

Site Name: L8FEB1 Well Site		Date of Field Work: 28-jan-15
Party Chief: Ebanks	Field Book Name/Number SCADA11	Page Number(s) 35
Site Benchmark Name L8 FEB 1	Benchmark Elevation (NAVD88) 29.821'	Datum Offset to NGVD29 1.46'
Reference Elevations (NAVD 88) 34.08' 1U GW1 34.17' 1M GW2 34.30' 1L GW3		Existing Tag Elevations (Datum) NONE
Latitude 26° 44' 20.139"		Longitude 80° 21' 51.017"

Notes:

Photographs

Overall Site



Looking Southerly

Benchmark Close Up



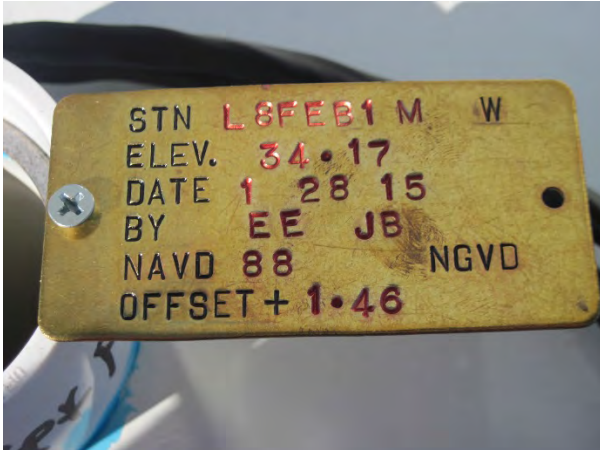
Brass Tag Close Up
1L GW3 (Northerly well)



Brass Tag + Reference Mark
1L GW3 (Northerly well)



Brass Tag Close Up
1M GW2 (Middle well)



Brass Tag + Reference Mark
1M GW2 (Middle well)



Brass Tag Close Up
1U GW1 (Southerly well)



Brass Tag + Reference Mark
1U GW1 (Southerly well)



Site Name: L8FEB2 Well Site		Date of Field Work: 20-jan-15
Party Chief: Ebanks	Field Book Name/Number SCADA11	Page Number(s) 34
Site Benchmark Name L8 FEB 2	Benchmark Elevation (NAVD88) 28.750'	Datum Offset to NGVD29 1.46'
Reference Elevations (NAVD 88) 33.13' 2U GW1 33.457' 2M GW2 33.34' 2L GW3		Existing Tag Elevations (Datum) NONE
Latitude 26° 41' 51.48"		Longitude 80° 21' 55.07"

Notes:

Photographs

Overall Site

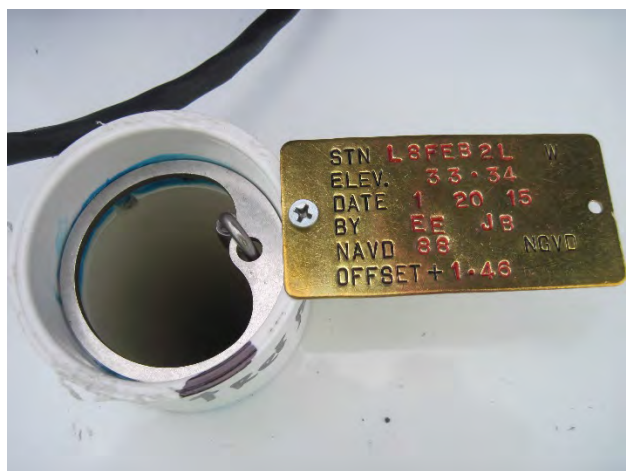


Looking Northwest

Benchmark Close Up



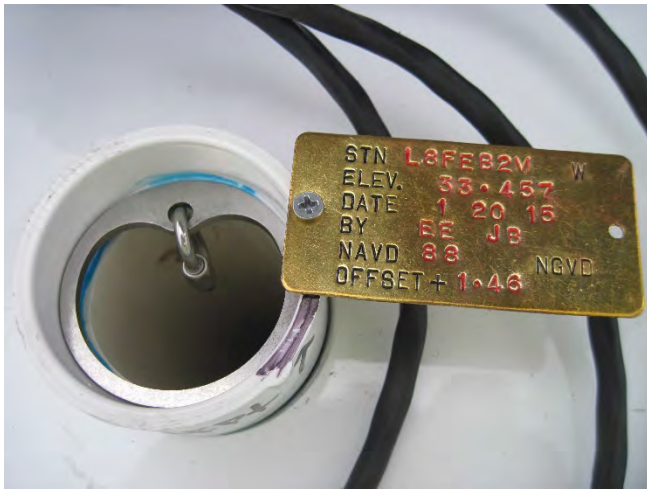
Brass Tag Close Up
2L GW3 (Northerly well)



Brass Tag + Reference Mark
2L GW3 (Northerly well)



Brass Tag Close Up
2M GW2 (Middle well)



Brass Tag + Reference Mark
2M GW2 (Middle well)



Brass Tag Close Up
2U GW1 (Southerly well)



Brass Tag + Reference Mark
2U GW1 (Southerly well)

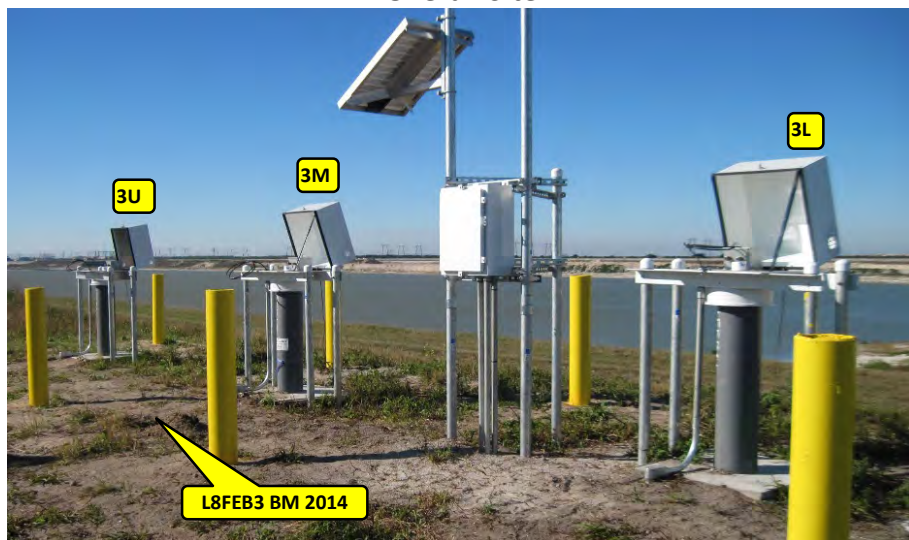


Site Name: L8FEB3 Well Site		Date of Field Work: 20-jan-15
Party Chief: Ebanks	Field Book Name/Number SCADA11	Page Number(s) 34
Site Benchmark Name L8 FEB 3	Benchmark Elevation (NAVD88) 31.592'	Datum Offset to NGVD29 1.46'
Reference Elevations (NAVD 88) 36.11' 3U 36.096' 3M 36.377' 3L		Existing Tag Elevations (Datum) NONE
Latitude 26° 41' 24.96"		Longitude 80° 21' 54.58"

Notes:

Photographs

Overall Site



Looking Southwest

Benchmark Close Up

Not Available

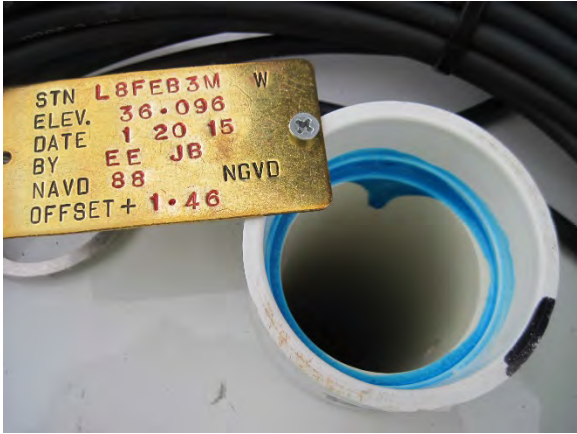
**Brass Tag Close Up
3L (North well)**



**Brass Tag + Reference Mark
3L (North well)**



Brass Tag Close Up
3M (Middle well)



Brass Tag + Reference Mark
3M (Middle well)



Brass Tag Close Up
3U (South well)



Brass Tag + Reference Mark
3U (South well)



Site Name: L8FEB4 Well Site		Date of Field Work: 28-jan-15
Party Chief: Ebanks	Field Book Name/Number SCADA11	Page Number(s) 35
Site Benchmark Name L8 FEB 4	Benchmark Elevation (NAVD88) 18.053'	Datum Offset to NGVD29 1.46'
Reference Elevations (NAVD 88) 19.065' 4U 19.08' 4M 19.07' 4L		Existing Tag Elevations (Datum) NONE
Latitude 26° 44' 20.139"		Longitude 80° 21' 51.017"

Notes:

Photographs

Overall Site



Looking West (from Benchmark)

