

Rev. 1/16

DB Hydro Station Name: <b>KPP</b> 0	GW2	DB Hydro Site Name: <b>KPPG</b>	GW2	eld Work: <b>05-jun-17</b>					
Party Chief: Giammarco	Field Book: N	NISC 6Z	Page(s) <b>58 &amp; 59</b>						
Site Benchmark: <b>KPPGW2</b>	Benchmark E	levation (NAVD88) <b>68.79</b>	Corpscon 6.0.1 Conversion Factor (NAVD88 to NGVD29) +1.217						
Reference Elevation(s)	Existing	Tag Elevation (Datum):	•		Calibration Port Elevation(s)				
(NAVD88): <b>72.74</b>	73.98 N	IGVD29 05-mar-08 Sutron Co	Corp WCW written at the site (NAVD88): Not required						
Ground Elevation (NAVD88): Pad Elevation (NAVD88):									
NE corner El. 69.0 SE cor	ner <b>El. 69.1</b>	N	NE corner El. 69.24 SE corner El. 69.29						
SW corner El. 69.2 NW co	orner <b>EL. 69.24</b>								
Latitude: 27°33'10.953"		L	ongitude: <b>80°59'3</b>	5.838"	OPUS on the benchmark				

#### Notes:

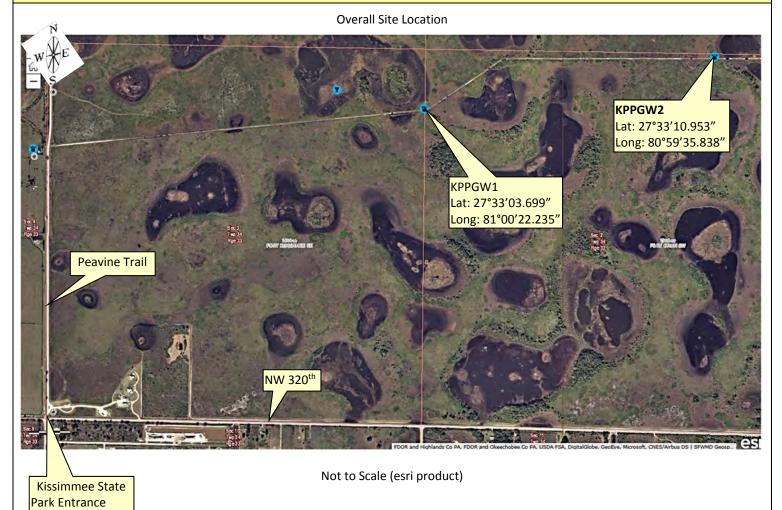
**OPUS** – Online Positioning Users Service (National Geodetic Survey product)

**NAVD88** – North American Vertical Datum of 1988

NGVD29- National Geodetic Vertical Datum of 1929

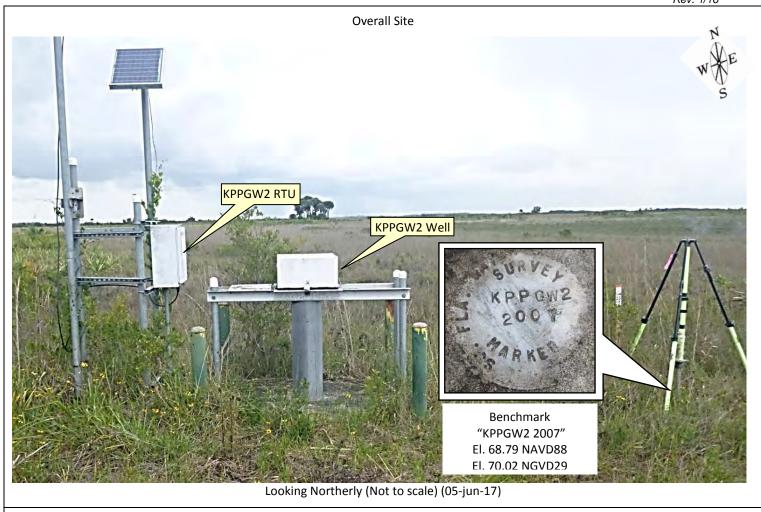
**Corpscon 6.0.1** - A U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windowsbased program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of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

