

Data Sheet and Surveyor's Report for

Buck Island Ranch Monitoring Well Benchmarks

Description: Monitoring Well "BUCK 06" Date: June 17, 2005

Location: Buck Island Ranch, Highlands County, Florida

Project Results

Benchmarks established:

1. "BUCK 06A": 3" bronze survey disk set in concrete monument

a. Elevation: **8.1209 m**

2. "BUCK 06B": Top of existing 1.5" steel pipe

a. Elevation: **8.2437 m**

3. "BUCK 06C": Top of existing 3" PVC monitoring well casing

a. Elevation: **9.1492 m**

Party Chief: **G. Royer** Field Book: **154**, Pages **1 - 45**

Survey Date: **February – May 2005** Bench Mark: "**H-437**" El. **9.395 m / 30.82 ft.**

"J-437" El. 11.555 m / 37.91 ft.

Vertical Datum: **NAVD1988**

NGVD 1929 Offset: + **1.210 ft.** (add this value to convert to NGVD 1929)

Comments:

The offset value referred to as "NGVD 1929 Offset" was derived by subtracting the published NAVD 1988 elevation from the published NGVD 1929 elevation for NGS Benchmarks "H-437 and J-437".

G.P.S. POSITION (NAD 83, Florida East Zone, Sub-meter):

Well Site: "BUCK 06A" N = 1017571 E = 586493

NAVD 88 - North American Vertical Datum of 1988 NGVD29 -National Geodetic Vertical Datum of 1929 NAD 83 (Horizontal Datum) North American Datum of 1983

*Note: See the SFWMD Benchmark Description Sheet for additional information

SURVEYOR'S REPORT

Vertical Control Survey

Hyatt Survey Services, Inc. operating under sub-contract to George F Young, Inc. and the South Florida Water Management District was tasked with the execution of a Vertical Control Survey in support of the District's Benchmark Densification and Monitoring Well Elevation Initiatives.

Purpose

The purpose of this survey was to establish benchmarks at each of 22 monitoring wells on the Buck Island Ranch Facility in Highlands County, Florida. A minimum of two (2) benchmarks were established at each well.

- 1. "A" benchmarks are NGS Class "C", "poured-in-place," concrete monuments with SFWMD bronze disks set flush with the ground.
- 2. "B" benchmarks were set on the top of existing 1.5" steel pipes at each well site. Each pipe protrudes approximately 3" above the surrounding ground.
- 3. "C" benchmarks were set on the top of the 3" PVC well casing at each well site.

Elevations were determined by digital differential leveling performed in accordance with the Minimum Technical Standards (MTS) for Vertical Control Surveys as set forth in Chapter 61G17-6 FAC and the requirements for Second-Order Class II Vertical Control Surveys as established by the Federal Geodetic Control Sub-committee.

Vertical Control

All elevations are based on National Geodetic Survey Benchmarks "H-437" and "J-437" both Second Order, Class I vertical control monuments. The vertical datum used was NAVD 88 (North American Vertical Datum of 1988).

Level Lines

All level runs were double-run under differing atmospheric conditions and meet or exceed the formula of the Square Root in miles of the level run multiplied by 0.03'. A Leica DNA 3003 digital level and two 3 meter aluminum bar-coded "Invar Rods" with aluminum struts were utilized to obtain all leveling data.

The processing of the field data was performed by and under the supervision of Mr. Ronnie Taylor, Florida's NGS Advisor. NGS' "WDDPROC" leveling software was utilized to process the field data and to create the NGS benchmark descriptions.

Prepared by:	Hyatt Survey Services,	Inc
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11007 8th Avenue East Bradenton, Florida 34212

(941) 748-4693

Prepared for: South Florida Water Management District

3301 Gun Club Road

West Palm Beach, Florida 33406

Notes:

- 1) This survey meets all applicable requirements of the Florida Minimum Technical Standards as contained in Chapter 61G17-6 FAC.
- 2) Not valid without the signature and the original raised seal of the Florida Surveyor and Mapper in responsible Charge.
- 3) Additions or deletions to this data by anyone other than the signing party are prohibited without written consent of the signing party.

Hyatt Survey Services, Inc.

Russell P. Hyatt, PSM, VP Professional Surveyor and Mapper License Number 5303

Signed:	Se	eal:
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BUCK06



Prime Contractor: George F. Young, Inc. Subcontractor: Hyatt Survey Services, Inc. Date of Photo: June 17, 2005

View: Well Site

BUCK06A



Prime Contractor: George F. Young, Inc. Subcontractor: Hyatt Survey Services, Inc.

Date of Photo: June 9, 2005

View: Monument

BUCK06B



Prime Contractor: George F. Young, Inc. Subcontractor: Hyatt Survey Services, Inc. Date of Photo: June 9, 2005

View: Pipe

BUCK06C



Prime Contractor: George F. Young, Inc. Subcontractor: Hyatt Survey Services, Inc.

Date of Photo: June 9, 2005

View: Well

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SUN CODE -(0) 25% SUNNY (1) 25-75% SUNNY (2) >75% SUNNY

OTHER INFO CODES

CODE 22 - REJECT PREVIOUS BACKSIGHT AND FORSIGHT (NO INFO ENTRIES - PRESS REC)

CODE 33 - GRADIENT TEMPERATURES (INFO 1 - LOWER PROBE - NO DECIMAL 761 FOR 76.1) (INFO 2 - UPPER PROBE - NO DECIMAL 761 FOR 76.1)

CODE 9999 - END OF DAY, CHG OBS, CHG EQUIPMENT (NO INFO ENTRIES - PRESS REC)

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CODE 2 - EQUIPMENT USED

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CODE 11 - BEGINNING SECTION INFORMATION

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19	BKK51		1578	. 1	890	0/2

SECTION OBSERVATONS INFORMATION (Recall from level using UP/DN arrows)

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WIND CODE - (0) 0-6 MPH (1) 6-15 MPH (2) >15 MPH

SUN CODE -(0) 25% SUNNY (1) 25-75% SUNNY (2) >75% SUNNY

OTHER INFO CODES

CODE 22 - REJECT PREVIOUS BACKSIGHT AND FORSIGHT (NO INFO ENTRIES - PRESS REC)

CODE 33 - GRADIENT TEMPERATURES (INFO 1 - LOWER PROBE - NO DECIMAL 761 FOR 76.1)

(INFO 2 - UPPER PROBE - NO DECIMAL 761 FOR 76.1)

CODE 9999 - END OF DAY, CHG OBS, CHG EQUIPMENT (NO INFO ENTRIES - PRESS REC)

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CODE 1 -	BEGINNING OF DAY OR CHANGE IN OBSERVER OR INSTRUMENT TYPE

INFO 1	INFO 2	OBS'R	INFO 3 -INST TYPE	INFO 4 -TEMP CODE
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CODE 2 - EQUIPMENT USED

INFO I - INST SERIAL	INFO 2 - INST	ROD	INFO 3 - ROD I	INFO 4 - ROD 2
	COLLIMATION	CODE	SERIAL #	SERIAL#
		396		

CODE 11 - BEGINNING SECTION INFORMATION

SPSN	BM	BENCH MARK	INFO 1	INFO 2	INFO 3	DIR
#	DESIG	STAMPING	TIME (HHMM)	Rod On Mark #		FB)
2011	BICK 5	BJCK-58 2005"	1040		820	

CODE 99 - ENDING SECTION INFORMATION

SP\$N	BM	BENCH MARK	INFO 1	INFO 2	INFO 3	INFO 4
#	DESIG	STAMPING	TIME (HHMM)	Rod On Mark #	TEMP	W/S=
0020	BICK 6	BLOX-64 "0205"	1326 FM		814	11/0

SECTION OBSERVATONS INFORMATION (Recall from level using UP/DN arrows)

TOTAL	TOTAL DISTANCE	ACCUMULATED	ELEV DIFFERENCE
SETUPS	(D)	IMB (d)	(GROUND HGT)
3	2981	27-37400	-01927

CLOSURE	REMARKS	
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В		
DIF		
ALW'D		

WIND CODE - (0) 0-6 MPH (1) 6-15 MPH (2) >15 MPH

SUN CODE - (0) 25% SUNNY (1) 25-75% SUNNY (2) >75% SUNNY

OTHER INFO CODES

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CODE 9999 - END OF DAY, CHG OBS, CHG EQUIPMENT (NO INFO ENTRIES - PRESS REC)

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Identification_Information: Ci tati on: Ci tati on_Informati on: Originator: George F. Young, Inc. Publication_Date: Unknown Publication_Time: Unknown Title: Buck Island Ranch Monitoring Well Benchmarks Publication_Information: Publication_Place: Not published Publisher: None Description: Abstract: South Florida Water Management District Buck Island Ranch Monitoring Well Benchmarks Purpose: To establish NAVD 88 and NGVD 29 elevations and benchmarks at each of twenty two well sites. Time_Period_of_Content: Time_Period_Information: Range_of_Dates/Times: Beginning_Date: 20050217 Ending_Date: 20050617 Currentness_Reference: Pending NGS Approval Status: Progress: In work Maintenance_and_Update_Frequency: Unknown Spati al _Domai n: Boundi ng_Coordi nates: West_Boundi ng_Coordi nate: -081°13' 03" East_Boundi ng_Coordi nate: -080°12' 06" North_Boundi ng_Coordi nate: +27°08' 41" South_Boundi ng_Coordi nate: +27°07' 50" Keywords: Theme: Theme_Keyword_Thesaurus: None Theme_Keyword: Record Survey Theme_Keyword: Well Site PI ace: PI ace_Keyword_Thesaurus: None PI ace_Keyword: S. F. W. M. D. Well L28WFUVM PI ace_Keyword: Sec. 18, Twp. 48 S., Rge. 33 E. PI ace_Keyword: Hendry County, Florida Access_Constraints: None Use_Constraints: None Point_of_Contact: Contact_Information: Contact_Person_Pri mary: Contact_Person: Howard Ehmke Contact_Organization: South Florida Water Management District Contact_Position: Professional Surveyor & Mapper Contact_Address: Address_Type: mailing and physical address Address: 3301 Gun Club Road City: West Palm Beach State_or_Province: Florida Postal_Code: 33406 Country: USA Contact_Voi ce_Tel ephone: (561) 686-8800, Ext. 4636 Contact_Facsimile_Telephone: (561) 681-6265 Contact_Electronic_Mail_Address: hehmke@sfwmd.gov Hours_of_Service: 8:00 am to 5:00 pm EST

Page 1

Data_Quality_Information:

Attri bute_Accuracy:

Attri bute_Accuracy_Report:

This survey was prepared using sub-meter GPS and DNA 3003 Leveling instruments. The horizontal location of the and benchmark was performed using sub-meter GPS. The vertical data was collected using a Leica DNA 3003 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 Coastguard corrected sub-meter GPS Vertical data was established using control points H-437 and J-437.

