

Identification_Information:

Citation:

Citation_Information:

Originator: Robert J. Bills(comp.)
Originator: U. S. Army Engineer District, Jacksonville (ed.)
Publication_Date: Unpublished material
Publication_Time: Unknown
Title: S. F. W. M. D. MARCO ISLAND DEEP WATER INJECTION WELL
Edition: 1
Series_Information:
Publication_Information:
Publication_Place: Not published
Publisher: None
Online_Linkage: bbills@cte.cc
Larger_Work_Citation:
Citation_Information:
Series_Information:
Publication_Information:

Description:

Abstract:

Purpose

South Florida Water Management District
MARCO ISLAND DEEP WATER INJECTION WELL

Purpose:

To establish NAVD 88 and NVGD 29 elevations on the well and on the well reference benchmark.

Time_Period_of_Content:

Time_Period_Information:

Survey Date

Single_Date/Time:

Calendar_Date: 20050126

Time_of_Day: 17000000

Range_of_Dates/Times:

Multiple_Dates/Times:

Currentness_Reference: Date and time of field work

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Unknown

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -081° 43' 24. 25"

East_Bounding_Coordinate: -081° 43' 24. 25"

North_Bounding_Coordinate: +25° 57' 33. 81"

South_Bounding_Coordinate: +25° 57' 33. 81"

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: Record Survey

Theme_Keyword: Well Site

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: S. F. W. M. D. MARCO ISLAND DEEP WATER INJECTION WELL

Place_Keyword: Sec. 08, Twp. 52 S., Rge 26 E.

Place_Keyword: Collier County, Florida

Place_Keyword_Thesaurus: Geographic Names Information System

Place_Keyword: Florida

Place_Keyword: Collier County

Stratum:

Temporal:

Access_Constraints: None

Use_Constraints: None

Point_of_Contact:

Contact_Information:

Elvie Ebanks

Contact_Person_Primary:

SFWMD

Contact_Person: Elvia Ebanks

Contact_Organization: South Florida Water Management

District

Contact_Organization_Primary:

Contact_Address:

Address_Type: mailing and physical address

Address: 3301 Gun Club Road

MARCO.gen
City: West Palm Beach
State_or_Province: Florida
Postal_Code: 33406-4680
Country: USA
Contact_Voice_Telephone: (561) 753 2400 ex 4717
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

This survey was prepared using GPS and Leveling instruments. The horizontal location of the benchmark was performed using GPS.

The vertical data was collected using a Topcon DL 102 Level.

Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90. Elevations are based on NAVD 88.

Logical_Consistency_Report:

Horizontal data was established using sub-meter GPS equipment. Vertical data was established using control points COL-15 and 872 4991 D Tidal.

Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90. Elevations are based on NAVD 88.

Completeness_Report:

Project Results

Horizontal location taken at the benchmark.

Lat. +25°57' 33.81"

Long. -081°43' 24.25"

N 591588'

E 418479'

Site Benchmark.

INJ BM 01 is a standard U.S. Army Corps of Engineers brass disc, bearing INJ BM 01 2004 JAX DIST SFWMD, set in a 10" round concrete monument (poured in place, with a magnet placed nearby).

To reach from the South end of the Marco Island bridge on CR951; Go south 1 mile along CR951 to the intersection with Bald Eagle Drive; Turn right (North) and go to the intersection with

Windward Drive; turn right (East) and follow into Marco Island Utilities plant; Inside plant, follow paved and then gravel road, east and north to

Injection Well on the West side of the gravel road.

United States Department of the Interior Geologic Survey Quadrangle map -- MARCO ISLAND 1995

Benchmark INJ BM 01 - 5.20' NAVD 88; 6.54 NGVD 29

North bolt of well casing - 9.19' NAVD 88; 10.53 NGVD 29

Positional_Accuracy:

 Horizontal_Positional_Accuracy:

Horizontal

 Horizontal_Positional_Accuracy_Report:

The horizontal position of the benchmark INJ BM 01, was established using a differential, submeter, wide area augmentation system, GPS, using Coast Guard and FAA beacons for corrected positioning (Trimble Geoplotter CE with Beacon on a Belt) in accordance with the Florida Minimum Technical Standards (Chapter 61G17-6).

