SURVEYOR'S REPORT

Specific Purpose Survey of the Key Biscayne Coastal Wetlands
Temperature and Salinity Site Wells BBCWMW10A and BBCWMW10B
(Mowery Canal location)

South Florida Water Management District's
Purchase Order number PC P601079

Keith and Schnars project number 16434.00,
Task 22154
Report Date: May 2, 2006
Submittal: Second
(Revised May 4, 2006)

Prepared for:

South Florida Water Management District

Prepared by:

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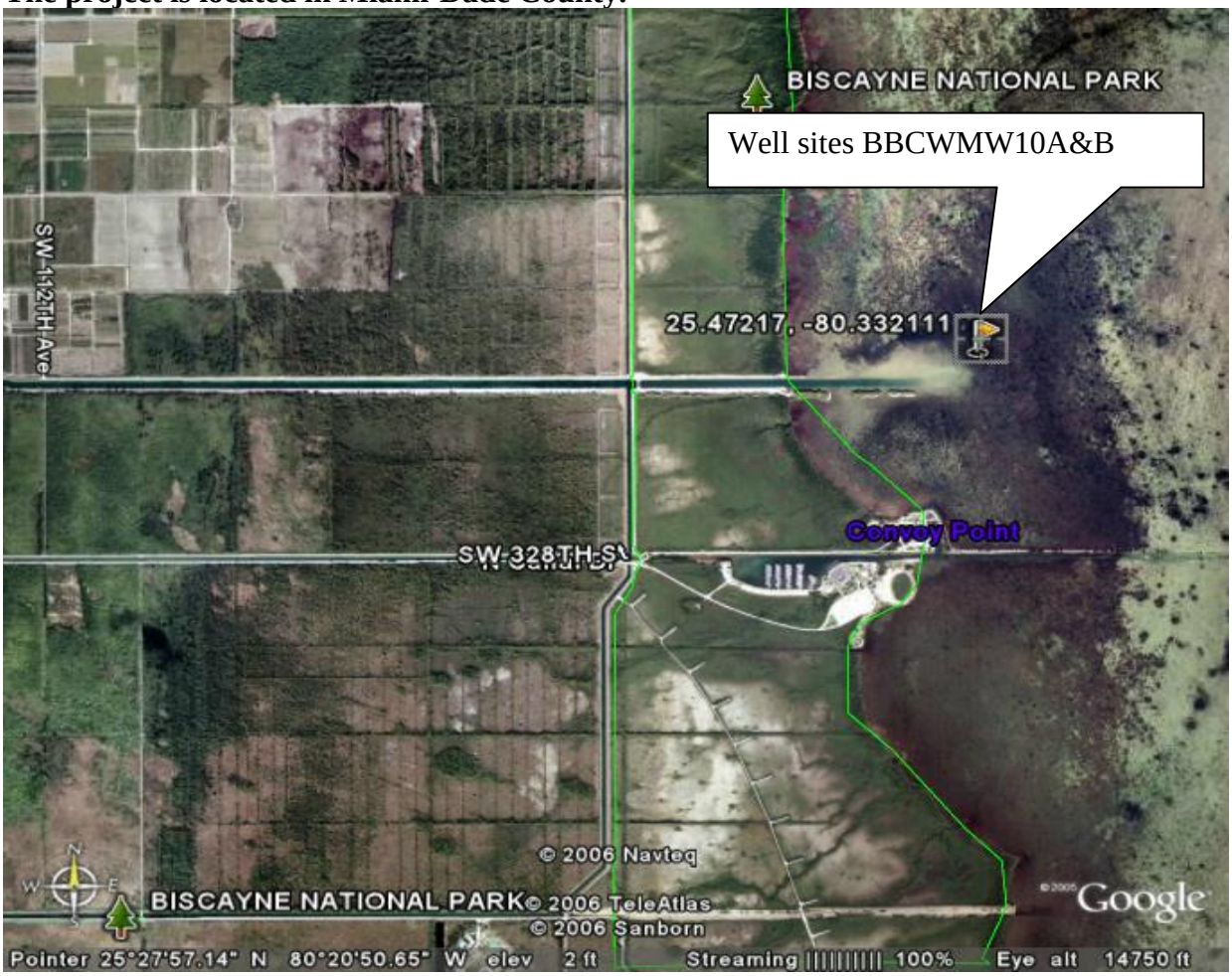
PURPOSE

To establish vertical (NAVD 1988 and NGVD 1929) and horizontal (NAD 1983-1999) data on the wells attached to the platform. To obtain elevations on the platform and ground (bottom of bay) surrounding the platform. Due to the wells and platform being in Biscayne Bay elevations and horizontal locations were obtained using GPS methods as described below. As a secondary vertical check an elevation was taken on the platform using a temporary benchmark and Total Station.

LOCATION OF PROJECT

The project is located in Miami-Dade County.



SURVEYOR'S REPORT

ITEMS DELIVERED TO THE DISTRICT

1. **Electronic copy of field notes.**
2. **Electronic copy of all computation sheets.**
3. **CORPSMET 95 file.**
4. **Site photographs.**
5. **Surveyor's Report.**

DATUM FOR THE PROJECT

The vertical datum for the project is National Geodetic Vertical Datum (NGVD) of 1929 and North American Vertical Datum (NAVD) of 1988. NGVD '29 elevations were derived using data provided by the South Florida Water Management District in a file named NGVD29.txt" when applicable, otherwise NGS superseded values were used. Horizontal datum for the project is North American Datum (NAD) 1983 with the 1999 adjustment applied.

LEVELING METHODS

For purposes of the second vertical check a level loop was run from Benchmark R-725 to a temporary benchmark then returning to Benchmark R-725. That level loop closed less than 0.03 of a foot times the square root in miles of the level loop. A Leica NA 2 (conventional) level and fiberglass rod were used to complete the level loop. An elevation was then established on the center of the platform using a Leica 705 total station and the temporary benchmark. The average elevation of the platform obtained by GPS is 6.4' the elevation obtained
at the center of the platform by the total station is 6.4'.

SURVEYOR'S REPORT

HORIZONTAL CONTROL POINTS

H106	Elevation:	**(None)**			
PID AC 4250	Latitude	25°27'47.9350"			
State/County FL/Miami-Dade	Longitude	-80°20'05.1866"			
USGS QUAD Arsenicker Keys (1997)	Northing: 411184.51 (ft.)				
Horiz. Order 2nd	Easting: 875646.61 (ft.)				

STATION IS ON THE SHORE OF BISCAYNE BAY NEAR THE SOUTHWEST CORNER OF THE BOAT LAUNCHING RAMP OF HOMESTEAD BAYFRONT PARK ABOUT 8.8 MILES EAST OF THE HOMESTEAD CITY HALL AND IN THE VICINITY OF FORMER U.S. COAST AND GEODETIC SURVEY TRIANGULATION STATIONS STICK (1930) AND FARE (1935) WHICH HAVE BEEN DESTROYED BY HURRICANES. TO REACH FROM THE MAIN INTERSECTION OF THE CITY OF HOMESTEAD AT KROME AVENUE AND MOWRY STREET, PROCEED SOUTH ON KROME AVENUE FOR 0.5 MILE TO THE INTERSECTION OF S.W. 328TH STREET (LUCY STREET OR NORTH CANAL DRIVE), TURN LEFT AND PROCEED EAST ON S.W. 328TH STREET FOR 1.5 MILES TO THE WESTERLY TERMINUS OF NORTH CANAL, TAKE SOUTH FORK AND CONTINUE EAST ALONG THE SOUTH SIDE OF NORTH CANAL FOR 6.5 MILES TO THE ENTRANCE TO HOMESTEAD BAYFRONT PARK, ENTER PARK AND TURN LEFT ON ROAD LEADING TO NORTH SIDE OF NORTH CANAL AND CONTINUE EAST ALONG NORTH SIDE OF NORTH CANAL FOR 0.8 MILE TO STATION ON THE SOUTH EDGE OF PAVING NEAR THE END OF THE ROAD. STATION MARK IS A BRASS DISK IN A CONCRETE MONUMENT WITH UNDERGROUND MARK, SET FLUSH WITH THE ASPHALT PAVING, MARKED FLORIDA-DADE AND STAMPED H-106. IT IS 107 FEET WEST OF THE END OF PAVING, 2 FEET NORTH OF THE SOUTH EDGE OF PAVING, 16 FEET NORTH OF THE NORTH EDGE OF NORTH CANAL AND OPPOSITE A LARGE PAVING PARKING AREA SERVING A BOAT RAMP.

SURVEYOR'S REPORT

HORIZONTAL CONTROL POINTS (CONTINUED)

H098	Elevation:	**(None)**			
PID AC4251	Latitude	25°28'56.7327"			
State/County FL/Miami-Dade	Longitude	-80°22'17.8409"			
USGS QUAD Arsenicker Keys (1997)	Northing: 418071.07 (ft.)				
Horiz. Order 2nd	Easting: 863456.03 (ft.)				

DESCRIBED BY DADE COUNTY FLORIDA
STATION IS ABOUT 2.0 MILES WEST OF THE SHORE OF BISCAYNE BAY, ABOUT 6.7 MILES EAST OF THE HOMESTEAD CITY HALL, ABOUT 0.5 MILE SOUTH OF THE HOMESTEAD AIR FORCE BASE SEWAGE DISPOSAL PLANT AND ABOUT 0.2 MILE SOUTH OF THE CENTER OF SECTION 7, TOWNSHIP 57 SOUTH, RANGE 40 EAST. TO REACH FROM THE GATE AT THE NORTHEAST CORNER OF THE LIVING AREA OF HOMESTEAD AIR FORCE BASE AT THE INTERSECTION OF S.W. 122ND AVENUE AND S.W. 268TH STREET (MOODY RIVE), PROCEED EAST ON S.W. 268TH STREET FOR 1.5 MILES TO THE INTERSECTION OF S.W. 107TH AVENUE,TURN RIGHT AND PROCEED SOUTH ON S.W. 107TH AVENUE FOR 2.25 MILES TO THE INTERSECTION OF S.W. 304TH STREET (KINGS HIGHWAY),TURN RIGHT AND PROCEED WEST ON S.W. 304TH STREET FOR 0.5 MILE TO THE INTERSECTION OF S.W. 112TH AVENUE (ALLAPATTAH DRIVE), TURN LEFT AND PROCEED SOUTH ON S.W. 112TH AVENUE OF 0.2 MILE TO THE STATION ON THE RIGHT ON THE WEST SHOULDER OF THE ROADWAY ABOUT 0.05 MILE NORTH OF THE CENTER OF THE NORTHERLY OF TWO CONCRETE BOX CULVERTS PASSING UNDER S.W. 112TH AVENUE. STATION MARK IS A BRASS DISK IN A CONCRETE MONUMENT WITH UNDERGROUND MARK, FLUSH WITH THE SHOULDER OF THE ROAD, MARKED FLORIDA-DADE AND STAMPED H-098. IT IS 5.0 FEET WEST OF THE WEST EDGE OF PAVING ON S.W. 112TH AVENUE AND 224.5 FEET NORTH OF THE CENTER OF THE NORTHERLY OF 2 CONCRETE BOX CULVERTS PASSING UNDER S.W. 112TH AVENUE.

