

Rev. 1/16

DB Hydro Station Name: L-6433 L-6436	LMMW					ncy: 1D	Date of Field Work: 17-oct-17			
Party Chief: Wise	arty Chief: Wise Field Book			Pages 21	-23		Prepared by: H. Ehmke			
	SITE SPECIFIC DATA									
Site Benchmark:		Benchmark Ele	enchmark Elevation (NAVD88)			Corpscon 6.0.1 Conversion Factor (NAVD88 to NGVD29)				
INJ BM 04		4.976				+1.188				
Reference Elevation(s) (NAVD8	38):	Existing E	Existing Brass Tag Elevation (Datum):				Calibration Port Elevation(s) (NAVD88):			
L-6433 (GW1) El. 8.73	L-6433 (G	L-6433 (GW1) 9.784 4-14-10 RH AG			AG	L-6433 (GW1) El. 8.72				
L-6436 (GW2) El. 9.11	L-6436 (C	L-6436 (GW2) 10.164 4-14-10 RH AG			H AG	L-6436 (GW2) El. 9.09				

Ground Elevation at the 4 corner of the concrete pad (NAVD88): L-643 (GW1) L-643 (GW2)

NE Cor. El. 4.8 SE Cor. El. 4.7 NE Cor. El.4.8 SE Cor. El. 4.9 NW Cor. El. 4.8 SW Cor. El. 4.8 NW Cor. El. 4.8 SW Cor. El. 4.9

Concrete pad Elevation at the four corners (NAVD88):

L-6433 (GW1) L-6436 (GW2)

NE Cor. **El. 4.84** SE Cor. **El. 4.80** NE Cor. **El. 4.89** SE Cor. **El. 4.86** NW Cor. **El. 4.85** SW Cor. **El. 4.82** NW Cor. **El. 4.81** SW Cor. **El. 4.83**

(G	E	O	O	GI	R_{μ}	٩P	Ή	IC	D/	AT/	١

Section 18	Townshi	p 44 South	Range 23 East		County: Lee		
Station	Latitude	Longitude	Northing (Y) Easting (X)		Source:		
INJ BM 04	26°39′05.840″	82°03′21.455″	843962.83	311260.49	LMMWGW1&2.asc file		
L-6433 (GW1)	26°39′05.443″	82°03′21.472″	843922.70	311258.68	LMMWGW1&2.asc file		
L-6436 (GW2)	26°39′05.084″	82°03′21.457″	843866.40	311259.67	LMMWGW1&2.asc file		

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 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.

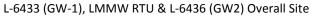
PICTURES





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Looking Westerly (oblique not to scale) (17-oct-17)



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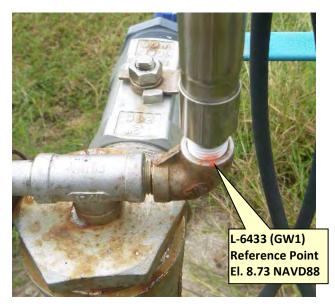


Looking Southerly (oblique not to scale) (17-oct-17)



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L-6433 (GW 1) Reference Point



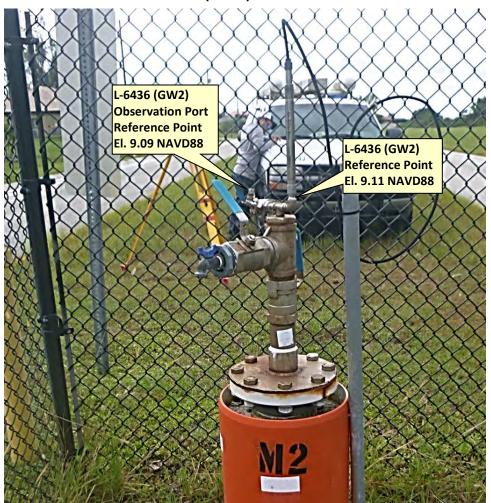
Looking Southerly (oblique not to scale) (17-oct-17)

L-6433 (GW 1) Observation Port



Looking Southerly (oblique not to scale) (17-oct-17)