#### **PICTURES**





Rev. 1/16







Rev. 1/16



Looking Northerly (Not to scale) (05-jun-17)

Brass Tag Close Up



Brass Tag and Reference Mark



51 6		VIISC FIJ WE				11	4/3/17	IVIISC I	- 62				5/
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						1 Z1655 Ni							UNSON
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REF. DT.			4.46	5.80	7,22			REF GLE					
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GROUND B			-4.9	5.36		- ,							
MW COR													
NE COR			4.25	6.01									
CROLAD N.E.COR			.4.2	6.06									
ConcPAV S. 5 GOR			4.20	6.06									
			4.7'	5.56									
CARBUND SE.CSA													
S.W Cor			4.58	5.68									
SW. COR			4,5	5,76									
MIRAMARZ			4.34	5.92									

58 M	ISS FIS LOF	6/5	5/17				<b>/</b> ∨l		015111			
SEC	2			RNG	33	· NAVD 8	8				A. GIAMMAZEO	
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						1						
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	5.40	74.19										
			1.45	72.74	Rof							
			4.95	69.24	NURTH GAST	CURNED CON	14.					
			5,20	68,99	IV. G GREUNIT	GRADE						
			4.90	69.29	SOUTH EAST	CORNER CON	c					
			5,1	69,09	S. E. GROUND	CIRADE						
			4.85	69.34	SOUTH WEST	CORNER CONC						
			5.0	69.19	S.W. GROUND	GRADE						
			4.95	69.24	NORTH WEST	CORNE CONC						
			5,2	68.99	NW GROWN	GRADE						
			5.40	68,79	KDDCM 3	136KKH						
	G.P.S UNIT	5410										
START TIME												
END TIME	1.53											
HEIGHT	1.5 MT.											
	D					*						
2	PICTURES	5										
Pici	SITE I.D											
P16 2	SOUTH LOUI											
PIC 3	CLUSE UP 0					,						
P144	WEST SIDE L											
P145	GAST SIDE		257									
PIC6	BENCH MAK	ek										
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KPPGWI				68.66	SFWIMD	ALUMN. DISK SET IN CONC. STAMPED KPP GWI 2007
	5,05	73.31	1.09	72,22	REF	
			4.63	68,68		GAST CORNE CONG. PAD
			4.9	68.4		(TROUND
-			4.64		South EAST	CORNER COME, PAD
			4,9	68.4		GROUND
			4.70		South WEST	CORNER CONG. PAD
			4.8	68,51		GROUND
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			4.9		N, Let	CALS ON LAD
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PIC 1	SITE I.D	PICTUR	<i>4</i> \$			
P16 2	SOUTH LOOK		4			
PIC 3	CLUSEUM O					
	WEST SIDE		x E957			
	BENCH MA					
PK LP	GAST SIDE	LOURING	WGST			



				Rev. 4/01						
COUNTY OKEECHOBEE	PROJECT KIS	SIMMEE RIVER I PROJECT	DESIGNATION KPPGW2							
SECTION 35	TOWNSHIP 3	3 SOUTH	RANGE	33 EAST						
GEOGRAPHIC INDEX OF QUAD										
Established by Nick Miller Inc. Recovered by		NAME OF QUADRANGLE FORT DRUM SW								
SURVEYOR Stephen M. Gordon DA	ATE 7/03/2007	FIELD BOOK         18         PAGE 64								
HORIZONTAL DATUM: 1927 1983 Other (circle one) ZONE E or W										
STATE PLANE COORDINATES		E 658,341.3 f	N 1,170,214.0 ft							
LATITUDE: N 27.55303°		LONGITUDE: W 80.99328°								
VERTICAL DATUM: MSL 1929	<b>1988</b> Other	(circle	e one)	EL. 68.79 ft						
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)	e) <b>EL. 70.02 ft</b>						
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3										
DESCRIPTION										
To Reach:										
FROM THE INTERSECTION OF US 98 AND CR 700A. HEAD NORTH ON CR 700A FOR 5.7 MILES TO INTERSECTION OF CR 700A AND CR 724. MAKE LEFT ON CR 724 AND HEAD WEST FOR 1.0 MILE TO PEAVINE TRAIL (NW 192 <sup>nd</sup> AVENUE). MAKE RIGHT AND HEAD NORTH ON NW 192 <sup>ND</sup> AVENUE FOR 5.1 MILES TO KISSIMEE PRAIRIE PRESERVE ENTRANCE. CONTINUE NORTH ON GRADE ROAD FOR 0.7										