Benchmark Close Up



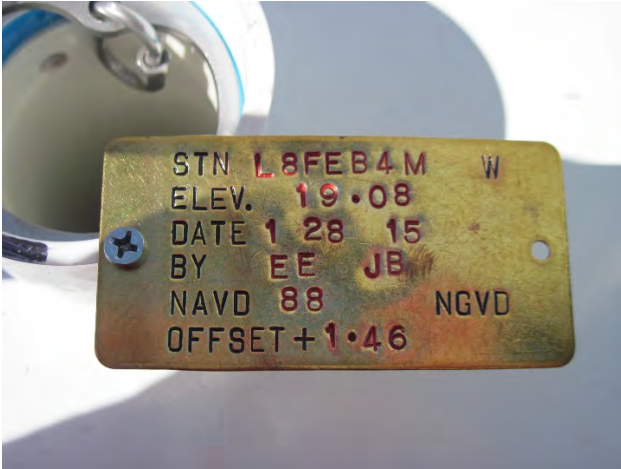
Brass Tag Close Up
4L (Middle well)



Brass Tag + Reference Mark
4L (Middle well)



Brass Tag Close Up
4M (Northerly well)



Brass Tag + Reference Mark
4M (Northerly well)



Brass Tag Close Up
4U (Southerly well)



Brass Tag + Reference Mark
4U (Southerly well)

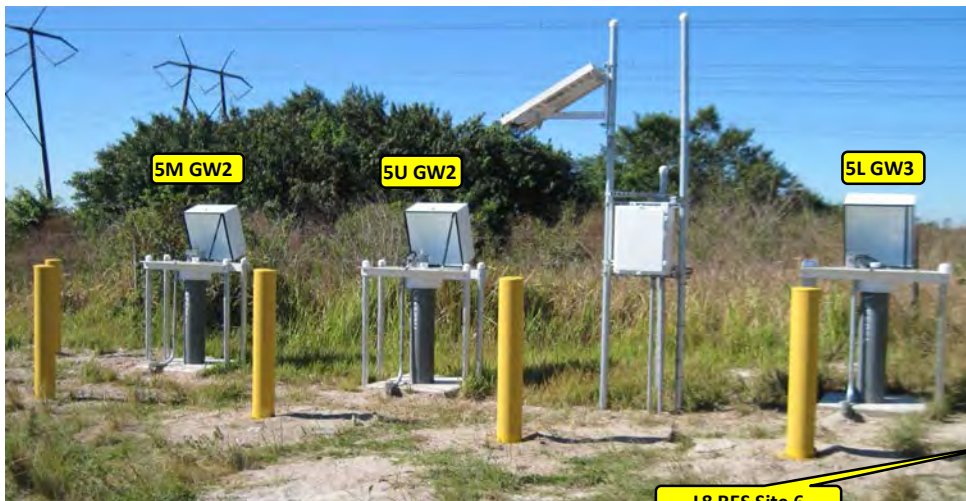


Site Name: L8FEB5 Well Site		Date of Field Work: 28-jan-15
Party Chief: Ebanks	Field Book Name/Number SCADA11	Page Number(s) 36
Site Benchmark Name L8 RES SITE 6	Benchmark Elevation (NAVD88) 18.053'	Datum Offset to NGVD29 1.46'
Reference Elevations (NAVD 88) 18.83' 5U GW1 18.93' 5M GW2 19.32' 5L GW3	Existing Tag Elevations (Datum) NONE	
Latitude 26° 44' 23.403"	Longitude 80° 22' 33.986"	

Notes:

Photographs

Overall Site

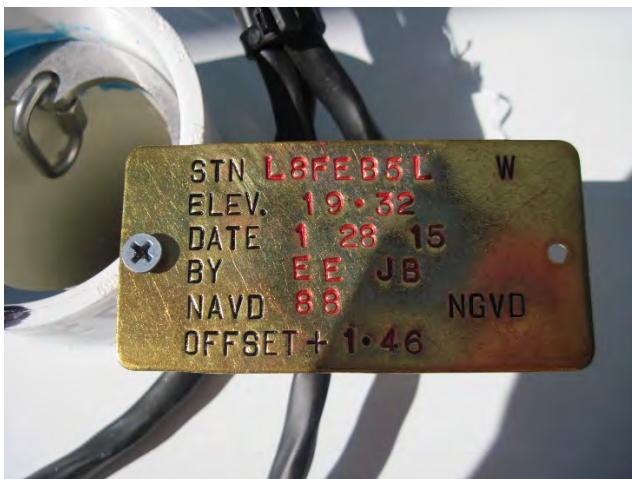


Looking West

Benchmark Close Up

Not Available

Brass Tag Close Up
5L GW3 (Northerly well)



Brass Tag + Reference Mark
5L GW3 (Northerly well)



Brass Tag Close Up
5M GW2 (Southerly well)



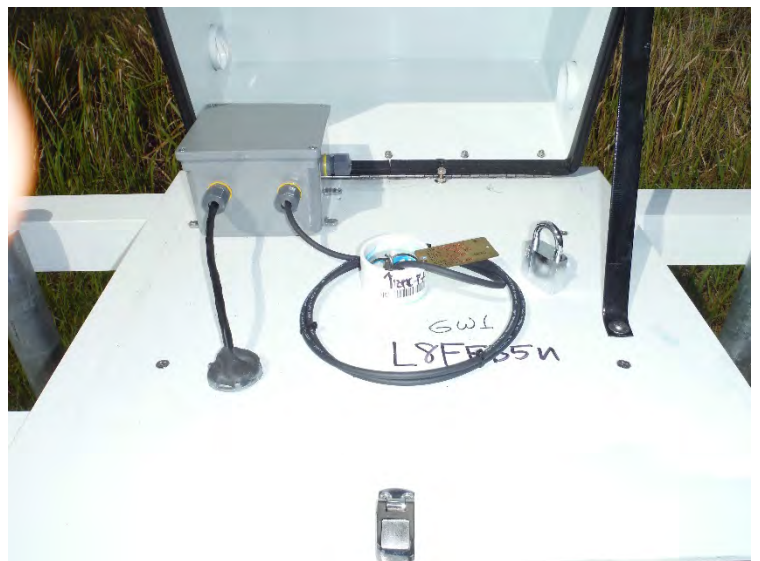
Brass Tag + Reference Mark
5M GW2 Southerly well)



Brass Tag Close Up
5U GW1 (Middle well)



Brass Tag + Reference Mark
5U GW1 (Middle well)

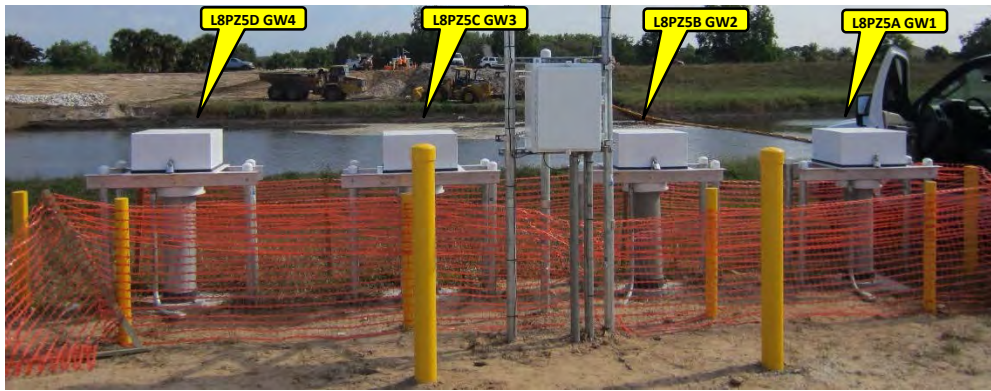


Site Name: L8PZ5 Well Site		Date of Field Work: 06-jan-15
Party Chief: Ebanks	Field Book Name/Number SCADA11	Page Number(s) 32
Site Benchmark Name L8 DIVIDE	Benchmark Elevation (NAVD88) 15.20'	Datum Offset to NGVD29 1.46'
Reference Elevations (NAVD 88) 23.08' L8PZ5A GW1 24.02' L8PZ5B GW2 24.10' L8PZ5C GW3 24.21' L8PZ5D GW4		Existing Tag Elevations (Datum) NONE
Latitude 26° 43' 24.4"		Longitude 80° 21' 49.1"

Notes:

Photographs

Overall Site



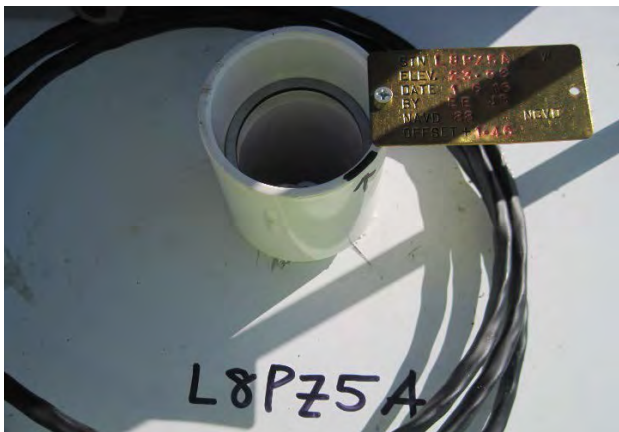
L8 Divide BM 125' Northerly

Looking East

L8 Divide Benchmark Close Up



**Brass Tag Close Up
L8PZ5A GW1 (Southerly)**



**Brass Tag + Reference Mark
L8PZ5A GW1 (Southerly)**



Brass Tag Close Up
L8PZ5B GW2 (Middle South)



