

Identifi cation_I nformati on:

Ci tati on:

Ci tati on_I nformati on:

Charles B. Gardiner
MACTEC

Origi nator: Charles B. Gardi ner, PS(comp.)
Origi nator: MACTEC, Inc.
Publ i cati on_ Date: Unpubl i shed materi al
Publ i cati on_ Ti me: Unknown
Ti tle: S. F. W. M. D. Wel l S65CGW OKF42
Edi ti on: 1
Seri es_I nformati on:
Publ i cati on_I nformati on:
 Publ i cati on_ Pl ace: Not Publ i shed
 Publ i sher: None
Onl i ne_ Li nkage: CBGardi ner@mactec. com
Larger_ Work_ Ci tati on:
 Ci tati on_I nformati on:
 Seri es_I nformati on:
 Publ i cati on_I nformati on:

Descri pti on:

Abstr act:

South Flori da Water Management Di stri ct,
Ki ssi mee Ri ver Wel l S65CGW OKF42

Purpose

Purpose:

To establ i sh NAVD 88 and NGVD 29 el evati ons on the
wel l pl atform at the reference mark (mark poi nt).
Al so establ i sh a nearby si te benchm ark

Suppl emental_ I nformati on: There i s a l ock on the wel l. See poi nt of

contact for key.

Time_ Peri od_ of_ Content:

Survey Date

Time_ Peri od_ I nformati on:

Si ngl e_ Date/ Ti me:

Cal endar_ Date: 20050629

Time_ of_ Day: 08150000

Range_ of_ Dates/ Ti mes:

Mul ti pl e_ Dates/ Ti mes:

Currentness_ Reference: Date and ti me of fi el d work

Status:

Progress: Compl ete

Mai ntenance_ and_ Update_ Frequency: Unknown

Spati al_ Domai n:

Boundi ng_ Coordi nates:

West_ Boundi ng_ Coordi nate: -081. 267675

East_ Boundi ng_ Coordi nate: -080. 774650

North_ Boundi ng_ Coordi nate: +27. 639777

South_ Boundi ng_ Coordi nate: +27. 121016

Keywords:

Theme:

Theme_ Keyword_ Thesauru s: None

Theme_ Keyword: Record Survey

Theme_ Keyword: Wel l Si te

Pl ace:

Pl ace_ Keyword_ Thesauru s: None

Pl ace_ Keyword: S. F. W. M. D. Wel l S65CGW OKF42

Pl ace_ Keyword: Sec. 27, Twp. 35 S., Rge 32 E.

Pl ace_ Keyword: Okeechobee County

Pl ace_ Keyword: Fl ori da

Pl ace_ Keyword_ Thesauru s: Geographi c Names I nformati on System

Pl ace_ Keyword: Fl ori da

Pl ace_ Keyword: Okeechobee County

Pl ace_ Keyword: S65CGW OKF42 SI TE

Stratum:

Temporal :

Access_ Constrain ts: None

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Use_Constraints: There is a lock on the well. See point of contact for key.
Point_of_Contact:

Howard J. Ehmke
SFWMD

Contact_Information:
Contact_Person_Primary:
Contact_Organization_Primary:
Contact_Organization: South Florida Water Management

District

Contact_Person: Howard J. Ehmke, P. S. M.
Contact_Position: Lead Project Manager
Contact_Address:
Address_Type: physical address
Address: 8894 Belvedere Road
City: West Palm Beach
State_or_Province: Florida
Postal_Code: 33411
Country: USA
Contact_Voice_Telephone: 561-242-5520
Contact_Electronic_Mail_Address: hehmke@sfwmd.gov
Hours_of_Service: 8:00 am to 5:00 pm EST

Security_Information:
Cross_Reference:

Citation_Information:
Series_Information:
Publication_Information:

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

Equipment Used

The horizontal location of the well and benchmark was established using a Trimble ProXR (sub-meter) GPS receiver.
The vertical data was collected using WILD NA (SN. 188247), ZEISS DINI 12 (SN 071805) and ZEISS DINI 22 (SN 7001444)
Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90.
Elevations are based on NAVD 88 and NGVD 29.

Logical_Consistency_Report:

Horizontal data was established using sub-meter GPS equipment.
Vertical data was established using NGS control points "M553" (PID DF8383) and "KRR PC 2" (PID DF8406).

Completeness_Report:

Project Results

Horizontal location taken at approximate center of structure.
Lat. +27° 24' 03.05"
Long. -81° 06' 55.95"
N 1114904. USft
E 618678. USft

S65CT M. P. -- Existing reference mark (Mark Point) is a black marked square located at the perimeter of circular opening in recorded box wood floor.
Newly leveled elevations.
10.484 (m) 34.40 (ft) NAVD 88 based on published NGS values.
10.847 (m) 35.59 (ft) NGVD 29

30.00' mark on existing staff gauge
Newly leveled elevations.

8.782 (m) 28.81 (ft) NAVD 88 based on published NGS values.
9.145 (m) 30.01 (ft) NGVD 29

Site Benchmark "KR 1367"

To reach the station from the U.S. post office in Lorida, Florida; go east on U.S. Highway No. 98 for 8.9 miles to a paved road on the left (S-65-C lock access road), turn left on paved road and go north for 1.6 miles to levee and structure S-65-C and the station location.

Monument is a standard USACOE bronze disk, set in the top of an 8 inch concrete post, set flush with the ground and stamped "KR 1367 1979 GPS 1993".

Monument is located 69 feet north of north end dam, 7.5 feet northwest of edge paved parking and 113 feet southwest of lone 10 inch oak, and 1.5 feet east of metal witness.

Lat. +27° 24' 05.19"

Long. -81° 06' 53.84"

N 1115119. USft

E 618869. USft

Newly leveled elevations.

11.571 (m) 37.96 (ft) NAVD 88 based on published NGS values.

11.934 (m) 39.16 (ft) NGVD 29

United States Department of the Interior Geological Survey
Quadrangle map -- Basinger

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Horizontal

were

The horizontal positions of the well and benchmark established using a Trimble ProXR GPS receiver with integrated differentially corrected GPS (DGPS). Positions were differentially corrected using

correction

signals broadcasted by the US Coast Guard.

Quantitative_Horizontal_Positional_Accuracy_Assessment:

(+/-3 feet)

Horizontal_Positional_Accuracy_Value: +/-1 meter

intended accuracy is +/-1 meter

Horizontal_Positional_Accuracy_Explanation: The

Vertical_Positional_Accuracy:

Level Line

Vertical_Positional_Accuracy_Report:

benchmark

A level line was run originating on benchmark "M553" running through "KR1367" and terminating on

is in

"KRR PC 2".

The vertical positional accuracy for this level run

output

accordance with Florida Minimum Technical Standards (Chapter 61G17-6).

The level run was adjusted with STAR*LEV Adjustment Program Version 1.30. Please refer to STAR*LEV

are

file (L26734.lst) for statistical summary.

The NGVD 1929 elevations established for this survey

15_S65CGW OKF42.gen
based upon a shift that was derived from the
analysis of the difference between the NAVD 1988 and NGVD 1929
The values for benchmarks throughout the project area.
NAVD 1988 values were based upon values published by
feet) NGS and the NGVD 1929 values were published by
across SFWMD. An average shift of 0.363 meters (1.193
Ki ssi mme e was derived from nine benchmarks that are spread
0.001 a 26 kilometer (16 mile) project area along the
River. The standard deviation of the average is
meters (0.004 feet).