Completeness_Report:

Horizontal location taken at approximate center of well. Site Benchmark is a 3" bronze disk set in top of poured in place 48"x12" round concrete monument THE MARK IS ABOUT 15 MI SOUTHEAST OF LAKE PLACID, 12.5 MI NORTHWEST OF LAKEPORT IN SECTION 34, TOWNSHIP 38 SOUTH, RANGE 31 EAST. TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 27 AND STATE ROAD 70, GO EAST ON STATE ROAD 70 FOR 7.16 MI TO JC DURRANCE ROAD (A DIRT ROAD) ON THE RIGHT, TURN RIGHT AND GO SOUTH FOR 4.51 MI TO THE END OF JC DURRANCE ROAD AND A TEE INTERSECTION WITH UNNAMED DIRT ROAD. TURN RIGHT, GO THROUGH A GATE AND HEAD WEST O. 5 MI TO THREE GATES. GO THROUGH THE CENTER GATE AND HEAD SOUTH O. 59 MI TO THE SOUTH SIDE OF A BRIDGE OVER A CANAL AND THE NORTH SIDE OF A LARGE FENCED PASTURE. THE MARK IS 1, 125 FT WEST AND 1,655 FT SOUTH OF THE SOUTH END OF THE BRIDGE. THE MARK IS LOCATED ON THE SOUTH SIDE OF A MONITORING WELL ENCLOSED BY A 4 FT WOODEN FENCE. THE MARK IS A 3 IN BRONZE SURVEY DISK SET IN CONCRETE, 2 FT SOUTH OF THE FENCE, SET FLUSH WITH THE GROUND. THE NAD 1983 STATE PLANE COORDINATE POSITION OF 1017571 FT, E=589493 FT. NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE NONE

THE MARK IS ABOUT 15 MI SOUTHEAST OF LAKE PLACID, 12.5 MI NORTHWEST OF LAKEPORT IN SECTION 34, TOWNSHIP 38 SOUTH, RANGE 31 EAST. TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 27 AND STATE ROAD 70, GO EAST ON STATE ROAD 70 FOR 7.16 MI TO JC DURRANCE ROAD (A DIRT ROAD) ON THE RIGHT, TURN RIGHT AND GO SOUTH FOR 4.51 MI TO THE END OF JC DURRANCE ROAD AND A TEE INTERSECTION WITH UNNAMED DIRT ROAD. TURN RIGHT, GO THROUGH A GATE AND HEAD WEST O. 5 MI TO THREE GATES. GO THROUGH THE CENTER GATE AND HEAD SOUTH 0.59 MI TO THE SOUTH SIDE OF A BRIDGE OVER A CANAL AND THE NORTH SIDE OF A LARGE FENCED PASTURE. THE MARK IS 1,128 FT WEST AND 1,651 FT SOUTH OF THE SOUTH END OF THE BRIDGE. THE MARK IS LOCATED ON THE SOUTH SIDE OF A MONITORING WELL ENCLOSED BY A 4 FT