 Quantitative_Horizontal_Positional_Accuracy_Assessment:

 Horizontal_Positional_Accuracy_Value: 1 meter

 Horizontal_Positional_Accuracy_Explanation: The intended

positional accuracy for this survey is 1 meter.

 Vertical_Positional_Accuracy:

Level Line

 Vertical_Positional_Accuracy_Report:

A level line was run originating on BM "COL-15" with an NAVD 88 elevation, running through BM "INJ BM 01" and

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terminating on BM "872 4991 D TIDAL". A level line was then run originating on BM "INJ BM 01" with an NAVD 88 elevation, running through the North bolt on the injection well casing terminating on BM "INJ BM 01", in accordance with Florida Minimum Technical Standards (Chapter 61G17-6).

The level line was also readjusted using the values from the NGS NGVD 29 adjustment of the CERP vertical network.

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: -0.004 meter

Vertical_Positional_Accuracy_Explanation: NAVD 88 level

run, 0.004 meter closure in 1311 meters, max. allowed 0.014 meter (MTS)

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:

Multiples_Dates/Times:

Process_Step:

Process_Description:

The horizontal work was performed using Trimble Geoplotter CE with Beacon on a Belt GPS.

The level line was performed using a Topcon DL 102 level.

Three wire methodology was used.

Process_Date: 20050126

Process_Time: 17000000

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:

Albers_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_Araska:

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:

MARCO.gen
 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:
 Equi_rectangular:
 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:
 Download_Instructions:
 Offline_Option:
 Recording_Capacity:
 Available_Time_Period:
 Time_Period_Information:
 Single_Date/Time:
 Range_of_Dates/Times:
 Multiple_Dates/Times:
 Metadata_Reference_Information:
 Metadata_Date: 20050202
 Metadata_Contact:
 Contact_Information:
 Contact_Person_Primary:
 Contact_Person: Joseph S. Boggs
 Contact_Organization: Consul-Tech Surveying & Mapping
 Contact_Organization_Primary:
 Contact_Position: Project Surveyor
 Contact_Address:
 Address_Type: mailing and physical address
 Address: 24831 Old 41 Road
 City: Bonita Springs
 State_or_Province: Florida
 Postal_Code: 34135
 Country: USA
 Contact_Voice_Telephone: (239) 947-0266
 Contact_Facsimile_Telephone: (239) 947-1323
 Contact_Electronic_Mail_Address: j.boggs@cte.cc

Joseph S. Boggs
Consul-Tech

MARCO.gen

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

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: Local time

Metadata_Security_Information:

S.F.W.M.D. Injection Well – Marco Island Utilities

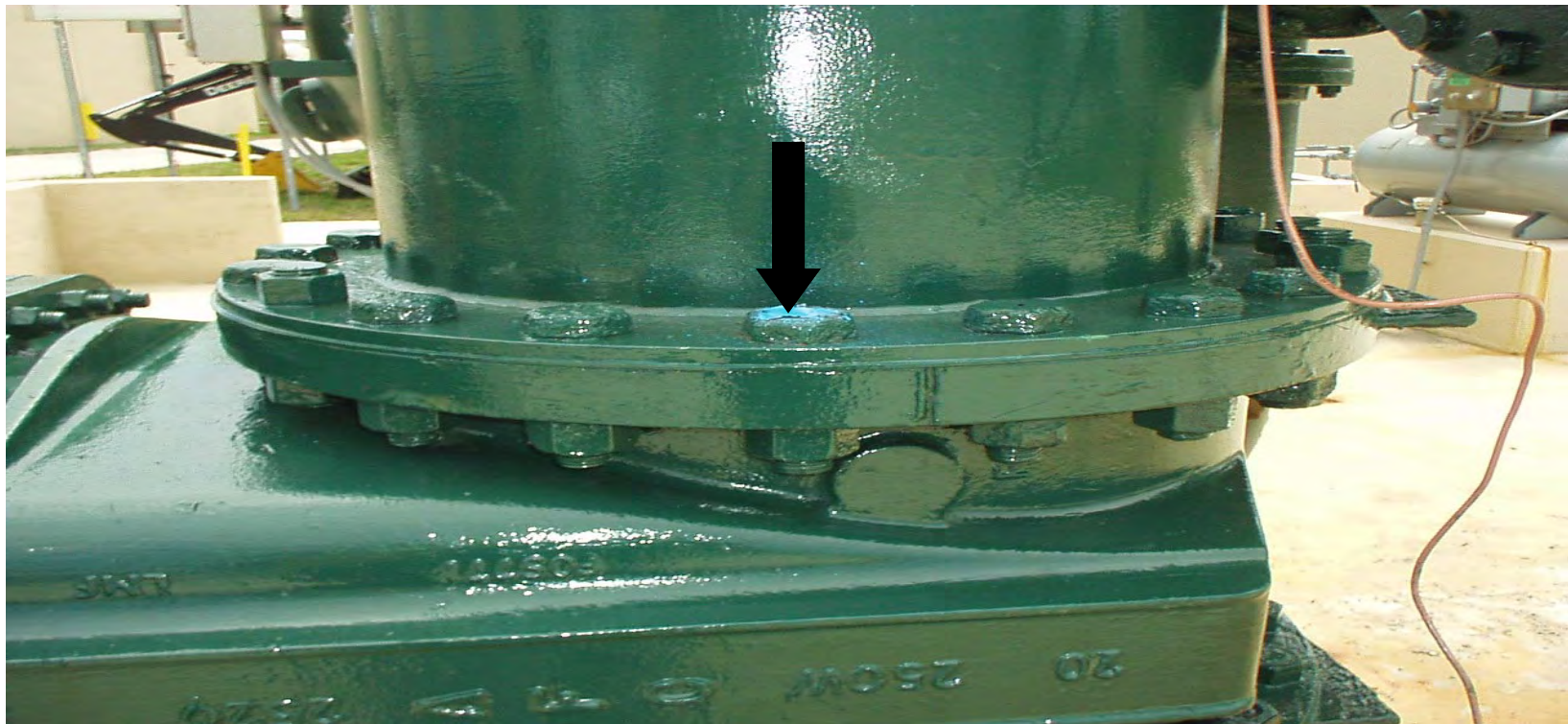


Consul-Tech Surveying & Mapping, Inc.

Date of Survey: January 25, 2005

Looking: Southeast

S.F.W.M.D. Injection Well Reference Point – Marco Island Utilities



- Consul-Tech Surveying & Mapping, Inc.
- Date of Picture: March 16, 2005
- Looking: South at Injection Well

S.F.W.M.D. Injection Well – Marco Island Utilities



Consul-Tech Surveying & Mapping, Inc.

Date of Survey: January 25, 2005

Looking: Northwest

S.F.W.M.D. Injection Well – Marco Island Utilities



Consul-Tech Surveying & Mapping, Inc.

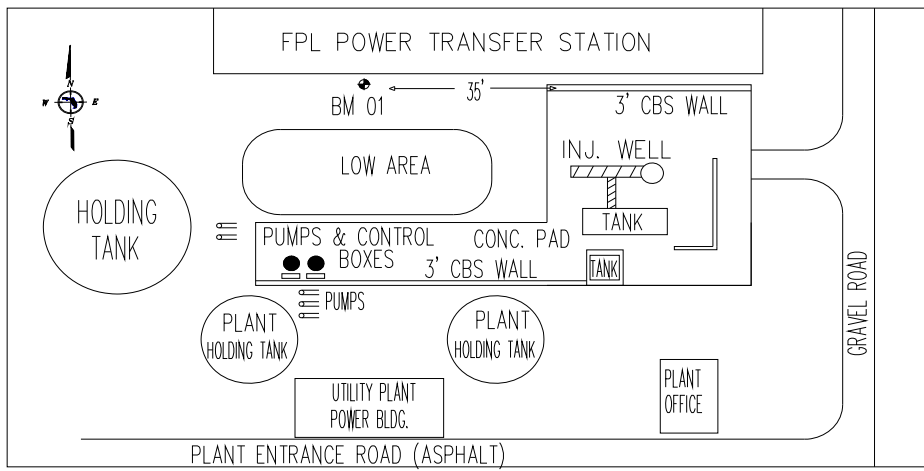
Date of Survey: January 25, 2005

Looking: At "INJ BM 01 2004"