L-6436 (GW 2) LM3479 M2

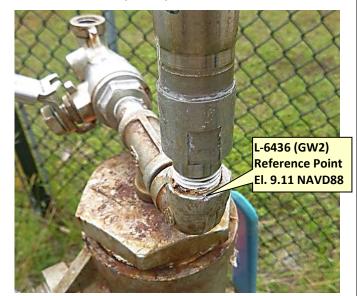


Looking Southerly (oblique not to scale) (17-oct-17)



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L-6436 (GW 2) Reference Point



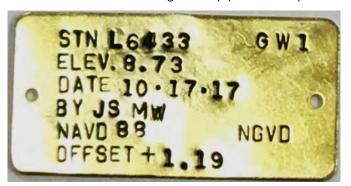
Looking Southerly (oblique not to scale) (17-oct-17)

L-6436 (GW 2) Observation Port

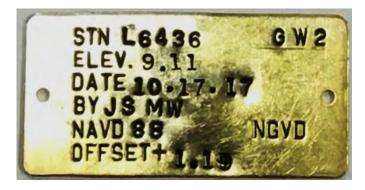


Looking Southerly (oblique not to scale) (17-oct-17)

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



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





Rev. 1/16

DESIGNATION: INJ BM 04 2004

ESTABLISHED BY: CONSUL-TECH
RECOVERED BY: SOUTH FLORIDA WATER MANAGEMENT DISTRICT

GEOGRAPHIC POSITION

RECOVERED BY: SOUTH FLORIDA WATER MANAGEMENT DISTRICT

GEOGRAPHIC POSITION

SECTION 18 TOWNSHIP 44 SOUTH RANGE 23 EAST

COUNTY Lee NAME OF QUADRANGLE: MATLACHA

HORIZONTAL DATUM: 1927 (1983) Other (circle one) ZONE (E) or W

VERTICAL DATUM: MSL 1929 (1988) Other (circle one)

VERTICAL ACCURACY: 1 2 (3)

STATE PLANE COORDINATE N (Y)= 843962.83 E (X)=311260.49 NAVD 88 EL. 4.976

NGVD 29 EL. 6.164 CORPSCON

CORPSCON 6.0.1 CONVERSION FACTOR (NAVD88 TO NGVD29): +1.188

LATITUDE: 26°39'05.84" N LONGITUDE: 082°03'21.46" W

RECOVERY DATA

Stamping: INJ BM 04 2004

To Reach: From the junction of Interstate 75 (I-75) and Pine Island Road (State Road 78), go west on Pine Island Road 15.6 miles to Burnt Store Road (State Road 765); turn right (north) onto Burnt Store Road and go north 1.0 mile to Embers Road; turn left (west onto Embers Road and go west 1 mile to Old Burnt Store Road; turn left (south) onto Old Burnt Store Road, 0.1 of a mile to South Florida Water Management District's well site LMMW (L-6433 GW1 and L-6436 GW-2) and station location. Station is a bronze Corps of Engineers disk stamped "INJ BM O4 2004." In a NGS Class "C" concrete monument.

NGS SOURCE BENCHMARKS: B240 (AG1603) and Z240 (AG1599)