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Buck6. met
                     WOODEN FENCE. THE MARK IS 1.5 IN STEEL PIPE, 1
                     FT INSIDE THE FENCED ENCLOSURE, SET 3 IN ABOVE THE SURROUNDING GROUND. THE NAD 1983 STATE PLANE COORDINATE POSITION OF THE 1017573 FT, E=589487 FT. Notable Land
                     NONE
                     THE MARK IS ABOUT 15 MI SOUTHEAST OF
                     LAKE PLACID, 12.5 MI NORTHWEST OF LAKEPORT IN
                     SECTION 34, TOWNSHIP 38 SOUTH, RANGE 31
                     EAST. TO REACH THE MARK FROM THE JUNCTION
                     OF U.S. HIGHWAY 27 AND STATE ROAD 70, GO EAST
                     ON STATE ROAD 70 FOR 7. 16 MI TO JC DURRANCE ROAD (A DIRT ROAD) ON THE RIGHT, TURN RIGHT AND GO SOUTH FOR 4. 51 MI TO THE END OF JC DURRANCE ROAD AND A TEE INTERSECTION WITH
                     UNNAMED DIRT ROAD. TURN RIGHT, GO THROUGH
                     A GATE AND HEAD WEST O. 5 MI TO THREE GATES.
                     GO THROUGH THE CENTER GATE AND HEAD
                     SOUTH 0.59 MI TO THE SOUTH SIDE OF A BRIDGE
                     OVER A CANAL AND THE NORTH SIDE OF A LARGE
                     FENCED PASTURE. THE MARK IS 1131 FT WEST AND 1648FT SOUTH OF THE SOUTH END OF THE BRIDGE. THE MARK IS A 3 IN PVC MONITORING WELL PIPE INSIDE A STEEL BOX SURROUNDED BY A 4 FT
                     WOODEN FENCE. THE MARK IS SET 4 FT ABOVE THE
                     SURROUNDING GROUND. THE NAD 1983 STATE
                     PLANE COORDINATE POSITION OF THE MARK IS
                     1017578 FT, E=589487 FT. Notable Land marks:
                     NONE
                     N270759
                     W0811218
          Posi ti onal _Accuracy:
Hori zontal _Posi ti onal _Accuracy:
                                Hori zontal _Posi ti onal _Accuracy_Report:
                                          The horizontal positions were established with
                                          GPS
                     Verti cal _Posi ti onal _Accuracy:
                                Vertical_Positional_Accuracy_Report:
Second Order, Class II
                                          The methodology was approved by Mr. Ronnie Taylor, State, Geodetic Advisor
                                           The NAVD 88 elevations established for this survey
                                          determined by using the published values for
                                          H-437 and J-437.
           Li neage:
                     Process_Step:
                                Process_Description:
                                          Horizontal data was established using Coastguard
                                          corrected sub-meter GPS
                                          Vertical data was established using control
                                           points H-437 and J-437.
                                Process_Date: 20050617
Metadata_Reference_Information:
Metadata_Date: 20050617
          Metadata_Contact:
                     Contact_Information:
                                Contact_Person_Pri mary:
                                           Contact_Person: Catherine A. Pollak
                                           Contact_Organization: George F. Young, Inc.
                                Contact_Position: Project Surveyor
```

Page 3

sub-meter

benchmark

was

Buck6. met

Contact_Address:

Address_Type: mailing and physical address

Address:

Address:

299 Dr. Martin Luther King, Jr.
Street, North
City: St. Petersburg
State_or_Province: Florida
Postal_Code: 33701
Country: USA
Contact_Voice_Telephone: (727) 822-4317
Contact_Facsimile_Telephone: (727) 822-2919
Contact_Electronic_Mail_Address: pollak@georgefyoung.com
Hours_of_Service: 8:00 am to 5:00 pm EST
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial

Metadata

Metadata_Standard_Version: 19980601



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY: HIGHLANDS	PROJECT: BUC	K ISLAND RANCH	DESIGNATION	N: BUCK 06A				
SECTION 34	TOWNSHIP 38	SOUTH RANGE		ST				
GEOGRAPHIC INDEX OF QUAD								
Established by HYATT SURVEY SE Recovered by	ERVICES	NAME OF QUADRANGLE: BRIGHTON NW						
SURVEYOR R. HYATT DATE	<u>06 /16 / </u> 2005	FIELD BOOK 15	4F	PAGE 1 - 45				
HORIZONTAL DATUM: 1927	9 <mark>83</mark> Other_	(circle	e one) ZONE	E or W				
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)					
CONTROL ACCURACY: HORIZON	NTAL 1 2 3	4th (circle or	e) VERTICAL	1 <mark>2</mark> 3				
STATE PLANE COORDINATES	X = 589493 FT	Y = 1017571	FT EL. =	8.1209 m				
LATITUDE: N270759		LONGITUDE: W0811218						
	DESC	RIPTION						

To Reach:

THE MARK IS ABOUT 15 MI SOUTHEAST OF LAKE PLACID, 12.5 MI NORTHWEST OF LAKEPORT IN SECTION 34, TOWNSHIP 38 SOUTH, RANGE 31 EAST.

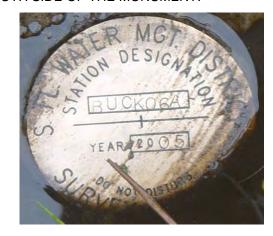
TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 27 AND STATE ROAD 70, GO EAST ON STATE ROAD 70 FOR 7.16 MI TO JC DURRANCE ROAD (A DIRT ROAD) ON THE RIGHT, TURN RIGHT AND GO SOUTH FOR 4.51 MI TO THE END OF JC DURRANCE ROAD AND A TEE INTERSECTION WITH UNNAMED DIRT ROAD. TURN RIGHT, GO THROUGH A GATE AND HEAD WEST 0.5 MI TO THREE GATES. GO THROUGH THE CENTER GATE AND HEAD SOUTH 0.59 MI TO THE SOUTH SIDE OF A BRIDGE OVER A CANAL AND THE NORTH SIDE OF A LARGE FENCED PASTURE. THE MARK IS 1,125 FT WEST AND 1,655 FT SOUTH OF THE SOUTH END OF THE BRIDGE.

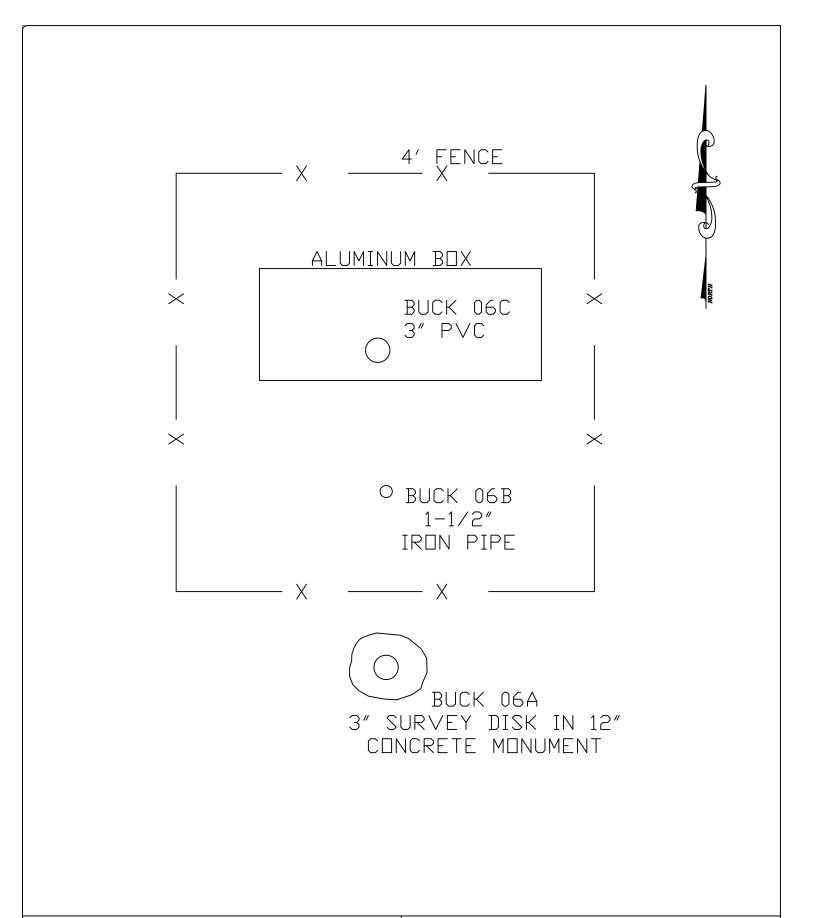
THE MARK IS LOCATED ON THE SOUTH SIDE OF A MONITORING WELL ENCLOSED BY A 4 FT WOODEN FENCE. THE MARK IS A 3 IN BRONZE SURVEY DISK SET IN CONCRETE, 2 FT SOUTH OF THE FENCE, SET FLUSH WITH THE GROUND. THE NAD 1983 STATE PLANE COORDINATE POSITION OF THE MARK IS N=1017571 FT, E=589493 FT.

NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE MONUMENT.

Notable Land marks: NONE

SKETCH: SEE ATTACHED SKETCH





TITLE

SKETCH OF BUCK 06 MONITORING WELL

Hyatt Survey Services, Inc.

11007 8TH AVENUE EAST BRADENTON, FLORIDA 34212 PH. (941) 748-4693 FAX (941) 744-1643 LB No.: 7203

FILE NAME JOB NUMBER **REVISION SCALE** DATE DRAWN BY SHEET 12-0538 RSF BUCK06.DWG 1 OF 1 NOT TO SCALE 6/17/05



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY: HIGHLANDS	PROJECT: BUC	CK ISLAND RANCH	DESIGNATION: BUCK 06B				
SECTION 34	TOWNSHIP 38	SOUTH	RANGE 31	EAST			
GEOGRAPHIC INDEX OF QUAD							
Established by HYATT SURVEY SE Recovered by	ERVICES	NAME OF QUADRA	NGLE: BR	IGHTON NW			
SURVEYOR R. HYATT DATE	<u>06 /16 / </u> 2005	FIELD BOOK 15	4	PAGE <u>1 - 45</u>			
HORIZONTAL DATUM: 1927	<mark>983</mark> Other_	(circle	e one) ZO	NE <mark>E</mark> or W			
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)				
CONTROL ACCURACY: HORIZON	NTAL 1 2 3	4th (circle or	ne) VERTIC	AL 1 <mark>2</mark> 3			
STATE PLANE COORDINATES	X = 589487 FT	Y = 1017573	FT E	L. = 8.2437 m			
LATITUDE: N270759		LONG	GITUDE: WO	0811218			
	DESC	RIPTION					

To Reach:

THE MARK IS ABOUT 15 MI SOUTHEAST OF LAKE PLACID, 12.5 MI NORTHWEST OF LAKEPORT IN SECTION 34, TOWNSHIP 38 SOUTH, RANGE 31 EAST.

TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 27 AND STATE ROAD 70, GO EAST ON STATE ROAD 70 FOR 7.16 MI TO JC DURRANCE ROAD (A DIRT ROAD) ON THE RIGHT, TURN RIGHT AND GO SOUTH FOR 4.51 MI TO THE END OF JC DURRANCE ROAD AND A TEE INTERSECTION WITH UNNAMED DIRT ROAD. TURN RIGHT, GO THROUGH A GATE AND HEAD WEST 0.5 MI TO THREE GATES. GO THROUGH THE CENTER GATE AND HEAD SOUTH 0.59 MI TO THE SOUTH SIDE OF A BRIDGE OVER A CANAL AND THE NORTH SIDE OF A LARGE FENCED PASTURE. THE MARK IS 1,128 FT WEST AND 1,651 FT SOUTH OF THE SOUTH END OF THE BRIDGE.

THE MARK IS LOCATED ON THE SOUTH SIDE OF A MONITORING WELL ENCLOSED BY A 4 FT WOODEN FENCE. THE MARK IS 1.5 IN STEEL PIPE, 1 FT INSIDE THE FENCED ENCLOSURE, SET 3 IN ABOVE THE SURROUNDING GROUND. THE NAD 1983 STATE PLANE COORDINATE POSITION OF THE MARK IS N=1017573 FT, E=589487 FT.

Notable Land marks: NONE

SKETCH: SEE ATTACHED SKETCH



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

			Rev. 4/01	
COUNTY: HIGHLANDS	PROJECT: BUC	CK ISLAND RANCH	DESIGNATION: BUCK 06C	
SECTION 34	TOWNSHIP 38	SOUTH	RANGE 31 EAST	
GEOGRAPHIC INDEX OF QUAD				
Established by HYATT SURVEY S Recovered by	<u>ERVICES</u>	NAME OF QUADRA	ANGLE: BRIGHTON NW	
SURVEYOR R. HYATT DATE	<u>06 /16 / </u> 2005	FIELD BOOK 15	54 PAGE 1 - 45	
HORIZONTAL DATUM: 1927 1	983 Other_	(circle	e one) ZONE <mark>E</mark> or W	
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)	
CONTROL ACCURACY: HORIZO	NTAL 1 2 3	4th (circle on	ne) VERTICAL 1 2 3	
STATE PLANE COORDINATES	X = 589487 FT	Y = 1017578	FT EL. = 9.1492 m	
LATITUDE: N270759		LONG	GITUDE: W0811218	
	DESC	RIPTION		
To Reach: THE MARK IS ABOUT 15 MI SOUTH SECTION 34, TOWNSHIP 38 SOUTH	H, RANGE 31 EAS	iT.		
TO REACH THE MARK FROM THE STATE ROAD 70 FOR 7.16 MI TO JO				١

TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 27 AND STATE ROAD 70, GO EAST ON STATE ROAD 70 FOR 7.16 MI TO JC DURRANCE ROAD (A DIRT ROAD) ON THE RIGHT, TURN RIGHT AND GO SOUTH FOR 4.51 MI TO THE END OF JC DURRANCE ROAD AND A TEE INTERSECTION WITH UNNAMED DIRT ROAD. TURN RIGHT, GO THROUGH A GATE AND HEAD WEST 0.5 MI TO THREE GATES. GO THROUGH THE CENTER GATE AND HEAD SOUTH 0.59 MI TO THE SOUTH SIDE OF A BRIDGE OVER A CANAL AND THE NORTH SIDE OF A LARGE FENCED PASTURE. THE MARK IS 1131 FT WEST AND 1648 FT SOUTH OF THE SOUTH END OF THE BRIDGE.

THE MARK IS A 3 IN PVC MONITORING WELL PIPE INSIDE A STEEL BOX SURROUNDED BY A 4 FT WOODEN FENCE. THE MARK IS SET 4 FT ABOVE THE SURROUNDING GROUND. THE NAD 1983 STATE PLANE COORDINATE POSITION OF THE MARK IS N=1017578 FT, E=589487 FT.

Notable Land marks: NONE

SKETCH: SEE ATTACHED SKETCH

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
AE6391 DESIGNATION - H 437
         PID - AE6391
STATE/COUNTY- FL/HIGHLANDS
 AE6391
 AE6391
 AE6391 USGS QUAD - BRIGHTON NW (1983)
 AE6391
                                       *CURRENT SURVEY CONTROL
 AE6391
 AE6391
 AE6391 * NAD 83(1986) - 27 08 14.
                                                       081 12 06.
                                               (N)
                                                                          (W)
                                                                                    SCALED
 AE6391* NAVD 88
                                                                30.82
                                               (meters)
                                                                          (feet)
                                                                                    ADJUSTED
 AE6391
 AE6391
          GEOID HEIGHT-
                                      -25.20
                                               (meters)
                                                                                    GEOID03
 AE6391
          DYNAMIC HT -
                                       9.380 (meters)
                                                                 30.77 (feet)
                                                                                    COMP
          MODELED GRAV-
                                 979,125.1
 AE6391
                                                                                   NAVD 88
                                                (mgal)
 AE6391
 AE6391
          VERT ORDER - SECOND
                                         CLASS I
 AE6391
 AE6391. The horizontal coordinates were scaled from a topographic map and have
 AE6391.an estimated accuracy of +/- 6 seconds.
 AE6391. The orthometric height was determined by differential leveling
 AE6391.and adjusted by the National Geodetic Survey in March 1998.
 AE6391
 AE6391. The geoid height was determined by GEOID03.
 AE6391
AE6391. The dynamic height is computed by dividing the NAVD 88 AE6391. geopotential number by the normal gravity value computed on the AE6391. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AE6391.degrees latitude (g = 980.6199 \text{ gals.}).
 AE6391
 AE6391. The modeled gravity was interpolated from observed gravity values.
 AE6391
                                                             Units Estimated Accuracy MT (+/- 180 meters Scaled)
 AE6391;
                                  North
                                                   East
 AE6391; SPC FL E
                              310,620.
                                                180,010.
 AE6391
 AE6391
                                        SUPERSEDED SURVEY CONTROL
 AE6391
 AE6391 No superseded survey control is available for this station.
 AE6391
 AE6391_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML800016(NAD 83) AE6391_MARKER: DV = VERTICAL CONTROL DISK
 AE6391_SETTING: 38 = BRIDGE ABUTMENT
 AE6391_STAMPING: H 437 1995
 AE6391_MARK LOGO: NGS
 AE6391_MAGNETIC: N = NO MAGNETIC MATERIAL
 AE6391_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 AE6391 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AE6391+SATELLITE: SATELLITE OBSERVATIONS - 1995
 AE6391
         HISTORY
HISTORY
 AE6391
                         - Date
                                       Condition
                                                            Report By
 AE6391
                         - 1995
                                       MONUMENTED
                                                            FLDED
 AE6391
                                        STATION DESCRIPTION
 AE6391
 AE6391
 AE6391'DESCRIBED BY FL DEPT OF ENV PRO 1995 (LGB)
 AE6391'THE MARK IS ABOUT 15.0 MI (24.1 KM) SOUTHEAST OF LAKE PLACID, 12.5 MI
 AE6391'(20.1 KM) NORTHWEST OF LAKEPORT IN SECTION 27, TOWNSHIP 38 SOUTH, AE6391'RANGE 31 EAST. TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY
 AE6391'27 AND STATE ROAD 70 SOUTH OF LAKE PLACID, GO EAST ON STATE ROAD 70
AE6391'FOR 7.7 MI (12.4 KM) TO THE WEST END OF THE BRIDGE OVER CANAL C 41
AE6391'(HARNEY POND CANAL), TURN RIGHT AT THE WEST END OF BRIDGE, PASSING
AE6391'THROUGH THE GATE, GO SOUTH ON THE LEVEE ROAD FOR 1.05 MI (1.69 KM) TO
AE6391'A SHARP CURVE TO THE RIGHT, CONTINUE WEST ON THE LEVEE ROAD FOR 1.85
AE6391'MI (2.98 KM) TO A CURVE TO THE LEFT, CONTINUE SOUTH ON THE LEVEE ROAD
 AE6391'FOR 2.1 MI (3.4 KM) TO A CURVE TO THE LEFT, CONTINUE SOUTHEAST ON THE
 AE6391'LEVEE ROAD FOR 2.7 MI (4.3 KM) TO A BRIDGE ON THE LEFT AND THE MARK
 AE6391'SET FLUSH IN THE SOUTHWEST BRIDGE ABUTMENT. LOCATED 41.7 FT (12.7 M)
```