COUNTY COLLIER		PROJECT DEEP WATER INJECTION WELL SITE		DESIGNATION INJ BM 01 2004	
SECTION 08		TOWNSHIP 52 SOUTH		RANGE 26 EAST	
GEOGRAPHIC INDEX OF QUAD Florida					
Established by Consul-Tech Surveying and Mapping, inc.			NAME OF QUADRANGLE MARCO ISLAND 1995		
SURVEYOR <u>Joseph S. Boggs</u> DATE <u>1/26/05</u>			FIELD BOOK <u>516-7</u> PAGE <u>47</u>		
HORIZONTAL DATUM: 83/90 ZONE EAST					
VERTICAL DATUM: NAVD 88 & NGVD 29 (Based on NGS adjustment of CERP vertical network)					
CONTROL ACCURACY: HORIZONTAL SUB-METER VERTICAL 3 rd Order					
STATE PLANE COORDINATES Feet		N=591588		E=418479	
				EL.=5.20 (NAVD 88)	
				EL.=6.54 (NGVD 29)	
LATITUDE 25°57'33.81" N			LONGITUDE 081°43'24.25" W		
DESCRIPTION					
To reach from the South end of the Marco Island bridge on CR951; Go south 1 mile along CR951 to the intersection with Bald Eagle Drive; Turn right (North) and go to the intersection with Windward Drive; turn right (East) and follow into Marco Island Utilities plant; Inside plant, follow paved and then gravel road, east					
and north to Injection Well on the West side of the gravel road. Benchmark is 35' west of the northwest corner of the well concrete pad.					
Notable Land marks:					

SKETCH



The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.15

1 National Geodetic Survey, Retrieval Date = MARCH 14, 2005

AC3384 *****

AC3384 DESIGNATION - COL 15

AC3384 PID - AC3384

AC3384 STATE/COUNTY- FL/COLLIER

AC3384 USGS QUAD - MARCO ISLAND (1995)

AC3384

AC3384 *CURRENT SURVEY CONTROL

AC3384 * NAD 83(1986)- 25 57 14.7 (N) 081 43 29.2 (W) HD HELD2

AC3384 * NAVD 88 - 0.787 (meters) 2.58 (feet) ADJUSTED

AC3384

AC3384 GEOID HEIGHT- -23.21 (meters) GEOID03

AC3384 DYNAMIC HT - 0.786 (meters) 2.58 (feet) COMP

AC3384 MODELED GRAV- 979,037.7 (mgal) NAVD 88

AC3384

AC3384 VERT ORDER - FIRST CLASS II

AC3384

AC3384.The horizontal coordinates were established by autonomous hand held GPS

AC3384.observations and have an estimated accuracy of +/- 10 meters.

AC3384

AC3384.The orthometric height was determined by differential leveling

AC3384.and adjusted by the National Geodetic Survey in January 2002.

AC3384

AC3384.The geoid height was determined by GEOID03.

AC3384

AC3384.The dynamic height is computed by dividing the NAVD 88

AC3384.geopotential number by the normal gravity value computed on the

AC3384.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AC3384.degrees latitude (g = 980.6199 gals.).

AC3384

AC3384.The modeled gravity was interpolated from observed gravity values.

AC3384

AC3384; North East Units Estimated Accuracy

AC3384;SPC FL E - 179,729. 127,412. MT (+/- 10 meters HH2 GPS)

AC3384

AC3384 SUPERSEDED SURVEY CONTROL

AC3384

AC3384 NAVD 88 (06/15/91) 0.795 (m) 2.61 (f) UNKNOWN 2 1

AC3384 NGVD 29 (09/01/92) 1.194 (m) 3.92 (f) ADJUSTED 2 1

AC3384

AC3384.Superseded values are not recommended for survey control.

AC3384.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AC3384. [See file dsdata.txt](#) to determine how the superseded data were derived.

AC3384

AC3384_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMJ2743770800(NAD 83)

AC3384_MARKER: DB = BENCH MARK DISK

AC3384_SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.

AC3384_SP_SET: DROP INLET APRON

AC3384_STAMPING: COL 15 1984 BSM

AC3384_MARK LOGO: FLDNR

AC3384_MAGNETIC: N = NO MAGNETIC MATERIAL

AC3384_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

AC3384_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AC3384+SATELLITE: SATELLITE OBSERVATIONS - March 18, 2002

AC3384

AC3384 HISTORY - Date Condition Report By

AC3384 HISTORY - 1984 MONUMENTED FLDNR

AC3384 HISTORY - 1990 GOOD USPSQD

AC3384 HISTORY - 19900509 GOOD FLDNR

AC3384 HISTORY - 20010701 GOOD LDBLS

AC3384 HISTORY - 20020318 GOOD MAPTEC

AC3384

AC3384 STATION DESCRIPTION

AC3384

AC3384'DESCRIBED BY FL DEPT OF NAT RES 1984

AC3384'IN MARCO ISLAND.