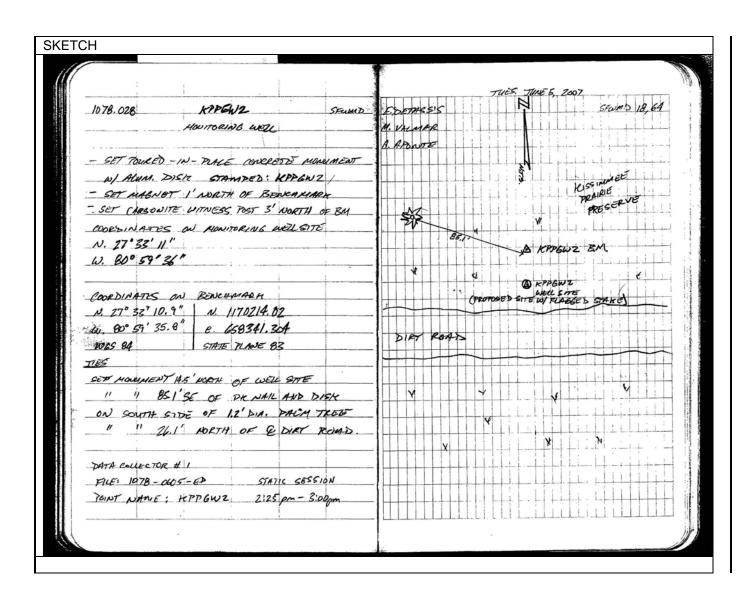
FROM THE INTERSECTION OF US 98 AND CR 700A. HEAD NORTH ON CR 700A FOR 5.7 MILES TO INTERSECTION OF CR 700A AND CR 724. MAKE LEFT ON CR 724 AND HEAD WEST FOR 1.0 MILE TO PEAVINE TRAIL (NW 192<sup>nd</sup> AVENUE). MAKE RIGHT AND HEAD NORTH ON NW 192<sup>ND</sup> AVENUE FOR 5.1 MILES TO KISSIMEE PRAIRIE PRESERVE ENTRANCE. CONTINUE NORTH ON GRADE ROAD FOR 0.7 MILE TO DIRT ROAD ON RIGHT. MAKE RIGHT AND HEAD EAST ON DIRT ROAD FOR 1.8 MILES TO MARK ON LEFT, SET IN TOP OF A ROUND CONCRETE MONUMENT RECESSED 0.3 FOOT BELOW GROUND LEVEL. LOCATED 26.1 FEET NORTH OF CENTERLINE OF DIRT ROAD, 14.5 FEET NORTH FROM KPPGW2 MONITORING WELL SITE, 85.1 FEET SOUTHEAST OF PK NAIL AND DISK LB 4318 ON SOUTH SIDE OF 1.2 FOOT DIAMETER PALM TREE AND 3.0 FEET SOUTH OF A CARSONITE WITNESS POST. MAGNET SET 1 FOOT NORTH OF BENCHMARK.