Brass Tag + Reference Mark
L8PZ5BGW2 (Middle South)



Brass Tag Close Up
L8PZ5C GW3 (Middle North)



Brass Tag + Reference Mark
L8PZ5C GW3 (Middle North)



Brass Tag Close Up
L8PZ5 GW4 (Northerly)



Brass Tag + Reference Mark
L8PZ5 GW4 (Northerly)



Site Name: L8PZ8 Well Site		Date of Field Work: 06-jan-15
Party Chief: Ebanks	Field Book Name/Number SCADA11	Page Number(s) 32
Site Benchmark Name Mackerel	Benchmark Elevation (NAVD88) 15.20'	Datum Offset to NGVD29 1.46'
Reference Elevations (NAVD 88) 27.81' L8PZ8A GW1 27.71' L8PZ8B GW2		Existing Tag Elevations (Datum) NONE
Latitude 26° 43' 24.31"	Longitude 80° 21' 45.34"	

Notes:

Photographs

Overall Site



PBCo Mackerel 430'±

Looking East

**Mackerel
Benchmark Close Up**



**Brass Tag Close Up
L8PZ8A GW1 (Southerly)**



**Brass Tag + Reference Mark
L8PZ8A GW1 (Southerly)**



Brass Tag Close Up
L8PZ8B GW2 (Northerly)



Brass Tag + Reference Mark
L8PZ8BGW2 (Northerly)



Ebanks
Bobsen

Sec 20 TWP 43 Rge 40

Establish Elevation For Well Cluster L-8P25
L-8 @ Reservoir

HTA	+	HTA	-	Elev	Remarks
BM "L-8 DEVIDE"	10.37	25.57		15.20	(1.46 offset NAVD88)
L-8P25A			1.59	23.98	
L-8P25B			1.55	24.02	
L-8P25C			1.47	24.10	
L-8P25D			1.76	24.21	
BM "L-8 DEVIDE"	10.37		15.20		✓

Sec. 20 TWP 43 Rge 40

Establish Elevation For Wells L-8P28

HTA	+	HTA	-	Elev	Remarks
BM MAKEREL PBC	3.90	27.75		23.85	FWD.
TP.			3.52	24.23	
	4.88	29.11			
L-8P28A			1.30	27.81	
L-8P28B			1.40	27.71	
					<u>R+</u>
L-8P28B	1.49	29.20			
L-8P28A			1.39	27.81	
TP.			4.97	24.23	
	3.59	27.82			
BM MAKEREL PBC.	3.97	23.85			

Loc. TWP Rge Ebanks
Bobsein

Establish REF Elev for wells (L-8 FEB 3)
@ L-8 Reservoir

HTA	+	H.I.	-	Elev	Remarks
BM "L-8 FEB 3"	5.18	30.77		31.59	FND 5.5' OF CENTERWELL
L-8 FEB 3L			0.393	30.377	
L-8 FEB 3M			0.674	30.094	
L-8 FEB 3U			0.666	30.11	
BM "L-8 FEB 3"	5.18			31.59	

Loc. TWP Rge Ebanks
Bobsein

Establish REF Elev for wells (L-8 FEB 2) @ L-8 Reser-

HTA	+	H.I.	-	Elev	Remarks
BM "L-8 FEB 2"	5.23	33.98		28.75	FND NE OF NW WELL
L-8 FEB 2L			0.64	33.34	
L-8 FEB 2M			0.523	33.457	
L-8 FEB 2U			0.85	33.13	
BM "L-8 FEB 2"	5.23			28.75	

hac.

TWP

Rge

Ebanks
Bobsein

Establish REF Elev. for Wells @ L-8 FEB 1
L-8 Reservoir

HTA	+	H.I.	-	Elev	Remarks
BM L8 FEB 1	4.75	34.57		29.82	
L8 FEB 1 "L"			0.27	34.30	
L8 FEB 1 "M"			0.40	34.17	
L8 FEB 1 "U"			0.49	34.08	
BM L8 FEB 1			4.75	29.82	

hac.

TWP

Rge

Ebanks
Bobsein

Establish REF Elev for Wells @ L-8 FEB 4
L-8 Reservoir

HTA	+	H.I.	-	Elev	Remarks
BM L8 FEB 4	2.03	20.08		18.05	FB.
L8 FEB 4 L Center			1.01	19.07	
L8 FEB 4 M (North)			1.00	19.08	
L8 FEB 4 U (South)			1.015	19.065	
BM L8 FEB 4			2.03	18.05	

hec. TWP Rge Ebanks
Bobsein

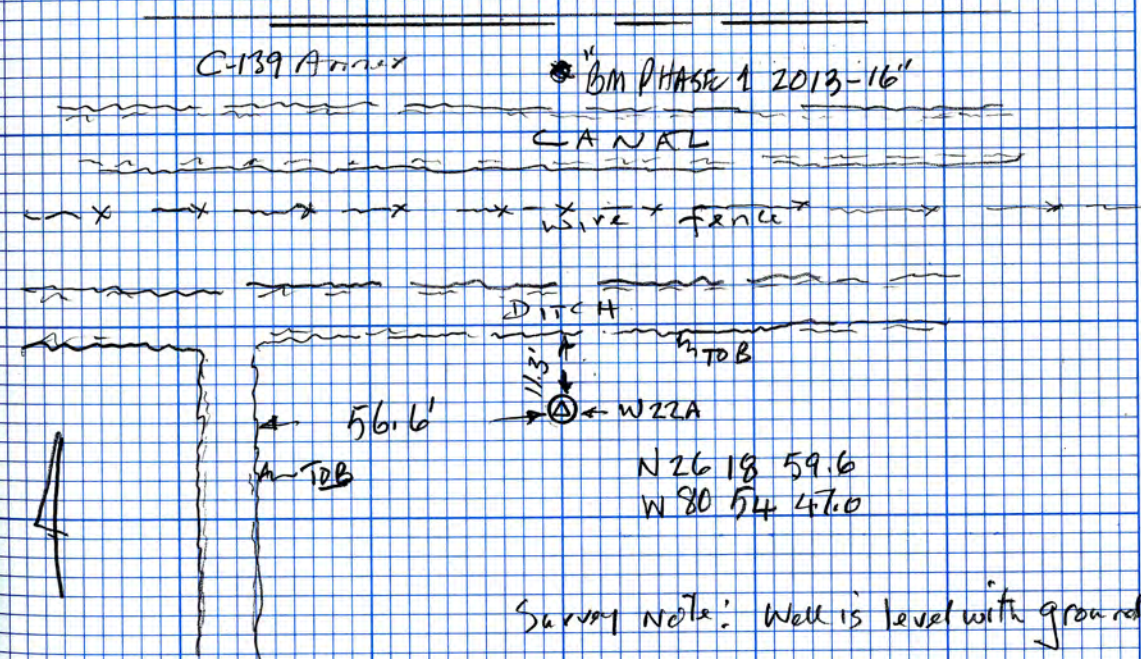
Establish Ref. Elev. For Well @ 7-8 FEB 15
L8 Reservoir

HTA	+	H.I.	-	Elev	Remarks
BM L8 RES SITE 6 2010	4.13	19.87		15.74	
L-8 FEB 4 L (North)			0.55	19.32	
L8 FEB 4 M			0.94	18.93	
L-8 FEB 4 U (CENTER)			1.04	18.83	
BM L8 RES SITE 6 2010	4.13			15.74	
TOP OF LEVBE (CHECK)			(1.96)	17.91	

hec 15 TWP 48 Rge 34 Ebanks
Hudson
Giannmarco

Establish Elev. for Well W 22A
@ C-139 Annex (Seminole Indian Reservation)

HTA	+	H.I.	-	Elev	Remarks
BM PHASE 1 2013-16	5.46	20.30		14.84	(WOODS) (1.42 OFFSET)
W 22A			5.28	15.02	✓ =
		<u>8+</u>			
	5.20	20.22			
BM PHASE 1 2013-16			5.38	14.84	




Survey note: Well is level with ground.



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 8/07

DESIGNATION: L8FEB1		PROJECT: L-8 Reservoir	
ESTABLISHED BY: SOUTH FLOIRDA WATER MANAGEMENT DISTRICT		SURVEYOR: Mike Horan	
RECOVERED BY:		DATE ESTABLISHED: 7/28/2014	
GEOGRAPHIC POSITION			
SECTION 17	TOWNSHIP 43 SOUTH	RANGE 40 EAST	
COUNTY PALM BEACH		NAME OF QUADRANGLE LOXAHATCHEE (1984)	
		GEOGRAPHIC INDEX OF QUAD: 2203	
HORIZONTAL DATUM: 1927 1983 Other _____ ZONE (E) or W			
VERTICAL DATUM: MSL 1929 1988 Other _____			
CONTROL ACCURACY: HORIZONTAL 1 2 (3) VERTICAL 1 2 (3)			
STATE PLANE COORDINATES	X = 863683.45	Y= 874789.75	NAVD 88 EL. 29.821 NGVD 29 EL.
LATITUDE: N 26°44'20.139"		LONGITUDE: W 80°21'51.017"	
RECOVERY DESCRIPTION			
Stamping: L8 FEB 1 BM 2014			
<p>To Reach: From the intersection of the Turnpike entrance North bound and State Road 80 (Southern Blvd.) in West Palm Beach, proceed West on State Road 80 12.45 miles to the West side of South Florida Water Management District's (SFWMD's) Levee 8; Turn right and proceed North along the West side of SFWMD's Levee 8 shell rock roadway 3.65 miles; Turn left (West) and proceed down and up the levee 400 feet more or less to well site "L8 FEB 1" and station location.</p> <p>Station is located 3.7 feet East of the center of 3 wells with a metal witness sign attached to the 8-inch well casing and 0.5 feet below ground.</p> <p>The station is a 1-1/4 inch (inside diameter) galvanized pipe set in concrete with a SFWMD aluminum cap stamped "L8 FEB 1 BM 2014."</p> <p>NGS source benchmark: M692 2007 (DL7818) Notable Land marks: Northeast corner of the L8 Reservoir.</p>			
FIELD BOOK MISC 6 T PAGES: 19 & 20			
Picture			
			