AE6391'NORTH OF THE APPROXIMATE CENTERLINE OF THE LEVEE ROAD, 18.9 FT (5.8 M) AE6391'NORTH OF A CARSONITE WITNESS POST, 8.4 FT (2.6 M) WEST OF THE AE6391'APPROXIMATE CENTERLINE OF THE BRIDGE AND 5.9 FT (1.8 M) SOUTH OF A AE6391'GATE. NOTE ALL GATES ON LEVEE ARE LOCKED, FOR KEY CONTACT CARL ZEISS, AE6391'SOUTH FLORIDA WATER MANAGEMENT DISTRICT, WEST PALM BEACH, FL. PHONE AE6391'NUMBER (407) 686-8800.

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

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
AE6392 DESIGNATION - J 437
         PID - AE6392
STATE/COUNTY- FL/HIGHLANDS
 AE6392
         PID
 AE6392
         USGS QUAD - BRIGHTON NW (1983)
 AE6392
 AE6392
                                 *CURRENT SURVEY CONTROL
 AE6392
 AE6392
 AE6392* NAD 83(1999) - 27 08 13.27828(N)
                                              081 11 02.84354(W)
                                                                       ADJUSTED
 AE6392* NAVD 88
                               11.555
                                                      37.91
                                       (meters)
                                                              (feet)
                                                                       ADJUSTED
 AE6392
                            870,509.596 (meters)
 AE6392 X
                                                                       COMP
 AE6392
         Y
                        -5,612,861.809 (meters)
                                                                       COMP
 AE6392
                          2,891,728.917 (meters)
                                                                       COMP
 AE6392
        LAPLACE CORR-
                                -3.52
                                                                       DEFLEC99
                                        (seconds)
 AE6392
        ELLIP HEIGHT-
                                                           (05/31/01) GPS OBS
                                -13.67
                                        (meters)
        GEOID HEIGHT-
                                -25.25
 AE6392
                                         (meters)
                                                                       GEOID03
                                11.537 (meters)
 AE6392 DYNAMIC HT -
                                                       37.85 (feet) COMP
 AE6392
        MODELED GRAV-
                            979,122.9 (mgal)
                                                                       NAVD 88
 AE6392
 AE6392
         HORZ ORDER -
                        FIRST
        VERT ORDER -
 AE6392
                        SECOND
                                   CLASS I
 AE6392
         ELLP ORDER -
                        FOURTH
                                   CLASS I
 AE6392
 AE6392. The horizontal coordinates were established by GPS observations
 AE6392.and adjusted by the National Geodetic Survey in May 2001.
 AE6392
 AE6392. The orthometric height was determined by differential leveling
 AE6392.and adjusted by the National Geodetic Survey in March 1998.
 AE6392
 AE6392. The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AE6392
 AE6392. The Laplace correction was computed from DEFLEC99 derived deflections.
 AE6392
 AE6392. The ellipsoidal height was determined by GPS observations
 AE6392.and is referenced to NAD 83.
 AE6392
 AE6392. The geoid height was determined by GEOID03.
 AE6392
AE6392. The dynamic height is computed by dividing the NAVD 88 AE6392. geopotential number by the normal gravity value computed on the AE6392. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AE6392.degrees latitude (g = 980.6199 \text{ gals.}).
 AE6392
 AE6392. The modeled gravity was interpolated from observed gravity values.
 AE6392
 AE6392;
                             North
                                           East
                                                    Units Scale Factor Converg.
                                        181,748.129 MT 0.99994529 -0 05 02.3
 AE6392; SPC FL E
                          310,599.174
 AE6392;UTM 17
                      - 3,001,625.181
                                        481,754.356
                                                       MT 0.99960411
                                                                         -0 05 02.3
 AE6392
 AE6392!
                        Elev Factor x
                                         Scale Factor =
                                                           Combined Factor
 AE6392!SPC FL E
                         1.00000215 x
                                         0.99994529 =
                                                           0.99994744
                                                           0.99960626
 AE6392!UTM 17
                          1.00000215 x
                                          0.99960411 =
 AE6392
 AE6392
                                  SUPERSEDED SURVEY CONTROL
 AE6392
 AE6392
         NAD 83(1990) - 27 08 13.27723(N)
                                              081 11 02.84324(W) AD(
        ELLIP H (05/30/00) -13.70
NAVD 88 (05/30/00) 11.55
                                                                   GP (
 AE6392
                                       ( m )
 AE6392
                                                      37.9
                                                               (f) LEVELING
                                        (m)
 AE6392
 AE6392. Superseded values are not recommended for survey control.
 AE6392.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AE6392. See file dsdata.txt to determine how the superseded data were derived.
 AE6392
 AE6392_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML8175401625(NAD 83)
 AE6392_MARKER: I = METAL ROD
 AE6392 SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
```