Lineage:

Source_Information:
Source_Citation:
Citation_Information:
Series_Information:
Publication_Information:
Larger_Work_Citation:
Citation_Information:
Series_Information:
Publication_Information:
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Range_of_Dates/Times:
Multiple_Dates/Times:

Process_Step:

Process_Description:
The horizontal work was performed using Trimble
ProXR receivers.
Sub-meter DGPS equipment was used.
The vertical data was collected using WILD NA
(SN. 188247), ZEISS DINI 12 (SN 071805) and ZEISS
DINI 22 (SN 7001444)
3-Wire methodology was used.
Process_Date: 20050629
Process_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Organization_Primary:
Contact_Address:

Spatial_Data_Organization_Information:

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:
Planar:

Map_Projection:

Angular_Conical_Equal_Area:
Azimuthal_Equidistant:
Equidistant_Conic:
Equiangular:
General_Vertical_Near-sidereal_Perspective:
Gnomonic:
Lambert_Azimuthal_Equal_Area:
Lambert_Conformal_Conic:
Mercator:
Modified_Stereographic_for_Aaska:

15_S65CGW OKF42.gen
 Miller_Cylindrical :
 Oblique_Mercator:
 Oblique_Line_Point:
 Orthographic:
 Polar_Stereographic:
 Polyconic:
 Robinson:
 Sinusoidal :
 van_der_Grinten:
 Space_Oblique_Mercator_(Landsat):
 Stereographic:
 Transverse_Mercator:
 van_der_Grinten:
 Grid_Coordinate_System:
 Universal_Transverse_Mercator:
 Transverse_Mercator:
 Universal_Polar_Stereographic:
 Polar_Stereographic:
 StatePlane_Coordinate_System:
 Lambert_Conformal_Conic:
 Transverse_Mercator:
 Oblique_Mercator:
 Oblique_Line_Point:
 Polyconic:
 ARC_Coordinate_System:
 Equiangular:
 Azimuthal_Equidistant:
 Local_Planar:
 Planar_Coordinate_Information:
 Coordinate_Representation:
 Distance_and_Bearing_Representation:
 Local :
 Geodetic_Model :
 Vertical_Coordinate_System_Definition:
 Altitude_System_Definition:
 Depth_System_Definition:
 Entity_and_Attribute_Information:
 Detailed_Description:
 Entity_Type:
 Attribute:
 Attribute_Domain_Values:
 Attribute_Value_Accuracy_Information:
 Overview_Description:
 Distribution_Information:
 Distributor:
 Contact_Information:
 Contact_Person_Primary:
 Contact_Organization_Primary:
 Contact_Address:
 Standard_Order_Process:
 Digital_Form:
 Digital_Transfer_Information:
 Digital_Transfer_Option:
 Online_Option:
 Computer_Contact_Information:
 Network_Address:
 DisplayInstructions:
 Offline_Option:
 Recording_Capacity:
 Available_Time_Period:
 Time_Period_Information:
 Single_Date/Time:
 Range_of_Dates/Times:
 Page 5

15_S65CGW OKF42.gen

Multiple_Dates/Times:

Metadata_Reference_Information:

Metadata_Date: 20050615

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Charles B. Gardiner, PS

Contact_Organization: MACTEC, Inc

Contact_Organization_Primary:

Contact_Position: Principal Surveyor

Contact_Address:

Address_Type: mailing and physical address

Address: 4150 N. John Young Parkway

City: Orlando

State_or_Province: Florida

Postal_Code: 32804-2620

Country: USA

Contact_Voice_Telephone: 407-522-7570

Contact_Facsimile_Telephone: 407-522-7576

Contact_Electronic_Mail_Address: CBGardiner@mactec.com

Hours_of_Service: 8:00 am - 5:00 pm EST

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial

Metadata

Metadata_Standard_Version: June 08, 1994

Metadata_Security_Information:

S65CGW



Lock

Structure S65C

Well S65CGW
(aka OKF42)

Photo Date:
View:

April 7, 2005
Looking Easterly at structure S65C and site
S65CGW.

S65CGW



Photo Date:
View:

June 29, 2005
Looking East at Well S65CGW.

S65CGW

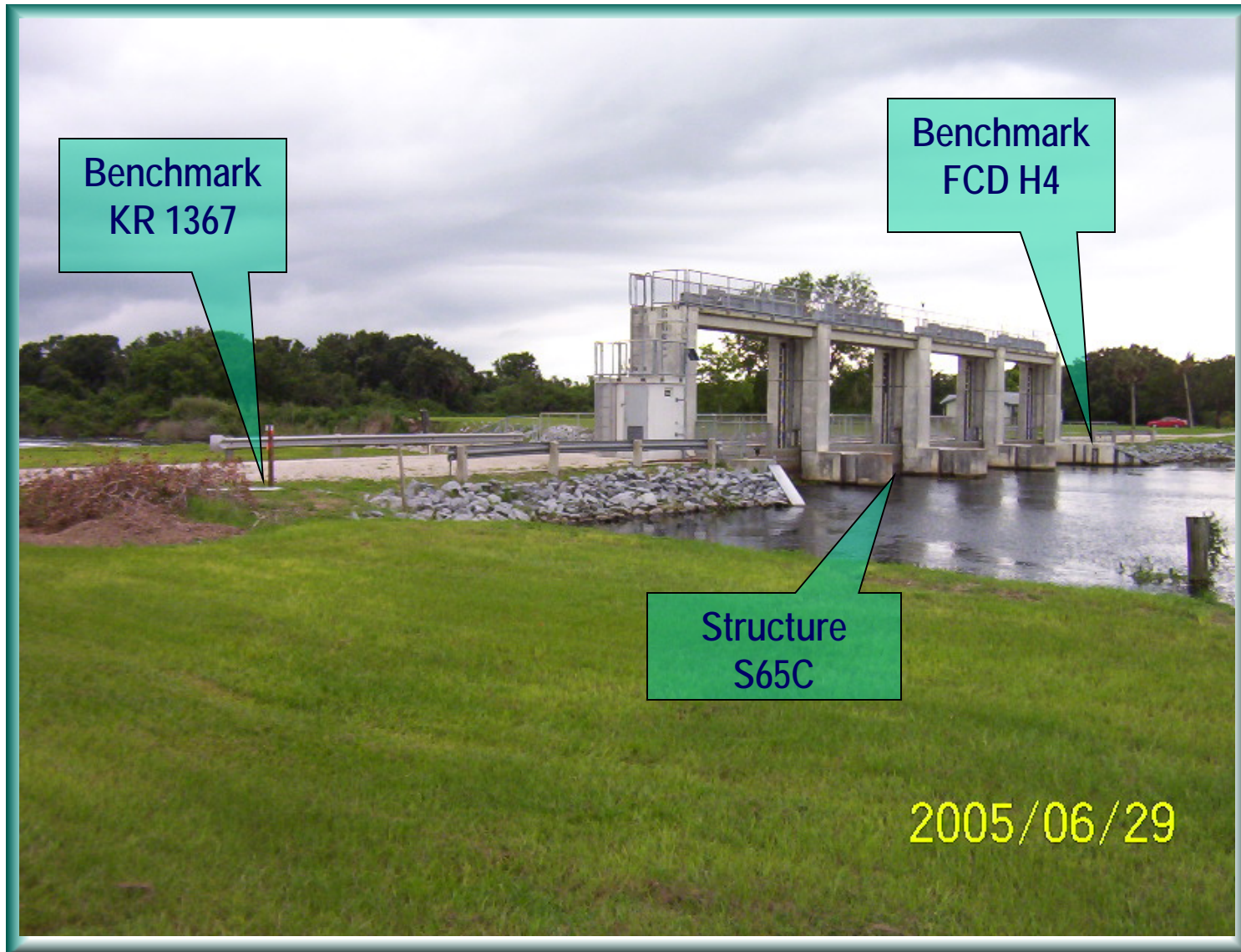


Photo Date:
View:

June 29, 2005
Looking Southwesterly at structure S65C.