AC3384'BEGIN AT THE JUNCTION OF STATE ROAD 92 WITH STATE ROAD 951 (COLLIER

AC3384' BOULEVARD), GO 1.5 MILES NORTHERLY ON STATE ROAD 951 TO THE
 AC3384' INTERSECTION OF BALD EAGLE DRIVE (COUNTY ROAD C 953). THE MARK BEARS
 AC3384' 26.7 FEET SOUTHEAST OF THE CENTERLINE OF STATE ROAD 951, 39 FEET
 AC3384' SOUTHWEST OF THE CENTERLINE OF C 953, AND 4.1 FEET NORTH OF A CONCRETE
 AC3384' POWER POLE WITH PEDESTRIAN CROSSWALK SIGNALS.
 AC3384' THE MARK IS 1 FT BELOW ROAD.

AC3384'
 AC3384' STATION RECOVERY (1990)
 AC3384'

AC3384' RECOVERY NOTE BY US POWER SQUADRON 1990 (HEA)
 AC3384' RECOVERED IN GOOD CONDITION.

AC3384'
 AC3384' STATION RECOVERY (1990)
 AC3384'

AC3384' RECOVERY NOTE BY FL DEPT OF NAT RES 1990 (VAC)
 AC3384' RECOVERED AS DESCRIBED.

AC3384'
 AC3384' STATION RECOVERY (2001)
 AC3384'

AC3384' RECOVERY NOTE BY LD BRADLEY LAND SURVEYORS 2001 (JCH)
 AC3384' THE MARK IS ABOUT 24.9 KM (15.5 MI) SOUTHEAST OF NAPLES, ON MARCO
 AC3384' ISLAND, IN
 AC3384' SECTION 8, TOWNSHIP 52 SOUTH, RANGE 26 EAST, COLLIER COUNTY FLORIDA.
 AC3384' OWNERSHIP-
 AC3384' FLORIDA DEPARTMENT OF TRANSPORTATION
 AC3384'

AC3384' TO REACH THE MARK FROM THE INTERSECTION OF I-75 AND COUNTY ROAD NO.
 AC3384' 951 (I-75
 AC3384' EXIT 15, NEAR NAPLES) GO SOUTH ON COUNTY ROAD NO. 951 11.1 KM (6.9 MI)
 AC3384' TO THE
 AC3384' INTERSECTION WITH U.S. NO. 41 (TAMIAMI TRAIL) PROCEED SOUTH ON STATE
 AC3384' ROAD NO.
 AC3384' 951 11.2 KM (6.95 MI) TO THE CENTER OF THE MARCO PASS BRIDGE NO.
 AC3384' 030148 (JUDGE
 AC3384' S.S. JOLLEY BRIDGE, OVER MARCO RIVER), CONTINUE SOUTH-SOUTHWEST ALONG
 AC3384' STATE
 AC3384' ROAD 951 (COLLIER BLVD) 2.0 KM (1.25 MI) TO THE INTERSECTION WITH BALD
 AC3384' EAGLE
 AC3384' DRIVE AND THE MARK IN THE SOUTHEAST CORNER OF THE INTERSECTION.
 AC3384'

AC3384' THE MARK IS SET FLUSH ON A 0.46 M (1.5 FT) WIDE CONCRETE APRON ON THE
 AC3384' SOUTHEAST SIDE OF A CONCRETE DROP INLET, ABOUT 0.30 M (1.0 FT) BELOW
 AC3384' THE
 AC3384' LEVEL OF THE NORTHBOUND LANES OF STATE ROAD NO. 951 (COLLIER BLVD),
 AC3384' 8.05 M
 AC3384' (26.4 FT) SOUTHEAST OF THE CENTERLINE OF THE NORTHBOUND LANES OF STATE
 AC3384' ROAD
 AC3384' 951 (COLLIER BLVD.), 11.80 M (38.7 FT) SOUTHWEST OF THE CENTERLINE OF
 AC3384' BALD
 AC3384' EAGLE DRIVE, AND 1.25 M (4.1 FT) NORTH OF THE NORTH CORNER OF A 0.61
 AC3384' M (2.0
 AC3384' FT) SQUARE CONCRETE POWER POLE WITH PEDESTRIAN CROSSWALK SIGNALS.
 AC3384'