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 8/07

SKETCH

MISC FB 6-T 7-28-14

20

COMMENTS "FEB1"

BM LB FEB1 2014
LB RESERVOIR

LOCATED @ NE CORNER OF

REF MARK LB FEB1 U

V NOTEN E. TOP of 8" PVC WELL CASING

REF MARK LB FEB1 M

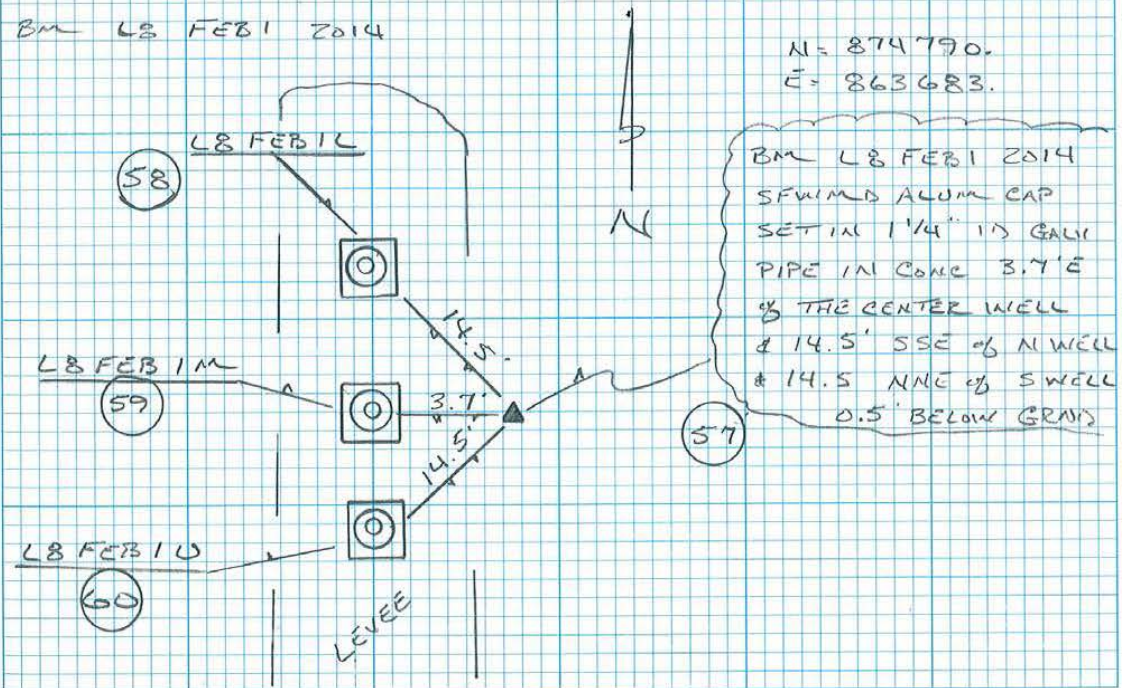
REF MARK LB FEB1 C

GRND @ LB FEB1 L

GRND @ LB FEB1 M

GRND @ LB FEB1 U


BM LB FEB1 2014





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 8/07

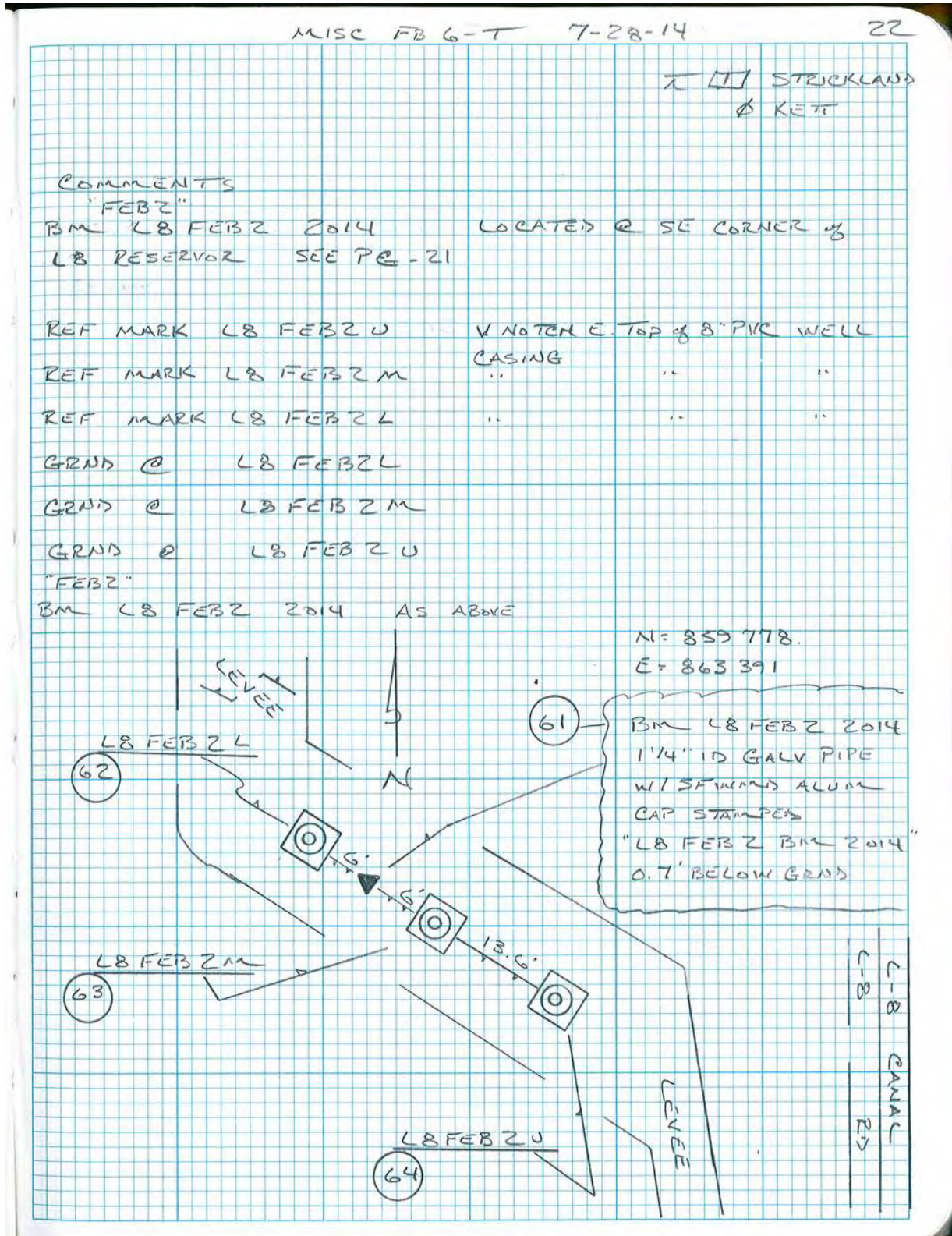
DESIGNATION: L8FEB2		PROJECT: L-8 Reservoir	
ESTABLISHED BY: SOUTH FLOIRDA WATER MANAGEMENT DISTRICT		SURVEYOR: Mike Horan	
RECOVERED BY:		DATE ESTABLISHED: 7/28/2014	
GEOGRAPHIC POSITION			
SECTION 29	TOWNSHIP 43 SOUTH	RANGE 40 EAST	
COUNTY PALM BEACH	NAME OF QUADRANGLE LOXAHATCHEE (1984)		
	GEOGRAPHIC INDEX OF QUAD: 2203		
HORIZONTAL DATUM: 1927 1983 Other _____ ZONE (E) or W			
VERTICAL DATUM: MSL 1929 1988 Other _____			
CONTROL ACCURACY: HORIZONTAL 1 2 (3) VERTICAL 1 2 (3)			
STATE PLANE COORDINATES	X = 863390.61	Y= 859777.70	NAVD 88 EL. 28.750 NGVD 29 EL.
LATITUDE: N 26°41'51.484"		LONGITUDE: W 80°21'55.072"	
RECOVERY DESCRIPTION			
Stamping: L8 FEB 2 BM 2014			
<p>To Reach: From the intersection of the Turnpike entrance North bound and State Road 80 (Southern Blvd.) in West Palm Beach, proceed West on State Road 80 12.45 miles to the West side of South Florida Water Management District's (SFWMD's) Levee 8; Turn right and proceed North along the West side of SFWMD's Levee 8 shell rock roadway 0.8 of a mile; Turn left (West) and proceed down and up the levee 400 feet more or less to well site "L8 FEB 2" and station location.</p> <p>Station is located 6 feet Southeast of the most Northwest well with a metal witness sign attached to the 8 inch well casing, 6 feet northwest of the center well of the three (3) wells, and 0.7 feet below ground.</p> <p>The station is a 1-1/4 inch (inside diameter) galvanized pipe set in concrete with a SFWMD aluminum cap stamped "L8 FEB 2 BM 2014."</p>			
NGS source benchmark: J692 2007 (DL7815)			
FIELD BOOK MISC 6 T PAGES: 21 & 22			
Picture			
			