S65CGW

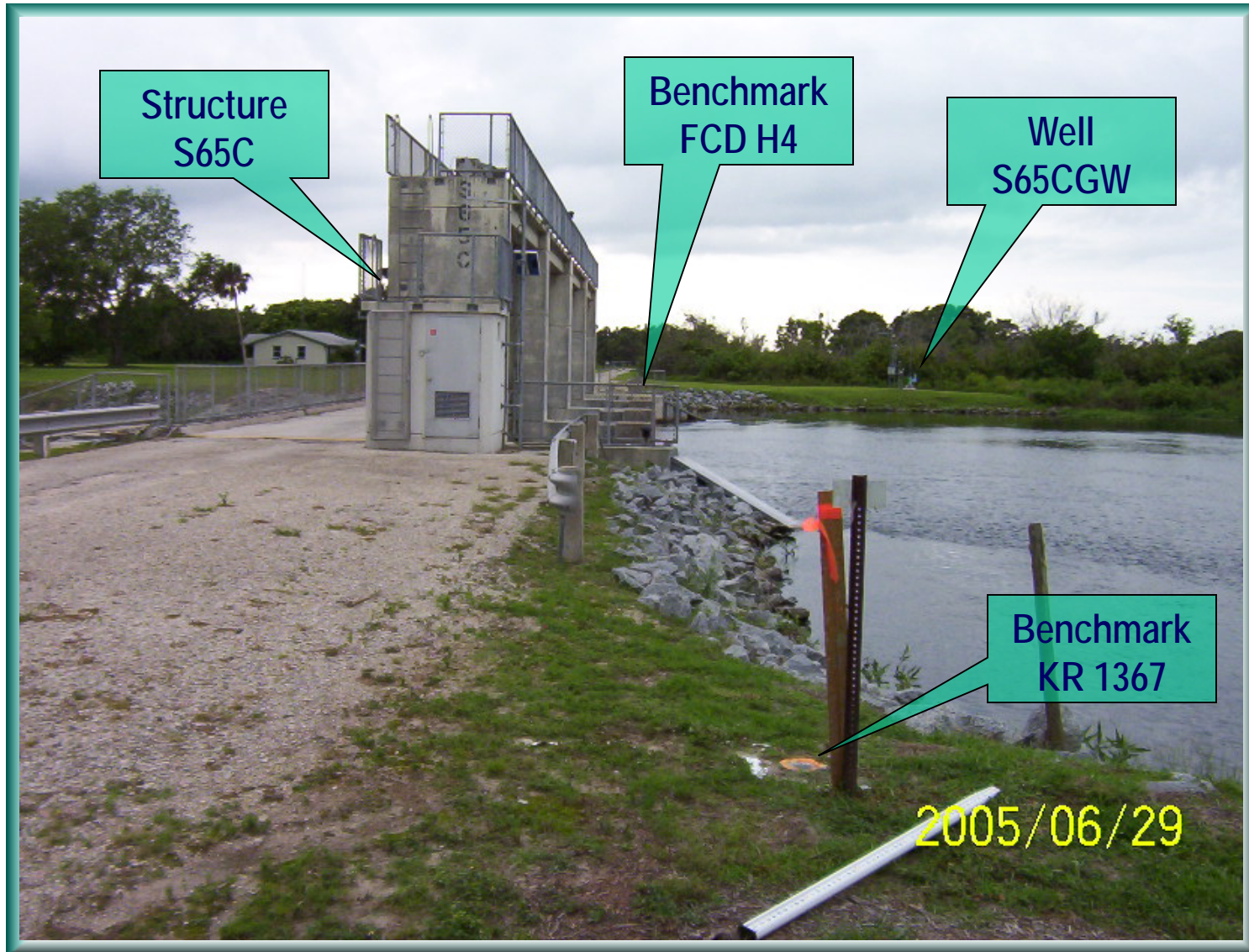


Photo Date:

June 21 2005

View:

Looking West at structure S65C.

S65CGW



Photo Date:

June 29, 2005

View:

Looking Northerly at benchmark KR 1367.

S65CGW



Photo Date:
View:

June 29, 2005
Benchmark KR 1367 (brass disk in concrete monument).

S65CGW

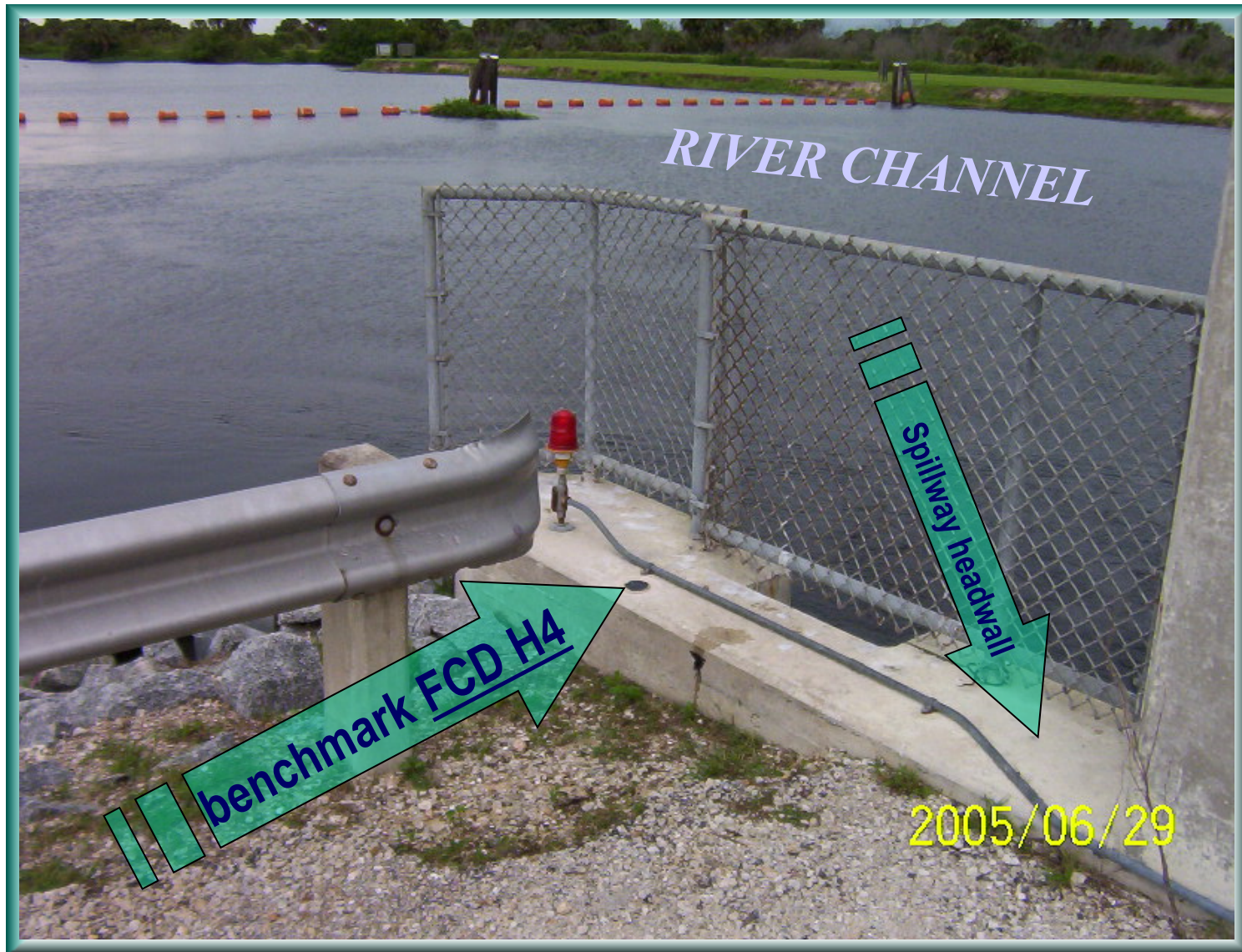


Photo Date:
View:

June 29, 2005
Looking Northerly at benchmark FCD H4

S65CGW



Photo Date:
View:

June 29, 2005
Benchmark FCD H4 (disk in structure S65C
concrete wall).

S65CGW



Photo Date:
View:

June 29, 2005
Clockwise from left: Close up of box-cut in N.W. Corner concrete base for well S65CGW; Sensor box w/ equipment.

S65CGW



Photo Date:
View:

June 29, 2005
Looking Northeasterly at Lock and well
S65CT.

S65CGW



Photo Date:
View:

June 29, 2005
Looking Southeasterly at lock entrance.

S65CGW



Photo Date:
View:

June 29, 2005
Looking East at well S65CT.