SURVEYOR'S REPORT

VERTICAL CONTROL POINTS

R724	**Elevation:**	**NAVD 1988**	**5.33'**	**NGVD 1929**	**6.85'**
PID AC1181	Latitude	(Scaled) 25°29'21"			
State/County FL/Miami-Dade	Longitude	(Scaled) -80°20'48"			
USGS QUAD Arsenicker Keys (1997)	Northing: 420570 (ft.) (Scaled)				
Horz. Order 2nd Class 0	Easting: 871685 (ft.) (Scaled)	DESCRIBED BY NATIONAL GEODETIC SURVEY 1970 7.4 MI SE FROM PRINCETON. ABOUT 4.0 MILES EAST ALONG COCONUT PALM DRIVE FROM THE INTERSECTION OF U.S. HIGHWAY 1 AT PRINCETON, THENCE 3.4 MILES SOUTH ALONG A GRAVELED ROAD SET ON THE TOP OF THE NORTH ABUTMENT FOR THE FLOOD CONTROL GATE ACROSS MILITARY CANAL, 26 FEET SOUTH OF THE NORTHWEST CORNER OF THE HURRICANE FENCE AROUND THE FLOOD CONTROL GATE, 2.4 FEET EAST OF THE WEST END OF THE ABUTMENT, 1.8 FEET WEST OF THE WEST FENCE LINE AROUND THE GATE AND LEVEL WITH THE GROUND.			
					

The NGS Data Sheet

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

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PROGRAM = datasheet95, VERSION = 8.8
1        National Geodetic Survey,   Retrieval Date = OCTOBER  5, 2015
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 AC1181  DESIGNATION -  R 724
 AC1181  PID         -  AC1181
 AC1181  STATE/COUNTY-  FL/MIAMI-DADE
 AC1181  COUNTRY     -  US
 AC1181  USGS QUAD   -  ARSENICKER KEYS (1997)
 AC1181
 AC1181                        *CURRENT SURVEY CONTROL
 AC1181  ______________________________________________________________________
 AC1181* NAD 83(1986) POSITION- 25 29 21.     (N) 080 20 48.     (W)    SCALED
 AC1181* NAVD 88 ORTHO HEIGHT -     1.624 (meters)        5.33  (feet) ADJUSTED
 AC1181  ______________________________________________________________________
 AC1181  GEOID HEIGHT    -        -25.363 (meters)                     GEOID12B
 AC1181  DYNAMIC HEIGHT  -          1.621 (meters)        5.32  (feet) COMP
 AC1181  MODELED GRAVITY -    978,971.0   (mgal)                       NAVD 88
 AC1181
 AC1181  VERT ORDER      -  SECOND    CLASS 0
 AC1181
 AC1181.The horizontal coordinates were scaled from a topographic map and have
 AC1181.an estimated accuracy of +/- 6 seconds.
 AC1181.
 AC1181.The orthometric height was determined by differential leveling and
 AC1181.adjusted by the NATIONAL GEODETIC SURVEY
 AC1181.in June 1991.
 AC1181
 AC1181.Significant digits in the geoid height do not necessarily reflect accuracy.
 AC1181.GEOID12B height accuracy estimate available here.
 AC1181
 AC1181.The dynamic height is computed by dividing the NAVD 88
 AC1181.geopotential number by the normal gravity value computed on the
 AC1181.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AC1181.degrees latitude (g = 980.6199 gals.).
 AC1181
 AC1181.The modeled gravity was interpolated from observed gravity values.
 AC1181
 AC1181;                    North         East     Units  Estimated Accuracy
 AC1181;SPC FL E     -   128,190.      265,690.      MT  (+/- 180 meters Scaled)
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 AC1181                          SUPERSEDED SURVEY CONTROL
 AC1181
 AC1181  NGVD 29 (??/??/92)    2.089  (m)             6.85   (f) ADJ UNCH    2 0
 AC1181
 AC1181.Superseded values are not recommended for survey control.
 AC1181
 AC1181.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AC1181.See file dsdata.txt to determine how the superseded data were derived.
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 AC1181_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ656192(NAD 83)
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 AC1181_MARKER: Z = SEE DESCRIPTION
 AC1181_SETTING: 36 = SET IN A MASSIVE STRUCTURE
 AC1181_SP_SET: BRIDGE ABUTMENT
 AC1181_STAMPING: R 724 DC
 AC1181_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 AC1181_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
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AC1181+SATELLITE: SATELLITE OBSERVATIONS - May 03, 2010
AC1181
AC1181  HISTORY     - Date     Condition        Report By
AC1181  HISTORY     - UNK      MONUMENTED       FL-025
AC1181  HISTORY     - 1970     GOOD             NGS
AC1181  HISTORY     - 20050824 GOOD             WEIDEN
AC1181  HISTORY     - 20100503 GOOD             GPI
AC1181  HISTORY     - 20150410 GOOD             WANTGP
AC1181
AC1181                          STATION DESCRIPTION
AC1181
AC1181'DESCRIBED BY NATIONAL GEODETIC SURVEY 1970
AC1181'7.4 MI SE FROM PRINCETON.
AC1181'ABOUT 4.0 MILES EAST ALONG COCONUT PALM DRIVE FROM THE
AC1181'INTERSECTION OF U.S. HIGHWAY 1 AT PRINCETON, THENCE 3.4 MILES
AC1181'SOUTH ALONG A GRAVELED ROAD SET ON THE TOP OF THE NORTH ABUTMENT
AC1181'FOR THE FLOOD CONTROL GATE ACROSS MILITARY CANAL, 26 FEET SOUTH
AC1181'OF THE NORTHWEST CORNER OF THE HURRICANE FENCE AROUND THE FLOOD
AC1181'CONTROL GATE, 2.4 FEET EAST OF THE WEST END OF THE ABUTMENT,
AC1181'1.8 FEET WEST OF THE WEST FENCE LINE AROUND THE GATE AND LEVEL
AC1181'WITH THE GROUND.
AC1181
AC1181                          STATION RECOVERY (2005)
AC1181
AC1181'RECOVERY NOTE BY WEIDENER SURVEYING AND MAPPING 2005
AC1181'RECOVERED IN GOOD CONDITION.
AC1181
AC1181                          STATION RECOVERY (2010)
AC1181
AC1181'RECOVERY NOTE BY GREENMAN PEDERSEN INCORPORATED 2010 (KAW)
AC1181'RECOVERED IN GOOD CONDITION.
AC1181
AC1181                          STATION RECOVERY (2015)
AC1181
AC1181'RECOVERY NOTE BY WANTMAN GROUP INC 2015 (JM)
AC1181'RECOVERED IN GOOD CONDITION.

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SURVEYOR'S REPORT

VERTICAL CONTROL POINTS (CONTINUED)

R725	**Elevation:**	**NAVD 1988**	**5.26'**	**NGVD 1929**	**6.78'**
PID AC1180	Latitude	(Scaled) 25°28'13"			
State/County FL/Miami-Dade	Longitude	(Scaled) -80°20'49"			
USGS QUAD Arsenicker Keys (1997)	Northing: 413713 (ft.) (Scaled)				
Horz. Order 2nd Class 0	Easting: 871619 (ft.) (Scaled)				

DESCRIBED BY NATIONAL GEODETIC SURVEY 1970 8.7 MI SE FROM PRINCETON. ABOUT 4.0 MILES EAST ALONG COCONUT PALM DRIVE FROM THE INTERSECTION OF U.S. HIGHWAY 1 AT PRINCETON, THENCE 4.7 MILES SOUTH ALONG A GRAVELED ROAD, SET ON THE TOP OF THE WEST END OF THE SOUTH CONCRETE ABUTMENT FOR THE FLOOD CONTROL GATES OVER MOWRY CANAL, 2.3 FEET NORTHWEST OF THE SOUTHWEST CORNER OF THE HURRICANE FENCE AROUND THE GATES, 2.3 FEET EAST OF THE WEST END OF THE ABUTMENT, 18 1/2 FEET WEST OF THE CENTER LINE OF A ROAD AT SOUTH ENTRANCE TO GATES FOR FLOOD CONTROL GATES AND LEVEL WITH THE GROUND.