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 8/07

SKETCH





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 8/07

DESIGNATION: L8FEB3		PROJECT: L-8 Reservoir	
ESTABLISHED BY: SOUTH FLOIRDA WATER MANAGEMENT DISTRICT RECOVERED BY:		SURVEYOR: Mike Horan DATE ESTABLISHED: 7/29/2014	
GEOGRAPHIC POSITION			
SECTION 32	TOWNSHIP 43 SOUTH	RANGE 40 EAST	
COUNTY PALM BEACH	NAME OF QUADRANGLE LOXAHATCHEE (1984) GEOGRAPHIC INDEX OF QUAD: 2203		
HORIZONTAL DATUM: 1927 1983 Other _____ ZONE E or W			
VERTICAL DATUM: MSL 1929 1988 Other _____			
CONTROL ACCURACY: HORIZONTAL 1 2 3 VERTICAL 1 2 3			
STATE PLANE COORDINATES	X = 863448.63	Y = 857099.93	NAVD 88 EL. 31.592 NGVD 29 EL.
LATITUDE: N 26°41'24.963"		LONGITUDE: W 80°21'54.579"	
RECOVERY DESCRIPTION			
Stamping: L8 FEB 3 BM 2014			
<p>To Reach: From the intersection of the Turnpike entrance North bound and State Road 80 (Southern Blvd.) in West Palm Beach, proceed West on State Road 80 12.45 miles to the West side of South Florida Water Management District's (SFWMD's) Levee 8; Turn right and proceed North along the West side of SFWMD's Levee 8 shell rock roadway 0.3 of a mile; Turn left (West) and proceed down and up the levee 350 feet more or less to well site "L8 FEB 3" and station location.</p> <p>Station is located 5.5 feet East of the center of the 3 wells, with a metal witness sign attached to an 8-inch well casing, and 0.5 of a foot below ground.</p> <p>The station is a 1-1/4 inch (inside diameter) galvanized pipe set in concrete with a SFWMD aluminum cap stamped "L8 FEB 3 BM 2014."</p>			
NGS source benchmark: J692 2007 (DL7815)			
FIELD BOOK MISC 6 T PAGES: 23 & 24			



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 8/07

SKETCH

MISC FB 6-T 7-29-14

24

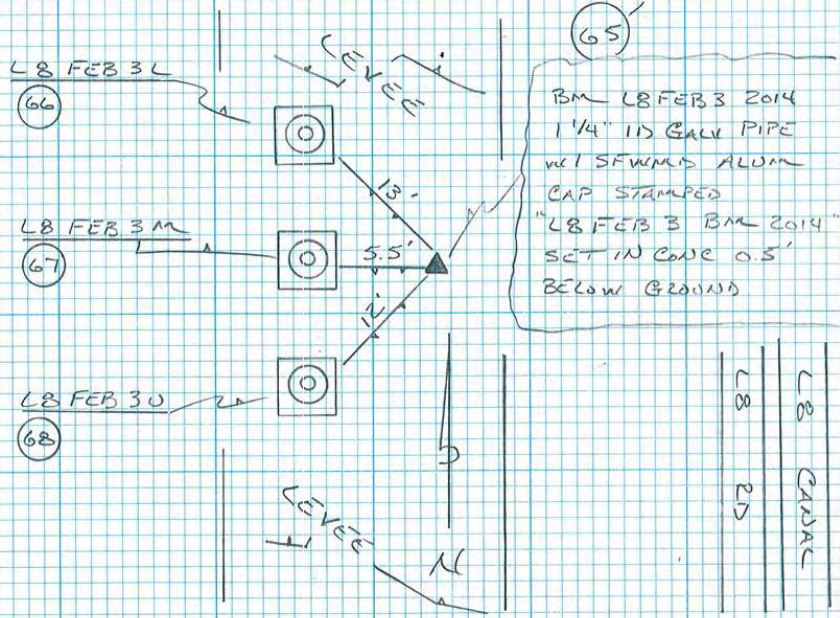
STRICKLAND & KETT

COMMENTS

"FEB 3"
BM LB FEB 3 2014 SEE PG-23

REF MARK	LB FEB 3 U	V NOTCH E. TOP of 8" PVC WELL CASING
REF MARK	LB FEB 3 M	" " "
REF MARK	LB FEB 3 L	" " "
GRND @	LB FEB 3 L	
GRND @	LB FEB 3 M	
GRND @	LB FEB 3 U	
BM	LB FEB 3 2014	AS ABOVE

N = 857.100.
E = 863.449.





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 8/07

DESIGNATION: L8FEB4	PROJECT: L-8 Reservoir
ESTABLISHED BY: SOUTH FLOIRDA WATER MANAGEMENT DISTRICT	SURVEYOR: Mike Horan
RECOVERED BY:	DATE ESTABLISHED: 7/21/2014

GEOGRAPHIC POSITION

SECTION 17	TOWNSHIP 43 SOUTH	RANGE 40 EAST
COUNTY PALM BEACH	NAME OF QUADRANGLE LOXAHATCHEE (1984)	
	GEOGRAPHIC INDEX OF QUAD: 2203	
HORIZONTAL DATUM: 1927 1983 Other _____ ZONE (E) or W		
VERTICAL DATUM: MSL 1929 1988 Other _____		
CONTROL ACCURACY: HORIZONTAL 1 2 (3) VERTICAL 1 2 (3)		
STATE PLANE COORDINATES	X = 859735.96	Y = 869533.96
		NAVD 88 EL. 18.053
		NGVD 29 EL.
LATITUDE: N 26°43'228.283"		LONGITUDE: W 80°22'34.841"

RECOVERY DESCRIPTION

Stamping: **L8 FEB 1 BM 2014**

To Reach:

From the intersection of the Turnpike entrance North bound and State Road 80 (Southern Blvd.) in West Palm Beach, proceed West on State Road 80 12.45 miles to the West side of South Florida Water Management District's (SFWMD's) Levee 8; Turn right and proceed North along the West side of SFWMD's Levee 8 shell rock roadway 3.65 miles; Turn left (West) and proceed down and up the levee +/- 350 feet to the top of levee; continue West 0.7 of a mile to the West side of the L8 Reservoir; turn left (South) along the top of concrete levee 1.0 mile to well site L8 FEB 4 and station location on the left.

. The station is located on the East top of the concrete step of the concrete levee having a metal witness sign attached to the concrete levee and 43.2 feet East of the center of 3 wells.

The station is a 1-1/4 inch (inside diameter) galvanized pipe set in concrete with a SFWMD aluminum cap stamped "L8 FEB 4 BM 2014."