Benchmarks Used: P 617, R 617

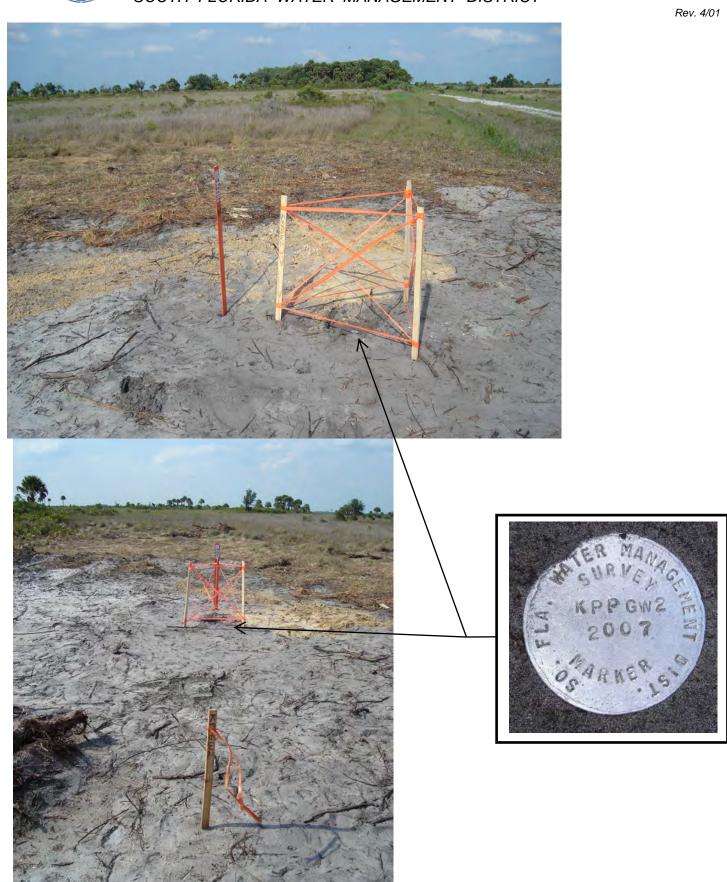
Notable Land marks:



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From: opus

To: Ehmke, Howard

OPUS solution: KPP2.tps OP1496857377218 Subject: Wednesday, June 07, 2017 1:44:08 PM Date:

FILE: KPP2.tps OP1496857377218

1009 WARNING! No antenna type was selected. No antenna offsets or

1009 pattern will be applied. Coordinates with reduced accuracy

1009 will be returned for the antenna phase center.

1009

Point Scale

#### NGS OPUS SOLUTION REPORT

All computed coordinate accuracies are listed as peak-to-peak values.

For additional information: <a href="https://www.ngs.noaa.gov/OPUS/about.jsp#accuracy">https://www.ngs.noaa.gov/OPUS/about.jsp#accuracy</a>

USER: hehmke@sfwmd.gov DATE: June 07, 2017 RINEX FILE: kpp2156p.17o TIME: 17:43:45 UTC

SOFTWARE: page5 1603.24 master55.pl 160321 START: 2017/06/05 15:01:00

EPHEMERIS: igr19521.eph [rapid] STOP: 2017/06/05 17:53:00 NAV FILE: brdc1560.17n OBS USED: 7242 / 7674 : 94% # FIXED AMB: 36 / 43 : 84% ANT NAME: NONE NONE

ARP HEIGHT: 1.5 OVERALL RMS: 0.021(m)

REF FRAME: NAD\_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2017.4265)

X: 885885.636(m) 0.018(m) 885884.836(m) 0.018(m) Y: -5589024.385(m) 0.030(m) -5589022.811(m) 0.030(m) Z: 2932680.189(m) 0.009(m) 2932680.023(m) 0.009(m)

LAT: 27 33 10.95282 27 33 10.97327 0.015(m)0.015(m)E LON: 279 0 24.16194 0.018(m)279 0 24.14214 0.018(m)W LON: 80 59 35.83806 0.018(m)80 59 35.85786 0.018(m)EL HGT: -5.308(m) 0.026(m) -6.874(m) 0.026(m)

ORTHO HGT: 21.009(m) 0.047(m) [NAVD88 (Computed using GEOID12B)]

Y= 1170246.780236667

X= 658341.31782916667

68.927 68.773

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 17) SPC (0901 FL E)

Northing (Y) [meters] 3047692.215 356681.932 Easting (X) [meters] 500662.609 200662.835 Convergence [degrees] 0.00310461 0.00310461

0.99960001 0.99994118 **Combined Factor** 0.99960084 0.99994201

US NATIONAL GRID DESIGNATOR: 17RNL0066247692(NAD 83)