The NGS Data Sheet

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

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 AC1180  STATE/COUNTY-  FL/MIAMI-DADE
 AC1180  COUNTRY     -  US
 AC1180  USGS QUAD   -  ARSENICKER KEYS (1997)
 AC1180
 AC1180                        *CURRENT SURVEY CONTROL
 AC1180  ______________________________________________________________________
 AC1180* NAD 83(1986) POSITION- 25 28 13.     (N) 080 20 49.     (W)    SCALED
 AC1180* NAVD 88 ORTHO HEIGHT -     1.603 (meters)        5.26  (feet) ADJUSTED
 AC1180  ______________________________________________________________________
 AC1180  GEOID HEIGHT    -        -25.347 (meters)                     GEOID12B
 AC1180  DYNAMIC HEIGHT  -          1.600 (meters)        5.25  (feet) COMP
 AC1180  MODELED GRAVITY -    978,967.4   (mgal)                       NAVD 88
 AC1180
 AC1180  VERT ORDER      -  SECOND    CLASS 0
 AC1180
 AC1180.The horizontal coordinates were scaled from a topographic map and have
 AC1180.an estimated accuracy of +/- 6 seconds.
 AC1180.
 AC1180.The orthometric height was determined by differential leveling and
 AC1180.adjusted by the NATIONAL GEODETIC SURVEY
 AC1180.in June 1991.
 AC1180
 AC1180.Significant digits in the geoid height do not necessarily reflect accuracy.
 AC1180.GEOID12B height accuracy estimate available here.
 AC1180
 AC1180.The dynamic height is computed by dividing the NAVD 88
 AC1180.geopotential number by the normal gravity value computed on the
 AC1180.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AC1180.degrees latitude (g = 980.6199 gals.).
 AC1180
 AC1180.The modeled gravity was interpolated from observed gravity values.
 AC1180
 AC1180;                    North         East     Units  Estimated Accuracy
 AC1180;SPC FL E     -   126,100.      265,670.      MT  (+/- 180 meters Scaled)
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 AC1180                          SUPERSEDED SURVEY CONTROL
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 AC1180  NGVD 29 (??/??/92)    2.068  (m)             6.78   (f) ADJ UNCH    2 0
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 AC1180.Superseded values are not recommended for survey control.
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 AC1180.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AC1180.See file dsdata.txt to determine how the superseded data were derived.
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 AC1180_STAMPING: R 725 DC
 AC1180_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 AC1180_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
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AC1180+SATELLITE: SATELLITE OBSERVATIONS - May 03, 2010
AC1180
AC1180  HISTORY     - Date     Condition        Report By
AC1180  HISTORY     - UNK      MONUMENTED       FL-025
AC1180  HISTORY     - 1970     GOOD             NGS
AC1180  HISTORY     - 1989     GOOD             USPSQD
AC1180  HISTORY     - 19901230 GOOD             USPSQD
AC1180  HISTORY     - 20050824 GOOD             WEIDEN
AC1180  HISTORY     - 20060901 GOOD             INHURC
AC1180  HISTORY     - 20100503 GOOD             GPI
AC1180  HISTORY     - 20150410 GOOD             WANTGP
AC1180
AC1180                          STATION DESCRIPTION
AC1180
AC1180'DESCRIBED BY NATIONAL GEODETIC SURVEY 1970
AC1180'8.7 MI SE FROM PRINCETON.
AC1180'ABOUT 4.0 MILES EAST ALONG COCONUT PALM DRIVE FROM THE
AC1180'INTERSECTION OF U.S. HIGHWAY 1 AT PRINCETON, THENCE 4.7 MILES
AC1180'SOUTH ALONG A GRAVELED ROAD, SET ON THE TOP OF THE WEST END OF
AC1180'THE SOUTH CONCRETE ABUTMENT FOR THE FLOOD CONTROL GATES OVER
AC1180'MOWRY CANAL, 2.3 FEET NORTHWEST OF THE SOUTHWEST CORNER OF THE
AC1180'HURRICANE FENCE AROUND THE GATES, 2.3 FEET EAST OF THE WEST
AC1180'END OF THE ABUTMENT, 18 1/2 FEET WEST OF THE CENTER LINE OF A
AC1180'ROAD AT SOUTH ENTRANCE TO GATES FOR FLOOD CONTROL GATES AND LEVEL
AC1180'WITH THE GROUND.
AC1180
AC1180                          STATION RECOVERY (1989)
AC1180
AC1180'RECOVERY NOTE BY US POWER SQUADRON 1989 (TD)
AC1180'RECOVERED IN GOOD CONDITION.
AC1180
AC1180                          STATION RECOVERY (1990)
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AC1180'RECOVERY NOTE BY US POWER SQUADRON 1990 (LEM)
AC1180'RECOVERED IN GOOD CONDITION.
AC1180
AC1180                          STATION RECOVERY (2005)
AC1180
AC1180'RECOVERY NOTE BY WEIDENER SURVEYING AND MAPPING 2005
AC1180'RECOVERED IN GOOD CONDITION.
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AC1180                          STATION RECOVERY (2006)
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AC1180'RECOVERY NOTE BY INTERNATIONAL HURRICANE CENTER 2006 (WRV)
AC1180'RECOVERED IN GOOD CONDITION.
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AC1180                          STATION RECOVERY (2010)
AC1180
AC1180'RECOVERY NOTE BY GREENMAN PEDERSEN INCORPORATED 2010 (KAW)
AC1180'RECOVERED IN GOOD CONDITION.
AC1180
AC1180                          STATION RECOVERY (2015)
AC1180
AC1180'RECOVERY NOTE BY WANTMAN GROUP INC 2015 (JM)
AC1180'RECOVERED IN GOOD CONDITION.

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SURVEYOR'S REPORT

GPS METHODS

Due to the remote location of the wells the District staff and the Surveyor decided it was appropriate to perform a GPS survey to establish the orthometric heights for the required data. The RTK survey was completed on April 6, 2006. Each RTK session started with the base station set on one control point and then an observation was done to another control point as a check. Since the vertical control points for this project did not have accurate horizontal locations the vertical control points were observed as a part of the RTK session. These horizontal coordinates along with the published vertical points were then used to complete the topographic observations at the platform. As the platform observations progressed addition vertical control points were located as checks. Observations to the control points, platform corners and wells were occupied for 3 minutes. Once the first observations were completed the base was moved to another control point and the points were occupied again for one minute. All points except for natural ground observations were observed at least 2 times.

The following instrumentation was used for the GPS observations:

(1) Trimble 5700 receiver as the base unit.
(1) Trimble 5800 receiver/antenna.
(1) Trimble Trimmark 3 radio repeater.
(1) Trimble TSCe data collector.

DATA PROCESSING

Adjustment

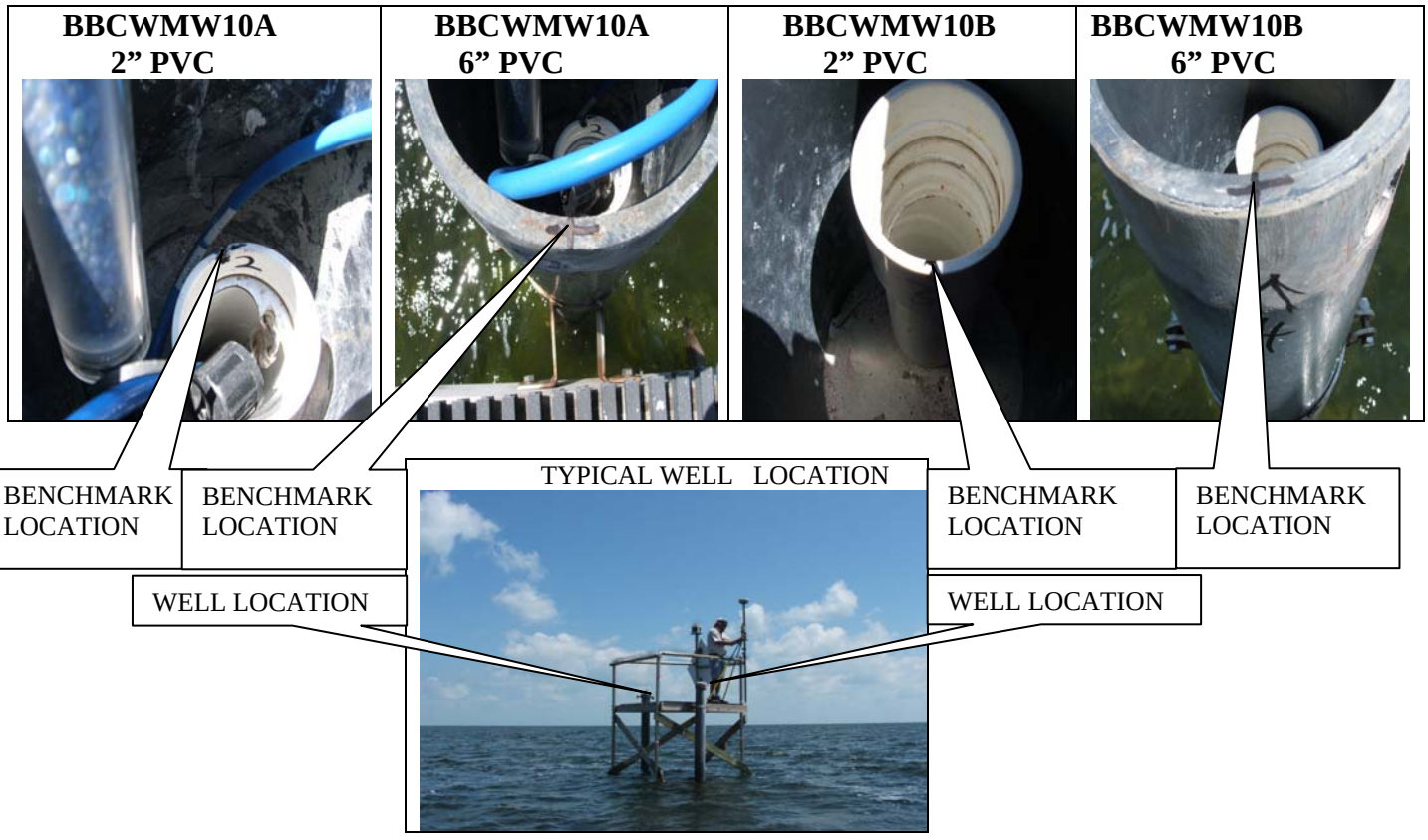
Elevations were generated by using FDOT Vector Software. Initial Geoid separations were generated using the latitudes and longitudes from the horizontal adjustment and NGS Geoid Model 2003. Then the SMOOTH routine within the FDOT Vector software was used along with the published elevations of the NGS Vertical control points to compute geoid separations for each observation. Two vertical control points were used to compute the geoid separations and the subsequent elevations. Initial error estimates were determined using standard error constants of 5 mm and 5 parts per million for all vectors in the network. The constrained adjustment held all control points fixed and the standard error for the final adjustment was 2.021 with 39 degrees of freedom. Overall network precision, based on 95% confidence level, was 6.60 parts per million (1:151,515). The average standard deviation in latitude, longitude and ellipsoid height was 3.9 cm. All points pass a Positional Tolerance Test with the settings of 0.03 cm for constant error and 1/50,000 for proportional error. The resulting vertical error from the above data is +/- 0.26'.

SURVEYOR'S REPORT

PROJECT RESULTS

The following table lists the Vertical and Horizontal Data established at the platform and well pipes.

NGVD 1929 ELEV.	NORTHING (NAD '83-'99)	EASTING (NAD '83-'99)	LATITUDE (NAD '83-'99)	LONGITUDE (NAD '83-'99)	DESCRIPTION
6.6'	414402	876509	25°28'19.8"	- 80°19'55.6"	N.W. COR. PLATFORM
6.9'	414401	876511	25°28'19.8"	- 80°19'55.6"	BBCWMW10B 2" PVC
7.3'	414401	876511	25°28'19.8"	- 80°19'55.6"	BBCWMW10B 6" PVC
6.4'	414399	876513	25°28'19.7"	- 80°19'55.6"	N.E. COR. PLATFORM
6.3'	414394	876511	25°28'19.7"	- 80°19'55.6"	S.E. COR. PLATFORM
6.9'	414395	876508	25°28'19.8"	- 80°19'55.6"	BBCWMW10A 2" PVC
7.5'	414395	876508	25°28'19.7"	- 80°19'55.6"	BBCWMW10A 6" PVC
6.4'	414396	876508	25°28'19.7"	- 80°19'55.6"	S.W. COR. PLATFORM



SURVEY NOTES:

1. ELEVATIONS SHOWN HEREON WERE DERIVED USING GPS AND REFERENCE THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
2. CORDINATES SHOWN HEREON WERE DERIVED USING GPS AND REFERENCE THE NORTH AMERICAN DATUM OF 1983 WITH THE 1999 ADJUSTMENT APPLIED.
3. NGS MONUMENTS USED FOR THE VERTICAL DATA WERE R-724 AND R-725.
4. NGS MONUMENTS USED FOR THE HORIZONTAL DATA WERE H098 AND H106.
5. THIS SKETCH IS NOT A BOUNDARY SURVEY.