Source benchmark: **BM Site 5**

FIELD BOOK **MISC 6 T** PAGES: **16 & 17**

Picture





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 8/07

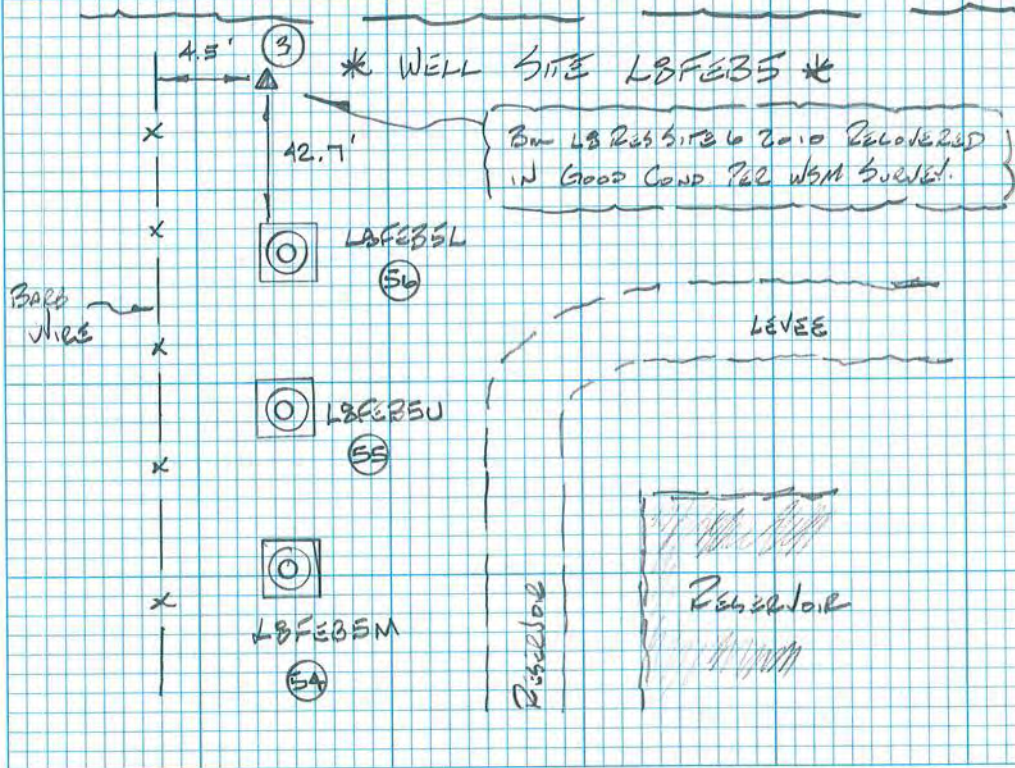
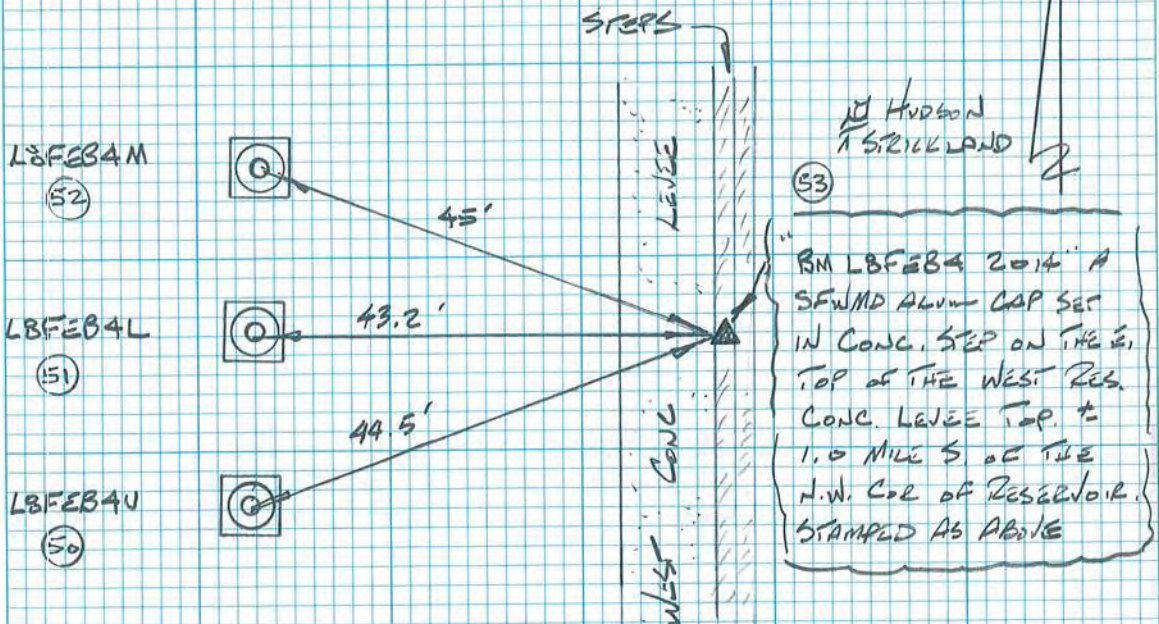
SKETCH

17

MISC FB 10-5 7/21/14

COND FB Pg. 116

* WELL SITE LBFEB4 *





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY WEST PALM BEACH		PROJECT L-8		DESIGNATION L8 RES SITE 6	
SECTION <u>17</u>		TOWNSHIP 43 S		RANGE 40 E	
GEOGRAPHIC INDEX OF QUAD					
Established by <u>WHIDDEN SURVEYING</u> _ Recovered by			NAME OF QUADRANGLE <u>LOXAHATCHEE (1984)</u>		
SURVEYOR <u>C. LINDSTEDT</u> DATE <u>8/16/2010</u>			FIELD BOOK _____ PAGES		
HORIZONTAL DATUM: 1927 () 1983 () Other _____ (circle one) ZONE (E) or W					
VERTICAL DATUM: MSL (1929) (1988) Other _____ (circle one)					
CONTROL ACCURACY: HORIZONTAL 1 2 (3) <u>+/-3M</u> (circle one) VERTICAL 1 2 (3)					
STATE PLANE COORDINATES		X 859786.20 USFT	Y 875100.07 USFT	EL 17.18 FEET (29) EL 15.74 FEET (88)	
LATITUDE N 26 44 23.403			LONGITUDE W 080 22 33.986		
DESCRIPTION					
<p>To Reach:</p> <p>THE MARK IS ABOUT 18.0 MI WEST OF WEST PALM BEACH IN SECTION 17, TOWNSHIP 43 SOUTH, RANGE 40 EAST. TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 80 (SOUTHERN BOULEVARD), STATE ROAD 7, U.S. HIGHWAY 441 AND U.S. HIGHWAY 98 ON THE SOUTHWEST SIDE OF WEST PALM BEACH, GO WEST ON U.S. HIGHWAY 441, 98 AND STATE ROAD 80 FOR 2.8 MI TO THE JUNCTION OF FOREST HILL BOULEVARD ON THE LEFT, CONTINUE WEST ON U.S. HIGHWAY 441, 98 AND STATE ROAD 80 FOR 3.95 MI TO THE JUNCTION OF SEMINOLE PRATT WHITNEY ROAD ON THE RIGHT, CONTINUE WEST ON U.S. HIGHWAY 441, 98 AND STATE ROAD 80 FOR 3.9 MI TO THE ENTRANCE OF PALM BEACH AGGREGATE ON THE RIGHT. TURN RIGHT ON TO ENTRANCE ROAD AND GO NORTH FOR 1.7 MI. TURN RIGHT ON A LEVEE ROAD AND GO EAST FOR 0.18 MILES TO A BEND IN THE LEVEE ROAD. TURN LEFT AND GO NORTH FOR 0.09 MILES TO A BEND IN THE LEVEE ROAD. TURN LEFT AND GO WEST FOR 0.16 MILES TO BEND IN LEVEE ROAD. TURN RIGHT ON LEVEE ROAD AND GO NORTH FOR 0.34 MILES TO A BEND IN THE LEVEE ROAD. TURN LEFT ON LEVEE ROAD AND GO WEST FOR 0.32 TO BEND IN THE LEVEE ROAD. TURN RIGHT ON LEVEE ROAD AND GO 1.64 MILES MARKS ON THE LEFT. MONUMENT IS A 12" ROUND POURED IN PLACE CONCRETE MONUMENT WITH A SOUTH FLORIDA WATER MANAGEMENT DISTRICT ALUMINUM DISK STAMPED "L8 RES SITE 6 LB 7232 2010"</p>					



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

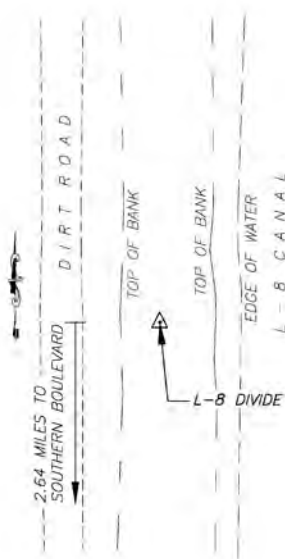
Rev. 4/08

COUNTY Palm Beach	PROJECT L-8 Divide – 1	DESIGNATION L-8 Divide
SECTION 20	TOWNSHIP 43 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE Loxahatchee		
Established by <u>Zeman, PSM #5655</u>		Recovered by <u>Wantman Group, Inc.</u>
DATE <u>01-28-13</u> (Established or Recovered)	FIELD BOOK <u>451</u>	PAGE <u>29</u>
HORIZONTAL DATUM: 1927 (1983) ADJ ____ OTHER ____ (circle one) ZONE (E) or W		
STATE PLANE COORDINATES:	N 869282.7917 ft	E 863925.9031 ft
LATITUDE: N 26°43'25.5729"	LONGITUDE: W (-)80°21'48.6654"	
VERTICAL DATUM: MSL 1929 1988 Other ____ (circle one)		
VERTICAL DATUM: MSL 1929 (1988) Other ____ (circle one)		15.20 EL. ft
CONTROL ACCURACY: HORIZONTAL 1 2 (3) SUB-METER (circle one) VERTICAL 1 2 (3)		

DESCRIPTION

To Reach: From the intersection State Road 7 / U.S. 441 and State Road 80 (Southern Boulevard) proceed West for 10.00 miles. Turn right on the Westerly dirt access road for Levee L-8, passing through a SFWMD gate, for 2.64 miles to the bench mark on the right. Bench mark is an NGS Class "B" rod mark driven to refusal. Rod is set in a magnesium collar with lid stamped "L-8 Divide".