**BASE STATIONS USED** 

PID DESIGNATION LATITUDE LONGITUDE DISTANCE(m)

DG4691 FMYR FORT MYERS CORS ARP N263527.507 W0815150.972 137203.5 DE9138 OKCB OKEECHOBEE CORS ARP N271557.715 W0805119.181 34606.4

#### NEAREST NGS PUBLISHED CONTROL POINT

DH8876 P 617 N273306. W0810121. 2889.1

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**

1 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

**KPPGW2** 

1/1

Northing/Y: 1170214.0 Easting/X: 658341.3 **Latitude:** 27 33 10.95309 **Longitude:** 80 59 35.83827

Elevation/Z: 0

Elevation/Z: 1.217

Convergence: 0 00 11.17648
Scale Factor: 0.999941182
Combined Factor: 0.999945312

Remark:



# **DBHYDRO** | by station

STATION INFORMATION

#### Station KPPGW2 Site KPPGW2 WELL Type 273311 Latitude (ddmmss.sss) Longitude (ddmmss.sss) 805935.971 X Coord (ft) NAD83 658329.287 Y Coord (ft) NAD83 1170218.617 County Okeechobee Basin S-65D 35 Section

 Well Info
 Info

 Description
 KISSIMMEE PRAIRIE STATE PRESERVE, GROUNDWATER WELL 2

 Notes

 Nearby Stations
 Nearby Stations

 Attachments
 Show Attachments

33

33

Google Map

Township Range

Show Map

Query returned 1 station record(s).

Get Time Series Data

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# **REGISTRATION WORKSHEET - KPPGW1 Addendum**

Site Name:		KPPGW1			То	day's Date:	6/7/2017					Type Recorder: CR1000				
Activity:		Addendun	n		Effe	ctive Date:	6/5/2017					Start Date of Data :				
Customer:		Steve Kruj	pa			Bus. Area:	5720		Agency:	SFWMD		Internal Order Fund				
Project Mana	ger:	Howard E	hmke			Bus. Area: Survey & Mapping			Agency: SFWMD			ntract #:	1 und			
Project Name:						Legal Mandate:										
Short Commo	on Name / D	escription:	KPPGW2	,												
Proj. Mgr. Notes: This addendum was						ed to add N	AVD 88 sur	veying data fo	or the reference e	levation.	Γο convert to NGV	D 29 add	+1.217ft.			
Site Directions: The site is located a						proximately 300 yards east of pumping station S140.										
Site Address	(if any):															
Transportatio	n:	Std Vehicle	e			]	Lock type or	combination:		Abloy S	S	#				
Recorder Loc	cation/Purpo	se:	Stand-Alor	ne Recorde	r (Non-Flo	w Site)			Structure Type:							
Array ID Cor	nfiguration t	able attached	d	NO												
SURVI	EY INFORM.	ATION														
B.M	I. Elevation:	KPPGW2					Date:	7/2/2007				Stamp:	SFWMD			
	Agency:	#REF!			Type: ALUM						:	Datum:	NA	VD 88		
Benchmark I	Location/ De	scription	County R	oad 724;	urn left o	n CR 724 a	nd go west fo	or 1.0 mile to	Peavine trail (N'	W 192nd A	rth on CR 700A for Avenue); turn right o a dirt road on righ	and head	north on N	W 192nd Av	enue for 5.1	
COMMUNICA	ATIONS INF	ORMATION														
C	ommunicati	ons System:				Loggernet Server: Logg					ggernet IP Address	:				
Tower:		Co	mmunicati	on Type:		R.F. Code/Modem Address:						R.F. Access Point:				
Pho	ne Number:															
RT	U Address:		C	ateways:												
WELL INFOR	RMATION															
			Elev Date	Well	Bottom of Well	Elev	Benchmark Elev		Ref Elevation Lo	cation						
GW1	KPPGW2	72.24	6/5/2017	72.24		69.1	68.79	NAVD 88	rim of well pipe							
Sensor GW1	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								
COORDINAT	E INFORMA	TION														
Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin		County	7			Description	