```
AE6392 STAMPING: J 437 1995
AE6392 MARK LOGO: NGS
AE6392_PROJECTION: FLUSH
AE6392_MAGNETIC: N = NO MAGNETIC MATERIAL
AE6392_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AE6392 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AE6392+SATELLITE: SATELLITE OBSERVATIONS - July 13, 1999
AE6392_ROD/PIPE-DEPTH: 24.4 meters
AE6392
AE6392
           HISTORY
                            - Date
                                           Condition
                                                                   Report By
AE6392
           HISTORY
                            - 1995
                                           MONUMENTED
                                                                   FLDEP
                            - 19990713 GOOD
AE6392
                                                                   RΔH
          HISTORY
AE6392
                                             STATION DESCRIPTION
AE6392
AE6392
AE6392'DESCRIBED BY FL DEPT OF ENV PRO 1995 (LGB)
AE6392'THE MARK IS ABOUT 15.0 MI (24.1 KM) SOUTHEAST OF LAKE PLACID, 12.1 MI AE6392'(19.5 KM) NORTHWEST OF LAKEPORT IN SECTION 25, TOWNSHIP 38 SOUTH,
AE6392 RANGE 31 EAST. TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY
AE6392'27 AND STATE ROAD 70 SOUTH OF LAKE PLACID, GO EAST ON STATE ROAD 70
AE6392'FOR 7.7 MI (12.4 KM) TO THE WEST END OF THE BRIDGE OVER CANAL C 41 AE6392'(HARNEY POND CANAL), TURN RIGHT AT THE WEST END OF BRIDGE, PASSING
AE6392'THROUGH THE GATE, GO SOUTH ON THE LEVEE ROAD FOR 1.05 MI (1.69 KM) TO AE6392'A SHARP CURVE TO THE RIGHT, CONTINUE WEST ON THE LEVEE ROAD FOR 1.85 AE6392'MI (2.98 KM) TO A CURVE TO THE LEFT, CONTINUE SOUTH ON THE LEVEE ROAD
AE6392'FOR 2.1 MI (3.4 KM) TO A CURVE TO THE LEFT, CONTINUE SOUTHEAST ON THE
AE6392'LEVEE ROAD FOR 2.7 MI (4.3 KM) TO ANOTHER CURVE TO THE LEFT, CONTINUE
AE6392'EAST ON THE LEVEE ROAD FOR 1.1 MI (1.8 KM) TO A PAIR OF 5.0 FT (1.5 M)
AE6392'DIAMETER CULVERTS, A GATE, AND THE MARK JUST EAST OF THE GATE ON THE AE6392'RIGHT, A STAINLESS STEEL ROD DRIVEN TO THE DEPTH OF 80.0 FT (24.4 M)
AE6392'RECESSED 0.4 FT (12.2 CM) WITH A LOGO CAP FLUSH WITH THE GROUND. AE6392'LOCATED 118.0 FT (36.0 M) SOUTH OF THE TOP SCARP OF CANAL C 41, 90.0
AE6392'FT (27.4 M) NORTH OF A FENCE LINE, 6.0 FT (1.8 M) EAST OF THE SOUTH AE6392'GATE POST AND 2.5 FT (0.8 M) EAST OF A CARSONITE WITNESS POST. NOTE AE6392'ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP. NOTE ALL GATES
AE6392'ON LEVEE ARE LOCKED, FOR KEY CONTACT CARL ZEISS, SOUTH FLORIDA WATER
AE6392'MANAGEMENT DISTRICT, WEST PALM BEACH, FL. PHONE NUMBER (407)
AE6392'686-8800.
AE6392
AE6392
                                             STATION RECOVERY (1999)
AE6392
AE6392'RECOVERY NOTE BY BERRYMAN & HENIGAR 1999 (BH)
AE6392'RECOVERED AS DESCRIBED.
*** retrieval complete.
Elapsed Time = 00:00:00
```

West Side Bench Runs

		Wes	t Side Bench Fo	Runs reward Run #1							Re	verse Run #2					Preliminary	Preliminary	
				Benchmark	Sum of "Plus"	Sum of "Minus"	Delta = Difference in						Sum of "Plus"	Sum of "Minus"	Delta = Difference in		Adjusted Elevation	Prorated Elevation	Benchmark
Plus	н	Minus	Elevation	Description	Column	Column	Elevation	Plus	н	Minus	Elevation	Description	Column	Column	Elevation	Mean Delta	(meters)	Adjustment	Description
1.5769	10.9719		9.3950	H-437		00.0		1.5290	9.5759		8.0469	Buck 1A	00	•••••		ou Doita	8.0469	8.0479	Buck 1A
1.2373	10.2816	1.9276	9.0443					1.6929	10.5401	0.7287	8.8472								
1.4202	10.2451	1.4567	8.8249					1.1648	9.8373	1.8676	8.6725								
1.9284	10.2106	1.9629	8.2822					1.2641	10.1098	0.9916	8.8457								
1.4947 1.4255	10.3185	1.3868	8.8238 9.0077					1.6112 1.2763	10.6170 10.4593	1.1040 1.4340	9.0058 9.1830								
1.6000	10.4332	1.6578	8.7754					1.6381	10.7007	1.3967	9.0626								
1.4450	10.3749	1.4455	8.9299		İ			1.3182	10.4256	1.5933	9.1074								
1.3653	10.2412	1.4990	8.8759					1.4297	10.3343	1.5210	8.9046								
1.3029	10.4064	1.1377	9.1035					1.2983	10.3796	1.2530	9.0813								
1.4358	10.4914	1.3508	9.0556					1.6185	10.5848	1.4133	8.9663								
1.4350	10.5093	1.4171	9.0743					1.4891	10.5131	1.5608	9.0240								
1.3662 1.8000	10.3915	1.4840 1.6633	9.0253 8.7282		1			1.5914 1.2818	10.4590 10.3154	1.6455 1.4254	8.8676 9.0336								
1.5585	10.5262	1.4154	9.1128					1.4516	10.2345	1.5325	8.7829								
1.3980	10.6202	1.4491	9,2222					1.5334	10.3955	1.3724	8.8621								
1.8185	10.6895	1.7492	8.8710		1			1.4060	10.3779	1.4236	8.9719								
1.2979	10.2080	1.7794	8.9101					1.5885	10.5146	1.4518	8.9261								
1.2827	9.8445	1.6462	8.5618					1.4112	10.3117	1.6141	8.9005								
1.0878	10.0836	0.8487	8.9958					1.2995	10.3217	1.2895	9.0222			•					
1.5901	9.8335	1.8402	8.2434					1.5650	10.9147	0.9720	9.3497								
1.5609	9.5286	1.8658	7.9677	B :1.44	00.4070	00 7777	4.0504	1.6021	11.1659	1.3509	9.5638	11.407	00 0007	00.740	4.0477	1.0100			
		1.4837	8.0449	Buck 1A	32.4276	33.7777	-1.3501			1.7713	9.3946	H-437	32.0607	30.713	1.3477	1.3489			-
1.6026	9.6475		8.0449	Buck 1A				1.5308	9.5124		7.9816	Buck 2A					7.98255	7.9839	Buck 2A
1.4547	9.6357	1.4665	8.1810	Zuok iii				1.6312	9.8526	1.2910	8.2214	Duon 27					7.00200		2401(2)(
1.5586	9.8827	1.3116	8.3241					1.4845	9.9331	1.4040	8.4486								
1.4750	9.8521	1.5056	8.3771					1.4619	10.0354	1.3596	8.5735								
1.4788	9.7537	1.5772	8.2749					1.5758	10.0207	1.5905	8.4449								
1.4061	9.6808	1.4790	8.2747					1.4685	9.6838	1.8054	8.2153								
1.3335	9.4576	1.5567	8.1241					1.5098	9.7072	1.4864	8.1974								
1.5206	9.4590	1.5192 1.4775	7.9384 7.9815	Buck 2A	11.8299	11.8933	-0.0634	1.4091	9.6185	1.4978 1.5716	8.2094 8.0469	Buck 1A	12.0716	12.0063	0.0653	0.06435			
		1.4775	7.9015	DUCK ZA	11.0299	11.0933	-0.0634			1.57 16	6.0469	DUCK IA	12.07 16	12.0063	0.0653	0.06435			
1.4975	9.4790		7.9815	Buck 2A	İ			1.2116	9.4564		8.2448	Buck 3B					8.2455	8.2470	Buck 3B
1.4772	9.5316	1.4246	8.0544					1.4400	9.5453	1.3511	8.1053								
1.5121	9.5761	1.4676	8.0640					1.6740	9.6000	1.6193	7.9260								
1.5604	9.7000	1.4365	8.1396		ļ			1.1349	9.4657	1.2692	8.3308		<u> </u>						ļ
		1.4558	8.2442	Buck 3B	6.0472	5.7845	0.2627			1.4841	7.9816	Buck 2A	5.4605	5.7237	-0.2632	-0.26295			
<u> </u>					_				-				 		 				
1.4879	9.7321		8.2442	Buck 3B	 			1.6343	9.8822		8.2479	Buck 4A	1		1		8.248	8.2497	Buck 4A
1.4041	9.9134	1.2228	8.5093	Duok 3D	†			1.5949	9.9508	1.5263	8.3559	Duon 7A			†		0.240	0.2401	Duon 7A
1.4722	9.8024	1.5832	8.3302		1			1.5594	9.9624	1.5478	8.4030		1		1				
1.4825	9.8099	1.4750	8.3274					1.2978	9.7127	1.5475	8.4149								
		1.5638	8.2461	Buck 4A	5.8467	5.8448	0.0019			1.4679	8.2448	Buck 3B	6.0864	6.0895	-0.0031	-0.0025			
													ļ		ļ				ļ
4.7070	40.0400		0.0404	Decelo 44	1			4 0007	40 4470	ļ	0.0470	Durali 44	1		1				1
1.7678 1.4169	10.0139 9.6490	1.7818	8.2461 8.2321	Buck 4A	_			1.8997 1.9971	10.1476 10.2401	1.9046	8.2479 8.2430	Buck 4A	 		 				
1.4169	9.6490	1.7818	8.2321 8.4525		 			1.4298	9.6335	2.0364	8.2430		1		 				+
1.5580	9.6231	1.4907	8.1324		 			1.4290	9.6045	1.4582	8.1753		 		1				+
1.4653	9.7145	1.4412	8.2492					1.4951	9.7084	1.3912	8.2133								
1.4034	9.6725	1.4454	8.2691					1.4795	9.7894	1.3985	8.3099				<u> </u>				