S65CGW

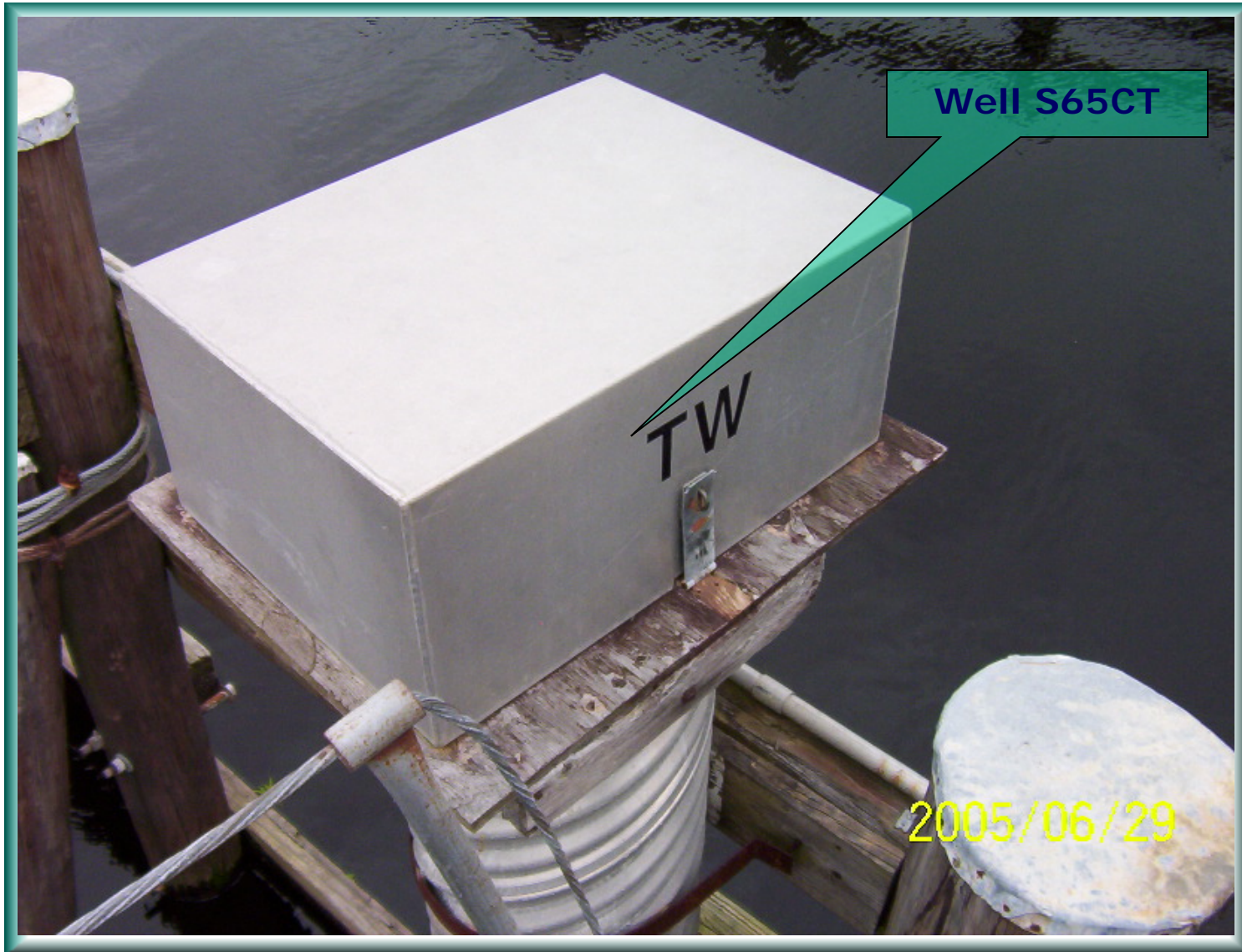


Photo Date:
View:

June 29, 2005
S65CT well box (closed).

S65CGW

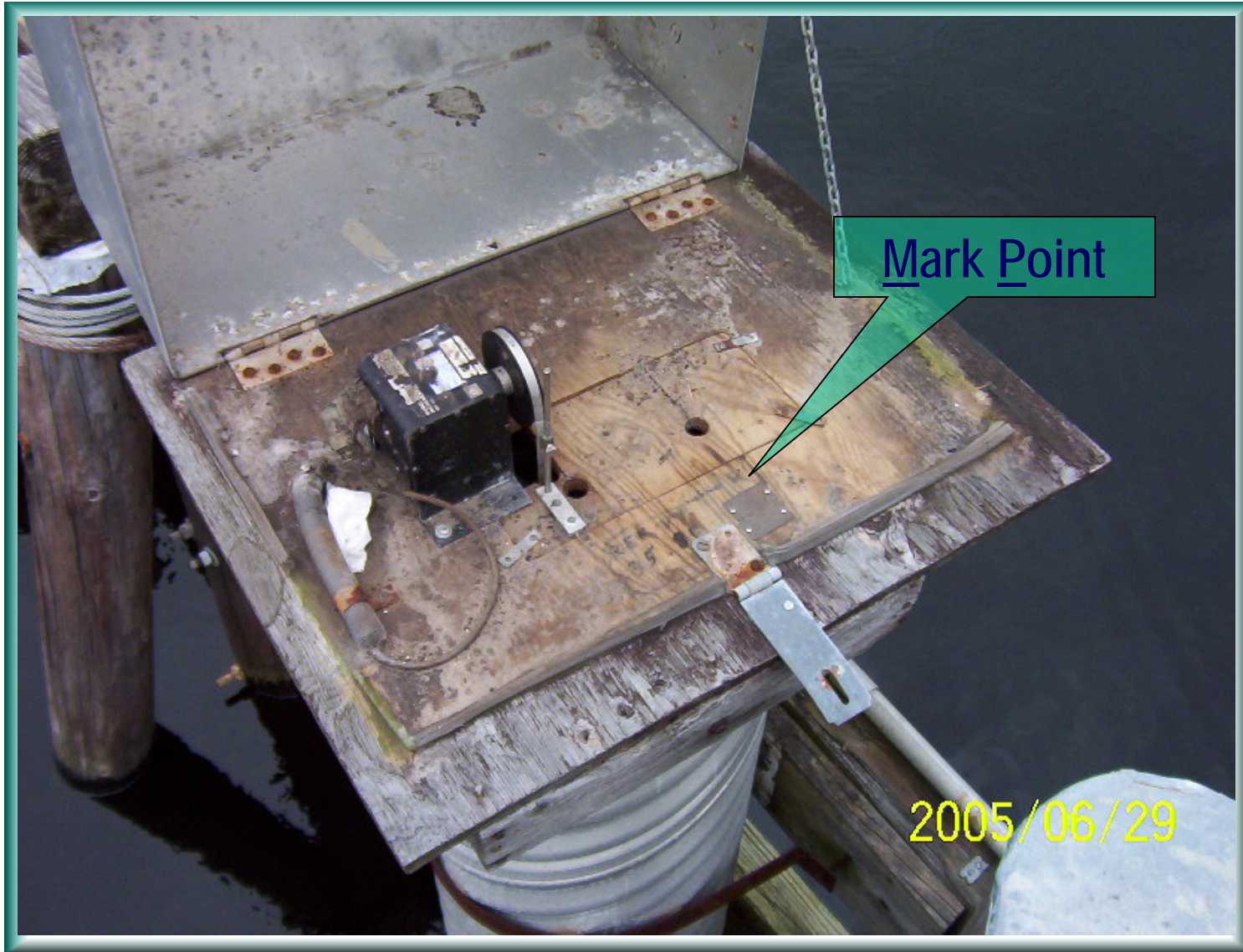


Photo Date:
View:

June 29, 2005
Looking inside S65CT well box (opened).