FIELD BOOK MISC 7E PAGE 23

PICTURES

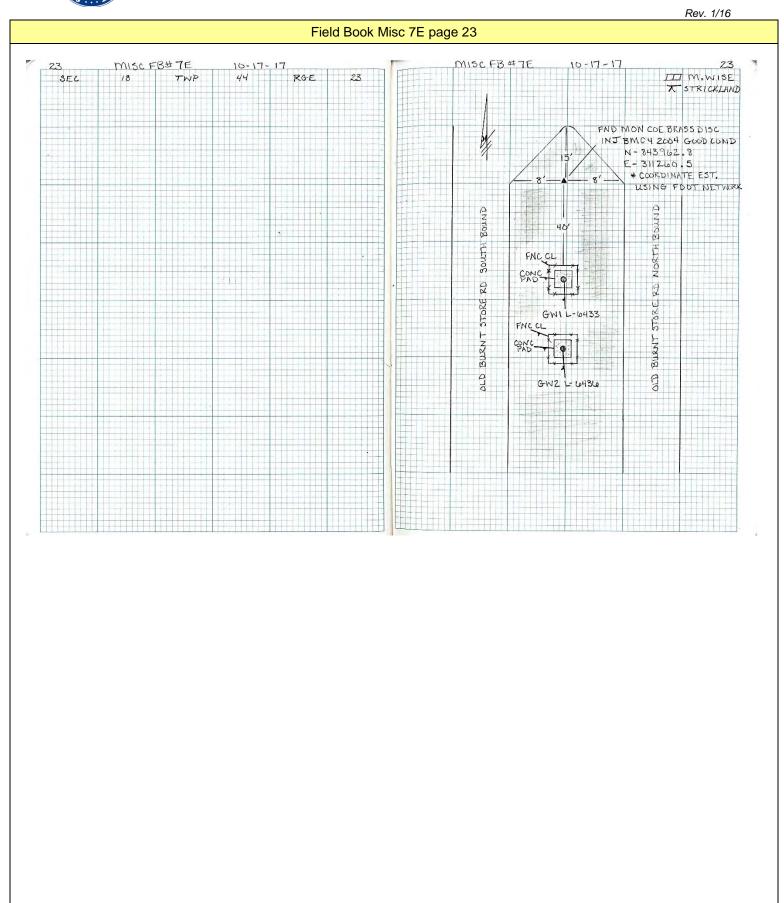




Bronze C.of E. Disk stamped "INJ BM O4" El. 4.976 NAVD88 El. 6.161 NGVD29

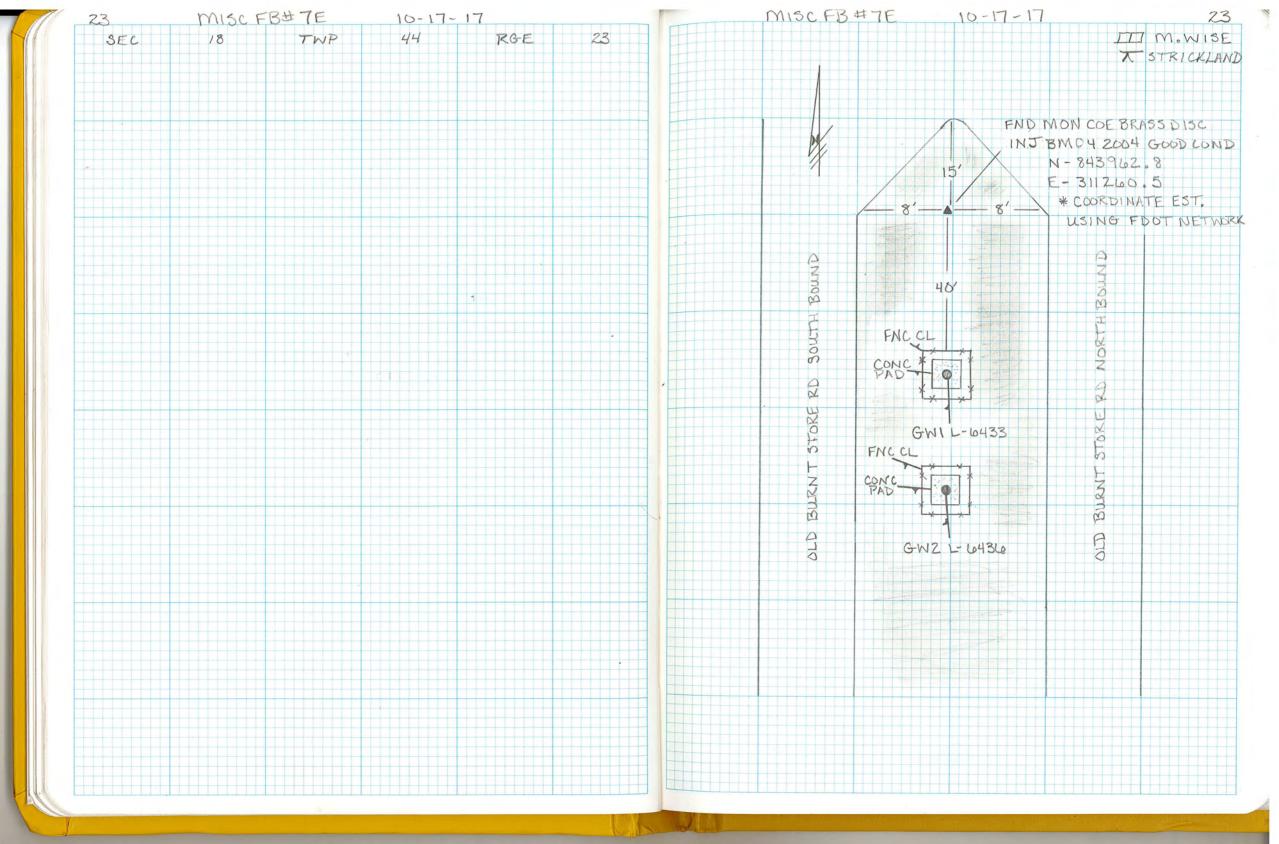
Looking Southerly Oblizue Not to Scale (19-oct-17)