NGS Vertical Points: "L 692" & "K 692"





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 8/07

DESIGNATION: MACKEREL		PROJECT: L-8 Reservoir	
ESTABLISHED BY: PALM BEACH COUNTY RECOVERED BY: SOUTH FLORIDA WATER MANAGEMENT DISTRICT		SURVEYOR: Mike Horan DATE RECOVERED 7/21/2014	
GEOGRAPHIC POSITION			
SECTION 17	TOWNSHIP 43 SOUTH	RANGE 40 EAST	
COUNTY PALM BEACH		NAME OF QUADRANGLE LOXAHATCHEE (1984) GEOGRAPHIC INDEX OF QUAD: 2203	
HORIZONTAL DATUM: 1927 (1983) 1990 Adjusted by Palm Beach County ZONE (E) or W			
VERTICAL DATUM: MSL 1929 (1988) Other _____			
CONTROL ACCURACY: HORIZONTAL 1 2 (3) VERTICAL 1 2 (3)			
PALM BEACH COUNTY STATE PLANE OORDINATE	X = 864211.541	Y= 869590.030	NAVD 88 EL. 18.053 NGVD 29 EL.
LATITUDE: N 26°43'28.61858"		LONGITUDE: W 80°21'45.47923"	
RECOVERY DESCRIPTION			
Stamping: MACKEREL			
<p>To Reach: From the intersection of Florida's Turnpike entrance North bound and State Road 80 (Southern Boulevard) in West Palm Beach Florida, proceed West on State Road 80, 12.35 miles to the East Levee road of South Florida Water Management District's (SFWMD's) Levee 8; Turn right (North), along the East road, 125 feet more or less to a locked metal gate; Pass through gate and continue North 2.65 miles to SFWMD's L8 PZ8 well site (two wells); continue North 430 feet more or less to station location.</p> <p>The station is located 12 feet East of a Palm Beach County metal witness post and sign. The station is a Palm Beach County Geodetic survey brass disk in concrete stamped "MACKEREL."</p>			
Source benchmark: SFWMD L8 DIVIDE			
FIELD BOOK MISC 6 T PAGE: 27			
Picture			
			



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 8/07

SKETCH

MISC FB 6-T

7-30-14

27

T M STEICKLANDS
of KETI

COMMENTS

BM MACKEREL FD PALM BEACH CO. BRASS DISK PG. 26

REF MARK LB PZ 8A VNOTCH NW SIDE of 4"x4"

REF MARK LB PZ 8B ALUM WELL CASING " " " "

GRND @ LB PZ 8B

GRND @ LB PZ 8A

BM MACKEREL AS ABOVE

FD "MACKEREL"
PALM BEACH COUNTY HI
CONTROL BRASS DISK

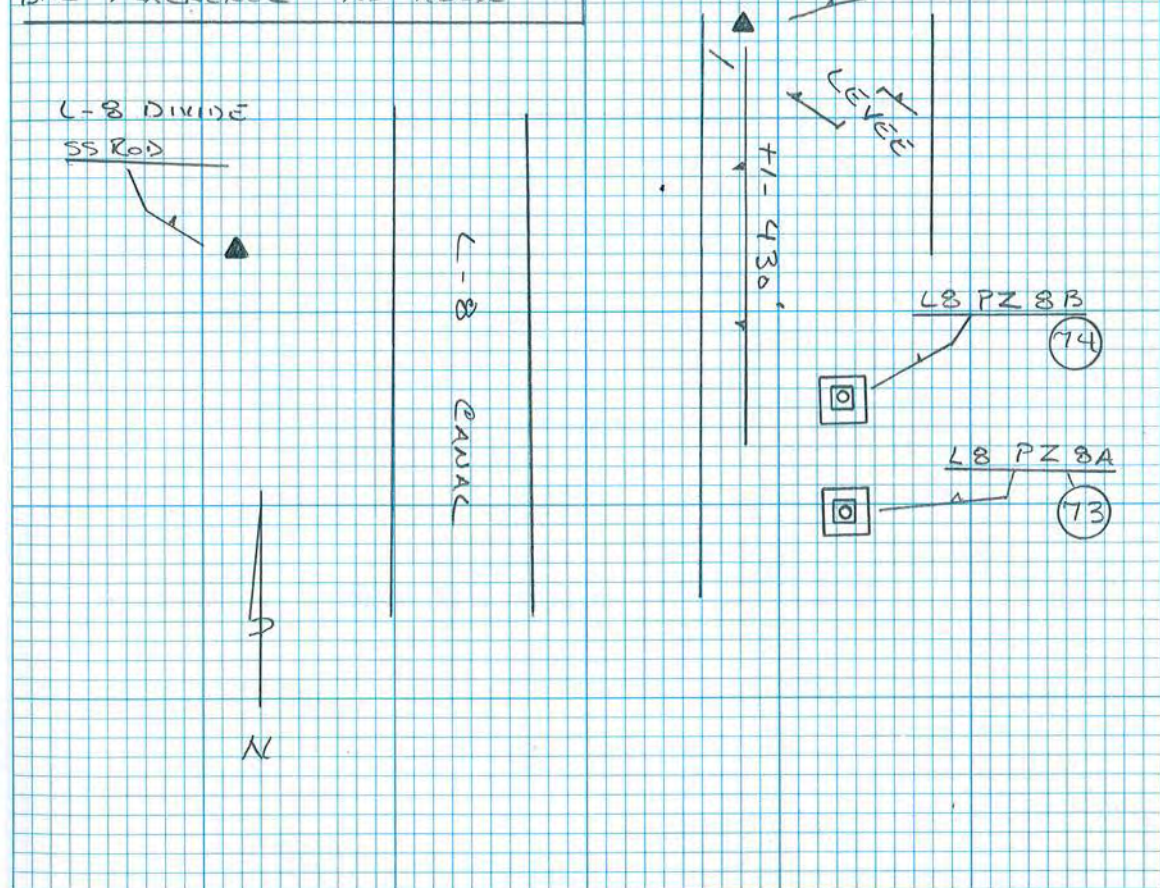
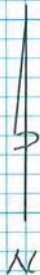
L-8 DIVINE
SS ROD

L-8 CANAL

+/- 430'

LB PZ 8B (74)

LB PZ 8A (73)



REGISTRATION WORKSHEET - L8FEB1 Activation

Site Name: **L8FEB1** Today's Date: **1/29/2015** Type Recorder: **CR1000**
 Activity: **Activation** Effective Date: Start Date of Data :
 Customer: **C. Gomez/SCADA Eng.** Bus. Area: **SCADA** Agency: **SFWMD** Internal Order:
 Project Manager: **E. Ebanks** Bus. Area: **InfrStr.Mgt/Survey** Agency: **SFWMD** Fund:
 Contract #:
 Project Name: Legal Mandate:

Short Common Name / Description:	
Proj. Mgr. Notes:	NEW Well Cluster...
Site Directions:	L-8.... 3.65mils north of SR 80 (West side)... 600ft +/- west of Levee...
Site Address (if any):	

Transportation: **Std Vehicle** Lock type or combination: **Abloy S** #
 Recorder Location/Purpose: **Stand-Alone Recorder (Non-Flow Site)** Structure Type: **New Structure**
 Array ID Configuration table attached

SURVEY INFORMATION

B.M. Elevation: **29.82ft** Date: **7/28/2014** Stamp: **L8FEB1 BM 2014**
 Agency: **SFWMD** Type: **ALUM** Datum: **NAVD 88**
 Benchmark Location/ Description: Located: 3.7ft +/- East of Center Well, 0.5ft below ground... (NGVD 29 Offset = + 1.46ft)..

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
L8FEB1L		34.30ft	1/28/2015	34.30ft			29.82ft	NAVD 88	Mark set on edge of PVC Well... denoted by Brass Tag
L8FEB1M		34.17ft	1/28/2015	34.17ft			29.82ft	NAVD 88	Mark Set on edge of PVC Well... Denoted by Brass Tag
L8FEB1U		34.08ft	1/28/2015	34.08ft			29.82ft	NAVD 88	Mark Set on Edge of PVC 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								
L8FEB1L																
L8FEB1M																
L8FEB1U																

COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
L8FEB1L	26.44 19.8	80 21 54.6			17	43	40	Loxahatchee		Palm Beach	
L8FEB1M	26.44 19.8	80 21 54.6			17	43	40	Loxahatchee		Palm Beach	
L8FEB1U	26.44 19.8	80 21 54.6			17	43	40	Loxahatchee		Palm Beach	

REGISTRATION WORKSHEET - L8FEB2 Activation

Site Name: **L8FEB2** Today's Date: **1/21/2015** Type Recorder: **CR1000**
 Activity: **Activation** Effective Date: Start Date of Data :
 Customer: **C. Gomez/SCADA Eng.** Bus. Area: **SCADA** Agency: **SFWMD** Internal Order:
 Project Manager: **E. Ebanks** Bus. Area: **InfrStr.Mgt/Survey** Agency: **SFWMD** Fund:
 Contract #:
 Project Name: Legal Mandate:

Short Common Name / Description:

Proj. Mgr. Notes: **NEW Well Cluster...**

Site Directions: **L-8.... 0.85mils north of SR 80 (West side)... 350ft +/- west of Levee...**

Site Address (if any):

Transportation: **Std Vehicle** Lock type or combination: **Abloy S** #

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

Array ID Configuration table attached

SURVEY INFORMATION

B.M. Elevation: **28.75ft** Date: **8/1/2014** Stamp: **L-8FEB2 2014**
 Agency: **SFWMD** Type: **ALUM** Datum: **NAVD 88**

Benchmark Location/ Description: **Located: 7.9ft +/- SEast of NW Well, 0.5ft below ground... (NGVD 29 Offset = + 1.46ft)..**

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
L8FEB2L		33.34ft	1/20/2015	33.34ft			28.75ft	NAVD 88	Mark set on edge of PVC Well... denoted by Brass Tag
L8FEB2M		33.457ft	1/20/2015	33.457ft			28.75ft	NAVD 88	Mark Set on edge of PVC Well... Denoted by Brass Tag
L8FEB2U		33.13ft	1/20/2015	33.13ft			28.75ft	NAVD 88	Mark Set on Edge of PVC 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									
L8FEB2L																	
L8FEB2M																	
L8FEB2U																	

COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
L8FEB2L	26 41 52	80 21 55			29	43	40	Loxahatchee		Palm Beach	
L8FEB2M	26 41 52	80 21 55			29	43	40	Loxahatchee		Palm Beach	
L8FEB2U	26 41 52	80 21 55			29	43	40	Loxahatchee		Palm Beach	