S65CGW

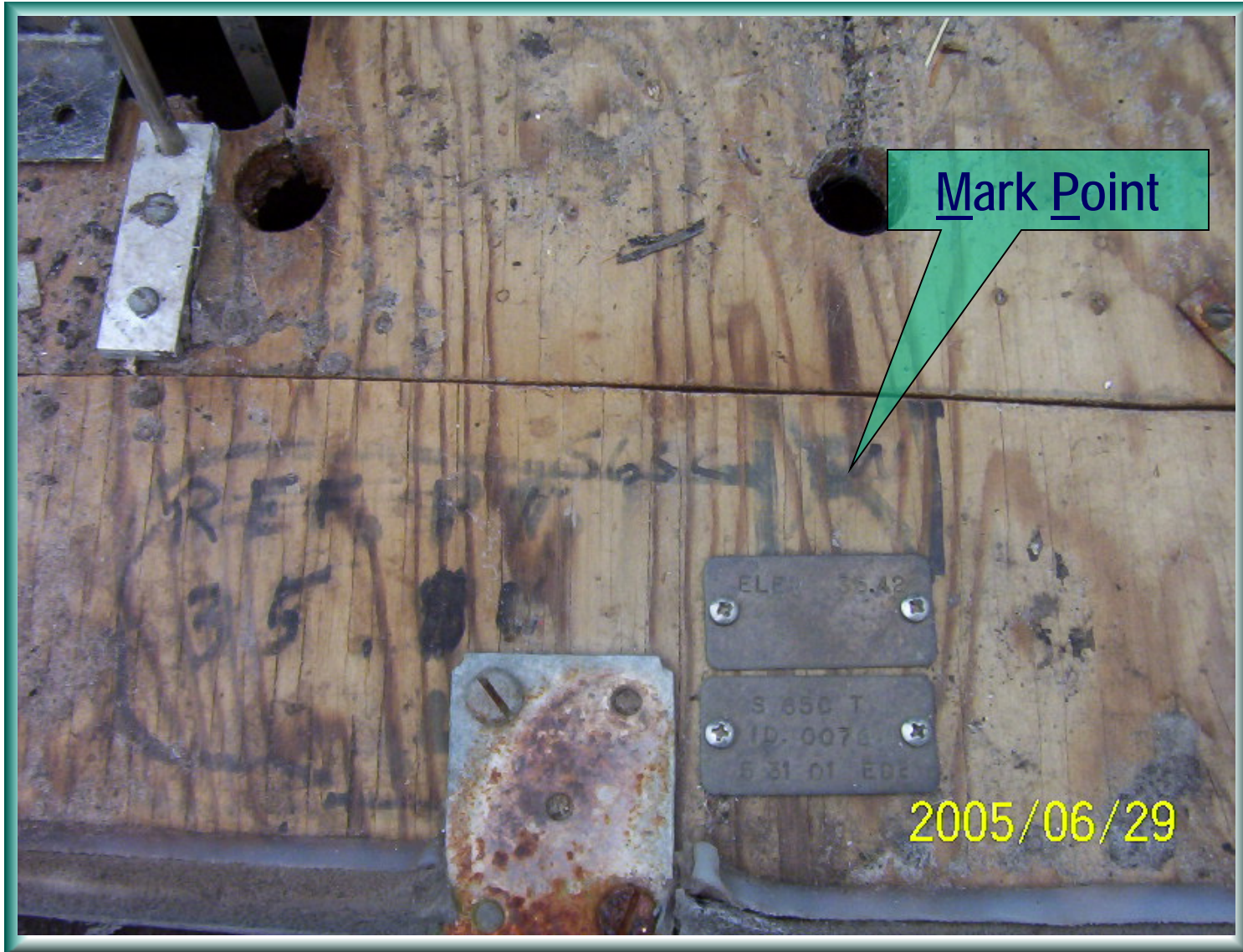


Photo Date:

June 29, 2005

View:

Close-up inside S65CT well box, showing Mark Point and metal tags.

S65CGW



Photo Date:

June 29, 2005

View:

Looking Southeasterly at Staff Gauge.

J. Hudson

S.F.W.M.D.

Z. REEVALS

S65C

SITE WORK

STA	B.S.	MEAN	H.I.	F.S.	MEAN
-----	------	------	------	------	------

	5.919				
KR1367	5.579	5.579	205.579		
	5.139				

	4.973			4.984	
T.P. 1	4.436	4.436	205.365	4.650	4.650
	3.899			4.315	

	4.945			5.329	
FCD H4	4.313	4.313	204.757	4.921	4.921
	3.682			4.514	

	4.100			3.986	
T.B.M 1	3.455	3.455	204.871	3.340	3.341
	2.810			2.696	

WED. JUNE 29, 2005

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CLOUDY 85°-90°

WILD NA2 (188247)

ELEV B.M. ELEV REMARKS

(ASSUMED)

200.000 FOUND 6" DIAM. P.I.P. C.M. w/3 1/2"

BRASS DISK (ARMY C.O.E)

STAMPED "KR 1367 1979 G.P.S. 1993"

200.929 MARKER "X" ON TOP OF CONC. CURB

200.444 FOUND 3" DISK (CENTRAL & SO.

FLA. FLOOD CONTROL DISTRICT)

STAMPED "FCD H4" IN CONC.

HEADWALL W. END OF "S65C"

CONC. STRUCTURE

201.416 SET BOX CUT @ N.W. CORNER
OF 1.8' SQ. CONC. BASE w/STEEL
(BLUE) PIPES & SENSOR BOX EQUIP.
DIRECTLY S.E.

J. HUDSON

S. F. W. M. D.

Z. REEBALG

S 65 C

CONT'D FROM PREV.

STA	B.S.	MEAN	H.I.	F.S.	MEAN
-----	------	------	------	------	------

204.871

	5.215			4.592	
T.P. 2	4.421	4.422	205.343	3.951	3.951
	3.629			3.308	

	3.645			6.636	
T.P. 3	3.366	3.366	203.005	5.704	5.704
	3.036			4.771	

SS					14.899
----	--	--	--	--	--------

SS					12.156
----	--	--	--	--	--------

	7.120			6.907	
S65C	6.785	6.785	203.217	6.572	6.573
(WELL BOX) MP	6.451			6.239	

WED. JUNE 29, 2005

/18

CLOUDY 85°-90°

WILD NA2 (188247)

ELEV. B.M. ELEV. REMARKS

200.921

MARKER "X" ON TOP OF CONC. CURB.
RANDOM TURN

199.639

RANDOM TURN ON PLUMB BOB

188.106

TOP OF WATER ELEV.
(TAIL WATER)

190.849

30.00' MARK STAFF GAUGE

196.432

MARKER BOX INSIDE WELL BOX
@ LOCKS STRUCTURE (TAIL WATER)
MARK POINT
(NO LOCK ON BOX)

J. HUDSON

S.F.W.M.D

Z. REEBALS

S 65 C

CONT'D FROM PREV.

STA	B.S.	MEAN	H.I.	FS.	MEAN
-----	------	------	------	-----	------

203.217

SS

12.370

SS

15.112

5.318

3.807

T.P. 4

4.330

4.831

204.645

3.403

3.403

4.344

3.000

5.111

KR 1367

4.645

4.645

4.180

WED. JUNE 29, 2005

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CLOUDY PASSING T-STORMS

WILD NA 2 (188247)

ELEV	BM. ELEV	REMARKS
------	----------	---------

190.347

30.00' MARK STAFF GAUGE

188.105

TOP OF WATER ELEV.

199.514

RANDOM TURN ON FLUME BOB

200.000

SEE DESC. ON PG. 17

J. HUDSON
Z. REEBALE

S. F. W. M. D.

SG5C

SITE WORK

DIGITAL PICTURES KODAK CX4230

84-88 KR1367 P.I.P. C.M.