		1.3634	8.3091	Buck 5B	8.7820	8.7190	0.0630			1.4787	8.3107	Buck 5B	9.7304	9.6676	0.0628	0.0629	8.3109	8.3129	Buck 5B
					ļ								ļ						1
					L					l									

				ı		C f	Delte				1	1	C f	C f	Delta =	1	A altrophysical	December	1
						Sum of	Delta =						Sum of	Sum of			Adjusted	Prorated	
Dive		M:	Florestion	Benchmark	Sum of "Plus"	"Minus"	Difference in	Dive		Minne	Florestion	December	"Plus"	"Minus"	Difference in	Maan Daka	Elevation	Elevation	Benchmark
Plus	HI	Minus	Elevation	Description	Column	Column	Elevation	Plus	HI 9.6835	Minus	Elevation 8.1189	Description	Column	Column	Elevation	Mean Delta	(meters)	Adjustment	Description
1.3852	9.6943	4 4770	8.3091	Buck 5B	-			1.5646 1.4111		4.0000		Buck 6A			-		8.1187	8.1209	Buck 6A
1.5208	9.7372	1.4779	8.2164		-				9.7320	1.3626	8.3209				-				
1.5257	9.6598	1.6031	8.1341					1.3968	9.6907	1.4381	8.2939								
1.5919	9.6750	1.5767	8.0831	D .1.04	0.0000	0.0400	0.4000	1.4174	9.7126	1.3955	8.2952	D .1.5D	5 7000	5 5004	0.4040	0.4000			
		1.5585	8.1165	Buck 6A	6.0236	6.2162	-0.1926			1.4019	8.3107	Buck 5B	5.7899	5.5981	0.1918	0.1922			
								1.5887	0.7242		8.1425	Buck 8A					8.14155	8.1440	Buck 8A
1.6317	9.7482		8.1165	Buck 6A				1.3058	9.7312 9.5511	1.4859	8.2453	DUCK OA					0.14133	0.1440	DUCK OA
1.4351	9.7462	1.5469	8.2013	DUCK OA			-	1.6044	9.7062	1.4493	8.1018				-				
1.4351	9.6364	1.5082	8.1282				-	1.3667	9.7062	1.4493	8.2795				-				
1.4376	9.5918	1.4567	8.1542				-	1.4273	9.7208	1.4267	8.2935				-				
1.4376	9.5916	1.4532	8.1386	Buck 8A	5.9871	5.9650	0.0221	1.4462	9.6843	1.4827	8.2381				-				
		1.4552	0.1300	DUCK OA	5.9671	5.9650	0.0221	1.4402	9.0043		8.1189	Duck 64	0.7201	8.7627	-0.0236	-0.02285			
							-			1.5654	0.1109	Buck 6A	8.7391	0./02/	-0.0236	-0.02203			
1.3758	9.5144		8.1386	Buck 8A			-	1.4994	9.6103		8.1109	Buck 9B			-		8.10865	8.1114	Buck 9B
1.5503	9.5724	1.4923	8.0221	DUCK OA			-	1.5640	9.6830	1.4913	8.1190	Buck 3B			-		0.10003	0.1114	Buck 9B
1.0713		1.0069						1.4371		1.5197	8.1633								
1.4559	9.6368 9.6916	1.4011	8.5655 8.2357				-	1.6971	9.6004 9.6475	1.6500	7.9504				-				
1.3825	9.5313	1.5428	8.1488				-	0.9355	9.5707	1.0123	8.6352				-				
1.4845	9.5313	1.4857	8.1488		 			1.2466	9.5707	1.4783	8.0924		 	-	+			-	
1.6291	9.7701	1.3891	8.1410				-	1.2400	9.3390	1.1965	8.1425	Buck 8A	8.3797	8.3481	0.0316	0.0329			
1.5410	9.6333	1.6778	8.0923				-			1.1905	0.1423	DUCK OA	0.3/9/	0.3401	0.0316	0.0329			
1.5410	9.0333	1.5289	8.1044	Buck 9B	11.4904	11.5246	-0.0342								-				
		1.5289	8.1044	Buck 9B	11.4904	11.5246	-0.0342		-										
									-										
1.5075	9.6119		8.1044	Buck 9B			-	2.0806	10.0293		7.9487	Buck 10A			-		7.9461	7.9490	Buck 10A
		1.4088		DUCK 9D			-	1.3675		1.8075		DUCK IVA			-		7.9461	7.9490	DUCK IVA
1.3061	9.5092 9.4778	1.6995	8.2031 7.8097				-	1.5019	9.5893 9.5761	1.5151	8.2218 8.0742				-				
1.6949	9.4778	1.6418	7.8360					1.3489	9.5761	1.3608	8.0742								
1.0949	9.5509	1.5894	7.0300	Buck 10A	6.1766	6.3395	-0.1629	1.3469	9.3642	1.4533	8.1109	Buck 9B	6.2989	6.1367	0.1622	0.16255			
		1.5894	7.9415	BUCK TUA	0.1766	6.3395	-0.1629		-	1.4533	8.1109	Buck 9B	6.2989	6.1367	0.1622	0.16255			
								1.3549	9.3894		8.0345	Buck 11B					8.03075	8.0340	Buck 11B
1.5843	9.5258		7.9415	Buck 10A				1.3880	9.4430	1.3344	8.0550	DUCKTID					6.03075	0.0340	DUCKTID
1.4540	9.5256	1.4014	8.1244	DUCK IVA			-	1.4131	9.4430	1.3351	8.1079				-				
1.4540	9.4682	1.5257	8.0527				-	1.5197	9.6189	1.4218	8.0992				-				
1.3800	9.4002	1.2504	8.2178				-	1.4410	9.5470	1.5129	8.1060				-				
1.4729	9.5976		8.0122					1.4633		1.4120	8.1350								
1.4729	9.4851	1.5856							9.5983										
1.1798	9.2667	1.3982 1.2417	8.0869 8.0250	Buck 11B	8.4865	8.4030	0.0835	1.4779 1.4363	9.6110 9.4476	1.4652 1.5997	8.1331 8.0113								
		1.2417	8.0250	BUCKTIB	8.4865	8.4030	0.0835	1.4363	9.4476	1.5997	7.9487	Buck 10A	11.4942	11.58	-0.0858	-0.08465			
									-	1.4909	7.9407	DUCK IVA	11.4942	11.50	-0.0000	-0.06465			
1.5778	0.6000		8.0250	Buck 11B				1.5857	10.0007		0.2050	H-437					9.3913	0.2050	H-437
	9.6028	0.0693		DUCKTID			-		10.9807	1 7071	9.3950	П-437			-		9.3913	9.3950	П-437
1.6708 1.4559	10.3053	0.9683 1.6112	8.6345 8.6941		 		 	1.1452 1.2592	10.3988	1.7271 1.4650	9.2536 8.9338		 		+		-		
1.4559	10.1500	1.6112	8.6941 8.8012		 		 	1.2592	10.1930	1.4650	8.9338 8.7814		 		+		-		
	10.0147	1.3488	8.8012 8.8276		 		 	1.5455		1.4116			1		 				1
1.3837	10.2113				-		 		10.1415		8.7045		 						
1.2700	10.0314	1.4499 1.3006	8.7614 8.7308		-			1.7494 1.4437	10.1537 9.9914	1.7372 1.6060	8.4043 8.5477		 		 				
1.2350	10.1104		8.7308		-		 		9.9914		8.4027		 		 				
	10.0850	1.2604	8.8500 8.6055		-			1.3080	9.7107	1.5887			 		 				
1.7861	10.3916	1.4795 1.6279	8.6055		-		 	1.5859 1.3894		1.6181	8.0926 8.1410		 						
1.5440 1.4888	10.3077				-		 	1.3894	9.5304	1.5375		Buck 11B	14.449	15.8095	1 2005	1 20055			
	10.1134	1.6831	8.6246		-		 		 	1.4959	8.0345	BUCKTIB	14.449	15.8095	-1.3605	-1.36055			
1.4763	10.2948	1.2949	8.8185		-		 		 		-		 						
2.0240 1.6362	11.0869	1.6732 1.1949	8.6216 9.4507				 		 		-		 						
1.0362	11.0869			U 407	04 4 447	10 7044	1 2000		1		1		 		 				
	1	1.7013	9.3856	H-437	21.1417	19.7811	1.3606		1		1		 		+			-	
	1				 				1		1		 		+			-	
1 6457	11 0107		0.2050	U 407	-			1 1101	9 7318		0.0004	Dugli 7D	 		 		0.00075	0.000	Buck 7D
1.6157	11.0101	4.0400	9.3950	H-437	 			1.4494	0.1010	4.0404	8.2824	Buck 7B	 		+		8.28275	8.2828	Buck 7B
0.9892	10.1507	1.8492	9.1615		1			1.2762	9.7976	1.2104	8.5214		1		1				1
1.1855	9.8518	1.4844	8.6663					1.5941	10.1972	1.1945	8.6031		ļ		—				ļ
1.2020	9.7236	1.3302	8.5216					1.8115	10.9892	1.0195	9.1777								ļ
		1.4412	8.2824	Buck 7B	4.9924	6.1050	-1.1126		i .	1.5949	9.3943	H-437	6.1312	5.0193	1.1119	1.11225	1	1	

		Eas	t Side Bench I	Runs															
				reward Run #1							Re	verse Run #2					Preliminary	Preliminary	
Plus	Ξ	Minus	Elevation	Benchmark Description	Sum of "Plus" Column	Sum of "Minus" Column	Delta = Difference in Elevation	Plus	н	Minus	Elevation	Description	Sum of "Plus" Column	Sum of "Minus" Column	Delta = Difference in Elevation	Mean Delta	Adjusted Elevation (meters)	Prorated Elevation Adjustment	Benchmark Description
0.9432	12.4982	Willius	11.5550	J-437	Column	Column	Lievation	1.9986	9.8717	Willius	7.8731	Buck 20A	Column	Column	Lievation	Weari Deita	(meters)	Aujustilient	Description
1.3173	11.0350	2.7805	9.7177	0 407				1.5150	9.3642	2.0225	7.8492	Buok 20A							
1.2316	9.8580	2.4086	8.6264					2.9798	11.6494	0.6946	8.6696		1		İ				
2.3465	10.9722	1.2323	8.6257					1.4440	9.8614	3.2320	8.4174								
1.7698	10.3788	2.3632	8.6090					2.8779	12.3977	0.3416	9.5198								
1.3100	9.2574	2.4314	7.9474					1.6664	13.4310	0.6331	11.7646								
		1.3872	7.8702	Buck 20A	8.9184	12.6032	-3.6848			1.8767	11.5543	J-437	12.4817	8.8005	3.6812	3.683	11.55985	11.5550	J-437
1.9430	9.8132		7.8702	Buck 20A				1.4105	9.4864		8.0759	Buck 12B							
1.8603	9.4222	2.2513	7.5619					2.0659	9.7420	1.8103	7.6761								
1.5142	9.4850	1.4514	7.9708					1.4043	9.7940	1.3523	8.3897								
1.4106	9.5257	1.3699	8.1151					1.2964	9.8695	1.2209	8.5731								
