	meet var	men van	rransmued												
COORDINAT	E INFORMA	TION																		

Quad

Basin

County

Highlands

Description

Item/Parm GW1 
 Lat
 Long
 X-Coord
 Y-Coord
 Sec

 27 35 28.35
 81 26 07.59
 515126.94
 1184338

Township Range