89-92 FCD H4 DISK IN HEADWALL

93- TBM 1 @ MON. WELL SITE

94-96 SITE PROFILES

97-101 SG5C WELL BOX

102-103 SITE PROFILES

104 STAFF GAUGE

105-106 SITE PROFILES

WED. JUNE 29, 2005

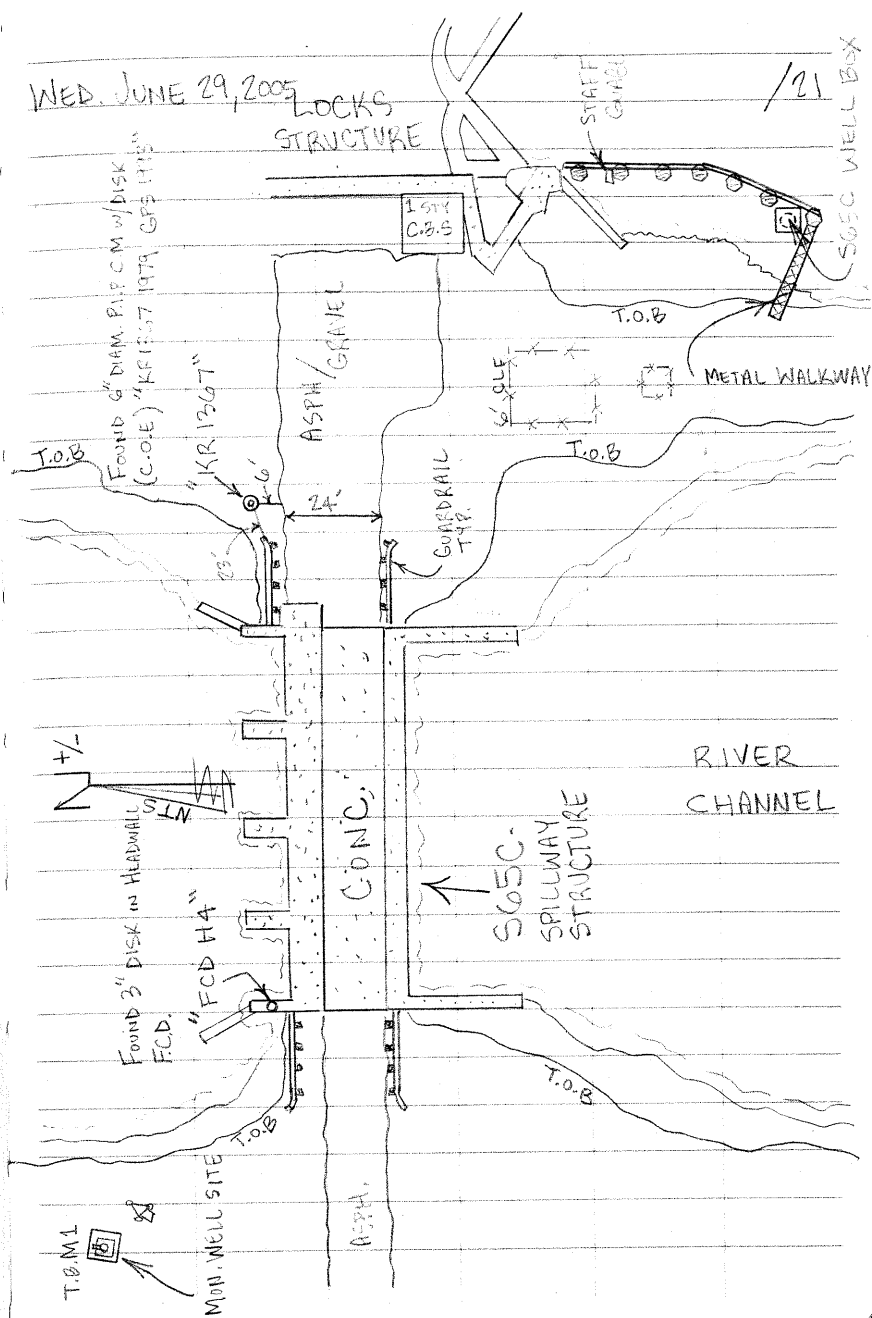
/20

TRIMBLE D.G.P.S

FEATURE	LAT.	LONG.
KR1367	N 27° 24' 05.19"	W 81° 06' 53.84"
FCD H4	N 27° 24' 03.59"	W 81° 06' 54.80"
T.B.M 1 @ MON. WELL SITE	N 27° 24' 03.05"	W 81° 06' 55.95"
SG5C WELL BOX @ S. SIDE LOCKS, TAIL WATER	N 27° 24' 06.04"	W 81° 06' 50.91"

J. HUDSON
Z. REEBALS


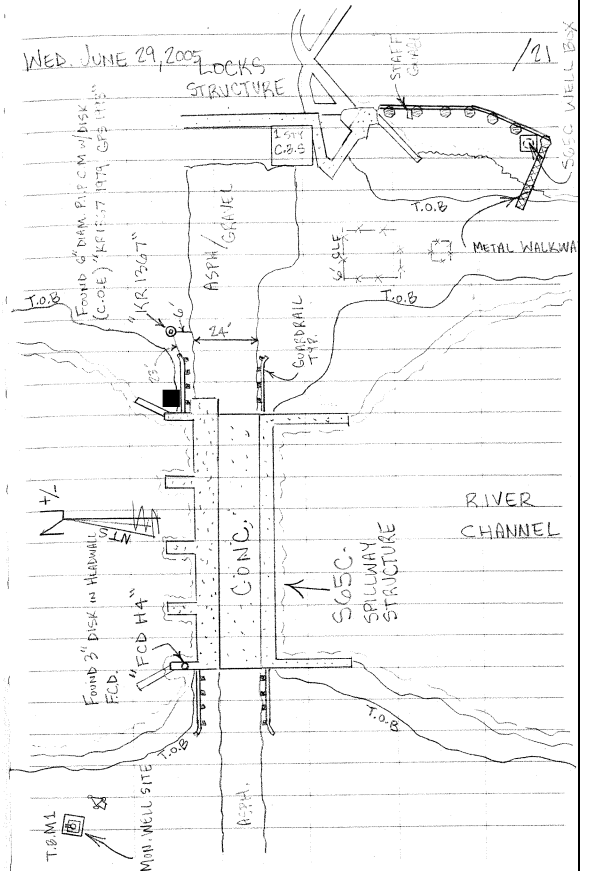
S. F. W. M. D.
S65C
SITE WORK





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY: <u>OKEECHOBEE</u>		PROJECT: <u>KISSIMMEE RIVER WELL SITES, C-C1991OP-WO05</u>		DESIGNATION: <u>KR1367 GPS</u>	
SECTION: <u>27</u>		TOWNSHIP: <u>35 South</u>		RANGE: <u>32 East</u>	
GEOGRAPHIC INDEX OF QUAD: <u>2809</u>					
Recovered by: <u>MACTEC, Inc.</u>			NAME OF QUADRANGLE: <u>BASINGER</u>		
SURVEYOR <u>Charles B. Gardiner</u> DATE <u>06/26/2005</u>			FIELD BOOK: <u>KR-MEC 03</u> PAGE: <u>17-21</u>		
HORIZONTAL DATUM: 1927 <input type="radio"/> 1983 <input checked="" type="radio"/> Other _____ (circle one) ZONE <input checked="" type="radio"/> E or <input type="radio"/> W					
VERTICAL DATUM: MSL 1929 <input type="radio"/> 1988 <input checked="" type="radio"/> Other _____ (circle one)					
CONTROL ACCURACY: HORIZONTAL 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> <u>Sub Meter</u> (circle one) VERTICAL 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3					
STATE PLANE COORDINATES		X: 618869. USft	Y: 1115119. USft	EL.: 37.96 ft	37.963
LATITUDE: +27° 24' 05.19"			LONGITUDE: -81° 06' 53.84"		
DESCRIPTION					
<p>To reach the station from the U.S. post office in Lorida, Florida; go east on U.S. Highway No. 98 for 8.9 miles to a paved road on the left (S-65-C lock access road), turn left on paved road and go north for 1.6 miles to levee and structure S-65-C and the station location.</p> <p>Monument is a standard USACOE bronze disk, set in the top of an 8 inch concrete post, set flush with the ground and stamped "KR 1367 1979 GPS 1993".</p> <p>Monument is located 69 feet north of north end dam, 7.5 feet northwest of edge paved parking and 113 feet southwest of lone 10 inch oak, and 1.5 feet east of metal witness.</p>					
 <p style="text-align: right; color: yellow;">2005/06/29</p>			 <p>WED. JUNE 29, 2005</p> <p>Found 3" Disk in Hedonul FLD. "FCB HA"</p> <p>Found 6" Disk in C.M. of Box (C-04E) "KR1367 1979 GPS 1993"</p> <p>Labels in sketch: LOCKS STRUCTURE, ASPH/CONC, CONCRETE TRAP, METAL WALKWAY, RIVER CHANNEL, S.O.C. SPILLWAY STRUCTURE, S.O.C. WELL BOX, T.O.B., 24', 12' 0", 1" KR 1367, 1" FCB HA, T.B.M.1, MON. WELL SITE, ASPH., CONC., 1/21</p>		
Notable Land marks:					



South Florida Water Management District Benchmark Database

Report run on: May 30, 2008 6:20 AM

Designation: KR1367GPS
County: OKEECHOBEE
USGS Quad BASINGER
Project: S-65C & OK42 WELL SITE
Sec: 27 Twp: 35 Rge: 32
Status: GOOD 2005

Latitude: 272405.200 Scaled values only
Longitude: 810653.800
Monument By: US ARMY CORPS OF ENGRS
Year: 1979
Type: H/V
Stamping: KR 1367 1979 GPS 1993
Party Chief: BROWNING
Field Book 41A54
Page: 1,4

NAD 1927 Coordinates:
N = 1114953.616
E = 462630.544
Adjustment: PUBLISHED

NGVD 1929
Elevation: 39.163
Order: 3
Class:

NAD 1983 Coordinates:
X = 618866.444
Y = 1115116.628
Adjustment:
Order:
Class:

NAVD 1988
Elevation: 37.963
Order: 3
Class:

Description:

OLD EL. 38.93 NGVD 1929 THIRD ORDER
***** RECOVERY NOTE *****

6/29/2005 HUDSON MACTEC FIELD BOOK PAGE 17 FOUND 6-INCH DIAM P.I.P. CM WITH
3 1/2-INCH BRASS DISK (ARMY C.O.E.) STAMPED "KR 1367 1979 G.P.S. 1993"
S65TW WELL DATA HORIZONTAL LOCATION TAKEN AT APPROXIMATE
CENTER OF STRUCTURE.