1.6551	9.7508	1.4300	8.0957					1.3240	9.8208	1.3727	8.4968								
1.3601	9.5419	1.5690	8.1818					1.3201	9.8779	1.2630	8.5578								
1.4092	9.5751 9.4837	1.3760	8.1659 8.1092					1.4787	9.9123 9.8331	1.4443 1.5727	8.4336 8.3396								
1.3745	9.403/	1.4659 1.4120	8.1092	Buck 12B	12.5270	12.3255	0.2015	1.4935 1.3980	9.8331	1.5727	8.3396		+ +		1				1
		1.4120	0.0717	BUCK 12B	12.5210	12.3233	0.2013	1.0214	9.4757	1.2562	8.4543		1		1				
								1.0214	3.4737	1.6026	7.8731	Buck 20A	14.2128	14.4156	-0.2028	-0.20215	7.87685	7.8725	Buck 20A
1.5000	9.5717		8.0717	Buck 12B				1.5960	9.4309		7.8349	Buck 13A							
1.6934	9.4443	1.8208	7.7509	BUCK 12B				1.3913	9.4309	1.4613	7.0349	DUCK ISA	1						
1.5228	9.5503	1.4168	8.0275					1.5033	9.4892	1.3750	7.9859								
1.4841	9.4715	1.5629	7.9874					1.4601	9.5350	1.4143	8.0749								
11.1011	0.11110	1.6424	7.8291	Buck 13A	6.2003	6.4429	-0.2426		0.0000	1.4591	8.0759	Buck 12B	5.9507	5.7097	0.241	0.2418	8.079	8.0754	Buck 12B
1.7948	9.6239		7.8291	Buck 13A				1.5509	9.4585		7.9076	Buck 14B	.						
1.4983	9 4595	1.6627	7.9612	Buok 10A				1.9861	9.6285	1.8161	7.6424	Buok 14B							
11.1000	0.1000	1.5574	7.9021	Buck 14B	3.2931	3.2201	0.0730	1.0001	0.0200	1.7936	7.8349	Buck 13A	3.537	3.6097	-0.0727	-0.07285	7.8372	7.8339	Buck 13A
1.5392	9.4413		7.9021	Buck 14B				1.5528	9.4298		7.8770	Buck 15A	.						
1.6278	9.4424	1.6267	7.8146	BUCK 14B				1.4583	9.4860	1.4021	8.0277	BUCK ISA	1		1				
1.0270	3.4424	1.5717	7.8707	Buck 15A	3.1670	3.1984	-0.0314	1.4303	3.4000	1.5784	7.9076	Buck 14B	3.0111	2.9805	0.0306	0.031	7.91005	7.9069	Buck 14B
		1.07 17	7.0707		0.1070	0.1001	0.0011			1.0701	7.0070		0.0111	2.0000	0.0000	0.001	7.01000		
1.5848	9 4555		7.8707	Buck 15A				1.4814	9.4556		7.9742	Buck 16B							
0.8872	9.4610	0.8817	8.5738	BUCK IDA				1.7663	9.4556	1.4381	8.0175	DUCK 10D							
1.4545	9.4376	1.4779	7.9831					1.4105	9.3790	1.8153	7.9685								
11.10.10	0.1010	1.4707	7.9669	Buck 16B	3.9265	3.8303	0.0962	1.4276	9.4175	1.3891	7.9899								
						0.0000				1.5405	7.8770	Buck 15A	6.0858	6.183	-0.0972	-0.0967	7.87905	7.8761	Buck 15A
1.4462	9.4131		7.9669	Buck 16B	-			1.6125	9.4649		7.8524	Buck 17A	 		-				
1.6787	9.4573	1.6345	7.7786	2000 100	1			1.3993	9.4322	1.4320	8.0329	20041174			-		 		1
	55.0	1.6114	7.8459	Buck 17A	3.1249	3.2459	-0.1210			1.4580	7.9742	Buck 16B	3.0118	2.89	0.1218	0.1214	7.97575	7.9731	Buck 16B
1.6085	9.4544		7.8459	Buck 17A	-			1.5574	9.5152		7.9578	Buck 18B	 		-				
1.5033	9.5050	1.4527	8.0017	DUCK ITA	1			1.4904	9.4713	1.5343	7.9809	Duon 10D			-		 		1
	5.0000	1.5548	7.9502	Buck 18B	3.1118	3.0075	0.1043		0	1.6189	7.8524	Buck 17A	3.0478	3.1532	-0.1054	-0.10485	7.85435	7.8518	Buck 17A
1.4811	9.4313		7.9502	Duck 40D				1.6693	9.6490		7 0707	Buck 19A							
1.4811		1.2899	7.9502 8.1414	Buck 18B	1			1.1914		1.3468	7.9797 8.3022	DUCK 19A	+ +		+	1	1		1
1.5083	9.9701 9.6509	1.8275	8.1414		1			1.1914	9.4936	1.5358	7.9578	Buck 18B	2.8607	2.8826	-0.0219	-0.02055	7.9592	7.9569	Buck 18B
1.5005	8.0008	1.6815	7.9694	Buck 19A	4.8181	4.7989	0.0192		1	1.0000	1.0010	DUCK 10D	2.0007	2.0020	-0.0213	-0.02033	1.0002	1.3303	DUCK 10D

						Sum of	Delta =						Sum of	Sum of	Delta =		Adjusted	Prorated	L
Dive			Florestion		Sum of "Plus"	"Minus"	Difference in	Dive		M:	Florestion	Danaminstian	"Plus"	"Minus"	Difference in	Maan Dalta	Elevation	Elevation	Benchmark
Plus 1.6394	HI 9.6088	Minus	Elevation 7.9694	Description Buck 19A	Column	Column	Elevation	Plus 1.9151	HI 9.8872	Minus	7.9721	Description Buck 22B	Column	Column	Elevation	Mean Delta	(meters)	Adjustment	Description
1.4109	9.6314	1.3883	8.2205	BUCK 13A				1.9112	9.9174	1.8810	8.0062	Buck 22B							+
1.3867	9.5068	1.5113	8.1201					1.4913	9.8750	1.5337	8.3837								+
1.5512	9.6179	1.4401	8.0667					1.3551	9.8051	1.4250	8.4500								+
1.8902	9.9212	1.5869	8.0310					1.5823	9.8941	1.4933	8.3118								+
1.6636	9.7215	1.8633	8.0579					1.3200	9.6218	1.5923	8.3018								+
		1.7591	7.9624	Buck 22B	9.5420	9.5490	-0.0070		1	1.6421	7.9797	Buck 19A	9.575	9.5674	0.0076	0.0073	7.97975	7.9776	Buck 19A
1.8973	9.8597		7.9624	Buck 22B				2.0585	9.8161		7.7576	Buck 21A							_
1.5705	9.7389	1.6913	8.1684					1.4509	9.6525	1.6145	8.2016								_
1.4919	9.4512	1.7796	7.9593					1.6103	9.6259	1.6369	8.0156								<u> </u>
1.4377	9.5509	1.3380	8.1132					1.4082	9.5472	1.4869	8.1390								↓
1.7685	9.7568	1.5626	7.9883					1.5949	9.6252	1.5169	8.0303								<u> </u>
1.1950	9.4128	1.5390	8.2178					1.4346	9.7306	1.3292	8.2960								
		1.6649	7.7479	Buck 21A	9.3609	9.5754	-0.2145	1.0665	9.4916	1.3055	8.4251								↓
								1.4202	9.3873	1.5245	7.9671								↓
										1.4152	7.9721	Buck 22B	12.0441	11.8296	0.2145	0.2145	7.97245	7.9707	Buck 22B
1.6015	9.3494		7.7479	Buck 21A	-			1.2360	12.7910		11.5550	J-437					11.555		+
1.3305	9.3566	1.3233	8.0261					1.1291	12.5386	1.3815	11.4095								1
1.7334	9.6698	1.4202	7.9364					1.2447	12.2862	1.4971	11.0415								1
1.7039	9.6545	1.7192	7.9506					1.6178	12.4240	1.4800	10.8062								1
1.6311	9.5663	1.7193	7.9352					1.2294	12.8978	0.7556	11.6684								1
1.5721	9.7729	1.3655	8.2008					1.4177	13.0188	1.2967	11.6011								1
1.5992	9.7704	1.6017	8.1712					1.5680	12.8936	1.6932	11.3256								1
1.6002	9.8496	1.5210	8.2494					0.6027	11.2540	2.2423	10.6513								1
1.6236	9.7572	1.7160	8.1336					1.3210	10.3158	2.2592	8.9948								1
2.5383	10.8480	1.4475	8.3097		Ì			1.3232	10.4815	1.1575	9.1583								1
1.1523	11.1014	0.8989	9.9491		Ì			0.9842	9.3059	2.1598	8.3217								1
1.1276	9.6786	2.5504	8.5510		İ			1.4235	9.3712	1.3582	7.9477								1
2.7434	11.3156	1.1064	8.5722		İ			1.7020	9.3506	1.7226	7.6486								1
2.2914	13.0662	0.5408	10,7748		Ì			1.6132	9.5637	1.4001	7.9505								1
		1.5216	11.5446	J-437	24,2485	20.4518	3,7967			1.8061	7.7576	Buck 21A	18.4125	22,2099	-3.7974	-3.79705	7.75795	7.7569	Buck 21A

		Subo	rdinate Bench	Runs														
Plus	н	Minus	Elevation	Benchmark Description	Delta = Difference in Elevation	Mean Delta	Preliminary Adjusted Elevation	Benchmark Description		Plus	н	Minus	Elevation	Benchmark Description	Delta = Difference in Elevation	Mean Delta	Preliminary Adjusted Elevation	Benchmark Description
				•		20.1.0	2.0140									oa.i Doita		2000.1511011
1.6484	9.4823	0.6309	7.8339 8.8514	Buck 13A Buck 13C	1.0175					1.5924	9.4993	0.6432	7.9069 8.8561	Buck 14B Buck 14C	0.9492			
		0.6309	0.0314	Buck 13C	1.0175					-		0.6432	0.0001	BUCK 14C	0.9492			
0.6310	9.4824		8.8514	Buck 13C						0.6432	9.4993		8.8561	Buck 14C				
		1.6486	7.8338	Buck 13A	-1.0176	1.0176	8.8515	Buck 13C		-		1.5924	7.9069	Buck 14B	-0.9492	0.9492	8.8561	Buck 14C
1.4950	9.3711		7.8761	Buck 15A						1.5014	9.3775		7.8761	Buck 15A				
		1.4543	7.9168	Buck 15B	0.0407							0.6178	8.7597	Buck 15C	0.8836			
1.4541	9.3709		7.9168	Buck 15B						0.6176	9.3773		8.7597	Buck 15C				
		1.4950	7.8759	Buck 15A	-0.0409	0.0408	7.9169	Buck 15B				1.5015	7.8758	Buck 15A	-0.8839	0.88375	8.7598	Buck 15C
1.4968	9.4699		7.9731	Buck 16B						1.6031	9.5600		7.9569	Buck 18B				
1.4000	0.4000	0.6344	8.8355	Buck 16C	0.8624					1.0001	3.3000	0.6598	8.9002	Buck 18C	0.9433			
0.6344	9.4699	1.4969	8.8355 7.9730	Buck 16C Buck 16B	-0.8625	0.8625	8.8355	Buck 16C		0.6585	9.5587	1.6019	8.9002 7.9568	Buck 18C Buck 18B	-0.9434	0.94335	8.9002	Buck 18C