COASTAL WETLANDS TEMPERATURE AND SALINITY SITES BBCWMW10A AND BBCWMW10B PLATFORM AND WELL INFORMATION

LOCATION	NGVD 1929 ELEV.	NORTHING	EASTING	LAT.	LONG.	DESCRIPTION
Ⓐ	6.6'	414402	876509	25°28'19.8"	80°19'55.6"	NW COR. PLATFORM
Ⓑ	6.9'	414401	876511	25°28'19.8"	80°19'55.6"	BBCWMW10B 2" PVC
Ⓒ	7.3'	414401	876511	25°28'19.8"	80°19'55.6"	BBCWMW10B 6" PVC
Ⓓ	6.4'	414399	876513	25°28'19.7"	80°19'55.5"	NE COR. PLATFORM
Ⓔ	6.3'	414394	876511	25°28'19.7"	80°19'55.6"	SE COR. PLATFORM
Ⓕ	6.9'	414395	876508	25°28'19.8"	80°19'55.6"	BBCWMW10A 2" PVC
Ⓖ	7.5'	414395	876508	25°28'19.7"	80°19'55.6"	BBCWMW10A 6" PVC
Ⓗ	6.4'	414396	876506	25°28'19.7"	80°19'55.6"	SW COR. PLATFORM

LEGEND:

COR. CORNER
ELEV. ELEVATION
GPS GLOBAL POSITIONING SYSTEM
LAT. LATITUDE
LONG. LONGITUDE
NGVD NATIONAL GEODETIC VERTICAL DATUM
PVC POLYVINYL CHLORIDE
NGS NATIONAL GEODETIC SURVEY
× -4.5 SAND EXISTING ELEVATION

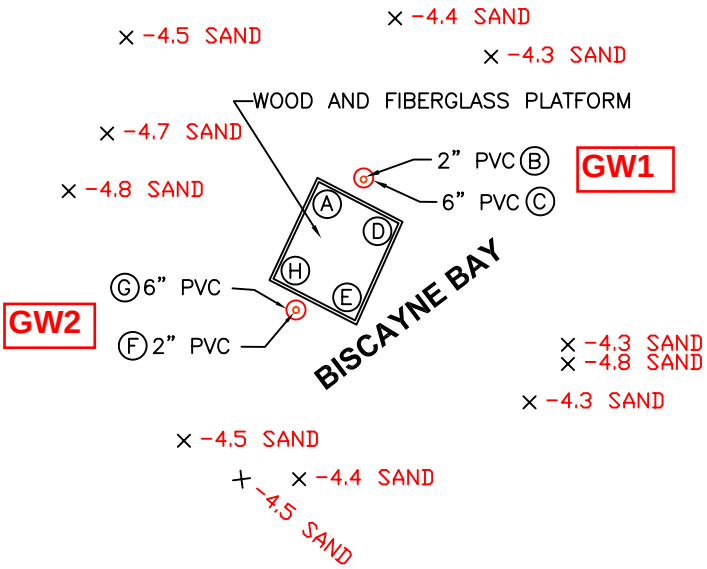


EXHIBIT A

COASTAL WETLANDS TEMPERATURE AND SALINITY SITES
BBCWMW10A & BBCWMW10B
MOWERY CANAL SITE

MIAMI-DADE COUNTY, FLORIDA

DATE 5/2/06
SCALE 1"=10'
FIELD BK. 1182
DWNG. BY MMM
CHECK BY AML

DATE	REVISIONS

KEITH and SCHNARS, P.A.
ENGINEERS, PLANNERS, SURVEYORS
LB 1337
6500 N. ANDREWS AVE, FT. LAUDERDALE, FL. 33309-2132 (954)776-1616

SHEET NO. 9 OF 10 SHEETS
DRAWING NO. 16434.00

L:/Projects/ISURV/16434/WORK ORDER 154/KEY BISCAYNE SITES/MOWERY CANAL SITE.DWG

SURVEYOR'S REPORT

Comments:

See Exhibit "A" for ground elevations and sketch of platform and wells.
Party Chief: D. Ferels Field Book: 1182 Page 57-58
Offset: 1.52' SFWMD VALUE (subtract this value to convert to NAVD 1988)
Offset: 1.52' NGS VALUE (subtract this value to convert to NAVD 1988)
NAVD 88 - North American Vertical Datum of 1988
NGVD29 -National Geodetic Vertical Datum of 1929
NAD 83-99 (Horizontal Datum) North American Datum of 1983 with the 1999 adjustment applied.
NGS- National Geodetic Survey
SFWMD- South Florida Water Management District
FDOT - Florida Department of Transportation
GPS - Global Positioning System
RTK- Real Time Kinematic

SURVEYOR'S CERTIFICATION

I hereby certify that this Specific Purpose Survey meets applicable portions of the Minimum Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61-G17, Florida Administrative Code. This report is prepared for the sole and specific use of the South Florida Water Management District and is not assignable.

KEITH and SCHNARS, PA.
L.B. number 1337

By:

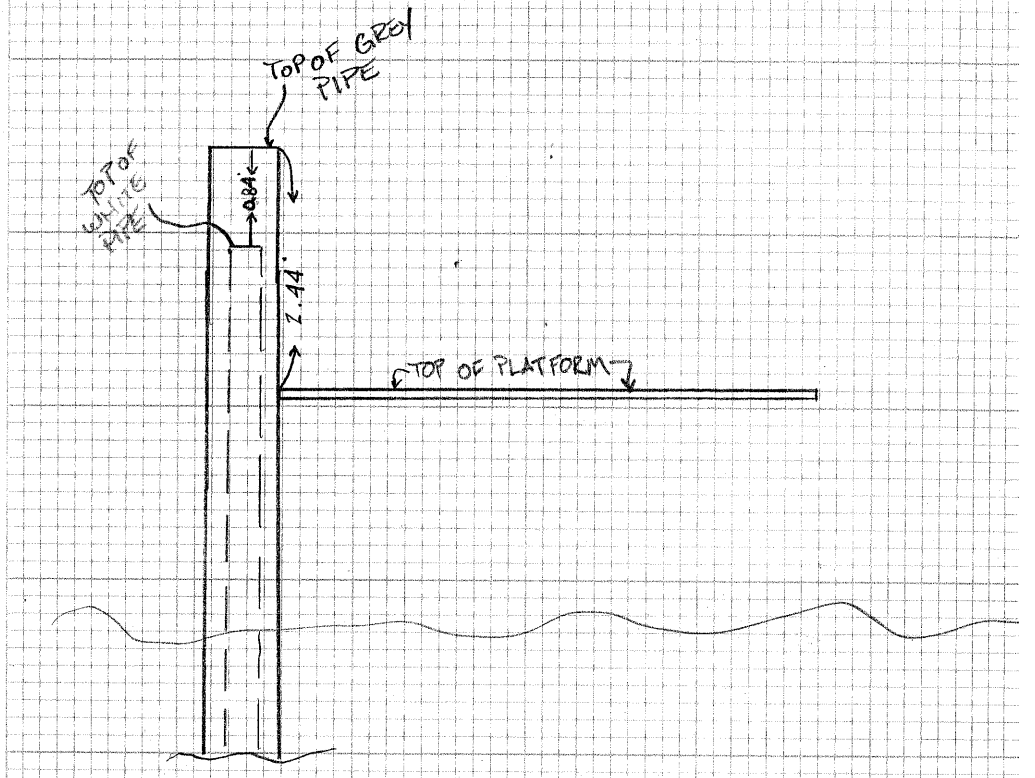
Date of Survey
April 6, 2006

Michael M. Mossey, PSM
Professional Surveyor and Mapper
State of Florida
Certificate No. 5660

4.5.06
FERELS
HALL
LACONDE

S.F. W.M.
WELL PLATFORMS
BORGER KING SITE

1182-64



4.3.06
FERELS
LALONDE

S.F.W.M.
WELL PLATFORMS
BURGER KING SITE
NGVD 1929 DATUM

	+	HI	-	ELEV	NGVD 1929 BM EL
BM	3.130				10.054
	2.750				
	2.370				
	2.750	12.804			
			8.200		
TP 1	6.740		7.820		
	5.850		7.450		
	4.960		7.823	4.981	
	5.850	10.831			
			7.530		
TP 2	7.660		7.050		
	7.170		6.560		
★	6.680		7.047	3.784	
	7.170	10.954			
			6.990		
TP3	8.500		6.080		
	8.130		5.170		
	7.765		6.080	4.874	
	8.132	13.006			
			3.330		10.054
BM			2.950		
			2.575		
			2.952	10.054	

1/82-60

SFWM ALUM. DISC IN CONC ON THE NORTH END OF STRUCTURE S-123 IN LINE WITH THE ℄ OF THE CONCRETE SERVICE DECK OVER THE STRUCTURE STAMPED S. F. W. M. D. S 123

SET LOd NL

SET MAG NL IN ROCK OUTCROPING

SET LOd NL

S-123

```
Identification_Information:
        Citation:
                Citation_Information:
                        Originator: Michael M. Mossey, P.S.M.(ed.)
                        Publication_Date: 20060505
                        Publication_Time: Unknown
                        Title: Key Biscayne Coastal Wetlands Temperature and Salinity site
Wells
                        Edition: 1
                        Publication_Information:
                                Publication_Place: Not Published
                                Publisher: None
                        Online_Linkage: mmossey@keithandschnars.com
        Description:
                Abstract:
                        South Florida Water Management District Key Biscayne
                        Coastal Wetlands Temperature and Salinity site Wells
                        BBCWMW 10 A and B.
                Purpose:
                        To establish NAVD 88 and NGVD 29 elevations on the
                        wells.
        Time_Period_of_Content:
                Time_Period_Information:
                        Range_of_Dates/Times:
                                Beginning_Date: 20060328
                                Ending_Date: 20060406
                Currentness_Reference: Publication Date
        Status:
                Progress: Complete
                Maintenance_and_Update_Frequency: Unknown
        Spatial_Domain:
                Bounding_Coordinates:
                        West_Bounding_Coordinate: -80°19'56"
                        East_Bounding_Coordinate: -80°19'56"
                        North_Bounding_Coordinate: 25°28'20"
                        South_Bounding_Coordinate: 25°28'20"
        Keywords:
                Theme:
                        Theme_Keyword_Thesaurus: None
                        Theme_Keyword: Specific Purpose Survey
                        Theme_Keyword: Well
                Place:
                        Place_Keyword_Thesaurus: None
                        Place_Keyword: Wells BBCMWM 10 A and B
                        Place_Keyword: Attached to platform in Biscayne Bay
                        Place_Keyword: Miami-Dade County, Florida
        Access_Constraints: Need boat and motor to get to site.
        Use_Constraints: Need key to gain access to wells.
        Point_of_Contact:
                Contact_Information:
                        Contact_Person_Primary:
                                Contact_Person: Howard J. Ehmke
                                Contact_Organization: South Florida Water Management
District
                        Contact_Position: P.S.M.
                        Contact_Address:
                                Address_Type: mailing and physical address
                                Address:
                                        Acceler 8
                                        Suite 150
                                        2301 Centerpark W. Drive
                                City: West Palm Beach
                                State_or_Province: Florida
                                Postal_Code: 33409
                                Country: USA
                        Contact_Voice_Telephone: (561) 242-5520 ext. 4064
                        Contact_Electronic_Mail_Address: hehmke@sfwmd.gov
                        Hours_of_Service: 8:00 am to 5:00 pm EST
Data_Quality_Information:
        Attribute_Accuracy:
```

Attribute_Accuracy_Report:
The RTK survey was performed using a Trimble brand 5700 receiver for the base unit, a Trimble 5800 rover unit, Trimble Trimmark 3 radio repeater, and Trimble TSCe data collector. Additional vertical data was collected using a conventional Leica NA2 Level. Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/99. Elevations are based on NGVD 1929 with an offset supplied to convert to NAVD 1988 datum.