21	MISC	FB# 7E	10-17-	17		MISC FB#7E 10-17-17 21
SEC	POINTS	TWP LISH NAVD 85 @ WELL SIT AND L-6431	ELMMW			TI M. WISE **TRICKLAND **TOTAL CONTROL OF THE PROPERTY OF TH
STA BM GWIREFPT	+ 4.85	H1 9.83	1.10	ELEY 4.98	BM EL. 4.976 NAVO 38	BM FND CONCRETE MONUMENT COE BRASS DISC STAMPED INJ BM DH 2004 GOOD COND GWI REF PT IS'V" MARK ON N SIDE OF 1/4 INC STAINLESS STEAL 90
GWIVERPOR	T.		1.11	8.72		GWI YER PORT IS "X" MARK ON N SIDE OF 1/4 INC STAINLESS STEAL 90
CONCPAD NE			4.99	4.83		CONCRETE PAD ON NE SIDE OF WELL GROUND SHOT ON NE" "
CONC PADS			5.03	4.80		CONCRETE PAD ON SE"
GRND SE			5.1	4.73		GROUND SHOT ON 3E "
CONCPADSW	1		5.01	4.82		CONCRETE PAD ON SW "
GRND SW			5.0	4,83		GROUND SHOT ON SW " "
CONC PADNIN			4.98	4.85		CONCRETE PAD ON NW"
GRND NW			5.0	4.83		GROUND SHOT ON NW " "
GWZREFP	T		0.72	9.11		- GWZREFPT IS "V" MARK ON N SIDE OF 1/4 INC STAINLESS STEAL 90
GWZ VER POT	ST.		0.74	9.09		GWZ YER PORT 13 "X" MARK ON N SIDE OF 1/4 INC STAINLESS STEAL 90
CONC PAD NE			4.94	4,89		CONCRETE PAD ON NE SIDE OF WELL
GRND NE			5.0	4.83		GROUND SHOT ON NE " "
CONC PAD SE			4.97	4.86		CONCRETE PAD ON SE " "
GRND SE			4.90	4.93		GROUND SHOT ON SE " "
		CONTINUED	ON PAGE 22			

2.2	MISC	FB# 7E	10-	17-17		MISC FB# 7E 1	0-17-17	22
SEC	18	TWP	44	RGE	23			M STRICKLAN
		CONTINUED	FROM PAG	E 21				
>-								
37A	+	HI	_	ELEV	BM EL			
CONC PAD SW		9,83	5.00	4,83		CONCRETE PAD ON SW SIDE OF W	ELL	
GRND SW			4.90	4.93		GROUND SHOT ON SW "	17	
CONC PAD NW			5.02	4,81		CONCRETE PAD ON NW "	17	
GRND NW			5.0	4.83		GROUND SHOT ON NW "	7,	
BM			4.85	4.98	4.98 MAY D 88	BM FND CONCRETE MONUMENTO	COE BRASS DI	SC STAMPED
						INJ BM 04 2004 GOOD COND		
		SKETCH OF	NI DAGE 22					