AC3384'
 AC3384'
 AC3384'
 AC3384'
 AC3384'
 AC3384' STATION RECOVERY (2002)
 AC3384'

AC3384' RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CP)
 AC3384' RECOVERED AS DESCRIBED.
 AC3384'

*** retrieval complete.
 Elapsed Time = 00:00:00

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.

Line/Part: L26216 SSN+: mark floated, SSN*: mark constrained & constrained

Mark ID SSN PID Designation Geopotential Elevation Codes

1170 0608 AA7625 872 4991 D TIDAL 1.0382 1.0594

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.15

1 National Geodetic Survey, Retrieval Date = MARCH 14, 2005

AA7625 *****

AA7625 TIDAL BM - This is a Tidal Bench Mark.

AA7625 DESIGNATION - 872 4991 D TIDAL

AA7625 PID - AA7625

AA7625 STATE/COUNTY- FL/COLLIER

AA7625 USGS QUAD - MARCO ISLAND (1995)

AA7625

AA7625 *CURRENT SURVEY CONTROL

AA7625

AA7625* NAD 83(1999)- 25 57 35.11914(N) 081 43 37.95029(W) ADJUSTEDAA7625* NAVD 88 - 0.653 (meters) 2.14 (feet) ADJUSTED

AA7625

AA7625 X - 825,656.230 (meters) COMP

AA7625 Y - -5,678,544.381 (meters) COMP

AA7625 Z - 2,775,044.012 (meters) COMP

AA7625 LAPLACE CORR- -1.47 (seconds) DEFLEC99

AA7625 ELLIP HEIGHT- -22.55 (meters) (12/09/02) GPS OBS

AA7625 GEOID HEIGHT- -23.22 (meters) GEOID03

AA7625 DYNAMIC HT - 0.652 (meters) 2.14 (feet) COMP

AA7625 MODELED GRAV- 979,038.1 (mgal) NAVD 88

AA7625

AA7625 HORZ ORDER - A

AA7625 VERT ORDER - FIRST CLASS II

AA7625 ELLP ORDER - FOURTH CLASS I

AA7625

AA7625.The horizontal coordinates were established by GPS observations

AA7625.and adjusted by the National Geodetic Survey in December 2002.

AA7625

AA7625.The orthometric height was determined by differential leveling

AA7625.and adjusted by the National Geodetic Survey in January 2002.

AA7625

AA7625.This Tidal Bench Mark is designated as VM 9761

AA7625.by the [Center for Operational Oceanographic Products and Services.](#)

AA7625

AA7625.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AA7625

AA7625.The Laplace correction was computed from DEFLEC99 derived deflections.

AA7625

AA7625.The ellipsoidal height was determined by GPS observations

AA7625.and is referenced to NAD 83.

AA7625

AA7625.The geoid height was determined by GEOID03.

AA7625

AA7625.The dynamic height is computed by dividing the NAVD 88

AA7625.geopotential number by the normal gravity value computed on the

AA7625.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AA7625.degrees latitude (g = 980.6199 gals.).

AA7625

AA7625.The modeled gravity was interpolated from observed gravity values.

AA7625

AA7625;

AA7625;SPC FL E - North East Units Scale Factor Converg.

AA7625;UTM 17 - 2,871,429.257 427,196.684 MT 0.99966544 -0 19 06.0

AA7625

AA7625! - Elev Factor x Scale Factor = Combined Factor

AA7625!SPC FL E - 1.00000354 x 1.00000664 = 1.00001018

AA7625!UTM 17 - 1.00000354 x 0.99966544 = 0.99966898

AA7625

AA7625 SUPERSEDED SURVEY CONTROL

AA7625

AA7625 NAVD 88 (12/19/96) 0.672 (m) 2.20 (f) UNKNOWN 2 1

AA7625

AA7625.Superseded values are not recommended for survey control.

AA7625.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AA7625.[See file dsdata.txt](#) to determine how the superseded data were derived.