		1.4909	7.9730	DUCK 10D	-0.0025	0.0025	0.0355	BUCK 16C		-		1.6019	7.9506	BUCK TOB	-0.9434	0.94333	0.9002	BUCK TOC
1.5298	9.3816	4.4450	7.8518	Buck 17A	0.0040					1.5299	9.4060	0.5077	7.8761	Buck 17A	0.0000			
		1.4450	7.9366	Buck 17B	0.0848					+		0.5377	8.8683	Buck 17C	0.9922			
1.4461	9.3827		7.9366	Buck 17B						0.5378	9.4061		8.8683	Buck 17C				
		1.5300	7.8527	Buck 17A	-0.0839	0.0844	7.9362	Buck 17B				1.5296	7.8765	Buck 17A	-0.9918	0.992	8.8681	Buck 17C
										+								
1.4539	9.5293		8.0754	Buck 12B						1.4625	9.4332		7.9707	Buck 22B				
		0.5987	8.9306	Buck 12C	0.8552							0.4901	8.9431	Buck 22C	0.9724			
0.6001	9.5307	1.4559	8.9306 8.0748	Buck 12C Buck 12B	-0.8558	0.8555	8.9309	Buck 12C		0.4924	9.4355	1.4650	8.9431 7.9705	Buck 22C Buck 22B	-0.9726	0.9725	8.9432	Buck 22C
		1.4000	0.0740	Buck 12B	-0.0550	0.0000	0.3303	Buck 120		1		1.4030	7.5705	Buck 22B	-0.9720	0.3723	0.3432	Buck 220
1.5261	9.5037	1.3454	7.9776	Buck 19A Buck 19B	0.1807					1.5237	9.5013	0.532	7.9776 8.9693	Buck 19A Buck 19C	0.9917			
		1.3434	8.1583	Buck 19B	0.1807							0.332	0.9093	Buck 190	0.9917			
1.3431	9.5014		8.1583	Buck 19B						0.5324	9.5017		8.9693	Buck 19C				
		1.5236	7.9778	Buck 19A	-0.1805	0.1806	8.1582	Buck 19B				1.5234	7.9783	Buck 19A	-0.991	0.99135	8.9689	Buck 19C
									 	+								
1.6168	9.3737		7.7569	Buck 21A						1.6190	9.3759		7.7569	Buck 21A				
		1.5146	7.8591	Buck 21B	0.1022							0.5827	8.7932	Buck 21C	1.0363			
1.5183	9.3774		7.8591	Buck 21B						0.5806	9.3738		8.7932	Buck 21C				
1.0100	0.0774	1.6206	7.7568	Buck 21A	-0.1023	0.1023	7.8591	Buck 21B		0.0000	3.57 00	1.6166	7.7572	Buck 21A	-1.036	1.03615	8.7930	Buck 21C
1.4749	9.3474		7.8725	Buck 20A						1.4775	9.3500		7.8725	Buck 20A				
1.4749	5.5414	1.4620	7.8725	Buck 20A Buck 20B	0.0129					1.4//0	J.JJUU	0.4893	8.8607	Buck 20A Buck 20C	0.9882			
1.4647	9.3501	1 /775	7.8854	Buck 20B Buck 20A	0.0439	0.0420	7 0050	Buck 20B		0.4859	9.3466	1.4744	8.8607	Buck 20C Buck 20A	-0.9885	0.98835	0 0000	Buck 200
		1.4775	7.8726	BUCK ZUA	-0.0128	0.0129	7.8853	Buck 20B	+			1.4744	7.8722	BUCK 2UA	-0.9885	0.98835	8.8608	Buck 20C
1.5426	9.5905	4 400 1	8.0479	Buck 1A	0.0100					1.5400	9.5879	0.5000	8.0479	Buck 1A	0.0101			
		1.4994	8.0911	Buck 1B	0.0432			 				0.5966	8.9913	Buck 1C	0.9434			
1.4973	9.5884		8.0911	Buck 1B						0.6008	9.5921	1	8.9913	Buck 1C				
		1.5408	8.0476	Buck 1A	-0.0435	0.0433	8.0912	Buck 1B			•	1.5442	8.0479	Buck 1A	-0.9434	0.9434	8.9913	Buck 1C
								_				1		1				
1.5526	9.5365		7.9839	Buck 2A					+	1.5520	9.5359		7.9839	Buck 2A				
	2.2000	1.4119	8.1246	Buck 2B	0.1407					5020	2.2000	0.5536	8.9823	Buck 2C	0.9984			
1.4106	9.5352	1.5495	8.1246 7.9857	Buck 2B Buck 2A	-0.1389	0.1398	8.1237	Buck 2B		0.5974	9.5797	1.5945	8.9823 7.9852	Buck 2C Buck 2A	-0.9971	0.99775	8.9817	Buck 2C
	-	1.5435	1.5051	DUCK ZM	-0.1303	0.1330	0.1231	DUCK ZD	+	1		1.0540	1.0002	DUCK ZM	-0.3311	0.00110	0.3017	DUCK 20

	l				Delta =		Preliminary								Delta =		Preliminary	
Plus	н	Minus	Elevation	Benchmark Description	Difference in Elevation	Mean Delta	Adjusted Elevation	Benchmark Description		lus	н	Minus	Elevation	Benchmark Description	Difference in Elevation	Mean Delta	Adjusted Elevation	Benchmark Description
rius	п	Willius	Lievation	Description	Lievation	Della	Lievation	Description		ius		Willius	Lievation	Description	Lievation	Weari Della	Lievation	Description
1.4742	9.7212		8.2470	Buck 3B					1.4	047	9.7176		8.3129	Buck 5B				
		0.6842	9.0370	Buck 3C	0.7900							0.5447	9.1729	Buck 5C	0.86			
0.6855	9.7225	1.4740	9.0370	Buck 3C	-0.7885	0.7893	9.0363	Buck 3C	0.4	953	9.6682	1.3549	9.1729	Buck 5C	-0.8596	0.8598	0.4727	Buck 5C
		1.4740	8.2485	Buck 3B	-0.7885	0.7893	9.0363	Buck 3C		1		1.3549	8.3133	Buck 5B	-0.8596	0.8598	9.1727	Buck 5C
. =																		
1.5430	9.7927	1.4687	8.2497 8.3240	Buck 4A Buck 4B	0.0743				1.5	457	9.7954	0.5753	8.2497 9.2201	Buck 4A Buck 4C	0.9704			
		1.4687	8.3240	BUCK 4B	0.0743							0.5753	9.2201	Buck 4C	0.9704			
1.4713	9.7953		8.3240	Buck 4B					0.5	754	9.7955		9.2201	Buck 4C				
	0.1.000	1.5458	8.2495	Buck 4A	-0.0745	0.0744	8.3241	Buck 4B	0.0	,,,,,	0.7000	1.5456	8.2499	Buck 4A	-0.9702	0.9703	9.2200	Buck 4C
1.5171	9.6380		8.1209	Buck 6A					1.5	095	9.6304		8.1209	Buck 6A				1
1.5171	3.0300	1.3944	8.2436	Buck 6B	0.1227				1.5	1035	3.0304	0.4809	9.1495	Buck 6C	1.0286			
												0000						
1.3862	9.6298		8.2436	Buck 6B					0.4	782	9.6277		9.1495	Buck 6C				
		1.5091	8.1207	Buck 6A	-0.1229	0.1228	8.2437	Buck 6B				1.5062	8.1215	Buck 6A	-1.028	1.0283	9.1492	Buck 6C
																		
1.4219	9.4559		8.0340	Buck 11B					1.4	762	9.5876		8.1114	Buck 9B				
		0.5336	8.9223	Buck 11C	0.8883							0.6243	8.9633	Buck 9C	0.8519			
0.5004	0.4507		0.0000	Buck 11C					0.0	2005	0.5040		0.0000	Buck 9C				ļ
0.5364	9.4587	1.4240	8.9223 8.0347	Buck 11B	-0.8876	0.8880	8.9219	Buck 11C	0.0	285	9.5918	1.4802	8.9633 8.1116	Buck 9B	-0.8517	0.8518	8.9632	Buck 9C
		1.4240	0.0347	Buck 11B	-0.0070	0.0000	0.3213	Bucking		-		1.4002	0.1110	Buck 3B	-0.0317	0.0010	0.3032	Buck 30
1.7537	9.7027		7.9490	Buck 10A					1.7	556	9.7046		7.9490	Buck 10A				
		1.6537	8.0490	Buck 10B	0.1000							0.8109	8.8937	Buck 10C	0.9447			
1.6553	9.7043		8.0490	Buck 10B					0.5	808	9.7017		8.8937	Buck 10C				
1.0000	0.7040	1.7548	7.9495	Buck 10A	-0.0995	0.0998	8.0487	Buck 10B	0.0	500	5.7617	1.7521	7.9496	Buck 10A	-0.9441	0.9444	8.8934	Buck 10C
1.5719	9.7159		8.1440	Buck 8A					1.5	690	9.7130		8.1440	Buck 8A				
1.3719	9.7139	1.4423	8.2736	Buck 8B	0.1296				1.3	0090	9.7130	0.6185	9.0945	Buck 8C	0.9505			+
		20	5.2.35		0.1200		İ					0.0.00	0.00.0		0.0000		İ	
1.4388	9.7124		8.2736	Buck 8B					0.6	618	9.7125		9.0945	Buck 8C				
		1.5691	8.1433	Buck 8A	-0.1303	0.1300	8.2739	Buck 8B				1.5686	8.1439	Buck 8A	-0.9506	0.95055	9.0945	Buck 8C
	-											1						-
1.5024	9.7852		8.2828	Buck 7B					 	- 				†				
		0.6280	9.1572	Buck 7C	0.8744													<u> </u>
															_			
0.6249	9.7821		9.1572	Buck 7C														<u> </u>
		1.5006	8.2815	Buck 7B	-0.8757	0.8751	9.1578	Buck 7C										<u> </u>

Office

Project

15 May 2017

INPUT

Geographic, flhpgn - Florida HPGN Vertical - NAVD88, U.S. Feet

OUTPUT

State Plane, flhpgn - Florida HPGN 0901 - Florida East, U.S. Feet Vertical - NGVD29 (Custom), U.S. Feet

BUCK06A

1/1

Latitude: 27 07 59 **Longitude:** 81 12 18

Elevation/Z: 0

Northing/Y: 1017592.873 Easting/X: 589493.309

Elevation/Z: 1.220

Convergence: -0 05 36.57227 Scale Factor: 0.999946273 Combined Factor: 0.999950165

Remark:



DBHYDRO | by station

STATION INFORMATION

Station	BUCK06_G
Site	BUCK06
Туре	WELL
Latitude (ddmmss.sss)	270758.87
Longitude (ddmmss.sss)	811218.023
X Coord (ft) NAD83	589490
Y Coord (ft) NAD83	1017580
County	Highlands
Basin	C-41N
Section	34
Township	38
Range	31
Show Map	Google Map
Well Info	<u>Info</u>
Description	Middle of unimproved pasture W5 at Buck Island Ranch S of Harney pond canal
Notes	Description provided by Odi Villapando
Nearby Stations	Nearby Stations
Attachments	None Available

Query returned 1 station record(s).

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