Office

Project

2 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

LMMW

1/1

Latitude: 26 39 05.87 **Longitude:** 82 03 21.38

Elevation/Z: 0

Northing/Y: 843965.750 Easting/X: 311267.340 Elevation/Z: 1.188

Convergence: -0 28 25.32141

Scale Factor: 1.000077566

Combined Factor: 1.000081246

Remark:



DBHYDRO | by station

STATION INFORMATION Station 1-6433 LMMW Site WELL Type 263859.249 Latitude (ddmmss.sss) Longitude (ddmmss.sss) 820319.326 X Coord (ft) NAD83 311448.17 Y Coord (ft) NAD83 843295.51 County Lee Basin CAPE CORAL COASTAL Section 18 44 Township 23 Range Show Map Google Map Well Info Info Description LM-3353, SITE M Notes **Nearby Stations Nearby Stations** Attachments Show Attachments Query returned 1 station record(s). Get Sample Data Get Time Series Data

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DBHYDRO | by station

	STATION IN	FORMATION						
Station	L-6436							
Site	LMMW	LMMW						
Туре	WELL							
Latitude (ddmmss.sss)	263907.248							
Longitude (ddmmss.sss)	820320.326							
X Coord (ft) NAD83	311364.107							
Y Coord (ft) NAD83	844104.065							
County	Lee							
Basin	CAPE CORAL COASTAL							
Section	7							
Township	44							
Range	23							
Show Map	Google Map							
Well Info	<u>Info</u>							
Description	LM-3479, SITE M							
Notes								
Nearby Stations	Nearby Stations							
Attachments	Show Attachments							
	Query returned 1	station record(s).						
Get Sa	mple Data	Get Time Series Data						

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REGISTRATION WORKSHEET - LMMW Addendum LMMW Today's Date: 6/18/2010 Site Name: Type Recorder: Addendum Effective Date: 7/30/2009 Start Date of Data: Activity: Bus. Area: 2542 Agency: 250 Internal Order: Customer: Steve Krupa Fund: Bus. Area: Survey/Eng. Project Manager: H.Ehmke Agency: SFWMD Contract #: Project Name: Legal 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 +1.188 TO BURNT STORE ROAD: TURN RIGHT AND GO NORTH TO CEITUS PARKWAY (THE FIRST STREET ON THE LEFT): GO WEST ALONG Site Directions: CEITUS PARKWAY WHICH TURNS INTO OLD BURNT STORE ROAD; GO NORTH ALONG OLD BURNT STORE ROAD; WELLS ARE LOCATED IN THE MEDIAN JUST BEFORE THE ROAD TURNS INTO TWO LANES Site Address (if any): **Std Vehicle** Lock type or combination: Transportation: Abloy S Recorder Location/Purpose: Water Control Structure (Flow Site) Structure Type: Array ID Configuration table attached SURVEY INFORMATION Stamp: INJ BM 04 2004 B.M. Elevation: 4.976 Date: Type: BRASS Agency: USACE Datum: NAVD 88 Benchmark Location/ Description BENCHMARK IS 40 FEET NORTH OF THE NORTHERN MOST WELL. 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

	Customer			Top of	Bottom	Ground	Benchmark	Benchmark		
Sensor	Ref	Ref Elev	Elev Date	Well	of Well	Elev	Elev	Datum	Ref Elevation Location	
GW1	L-6433	8.73	10/17/2017	9.73		4.8	4.976	NAVD88	top of 90degree elbow	
GW2	L-6436	9.11	10/17/2017	9.11		4.8	4.976	NAVD 88	top of 90 degree elbow	

	GW Land Elevation		Type of Well	or location						
GW1										
GW2										

ADDITIONAL GPS INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
GW1	26 39 05.443	82 03 21.472			18	44	23			Lee	
CW2	26 30 05 084	82 03 21 457			1.9	44	23			1.00	