LAT. +27° 24' 03.05"
LONG. -81° 06' 55.95"
N 1114904. USFT
E 618678. USFT

S65CT M.P. -- EXISTING REFERENCE MARK (MARK POINT) IS A BLACK
MARKED SQUARE LOCATED AT THE PERIMETER OF CIRCULAR
OPENING IN RECORDED BOX WOOD FLOOR.
NEWLY LEVELED ELEVATIONS.

10.484 (M) 34.40 (FT) NAVD 88 BASED ON PUBLISHED NGS VALUES.
10.847 (M) 35.59 (FT) NGVD 29

30.00' MARK ON EXISTING STAFF GUAGE
NEWLY LEVELED ELEVATIONS.
8.782 (M) 28.81 (FT) NAVD 88 BASED ON PUBLISHED NGS VALUES.
9.145 (M) 30.01 (FT) NGVD 29 (3/11/08 HJE)

TO REACH THE STATION FROM THE U.S. POST OFFICE IN LORIDA, FLORIDA; GO EAST ON U.S. HIGHWAY
NO. 98 FOR 8.9 MILES TO A PAVED ROAD ON THE LEFT (S-65-C LOCK ACCESS ROAD). TURN LEFT ON
PAVED ROAD AND GO NORTH FOR 1.6 MILES TO LEVEE AND STRUCTURE S-65-C AND THE STATION
LOCATION. MONUMENT IS LOCATED 69 FEET NORTH OF NORTH END DAM, 7.5 FEET NORTHWEST OF
EDGE PAVED PARKING AND 113 FEET SOUTHWEST OF LONE 10 INCH OAK, AND 1.5 FEET EAST OF METAL
WITNESS. MONUMENT IS A STANDARD USACOE BRONZE DISK, SET IN THE TOP OF AN 8 INCH
CONCRETE POST, SET FLUSH WITH THE GROUND AND STAMPED "KR 1367 1979 GPS 1993".

CORPS OF ENGINEERS DATA SHEET
MONUMENT ID: KR 1367 GPS



South Florida Water Management District Benchmark Database

Report run on: May 30, 2008 6:20 AM

LOCALITY-PROJECT : KISSIMMEE RIVER MONUMENT TYPE : DISK
 LATITUDE : 0AQA 0' 0.000" LONGITUDE : 0AQA 0' 0.000"
 X(E) : 462630.519 Y(N) : 1114953.720
 ZONE : FLE ELEVATION : 38.9300
 HORIZONTAL DATUM : NAD 27 DATE-SET : 1979
 ORDER : GPS COUNTY : OKEECHOBEE
 STATE : FL QUAD-NAME :
 ENTERED BY : LZ MONUMENT SET BY : COE

DATE ADDED : 930210 DATECHANGED : 930702

C of E Data
Sheet

RECOVERED BY :
 COMPANY (1) (2)
 PERSON (1) (2)
 DATE (1) (2)
 CONDITION (1) (2)

LOCATED ON THE KISSIMMEE RIVER AT S-65-C LOCK.

TO REACH THE STATION FROM THE POST OFFICE IN LORIDA,FLORIDA GO EAST ON STATE ROAD 98 FOR 8.9 MILES TO A PAVED ROAD LEFT. TURNLEFT ON PAVED ROAD AND GO NORTH FOR 1.6 MILES TO LEVEE AND STRUCTURES-65-C AND THE STATION AS DESCRIBED.

STATION MARK IS A COE BRONZE DISK SET IN THE TOP OF AN8 INCH CONCRETE POST, SET FLUSH WITH THE GROUND AND STAMPED KR 1367,1979 GPS 1993. STATION IS LOCATED 61.5 FEET EAST OF THE SPILLWAY AND 6FEET NORTH OF THE PAVED PARKING AREA.

CORPS OF ENGINEERS DATA SHEET MONUMENT ID: KR 1367

LOCALITY-PROJECT : KISSIMMEE RIVER MONUMENT TYPE : DISK
 LATITUDE : 00 0' 0.000" LONGITUDE : 00 0' 0.000"
 X(E) : 618866.444 Y(N) : 1115116.628
 ZONE : FLE ELEVATION : 38.9300
 HORIZONTAL DATUM : NAD 83 VERTICAL DATUM : NGVD 29
 ORDER : GPS LINEAR UNITS : FEET
 STATE : FL DATE SET : 1979
 MONUMENT SET BY : COE COUNTY : OKEECHOBEE

DATE ADDED : 930210 DATE CHANGED : 960608

RECOVERED BY :
 COMPANY (1) POI (2)
 PERSON (1) J.FLEMING (2)
 DATE (1) 5/94 (2)
 CONDITION (1) GOOD (2)

LOCATED ON THE KISSIMMEE RIVER AT S-65-C LOCK.

TO REACH THE STATION FROM THE POST OFFICE IN LORIDA, FLORIDA GO EAST ON STATE ROAD 98 FOR 8.9 MILES TO A PAVED ROAD LEFT. TURN LEFT ON PAVED ROAD AND GO NORTH FOR 1.6 MILES TO LEVEE AND STRUCTURE S-65-C AND THE STATION AS DESCRIBED.

STATION MARK IS A COE BRONZE DISK SET IN THE TOP OF AN 8 INCH CONCRETE POST, SET FLUSH WITH THE GROUND AND STAMPED KR 1367, 1979 GPS 1993. STATION IS LOCATED 61.5 FEET EAST OF THE SPILLWAY AND 6 FEET NORTH OF THE PAVED PARKING AREA.

AZ MARK IS THE AT&T MICRO WAVE TOWER.



South Florida Water Management District Benchmark Database

Report run on: May 30, 2008 6:20 AM

NAD 83 COORDINATES FOR KR-1367 X = 618,866.444 Y = 1,115,116.628

NAD 27 X = 462630.544 Y = 1114953.616

***** OLD DATA *****

X=462630.520 Y=1114953.720 Z=38.930

LOC. ON KISSIMMEE RIV. AT S-65 LOC K. TO REACH THE STATION FROM THE POST OFFICE IN LORIDA, GO EAST ON STATE ROAD 98 FOR 8.9 MILES TO A PAVED ROAD ON THE LEFT. TURN LEFT ON PAVED ROAD AND GO NORTH FOR 1.6 MILES TO LEVEE AND STRUCTURE S-65C AND THE STATION AS DESCRIBED.

STATION MARK IS COE BRONZE DISC SET IN TOP OF AN 8" CONCRETE POST SET FLUSH WITH THE GROUND AND STAMPED KR-1367, 1979 GPS 1993.

STATION IS LOCATED 61.5' EAST OF THE SPILLWAY AND 6.0' NORTH OF THE PAVED PARKING AREA.

C-38 FE# 41-A54 9/22/86

ESTABLISHED ELEV.
FOR CORE BORINGS LOCATED
± 2000' S.W. OF ~~S-65C~~ S-65C
STRUCTURE AS PER NOTIONS
18 ST.

STA	+		-	ELEV.	ELEV.	ELEV.
BH.						38.93
	0 5.95					
	0 1.52	49.28				
TP						
	0 5.15					
	0 2.12					39.23
	0 2.12	49.27				
TP						
	0 5.20					
	0 2.07					39.17
	0 2.23					
	0 5.04	41.40				
TP						
	0 3.23					
	0 4.04					38.17
	0 0.72					
	0 0.55	44.85				
TP						
	0 2.94					
	0 2.23					40.25
	0 4.55					
	0 2.72	45.50				
TP						
	0 2.72					
	0 3.72					41.23
	0 3.55					
	0 5.13					
	0 2.08	46.97				
TP						
	0 3.23					
	0 4.24					38.64
	0 4.56					
	0 2.71	43.20				

CONT'D P. 2.

C-38 FE# 41-A54 9/22/86

AT GROWING
SITE IDENTIFIED
BY DEARLEY
& MEDGES.