REGISTRATION WORKSHEET - L8FEB3 Activation

Site Name: **L8FEB3** Today's Date: **1/21/2015** Type Recorder: **CR1000**
 Activity: **Activation** Effective Date: Start Date of Data :
 Customer: **C. Gomez/SCADA Eng.** Bus. Area: **SCADA** Agency: **SFWMD** Internal Order:
 Project Manager: **E. Ebanks** Bus. Area: **InfrStr.Mgt/Survey** Agency: **SFWMD** Fund:
 Contract #:
 Project Name: Legal Mandate:

Short Common Name / Description:	
Proj. Mgr. Notes:	NEW Well Cluster...
Site Directions:	L-8.... 0.33mils north of SR 80 (West side)... 250ft +/- west of Levee...
Site Address (if any):	

Transportation: **Std Vehicle** Lock type or combination: **Abloy S** #
 Recorder Location/Purpose: **Stand-Alone Recorder (Non-Flow Site)** Structure Type: **New Structure**
 Array ID Configuration table attached

SURVEY INFORMATION

B.M. Elevation: **31.59ft** Date: **8/1/2014** Stamp: **L-8FEB3 2014**
 Agency: **SFWMD** Type: **ALUM** Datum: **NAVD 88**

Benchmark Location/ Description	Located: 5.5ft East of Center Well, 0.5ft below ground... (NGVD 29 Offset = + 1.46ft)..
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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
L8FEB3L		36.377ft	1/20/2015	36.377ft			31.59ft	NAVD 88	Mark set on edge of PVC Well... denoted by Brass Tag
L8FEB3M		36.096ft	1/20/2015	36.096ft			31.59ft	NAVD 88	Mark Set on edge of PVC Well.. Denoted by Brass Tag
L8FEB3U		36.11ft	1/20/2015	36.11ft			31.59ft	NAVD 88	Mark Set on Edge of PVC 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									
L8FEB3L																	
L8FEB3M																	
L8FEB3U																	

COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
L8FEB3L	26 41 25	80 21 54			32	43	40	Loxahatchee		Palm Beach	
L8FEB3M	26 41 25	80 21 54			32	43	40	Loxahatchee		Palm Beach	
L8FEB3U	26 41 25	80 21 54			32	43	40	Loxahatchee		Palm Beach	

REGISTRATION WORKSHEET - L8FEB4 Activation

Site Name: **L8FEB4** Today's Date: **1/29/2015** Type Recorder: **CR1000**
 Activity: **Activation** Effective Date: Start Date of Data :
 Customer: **C. Gomez/SCADA Eng.** Bus. Area: **SCADA** Agency: **SFWMD** Internal Order:
 Project Manager: **E. Ebanks** Bus. Area: **InfrStr.Mgt/Survey** Agency: **SFWMD** Fund:
 Contract #:
 Project Name: Legal Mandate:

Short Common Name / Description:

Proj. Mgr. Notes: **NEW Well Cluster...**

Site Directions: **L-8.... 3.65mls north of SR 80 (West side), thence 0.78mls west along North Levee of Reservoir to NW corner, thence South along Westside of Reservoir for 1.08mls to station location...**

Site Address (if any):

Transportation: **Std Vehicle** Lock type or combination: **Abloy S** #

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

Array ID Configuration table attached

SURVEY INFORMATION

B.M. Elevation: **18.05ft** Date: **7/21/2014** Stamp: **L8FEB4 BM 2014**
 Agency: **SFWMD** Type: **ALUM** Datum: **NAVD 88**

Benchmark Location/ Description: **Located: 43.2ft +/- East of Center Well, Top of Concrete Berm... (NGVD 29 Offset = + 1.46ft)..**

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
L8FEB4L		19.07ft	1/28/2015	19.07ft			18.05ft	NAVD 88	Mark set on edge of PVC Well... denoted by Brass Tag
L8FEB4M		19.08ft	1/28/2015	19.08ft			18.05ft	NAVD 88	Mark Set on edge of PVC Well... Denoted by Brass Tag
L8FEB4U		19.065ft	1/28/2015	19.065ft			18.05ft	NAVD 88	Mark Set on Edge of PVC 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								
L8FEB4L																
L8FEB4M																
L8FEB4U																

COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
L8FEB4L	26 43 26.9	80 22 35.4			20	43	40	Loxahatchee		Palm Beach	
L8FEB4M	26 43 26.9	80 22 35.4			20	43	40	Loxahatchee		Palm Beach	
L8FEB4U	26 43 26.9	80 22 35.4			20	43	40	Loxahatchee		Palm Beach	

REGISTRATION WORKSHEET - L8FEB5 Activation

Site Name: **L8FEB5** Today's Date: **1/29/2015** Type Recorder: **CR1000**
 Activity: **Activation** Effective Date: Start Date of Data :
 Customer: **C. Gomez/SCADA Eng.** Bus. Area: **SCADA** Agency: **SFWMD** Internal Order:
 Project Manager: **E. Ebanks** Bus. Area: **InfrStr.Mgt/Survey** Agency: **SFWMD** Fund:
 Contract #:
 Project Name: Legal Mandate:

Short Common Name / Description:	
Proj. Mgr. Notes:	NEW Well Cluster...
Site Directions:	L-8.... 3.65mls north of SR 80 (West side), thence 0.78mls west along North Levee of Reservoir to NW corner and station location...
Site Address (if any):	

Transportation: **Std Vehicle** Lock type or combination: **Abloy S** #
 Recorder Location/Purpose: **Stand-Alone Recorder (Non-Flow Site)** Structure Type: **New Structure**
 Array ID Configuration table attached

SURVEY INFORMATION

B.M. Elevation: **15.74ftft** Date: **6/1/2010** Stamp: **L8RES Site6 BM 2010**
 Agency: **SFWMD** Type: **ALUM** Datum: **NAVD 88**

Benchmark Location/ Description	Located: NNW of Well site near corner of ditch.... (+1.46ft to NGVD 29)....
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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
L8FEB5L		19.32ft	1/28/2015	19.32ft			15.74ft	NAVD 88	Mark set on edge of PVC Well... denoted by Brass Tag
L8FEB5M		18.93ft	1/28/2015	18.93ft			15.74ft	NAVD 88	Mark Set on edge of PVC Well... Denoted by Brass Tag
L8FEB5U		18.83ft	1/28/2015	18.83ft			15.74ft	NAVD 88	Mark Set on Edge of PVC 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									
L8FEB5L																	
L8FEB5M																	
L8FEB5U																	

COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
L8FEB5L	26 44 19.8	80 22 34			17	43	40	Loxahatchee		Palm Beach	
L8FEB5M	26 44 19.8	80 22 34			17	43	40	Loxahatchee		Palm Beach	
L8FEB5U	26 44 19.8	80 22 34			17	43	40	Loxahatchee		Palm Beach	

REGISTRATION WORKSHEET - L8PZ5 Activation

Site Name: **L8PZ5** Today's Date: **1/7/2015** Type Recorder: **CR1000**
 Activity: **Activation** Effective Date: Start Date of Data :
 Customer: **C. Gomez/SCADA Eng.** Bus. Area: **SCADA** Agency: **SFWMD** Internal Order:
 Project Manager: **E. Ebanks** Bus. Area: **InfrStr.Mgt/Survey** Agency: **SFWMD** Fund:
 Contract #:
 Project Name: Legal Mandate:

Short Common Name / Description:

Proj. Mgr. Notes: **NEW Well Cluster...**

Site Directions: **L-8.... 2.62mls north of SR 80 (West side)...**

Site Address (if any):

Transportation: **Std Vehicle** Lock type or combination: **Abloy S** #

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

Array ID Configuration table attached

SURVEY INFORMATION

B.M. Elevation: **15.20ft** Date: **1/28/2013** Stamp: **L-8 Divide**
 Agency: **Wantman Group Inc** Type: **SS ROD to Refusal** Datum: **NAVD 88**

Benchmark Location/ Description: **Located: N 26 43 25.57... W 80 21 48.66... +/- 100ft north of Well cluster...**

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
L8PZ5A		23.98ft	1/6/2015	23.98ft			15.20ft	NAVD 88	Mark set on edge of PVC Well... denoted by Brass Tag
L8PZ5B		24.02ft	1/6/2015	24.02ft			15.20ft	NAVD 88	Mark Set on edge of PVC Well... Denoted by Brass Tag
L8PZ5C		24.10ft	1/6/2015	24.10ft			15.20ft	NAVD 88	Mark Set on Edge of PVC Well... Denoted by brass Tag
L8PZ5D		24.21ft	1/6/2015	24.21ft			15.20ft	NAVD 88	Mark Set on Edge of PVC 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									
L8PZ5A																	
L8PZ5B																	
L8PZ5C																	
L8PZ5D																	

COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
L8PZ5A	26 43 24.38	80 21 49.08			20	43	40	Loxahatchee		Palm Beach	
L8PZ5B	26 43 24.38	80 21 49.08			20	43	40	Loxahatchee		Palm Beach	
L8PZ5C	26 43 24.38	80 21 49.08			20	43	40	Loxahatchee		Palm Beach	
L8PZ5D	26 43 24.38	80 21 49.08			20	43	40	Loxahatchee		Palm Beach	