AA7625

AA7625_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMJ2719771429(NAD 83)

AA7625_MARKER: DJ = TIDAL STATION DISK
AA7625_SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.
AA7625_SP_SET: DROP INLET
AA7625_STAMPING: 4991 D 1989
AA7625_MARK LOGO: NOS
AA7625_MAGNETIC: N = NO MAGNETIC MATERIAL
AA7625_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
AA7625_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AA7625+SATELLITE: SATELLITE OBSERVATIONS - March 18, 2002

AA7625	HISTORY	Date	Condition	Report By
AA7625	HISTORY	- 1989	MONUMENTED	FLDNR
AA7625	HISTORY	- 19900801	GOOD	FLDNR
AA7625	HISTORY	- 20010701	GOOD	LDBLS
AA7625	HISTORY	- 20020228	GOOD	MAPTEC
AA7625	HISTORY	- 20020318	GOOD	MAPTEC

AA7625
AA7625 STATION DESCRIPTION

AA7625 DESCRIBED BY FL DEPT OF NAT RES 1990 (RLM)
AA7625 THE BENCHMARK IS LOCATED AT THE NORTHERN END OF MARCO ISLAND, NEAR THE
AA7625 INTERSECTION OF BALD EAGLE DRIVE AND BARFIELD DRIVE, IN SECTION 8,
AA7625 TOWNSHIP 52 S, RANGE 26 E. TO REACH THE BENCHMARK FROM THE
AA7625 INTERSECTION OF STATE ROAD 92 AND STATE ROAD 951 (COLLIER BOULEVARD)
AA7625 ON MARCO ISLAND, GO NORTH THEN NORTHEAST ON STATE ROAD 951 (COLLIER
AA7625 BOULEVARD) FOR 1.5 MI (2.4 KM) TO THE INTERSECTION OF STATE ROAD 951
AA7625 (COLLIER BOULEVARD) AND COUNTY ROAD C-953 (BALD EAGLE DRIVE), TURN
AA7625 LEFT AND GO NORTH ON COUNTY ROAD C-953 (BALD EAGLE DRIVE) FOR 0.4 MI
AA7625 (0.6 KM) TO THE INTERSECTION OF BALD EAGLE DRIVE AND BARFIELD DRIVE
AA7625 AND THE MARK ON THE LEFT. THE MARK IS 122.7 FT (37.4 M) NORTH OF THE
AA7625 CENTERLINE OF LAVAL PLAZA DRIVEWAY, 42.5 FT (13.0 M) WEST OF THE
AA7625 CENTERLINE OF BALD EAGLE DRIVE AND 26.2 FT (8.0 M) SOUTH OF THE
AA7625 EXTENDED CENTERLINE OF BARFIELD DRIVE.

AA7625
AA7625 STATION RECOVERY (2001)