Logical_Consistency_Report:
Horizontal and vertical positions were established on the wells, platform and ground surronding the platform using first, and second order monuments.

Completeness_Report:
Horizontal locations were established using NGS monuments H106 and H098. Vertical data was established using NGS monuments R724 and R725.
H 106 has horizontal values of Latitude 25°27'47.9350", Longitude -80°20'05.1866" Northing 411184.51 (ft.) Easting 875646.61 (ft.) STATION IS ON THE SHORE OF BISCAYNE BAY NEAR THE SOUTHWEST CORNER OF THE BOAT LAUNCHING RAMP OF HOMESTEAD BAYFRONT PARK ABOUT 8.8 MILES EAST OF THE HOMESTEAD CITY HALL AND IN THE VICINITY OF FORMER U.S. COAST AND GEODETIC SURVEY TRIANGULATION STATIONS STICK (1930) AND FARE (1935) WHICH HAVE BEEN DESTROYED BY HURRICANES. TO REACH FROM THE MAIN INTERSECTION OF THE CITY OF HOMESTEAD AT KROME AVENUE AND MOWRY STREET, PROCEED SOUTH ON KROME AVENUE FOR 0.5 MILE TO THE INTERSECTION OF S.W. 328TH STREET (LUCY STREET OR NORTH CANAL DRIVE), TURN LEFT AND PROCEED EAST ON S.W. 328TH STREET FOR 1.5 MILES TO THE WESTERLY TERMINUS OF NORTH CANAL, TAKE SOUTH FORK AND CONTINUE EAST ALONG THE SOUTH SIDE OF NORTH CANAL FOR 6.5 MILES TO THE ENTRANCE TO HOMESTEAD BAYFRONT PARK, ENTER PARK AND TURN LEFT ON ROAD LEADING TO NORTH SIDE OF NORTH CANAL AND CONTINUE EAST ALONG NORTH SIDE OF NORTH CANAL FOR 0.8 MILE TO STATION ON THE SOUTH EDGE OF PAVING NEAR THE END OF THE ROAD. STATION MARK IS A BRASS DISK IN A CONCRETE MONUMENT WITH UNDERGROUND MARK, SET FLUSH WITH THE ASPHALT PAVING, MARKED FLORIDA-DADE AND STAMPED H-106. IT IS 107 FEET WEST OF THE END OF PAVING, 2 FEET NORTH OF THE SOUTH EDGE OF PAVING, 16 FEET NORTH OF THE NORTH EDGE OF NORTH CANAL AND OPPOSITE A LARGE PAVING PARKING AREA SERVING A BOAT RAMP.
H 098 has horizontal values of (Latitude) 25°28'56.7327", (Longitude) -80°22'17.8409", Northing 418071.07 (ft.), Easting 863456.03 (ft.). DESCRIBED BY DADE COUNTY FLORIDA STATION IS ABOUT 2.0 MILES WEST OF THE SHORE OF BISCAYNE BAY, ABOUT 6.7 MILES EAST OF THE HOMESTEAD CITY HALL, ABOUT 0.5 MILE SOUTH OF THE HOMESTEAD AIR FORCE BASE SEWAGE DISPOSAL PLANT AND ABOUT 0.2 MILE SOUTH OF THE CENTER OF SECTION 7, TOWNSHIP 57 SOUTH, RANGE 40 EAST. TO REACH FROM THE GATE AT THE NORTHEAST CORNER OF THE LIVING AREA OF HOMESTEAD AIR FORCE BASE AT THE INTERSECTION OF S.W. 122ND AVENUE AND S.W. 268TH STREET (MOODY RIVE), PROCEED EAST ON S.W. 268TH STREET FOR 1.5 MILES TO THE INTERSECTION OF S.W. 107TH AVENUE,TURN RIGHT AND PROCEED SOUTH ON S.W. 107TH

AVENUE FOR 2.25 MILES TO THE INTERSECTION OF
S.W. 304TH STREET (KINGS HIGHWAY),TURN RIGHT
AND PROCEED WEST ON S.W. 304TH STREET FOR
0.5 MILE TO THE INTERSECTION OF S.W. 112TH
AVENUE (ALLAPATTAH DRIVE), TURN LEFT AND
PROCEED SOUTH ON S.W. 112TH AVENUE OF 0.2
MILE TO THE STATION ON THE RIGHT ON THE
WEST SHOULDER OF THE ROADWAY ABOUT 0.05
MILE NORTH OF THE CENTER OF THE NORTHERLY
OF TWO CONCRETE BOX CULVERTS PASSING
UNDER S.W. 112TH AVENUE. STATION MARK IS A
BRASS DISK IN A CONCRETE MONUMENT WITH
UNDERGROUND MARK, FLUSH WITH THE
SHOULDER OF THE ROAD, MARKED FLORIDA-DADE
AND STAMPED H-098. IT IS 5.0 FEET WEST OF THE
WEST EDGE OF PAVING ON S.W. 112TH AVENUE
AND 224.5 FEET NORTH OF THE CENTER OF THE
NORTHERLY OF 2 CONCRETE BOX CULVERTS
PASSING UNDER S.W. 112TH AVENUE.
R725 Has elevations of 5.26' NAVD 1988 and 6.78'
NGVD 1929.
DESCRIBED BY NATIONAL GEODETIC SURVEY 1970
8.7 MI SE FROM PRINCETON. ABOUT 4.0 MILES
EAST ALONG COCONUT PALM DRIVE FROM THE
INTERSECTION OF U.S. HIGHWAY 1 AT PRINCETON,
THENCE 4.7 MILES SOUTH ALONG A GRAVELED
ROAD, SET ON THE TOP OF THE WEST END OF THE
SOUTH CONCRETE ABUTMENT FOR THE FLOOD
CONTROL GATES OVER MOWRY CANAL, 2.3 FEET
NORTHWEST OF THE SOUTHWEST CORNER OF THE
HURRICANE FENCE AROUND THE GATES, 2.3 FEET
EAST OF THE WEST END OF THE ABUTMENT, 18 1/2
FEET WEST OF THE CENTER LINE OF A ROAD AT
SOUTH ENTRANCE TO GATES FOR FLOOD CONTROL
GATES AND LEVEL WITH THE GROUND.
R724 Has elevations of 5.33' NAVD 1988 and 6.85'
NGVD 1929.
DESCRIBED BY NATIONAL GEODETIC
SURVEY 1970 7.4 MI SE FROM PRINCETON. ABOUT
4.0 MILES EAST ALONG COCONUT PALM DRIVE
FROM THE INTERSECTION OF U.S. HIGHWAY 1 AT
PRINCETON, THENCE 3.4 MILES SOUTH ALONG A
GRAVELED ROAD SET ON THE TOP OF THE NORTH
ABUTMENT FOR THE FLOOD CONTROL GATE
ACROSS MILITARY CANAL, 26 FEET SOUTH OF THE
NORTHWEST CORNER OF THE HURRICANE FENCE
AROUND THE FLOOD CONTROL GATE, 2.4 FEET
EAST OF THE WEST END OF THE ABUTMENT, 1.8
FEET WEST OF THE WEST FENCE LINE AROUND
THE GATE AND LEVEL WITH THE GROUND.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The horizontal position of the structure was established using GPS.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

Elevations were generated by using FDOT Vector Software. Initial Geoid separations were generated using the latitudes and longitudes from the horizontal adjustment and NGS Geoid Model 2003. Then the SMOOTH routine within the FDOT Vector software was used along with the published elevations of the NGS Vertical control points to compute geoid separations for each observation. Two vertical control points were used to compute the geoid separations and the subsequent elevations. Initial error estimates were determined using standard error constants of 5 mm and 5 parts per million for all vectors in the network. The constrained adjustment held all control

points
fixed and the standard error for the final adjustment was 2.021 with 39 degrees of freedom. Overall network precision, based on 95% confidence level, was 6.60 parts 151,515). The average standard deviation in latitude, longitude and ellipsoid height was 3.9 cm. All points pass a Positional Tolerance Test with the settings of
0.03m for constant error and 1/50,000 for proportional error.

Lineage:
Process_Step:
Process_Description:
Real Time Kinematic (RTK) methods were used to establish the horizontal and vertical positions. The positions established are North American Datum of 1983, Adjustment of 1999 Zone, 0901 Florida East State Plane coordinates. The vertical positions are National Geodetic Vertical Datum of 1929. Since the vertical control points for
this project did not have accurate horizontal locations the
vertical control points were observed as a part of the RTK session. These horizontal coordinates along with the published elevation data were then used to complete the topographic observations at each platform. As the platform
observations progressed addition vertical control points were located as checks. Observations to the control points, platform corners and drainage pipes were occupied for 3 minutes. Once the first observations were completed the base was moved to another control point and the points were occupied again for one minute. All points except for natural ground observations were observed at least 2 times.Florida Department of Transportation (FDOT) Vector software was then used to do a least square adjustment on the observations. 35 vectors were measured and used in the adjustment for both sites. Initial
error estimates were determined using standard error constants of 5 mm and 5 parts per million for all vectors in
the network.
Process_Date: 20060406

Metadata_Reference_Information:
Metadata_Date: 20060505
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Michael M.Mossey, P.S.M.
Contact_Organization: Keith and Schnars
Contact_Position: PSM
Contact_Address:
Address_Type: mailing and physical address
Address: 6500 North Andrews Avenue
City: Ft. Lauderdale
State_or_Province: FL
Postal_Code: 34994
Country: USA
Contact_Voice_Telephone: (954)776-1616
Contact_Facsimile_Telephone: (954)351-7643
Contact_Electronic_Mail_Address: mmossey@keithandschnars.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: 19940608