27 35/32

COMMENTS

KR-1267 LOCATED N.E. OF
S-65C (C-38 FE# 41-A18, P. 10)

C-28 FS. NO. 41 A 54 9/22/86

CONT'D FROM #1

STA. + HI - ELEV. CLK

43.20
 P ↓ 7.01 4538 ↓ 483
 ↓ 0.26 4538 ↓ 2.11 38.37

P ↓ 5.29 45.72 ↓ 490
 ↓ 2.03 45.72 ↓ 4.37 40.48

P ↓ 5.84 ↓ 489
 ↓ 1.93 46.67 ↓ 2.28 40.83

C.B.#1 0.9
 P ↓ 3.97 ↓ 491
 ↓ 3.23 49.20 ↓ 5.86 45.26

TP 7B#1 ↓ 4.23 ↓ 498
 ↓ 3.04 48.45 ↓ 2.89 44.22

P ↓ 0.498 ↓ 5.12
 ↓ 2.79 47.81 ↓ 2.15 43.33

C.B.#2 55
 TP ↓ 5.89 ↓ 3.55
 ↓ 1.38 50.15 ↓ 3.72 44.26

P ↓ 0.441 ↓ 5.21
 ↓ 2.86 49.35 ↓ 2.66 44.94

TP ↓ 3.55 ↓ 3.21
 ↓ 3.26 50.03 ↓ 3.96 46.04

PT 1.5

C.B.#3 4.8
 CONT'D #3

C-28 FS. NO. 41 A 54 9/23/86

COMMENTS

GENO. @ C.B.#1

DEL. SAFE IN 12" CHARGE PAIN IN CLOSURE
 OF 6.

GENO. @ C.B.#2

GENO. @ PEER TEST

" " C.B.#3

C-38 TANO. 41A54 9/22/86

CONT'D FROM P 2

STA. # PI - RECOR. SUR.

		50.03	
		5.84	
		1.92	49.19
TP	5.01		
	2.26	49.20	
		4.85	
		2.92	44.35
TP	2.84		
	3.43	48.19	
		6.10	
		1.17	42.09
TP	2.83		
	3.38	45.38	
		5.39	
		1.88	40.59
TP	3.59		
	3.68	44.18	

C3#4

		6.31	
		2.61	
		4.66	41.57
TP	5.97		
	1.33	47.51	
		2.38	
		4.59	45.13
TP	5.36		
	1.51	50.49	

C3#5

		4.9	
		5.14	
		2.13	45.35
TP	3.65		
	3.62	49.00	
		5.70	
		1.57	43.30
TP	3.06		
	4.21	46.36	

C3#6

		7.5	
		1.00	
		3.27	42.36
TP	5.45		
	1.62	47.81	

TC11

CONT'D P 4

21.25 26.52

C-38 TANO. 41A54 9/22/86

COMMENTS

GENO. @ C.B. #4

GENO. @ C.B. #5

GENO. @ C.B. #6

TOP OF WATER

4 C-38 FB. NO. 41 A 54 9/22/86

CONT'D FROM P. 3

STA.	+	HI	-	ELEV. FEET	E.H.
B.H.				38.53	
	0.30				
	1.37	44.23			
TBM				17.73 - 26.50	

C-38 FB. NO. 41 A 54 9/22/86 ⁴

COMMENTS

RR# 7367 (PI)

TOP OF WATER @ 5650' DOWNSTREAM

L26734

STAR*LEV Adjustment Program
Copyright 1995 STARPLUS SOFTWARE, INC.
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Serial Number 21987

STAR*LEV Version 1.30
Run Date : Sun Aug 14 23:27:13 2005

Summary of Files Used

Input Data File : 126734.dat
Output Listing (This File) : 126734.lst
Adjusted Elevations : 126734.pts
Project Options : 126734.prj
Error Log : 126734.err

Summary of Options Used

Type of Run was Adjustment and Error Propagation

Print Input Data File : Yes
Print Summary of All Input Observations : Yes
Default Standard Error for Elevations : FIXED
Section Length Units : Kilometers
Default Std Error for Diff in Elevations : 0.008000 Meters/Kilometer

Listing of Input Data File
=====

[1] # Simple Level Network With 0 Bench Marks
[2] # There were a total of 7 Runnings
[3] E 0015 12.756
[4] E 0016 14.166
[5] V 0015-0016 1.40940 1.00
[6] V 0016-0017 -2.59890 2.67
[7] V 0017-0016 2.59050 2.77
[8] V 0017-0019 1.56960 1.52
[9] V 0019-0020 -3.97910 0.79
[10] V 0020-0019 3.98140 0.79
[11] V 0019-0017 -1.57440 1.43

Network has 2 fixed elevation stations

Summary of All Unadjusted Input Observations
=====

Number of Stations with Elevations = 5

Station	Elevation	Std Error	Description
0015	12.75600	FIXED	
0016	14.16600	FIXED	
0017	11.56710	*	
0019	13.13670	*	
0020	9.15760	*	

L26734

Station Elevation Standard Deviations

Station	Elevation	StdDev	Description
0015	12.75600	0.00000	
0016	14.16600	0.00000	
0017	11.57122	0.00933	
0019	13.14330	0.01158	
0020	9.16305	0.01263	

Elapsed time = 00:00:00

□

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
KISSIMMEE RIVER WELL SITES
SITES: S65CGW & PD05F
 PROPOSED LEVEL RUN
 L26783-4 MACTEC #6374-05-0150

Good

KR 1367

RECOVERED 8" CONCRETE MONUMENT SFWMD BM

S65CGW
RECOVERED WELL

KISSIMMEE RIVER

KR 101 G.P.S.

- - - = PROPOSED LEVEL RUN
- = EXISTING VERTICAL CONTROL STATION
- △ = EXISTING HORIZONTAL CONTROL STATION
- ▣ = EXISTING HORIZONTAL/VERTICAL CONTROL STATION
- = PROPOSED VERTICAL CONTROL STATION
- = PROPOSED HORIZONTAL/VERTICAL CONTROL STATION

~~1125~~

PD05F

SET 12" DIAMETER Poured-IN-PLACE CONCRETE MONUMENT

GRAPHIC SCALE



(IN FEET)
1" = 1000'

US 98

KRR PC 2 16
RECOVERED

15
RECOVERED

Backsight Readings

Mean Reading	Cumulative Mean	Stadia	Cumulative Stadia
5.919	5.579	0.680	0.680
5.579			
5.239			
4.973	4.436	1.074	1.754
4.436			
3.899			
4.945	4.313	1.263	3.017
4.313			
3.682			
4.100	3.455	1.290	4.307
3.455			
2.810			
5.215	4.422	1.586	5.893
4.421			
3.629			
3.645	3.366	0.559	6.452
3.366			
3.086			
7.120	6.785	0.669	7.121
6.785			
6.451			
5.318	4.831	0.974	8.095
4.830			
4.344			

Foresight Readings

Mean Reading	Cumulative Mean	Stadia	Cumulative Stadia
	0.000	0.000	0.000
4.984	4.650	0.669	0.669
4.650			
4.315			
5.329	4.921	0.815	1.484
4.921			
4.514			
3.986	3.341	1.290	2.774
3.340			
2.696			
4.592	3.950	1.284	4.058
3.951			
3.308			
6.636	5.704	1.865	5.923
5.704			
4.771			
6.907	6.573	0.668	6.591
6.572			
6.239			
3.807	3.403	0.807	7.398
3.403			
3.000			
5.111	4.645	0.931	8.329
4.645			
4.180			

KR1367	37.963	NAVD 88
KR1367	37.963	NAVD 88

TP #	ELE	CORRECTION	ADJUSTED ELE	Description	Elev (m)
1	38.892	0.000	38.892	TP 1	11.854
2	38.407	0.000	38.407	FCD H4	11.707
3	39.380	0.000	39.380	TBM 1	12.003
4	38.884	0.000	38.885	TP 2	11.852
5	37.602	0.000	37.603	TP 3	11.461
6	34.395	0.000	34.396	S65C well box	10.484
7	37.777	0.000	37.778	TP 4	11.515
8	37.963	0.000	37.963	KR 1367	11.571

SUM OF BS 37.187 SUM OF STADIA 8.095 SUM OF FS 37.187 SUM OF STADIA 8.329

PUBLISHED DIFF - 0.000
 MEASURED DIFF - 0.000
 MISCLOSURE - 0.000
 PROPOGATED ERROR - 0.000
 TOTAL DIST (IN MILES) - 0.311
 ALLOWABLE ERROR - 0.028

ADJUSTMENT COMPLETED