AA7625 RECOVERY NOTE BY LD BRADLEY LAND SURVEYORS 2001 (JCH)
AA7625 THE MARK IS ABOUT 25.6 KM (15.9 MI) SOUTHEAST OF NAPLES, ON MARCO
AA7625 ISLAND, IN
AA7625 SECTION 8, TOWNSHIP 52 SOUTH, RANGE 26 EAST COLLIER COUNTY FLORIDA.
AA7625 OWNERSHIP-
AA7625 COLLIER COUNTY
AA7625
AA7625 TO REACH THE MARK FROM THE INTERSECTION OF I-75 AND COUNTY ROAD NO.
AA7625 951 (I- 75
AA7625 EXIT 15, NEAR NAPLES) GO SOUTH ON COUNTY ROAD NO. 951 11.1 KM (6.9 MI)
AA7625 TO THE
AA7625 INTERSECTION WITH U.S. NO. 41 (TAMIAMI TRAIL) PROCEED SOUTH ON STATE
AA7625 ROAD NO.
AA7625 951 11.2 KM (6.95 MI) TO THE CENTER OF THE MARCO PASS BRIDGE NO.
AA7625 030148 (JUDGE
AA7625 S.S. JOLLEY BRIDGE, OVER MARCO RIVER), CONTINUE SOUTH-SOUTHWEST ALONG
AA7625 STATE
AA7625 ROAD 951 (COLLIER BLVD) 2.0 KM (1.25 MI) TO THE INTERSECTION WITH BALD
AA7625 EAGLE
AA7625 DRIVE, TURN RIGHT AND GO NORTHWEST 0.6 KM (0.4 MI) ALONG BALD EAGLE
AA7625 DRIVE TO
AA7625 THE INTERSECTION WITH NORTH BARFIELD DRIVE ON THE RIGHT AND THE MARK
AA7625 ON THE
AA7625 LEFT.
AA7625
AA7625 THE MARK IS SET FLUSH ON TOP OF THE NORTHEAST CORNER OF A DROP INLET,
AA7625 ABOUT
AA7625 0.30 M (1.0 FT) BELOW THE LEVEL OF BALD EAGLE DRIVE, 12.92 M (42.4 FT)
AA7625 SOUTHWEST OF THE CENTERLINE OF BALD EAGLE DRIVE, 7.80 M (25.6 FT)
AA7625 SOUTHEAST OF
AA7625 AND EXTENDED CENTERLINE OF NORTH BARFIELD DRIVE, 0.70 M (2.3 FT)
AA7625 SOUTHWEST OF
AA7625 THE WESTERLY SIDE OF A 1.22 M (4 FT) WIDE CONCRETE SIDEWALK, 37.55 M
AA7625 (123.2 FT)
AA7625 NORTHWEST OF THE CENTER OF THE NORTHERN ASPHALT DRIVEWAY ENTRANCE INTO
AA7625 LANAI
AA7625 PLAZA, AND 44.71 M (146.7 FT) EAST OF THE SOUTHERN ASPHALT DRIVEWAY
AA7625 EXITING
AA7625 ANGLERS PLAZA.

AA7625
AA7625
AA7625
AA7625
AA7625
AA7625 STATION RECOVERY (2002)

DATASHEETS

AA7625
AA7625'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (RLT)
AA7625'RECOVERED AS DESCRIBED
AA7625'
AA7625'
AA7625'
AA7625'
AA7625
AA7625 STATION RECOVERY (2002)
AA7625
AA7625'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CP)
AA7625'RECOVERED AS DESCRIBED
AA7625'

*** retrieval complete.
Elapsed Time = 00:00:00

sta	three wire +	mean	three wire hi	-	mean	elevation	distance	ADJ BY DIST	adjust elevation	description	std dev	stdev *2*100	variance
	4.860	4.861	8.673				220.7				1.104	220.7	-0.0001
	3.758												
8				6.070	4.890	3.783	236.0	0.0015	3.794		1.180	236.0	0.0000
				3.710									
	5.290												
	4.170	4.172	7.955				223.5				1.118	223.5	-0.0002
	3.055												
9				5.570	4.529	3.426	208.0	0.0014			1.040	208.0	-0.0001
				4.528									
				3.490					3.439				
	5.150												
	4.080	4.080	7.506				214.0				1.070	214.0	0.0000
	3.010												
10				6.545	5.380	2.126	233.0	0.0015	2.140	872 4991 D TIDAL (2.14')	1.165	233.0	0.0000
				5.380									
				4.215									
							4,303.7		in feet			4,303.7	-0.01
							0.815		in miles				in feet
							sq. rt. Of dist. In miles x 0.05' :	0.045	allowable error				
							0.014		field error				

sta	three wire +	mean	three wire hi	-	mean	elevation	distance	ADJ BY DIST	adjust elevation	description	std dev	stdev *2*100	variance
	4.860	4.861	10.010				220.7				1.104	220.7	-0.0001
8	3.758			6.070	4.890	5.120	236.0	0.0013	5.130		1.180	236.0	0.0000
				3.710									
	5.290						223.5				1.118	223.5	-0.0002
	4.170	4.172	9.292										
	3.055												
9				5.570	4.529	4.763	208.0	0.0012			1.040	208.0	-0.0001
				4.528									
				3.490					4.774				
	5.150						214.0				1.070	214.0	0.0000
	4.080	4.080	8.843										
	3.010												
10				6.545	5.380	3.463	233.0	0.0013	3.476	872 4991 D TIDAL (2.14')	1.165	233.0	0.0000
				5.380									
				4.215									
							4,303.7		in feet			4,303.7	-0.01
							0.815		in miles				in feet
							sq. rt. Of dist. In miles x 0.05' :		allowable error				
							0.045		field error				
							0.012						