Wells BBCWMW10A&B	*16434.00*	PARTY CHIEF	D. Ferels	DATE:	April 3, 2006		Datum:	*NAVD88*	FIELD BOOK 1182	PAGES 57-58		
STATION	**3 WIRE**	**AVG.(ENG)**	**HI**	**3 WIRE**	**AVG.(ENG)**	**ELEV.**	**BM EL.**	**DIST.**	**ERROR**	**ACCUM.**	**ADJ. ELEV.**	**METRIC**	**DESCRIPTION**
	4.850												
BM	3.750	3.750	9.009			5.259	**5.259**						NGS BM R-725
	2.650												
STADIA		220.000											
	7.170			6.740									
TP1	5.990	5.990	9.359	5.640	5.640	3.369		440.00	0.000000000	0.000000000	**3.369**	1.027	
	4.810			4.540				0.00					
	17.970			16.920				0.00					
STADIA		236.000			220.000								
	5.650			6.100									
TP2	4.450	4.450	8.894	4.915	4.915	4.444		473.00	0.000000000	0.000000000	**4.444**	1.355	
	3.250			3.730				-1.00					
	13.350			14.745				-1.00					
STADIA		240.000			237.000								
	6.705			6.015									
TP3	5.440	5.442	9.521	4.815	4.815	4.079		480.00	0.000000000	0.000000000	**4.079**	1.243	
	4.180			3.615				0.00					
	16.325			14.445				-1.00					
STADIA		252.500			240.000								
	6.560			6.390									
TP4	5.300	5.300	9.691	5.130	5.130	4.391		504.50	0.000000000	0.000000000	**4.391**	1.338	
	4.040			3.870				0.50					
	15.900			15.390				-0.50					
STADIA		252.000			252.000								

Wells BBCWMW10A&B	*16434.00*	PARTY CHIEF	D. Ferels	DATE:	April 3, 2006			Datum:	*NAVD88*	FIELD BOOK 1182	PAGES 57-58		
STATION	**3 WIRE**	**AVG.(ENG)**	**HI**	**3 WIRE**	**AVG.(ENG)**	**ELEV.**	**BM EL.**	**DIST.**	**ERROR**	**ACCUM.**	**ADJ. ELEV.**	**METRIC**	**DESCRIPTION**
	5.620			6.460									
TP5	4.410	4.410	8.917	5.180	5.183	4.507		507.00	0.000000000	0.000000000	**4.507**	1.374	
	3.200			3.910				-3.00					
	13.230			15.550				-3.50					
STADIA		242.000			255.000								
	5.630			5.180									
TP6	4.440	4.440	9.394	3.960	3.963	4.954		485.00	0.000000000	0.000000000	**4.954**	1.510	
	3.250			2.750				-1.00					
	13.320			11.890				-4.50					
STADIA		238.000			243.000								
	5.840			6.270									
TP7	4.740	4.740	9.069	5.065	5.065	4.329		241.00	0.000000000	0.000000000	**4.329**	1.319	
	3.640			3.860				-241.00					
	14.220			15.195				-7.50					
STADIA		220.000			241.000								
				4.910									
BM				3.810	3.810	5.259	**5.259**	440.00	0.000000000	0.000000000	**5.259**	1.603	NGS BM R-725
				2.710				0.00					
				11.430				-7.50					
					220.000								
							LOR=	3808.50	**CHECK VALUES TO VERIFY SAME**				
									OR TO SEE THEY ARE WITHIN				
	TOTAL + =	1900.500		**TOTAL - =**	1908.000			3808.50	**THIRD ORDER SPECS(MAX DIFF. 33 FT.)**				
					-7.50								
						RAW CLOSURE=	0.000						
						ERROR PER FOOT=	0.000						
			MTS ALLOWABLE ERROR FOR THIRD ORDER=				0.025						
						ACTUAL ERROR=	0.000	RED IF BAD-----GREEN IF GOOD					

Wells BBCWMW10A&B	*16434.00*	PARTY CHIEF	D. Ferels	DATE:	April 3, 2006		Datum:	*NGVD29*	FIELD BOOK 1182	PAGES 57-58		
STATION	**3 WIRE**	**AVG.(ENG)**	**HI**	**3 WIRE**	**AVG.(ENG)**	**ELEV.**	**BM EL.**	**DIST.**	**ERROR**	**ACCUM.**	**ADJ. ELEV.**	**METRIC**	**DESCRIPTION**
	4.850												
BM	3.750	3.750	10.534			6.784	**6.784**						NGS BM R-725
	2.650												
STADIA		220.000											
	7.170			6.740									
TP1	5.990	5.990	10.884	5.640	5.640	4.894		440.00	0.000000000	0.000000000	**4.894**	1.492	
	4.810			4.540				0.00					
	17.970			16.920				0.00					
STADIA		236.000			220.000								
	5.650			6.100									
TP2	4.450	4.450	10.419	4.915	4.915	5.969		473.00	0.000000000	0.000000000	**5.969**	1.819	
	3.250			3.730				-1.00					
	13.350			14.745				-1.00					
STADIA		240.000			237.000								
	6.705			6.015									
TP3	5.440	5.442	11.046	4.815	4.815	5.604		480.00	0.000000000	0.000000000	**5.604**	1.708	
	4.180			3.615				0.00					
	16.325			14.445				-1.00					
STADIA		252.500			240.000								
	6.560			6.390									
TP4	5.300	5.300	11.216	5.130	5.130	5.916		504.50	0.000000000	0.000000000	**5.916**	1.803	
	4.040			3.870				0.50					
	15.900			15.390				-0.50					
STADIA		252.000			252.000								

Wells BBCWMW10A&B	*16434.00*	PARTY CHIEF	D. Ferels	DATE:	April 3, 2006			Datum:	*NGVD29*	FIELD BOOK 1182	PAGES 57-58		
STATION	**3 WIRE**	**AVG.(ENG)**	**HI**	**3 WIRE**	**AVG.(ENG)**	**ELEV.**	**BM EL.**	**DIST.**	**ERROR**	**ACCUM.**	**ADJ. ELEV.**	**METRIC**	**DESCRIPTION**
	5.620			6.460									
TP5	4.410	4.410	10.442	5.180	5.183	6.032		507.00	0.000000000	0.000000000	**6.032**	1.839	
	3.200			3.910				-3.00					
	13.230			15.550				-3.50					
STADIA		242.000			255.000								
	5.630			5.180									
TP6	4.440	4.440	10.919	3.960	3.963	6.479		485.00	0.000000000	0.000000000	**6.479**	1.975	
	3.250			2.750				-1.00					
	13.320			11.890				-4.50					
STADIA		238.000			243.000								
	5.840			6.270									
TP7	4.740	4.740	10.594	5.065	5.065	5.854		241.00	0.000000000	0.000000000	**5.854**	1.784	
	3.640			3.860				-241.00					
	14.220			15.195				-7.50					
STADIA		220.000			241.000								
				4.910									
BM				3.810	3.810	6.784	**6.784**	440.00	0.000000000	0.000000000	**6.784**	2.068	NGS BM R-725
				2.710				0.00					
				11.430				-7.50					
					220.000								
							LOR=	3808.50	**CHECK VALUES TO VERIFY SAME**				
									OR TO SEE THEY ARE WITHIN				
	TOTAL + =	1900.500		**TOTAL - =**	1908.000			3808.50	**THIRD ORDER SPECS(MAX DIFF. 33 FT.)**				
					-7.50								
						RAW CLOSURE=	0.000						
						ERROR PER FOOT=	0.000						
				MTS ALLOWABLE ERROR FOR THIRD ORDER=			0.025						
						ACTUAL ERROR=	0.000	RED IF BAD-----GREEN IF GOOD					

```
00NMSC V10-70       024206-Apr-06 17:51 131111
10NMhomestaed       121221
13TSTime Date 03/28/2006 Time 09:18:55
95FC                                                          100000
78NM11
65KI20925604.4741667298.257221538153
D5KI
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D8KI
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49KI320925604.4741667298.2572229328700.000000000000000.000000000000000.00000000
0000000.000000000000000.000000000000000.000000000000000.00000000000000
50KI
81KI1
C8NM4US State Plane 1983             Florida East 0901               NAD 1983
(Conus) Mol
69KI        h106    411184.510000000875646.6100000004.30000000000000base pt.
12
69KI        h098    418071.070000000863456.03000000013.0000000000000base pt.
12
69KI        h084    467855.740000000879232.4800000008.80000000000000base pt.
12
69KI        h072    477163.910000000886189.96000000010.9000000000000base pt.
12
13TSTime Date 03/28/2006 Time 11:27:24
56KI136.00000000000000
56KI136.00000000000000
56KI136.00000000000000
82KI4
72KI30570870
82KI9
71KI21368232996.000000000320000
82KI6
13TSTime Date 03/28/2006 Time 12:05:13
56KI136.00000000000000
56KI136.00000000000000
56KI136.00000000000000
82KI3
57KI0.000000000000001
66FD        h106    25.4633152910027-80.3347740567954.29991219676756base pt.
14
E2BA5700    04401034100861Zephyr Geodetic
0.000000000000000.557118308333330.02923222500000
13NMReceiver firmware version=1.240
57KI4.082000000000002
73BA        h106
56KI136.00000000000000
56KI136.00000000000000
56KI136.00000000000000
82KI4
72KI30572342
82KI6
56KI136.00000000000000
56KI136.00000000000000
56KI136.00000000000000
82KI4
57KI0.000000000000001
66SI        h106    25.4633152910027-80.3347740567954.29991219676756base pt.
14
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66FD        h106    25.4633152910027-80.3347740567954.29991219676756base pt.
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13TSTime Date 03/28/2006 Time 13:03:06
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57KI0.000000000000001
66FD        h098    25.4824257631436-80.37162245235612.9999120736568base pt.
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E2BA5700    04401034100861Zephyr Geodetic
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13NMReceiver firmware version=1.240
57KI3.827000000000002
73BA        h098
56KI136.00000000000000
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82KI4
57KI0.000000000000001
66SI        h098    25.4824257631436-80.37162245235612.9999120736568base pt.
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57KI0.000000000000001
66FD        h098    25.4824257631436-80.37162245235612.9999120736568base pt.
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73KI        h098
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E2NM5800    43501296400970R8/5800 Internal
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13NMReceiver firmware version=2.020
57KI6.562000000000002
67TP        h106    12486.4783808149-912.72211165760-6268.1756733814
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71KI51368238739.000000000410001
71KI61368238740.000000000410001
71KI21368238779.000000000410001
71KI11368239516.000000000410002
71KI21368239539.000000000410002
13TSTime Date 03/28/2006 Time 13:33:13
71KI11368239593.000000000410003
67CN        r725    8464.66254100376-514.66027151252-4024.3700310472cqpper disc
r725410.027431711096950.03799732052907
C6NM0622.787876605987551.636554598808292.2569768428802520.48835158348080181
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71KI21368239879.000000000410000
71KI11368239954.000000000410004
71KI21368240192.000000000410000
71KI11368240311.000000000410005
67CN        r724    7841.058248013072455.150942512262339.02267628809cqpper disc
r724410.022036794315400.03253970782501
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66FD h106 25.4633152910027-80.3347740567954.29991219676756base pt.
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73BA h106
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13NMReceiver firmware version=0.000
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71KI21368244188.000000000410000
71KI11368244271.000000000410002
71KI21368244307.000000000410002
71KI11368244362.000000000410003
67TP r725 -4021.5884812042396.4382845449042244.53655905832
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82KI6
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82KI4
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69KI        look1   461449.208333333869814.533333333100.000000000000bm
11
69KI        look2   474539.733333333886973.291666667100.000000000000bm
11
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71KI61368318131.000000000410001
69KI   look3   461449.208333333869814.533333333100.000000000000bm
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71KI21368318510.000000000410000
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13TSTime Date 03/29/2006 Time 11:48:45
69KI   r724 base420698.085000000871584.8970000005.33000000000000base pt.
12
13TSTime Date 03/29/2006 Time 12:35:08
69KI   r725 base413649.833000000871736.2510000005.26000000000000base pt.
12
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66FD   r725 base25.4701515845012-80.3465887810625.25991215273544base pt.
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71KI21368325948.000000000410000
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71KI21368327017.000000000410000
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13TSTime Date 03/29/2006 Time 14:19:37
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13TSTime Date 03/30/2006 Time 09:09:40
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57KI0.000000000000001
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E2BA5700   04401034100861Zephyr Geodetic
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66FD   r725 base25.4701515845012-80.3465887810625.25991215273544base pt.
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71KI21368400719.000000000410000
71KI11368400796.000000000410004
13TSTime Date 03/30/2006 Time 10:23:14
67CN   platfrom 14658.703517560981106.42121514196650.967781472682dack shot
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C6NM0622.809710502624511.358218193054202.4596173763275113.62143819661520181
1368400811.0000000001368400993.0000000001
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67CN   platfrom 24654.090084682951106.64836407416653.051269442852dack shot
410.023563052373950.03808316365165
C6NM0522.815243244171141.560982227325442.3428461551666322.21088660390750181
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59NM060.023449474945660.00000415641171-
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67CN   platfrom 34656.255439482121109.09000456894657.950692606708dack shot
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C6NM0521.976287722587591.113313555717471.632864356040958.945910897302000182
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67CN   platfrom 44660.715680406231109.07476783516655.761813129121dack shot
410.034816085701050.04924378440132
C6NM0521.938083410263061.113746643066411.586107134819037.420412485340710182
1368401836.0000000001368402018.0000000001
59NM050.030508670955900.00000738430663-
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13TSTime Date 03/30/2006 Time 10:59:40
67CN   pipe 1 4655.909595684901105.40692157055652.5412237869936" pvc pipe
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59NM060.045004531741140.00001354046526-
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67CN   pipe 2 4655.686470797601105.76028417036652.0462491445282" pvc pipe
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1368403423.0000000001368403605.0000000001
59NM070.026146272197370.00000409805443-
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67CN   pipe 3 4658.667126784711109.14539620660657.8624639711422" pvc pipe
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67CN   pipe 4 4658.645107553531108.62535601591657.7839523686126" pvc pipe
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E2BA5700   04401034100861Zephyr Geodetic
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73BA   r724 base
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E2SI5700   086 Zephyr Geodetic
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67TP   pipe 2 5279.33205606414-1864.4035693760-5711.1192454885
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67TP   pipe 1 5279.61958416618-1864.8336443220-5710.5467715704
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67TP   platfrom 15282.38633053203-1863.6348097532-5712.3277706555
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67TP   platfrom 45284.41454354164-1861.1661249119-5707.3372015917xxx
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13NMReceiver firmware version=2.020
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67TP   ground 25292.89262589613-1854.8330767086-5713.4558914604sand
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E2BA5700 04401034100861Zephyr Geodetic
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73BA h084
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13NMReceiver firmware version=2.020
57KI6.562000000000002
67CN d270 -1681.1669026356-1033.6030763593-1527.0460102558brass disc
d270 410.020391373272100.04536627747579
C6NM0523.090801477432251.216461062431342.8413510322570827.75599101656360188
1368483157.0000000001368483346.0000000001
59NM060.018298264592890.00000482774431-
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69KI look4 460793.041666667883561.225000000100.000000000000
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66FD h084 25.6191879585053-80.3230311504648.79991119067993base pt.
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E2SI5700 086 Zephyr Geodetic
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13NMReceiver firmware version=0.000
57KI4.996709172924361
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69KI look5 464730.041666667883462.800000000100.000000000000
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71KI11368485786.000000000410001
71KI21368485834.000000000410001

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69KI        look6   466468.883333333885004.791666667100.000000000000
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71KI51368486570.000000000410002
71KI61368486571.000000000410002
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71KI61368486578.000000000410002
69KI        look7   465254.975000000884086.158333333100.000000000000
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71KI21368487030.000000000410002
69KI        look8   466173.608333333884086.158333333100.000000000000
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82KI4
72KI30570900
82KI6
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E2SI5700              086 Zephyr Geodetic
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57KI0.000000000000001
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E2BA5700    04401034100861Zephyr Geodetic
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13NMReceiver firmware version=1.240
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73BA	h084
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56KI136.000000000000000
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57KI0.000000000000001
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13NMReceiver firmware version=0.000
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73KI	h084
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13NMReceiver firmware version=2.020
57KI6.562000000000002
67CN	jh 1	4443.99570151009-591.20871169057-2757.07077955905/8irc kstp
410.027679683492170.05150583609880
C6NM0622.422940492630001.149878025054932.1327028274536110.10603675814840180
1369231035.0000000001369231214.0000000001
59NM060.032736562192440.00000942261067-0.0000049781215-
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71KI21369231254.000000000410001
82KI9
71KI21369231389.000000000410001
71KI11369231420.000000000410002
13TSTime Date 04/04/2006 Time 12:26:54
71KI21369232009.000000000410002
71KI11369232983.000000000410003
82KI9
71KI11369233274.000000000410003
13TSTime Date 04/04/2006 Time 13:00:23
67CN	jh 2	6878.335113687422908.276532189443583.238074671255/8irc kstp
410.018480247214110.04119779012453
C6NM0523.612159013748171.519539356231693.27699446678162	0181
1369233834.0000000001369234023.0000000001
59NM050.016881980001930.00000490665889-
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13TSTime Date 04/05/2006 Time 08:52:22
69KI	jh1 base464816.648000000883529.43800000014.0140000000000base pt.
12
69KI	jh2 base471863.476000000886481.41400000015.2630000000000base pt.
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57KI0.000000000000001
66FD	jh1 base25.6107654817797-80.31003933408514.0139112451564base pt.
14
E2BA5700	04401034100861Zephyr Geodetic
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13NMReceiver firmware version=1.240
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73BA	jh1 base
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56KI136.000000000000000
82KI4
57KI0.000000000000001

66SI	jh1 base25.6107654817797-80.31003933408514.0139112451564base pt.
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66FD	jh1 base25.6107654817797-80.31003933408514.0139112451564base pt.
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73KI	jh1 base
71KI11369306064.000000000410001
E2NM5800	43501296400970R8/5800 Internal
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13NMReceiver firmware version=2.020
57KI6.562000000000002
67CN	cd 182	-78.103400995421-24.349271937873-16.568089593915copper disc
cd18410.010056571281500.03505087132618
B6CNcopper disc cd182
C6NM0523.962894439697271.098365306854253.807640552520753.708811709657310181
1369306246.0000000001369306427.0000000001
59NM050.008883262053130.00000215583577-
0.00000369349730.000000961677640.00000980227105-0.00000237274160.00000176783919
71KI21369306581.000000000410000
71KI11369306786.000000000410002
67TP	d270	-6124.8437126992-444.144521067121230.96683474752
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C6NM0525.779078483581541.599012017250065.553459167480479.561532887777220062
1369306848.0000000001369306909.0000000001
71KI21369306961.000000000410000
13TSTime Date 04/05/2006 Time 09:30:45
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71KI11369307954.000000000410003
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57KI0.000000000000001
66FD	jh1 base25.6107654817797-80.31003933408514.0139112451564base pt.
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E2SI5700		086 Zephyr Geodetic
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73KI	jh1 base
71KI11369308588.000000000410003
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71KI11369309002.000000000410004
E2NM5800	43501296400970R8/5800 Internal
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13NMReceiver firmware version=2.020
57KI6.562000000000002
67CN	cd18-1	-38.852041022355-58.533664610474-97.576468530922copper disc
cd18410.018482264439720.03636514855252
B6CNcopper disc cd18-1
C6NM0622.187164545059201.006857991218571.9416296482086229.50843864757760181
1369309169.0000000001369309351.0000000001
59NM070.024917015805840.00000326894406-
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13TSTime Date 04/05/2006 Time 11:38:14
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82KI4
56KI136.00000000000000
56KI136.00000000000000
56KI136.00000000000000
82KI4
57KI0.000000000000001
66FD	jh1 base25.6107654817797-80.31003933408514.0139112451564base pt.
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E2SI5700	086 Zephyr Geodetic
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73KI	jh1 base
71KI11369315672.000000000410001
71KI21369315943.000000000410001
71KI11369316085.000000000410002
E2NM5800	43501296400970R8/5800 Internal
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13NMReceiver firmware version=2.020
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67TP	ground1 1630.07639176160-1229.9875715107-3141.4010641717sand
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C6NM0722.135436773300171.051123619079591.8588247299194315.18334335598510008
1369316102.0000000001369316109.0000000001
67TP	ground2 1633.81862743154-1229.8559015809-3142.6558589314sand
410.034084943222330.06029642128869
C6NM0722.137724399566651.052012920379641.8609498739242617.65386397509200008
1369316129.0000000001369316136.0000000001
67TP	ground3 1635.44458103129-1229.9797623101-3143.4026073560sand
410.022367877457060.03879665631305
C6NM0622.265239953994751.131722569465641.9622732400894211.58867717573520009
1369316157.0000000001369316165.0000000001
71KI51369316188.000000000410002
71KI61369316192.000000000410002
71KI51369316227.000000000410002
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71KI51369316258.000000000410002
71KI61369316261.000000000410002
71KI51369316274.000000000410002
71KI61369316277.000000000410002
67TP	ground4 1648.11536390712-1224.2840095460-3136.4869973707sand
410.019447024726420.03205895880077
C6NM0522.230877876281741.157163500785831.907298803329479.188892957019180007
1369316300.0000000001369316306.0000000001
67TP	ground5 1648.51122534191-1222.8289155414-3133.3337536228sand
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C6NM0522.234039068222051.157540917396551.910766601562509.460152298408120006
1369316327.0000000001369316332.0000000001
71KI21369316396.000000000410002
71KI11369316435.000000000410003
67TP	ground6 1649.00153100254-1221.8516731407-3131.5580580380sand
410.025230984578910.04201657460818
C6NM0523.184892416000371.639772057533262.7303273677825922.61920047825890006
1369316490.0000000001369316495.0000000001
67TP	ground7 1642.28272689737-1217.4064345886-3120.1593266801sand
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C6NM0522.258293390274051.160071969032291.9375556707382212.31591633864140006
1369316552.0000000001369316557.0000000001
67TP	ground8 1638.96269980078-1217.0346906604-3118.2024981098sand
410.028546445211650.04785109376238

C6NM0523.203510522842411.641388058662412.7510588169097914.84379785037350006
1369316624.0000000001369316629.0000000001
67TP ground9 1637.04428782220-1216.7400087423-3117.3527393186sand
410.031737110028010.05767504631716
C6NM0622.363645076751711.139626383781432.0707657337188719.30266765779570005
1369316792.0000000001369316796.0000000001
67TP ground101620.98347205004-1223.5309535182-3124.7816607468sand
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C6NM0622.373719453811651.141045331954962.0814800262451215.66880627682330006
1369316859.0000000001369316864.0000000001
67TP ground111619.85580633760-1225.2009969450-3127.7278694055sand
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C6NM0523.454664468765262.413583755493162.4717040061950722.33736756208700005
1369316970.0000000001369316974.0000000001
67TP ground121619.60926935117-1226.2487245877-3130.0507409364sand
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67CN platform 11639.03367545967-1233.4652980568-3130.3741612514deck grate
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C6NM0722.348984718322751.072504758834842.0898475646972715.61841192214110181
1369317626.0000000001369317808.0000000001
59NM070.028426237404350.00000770052520-0.0000061026112-
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67CN platform 21634.28658170827-1233.3760067302-3129.2336429820deck grate
410.017923503053350.03497852378626
C6NM0721.693628191947940.755838751792911.5156134366989115.32946419166890180
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59NM080.027371374890210.00000437202607-0.0000014189355-
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67CN platform 31635.74757747432-1230.9918323472-3124.7007115024deck grate
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59NM060.023527311161160.00000398713792-0.0000032808282-
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67CN platform 41640.15413464880-1230.8654500550-3125.9968228068deck grate
410.024669708578180.04378896638558
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59NM060.027581099420790.00000517041599-0.0000054562151-
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13TSTime Date 04/05/2006 Time 12:46:23
67CN platform 51637.65266472046-1230.7485188988-3124.9152555633deck grate
shot 410.029535753930000.05039105721775
B6CNdeck grate shot for pipe
C6NM0622.499381780624391.254603028297422.1616845130920421.59088310834610181
1369319402.0000000001369319583.0000000001
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56KI136.00000000000000
82KI4
57KI0.000000000000001
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14
E2SI5700 086 Zephyr Geodetic
0.000000000000000.000000000000000.00000000000000

13NMReceiver firmware version=0.000
57KI4.727680783271791
73KI jh1 base
71KI11369319922.000000000410001
E2NM5800 43501296400970R8/5800 Internal
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13NMReceiver firmware version=2.020
57KI6.562000000000002
67CN 6" pipe a11636.65441447212-1236.1116227632-3129.5830818097pipe shot
410.019792550596350.04329540062482
C6NM0822.178607702255250.899764478206631.9841259717941317.96318438688390181
1369320050.0000000001369320232.0000000001
59NM080.030149208381770.00000395419329-
0.00000215178330.000000029809740.00001734601392-0.00000121241870.00000209325276
67CN 2" pipe a21636.53921824720-1235.7432562079-3130.0312519108pipe shot
410.017680110316340.03771227637208
C6NM0822.154973268508910.906299948692321.9551291465759316.51268501422910183
1369320277.0000000001369320461.0000000001
59NM080.026872484013440.00000286186855-
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13TSTime Date 04/05/2006 Time 13:44:27
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56KI136.00000000000000
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56KI136.00000000000000
56KI136.00000000000000
82KI3
82KI6
56KI136.00000000000000
56KI136.00000000000000
56KI136.00000000000000
82KI3
57KI0.000000000000001
66FD d270 25.6145235261242-80.32858743677410.8105784867648brass disc
d270 410.020391373272100.04536627747579
E2BA5700 04401034100861Zephyr Geodetic
0.000000000000000.557118308333330.02923222500000
13NMReceiver firmware version=1.240
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73BA d270
69KI d270 base466151.126000000877410.183000000100.000000000000base pt.
12
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56KI136.00000000000000
56KI136.00000000000000
82KI3
57KI0.000000000000001
66FD d270 base25.6145235250810-80.32858743545799.9999112208510base pt.
14
E2BA5700 04401034100861Zephyr Geodetic
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57KI4.561000000000002
73BA d270 base
13TSTime Date 04/05/2006 Time 14:21:09
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56KI136.00000000000000
82KI4
57KI0.000000000000001
66SI   d270 base25.6145235250810-80.32858743545799.9999112208510base pt.
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57KI0.000000000000001
66FD   d270 base25.6145235250810-80.32858743545799.9999112208510base pt.
14
E2SI5700   086 Zephyr Geodetic
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13NMReceiver firmware version=0.000
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73KI   d270 base
71KI11369325509.000000000410001
E2NM5800   43501296400970R8/5800 Internal
0.000000000000000.000000000000000.21292608333333
13NMReceiver firmware version=2.020
57KI6.562000000000002
67TP   2" pipe a27761.69180464339-793.38545620470-4360.2067258007
440.025593341043130.02890099072588
C6NM0721.972330331802371.306886553764341.4772049188613932.87579472127710061
1369325789.0000000001369325849.0000000001
67TP   6" pipe a17761.85663155711-793.75249260614-4359.6421875235
440.041909673971740.04326187189612
C6NM0622.260523796081541.573642015457151.6228425502777131.57496991518300062
1369325992.0000000001369326074.0000000001
67TP   platform 57762.84910297494-788.55136396048-4354.8007264455
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C6NM0621.590776562690741.101231455802921.1479805707931530.61652624685510062
1369326283.0000000001369326344.0000000001
67TP   platform 37760.93588533985-788.90886545280-4354.5718211488
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C6NM0622.241434812545781.539950728416441.6286748647689828.58085116665610060
1369326486.0000000001369326545.0000000001
67TP   platform 47765.34524189237-788.71610778063-4355.9055940682
440.032808096694820.03512849639504
C6NM0621.582044482231141.081549048423771.1546066999435416.46597305998990062
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67TP   platform 17764.05930682009-791.12916349140-4360.4400715325
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82KI4
13TSTime Date 04/05/2006 Time 14:51:27
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66FD   d270 base25.6145235250810-80.32858743545799.9999112208510base pt.
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E2SI5700   086 Zephyr Geodetic
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13NMReceiver firmware version=0.000
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73KI   d270 base
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13NMReceiver firmware version=2.020
57KI6.562000000000002

67TP   platform 27759.37390615964-791.22350808228-4359.1746305014
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C6NM0524.411650180816652.702897310256963.4866898059845026.09885444766600064
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82KI6
13TSTime Date 04/05/2006 Time 16:20:10
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56KI136.00000000000000
82KI4
57KI0.000000000000001
66FD   d270 base25.6145235250810-80.32858743545799.9999112208510base pt.
14
E2SI5700   086 Zephyr Geodetic
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13NMReceiver firmware version=0.000
57KI4.557077690859641
73KI   d270 base
71KI11369332469.000000000410001
E2NM5800   43501296400970R8/5800 Internal
0.000000000000000.000000000000000.21292608333333
13NMReceiver firmware version=2.020
57KI6.562000000000002
67TP   jh1 base6125.49700489269440.383356653568-1229.1993604314
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C6NM0623.108368158340451.236450552940372.8518664836883531.97926929906790060
1369332545.0000000001369332606.0000000001
67TP   cd 182 6047.02924191900417.721593424721-1246.6307596734
440.015922579755900.03744033128558
C6NM0722.830566883087161.097627639770512.6090846061706514.31565462170460060
1369332697.0000000001369332756.0000000001
67TP   cd18-1 6086.36265199425383.564049744371-1327.5356268079
440.021188572343340.04599357978762
C6NM0722.708158493041991.096963286399842.4760439395904519.25403791430750061
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71KI11369333532.000000000410002
82KI6
13TSTime Date 04/06/2006 Time 09:22:36
56KI136.00000000000000
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56KI136.00000000000000
82KI4
56KI136.00000000000000
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82KI4
82KI6
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82KI3
57KI0.000000000000001
66FD   r725   25.4701515855855-80.34658878056116.8179362257662cqpper disc
r725410.027431711096950.03799732052907
E2BA5700   04401034100861Zephyr Geodetic
0.000000000000000.557118308333330.02923222500000
13NMReceiver firmware version=1.240
57KI5.037000000000002
73BA   r725
56KI136.00000000000000

56KI136.00000000000000
56KI136.00000000000000
82KI4
57KI0.000000000000001
66FD	r725	25.4701515855855-80.34658878056116.8179362257662cqpper disc
r725410.027431711096950.03799732052907
E2SI5700	086 Zephyr Geodetic
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13NMReceiver firmware version=0.000
57KI5.036079057157041
73KI	r725
71KI11369395384.000000000410001
13TSTime Date 04/06/2006 Time 09:55:18
E2NM5800	43501296400970R8/5800 Internal
0.000000000000000.000000000000000.21292608333333
13NMReceiver firmware version=2.020
57KI6.562000000000002
67TP	r724	-623.312174873532968.340866600276364.13692391653
440.020612175854130.03903823390441
C6NM0621.685421228408810.790436923503881.488574624061586.919272709637880062
1369395657.00000000001369395718.0000000001
82KI6
13TSTime Date 04/06/2006 Time 10:26:02
56KI136.00000000000000
56KI136.00000000000000
56KI136.00000000000000
82KI4
57KI0.000000000000001
66FD	r725	25.4701515855855-80.34658878056116.8179362257662cqpper disc
r725410.027431711096950.03799732052907
E2SI5700	086 Zephyr Geodetic
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13NMReceiver firmware version=0.000
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73KI	r725
71KI11369398256.000000000410001
E2NM5800	43501296400970R8/5800 Internal
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13NMReceiver firmware version=2.020
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67TP	ground134642.035058032531116.76302650468652.702858740665sand
410.042710015971050.05782527978514
C6NM0623.491483926773072.074852943420412.8081035614013711.56027918975600005
1369398531.00000000001369398535.0000000001
67TP	ground144643.198260619231118.27302743236655.573357109070sand
410.046479943675100.06340407795215
C6NM0623.491607904434202.064956188201902.815542936325078.105693728123840006
1369398571.00000000001369398576.0000000001
71KI51369398650.000000000410001
71KI61369398653.000000000410001
71KI51369398654.000000000410001
71KI61369398663.000000000410001
71KI51369398668.000000000410001
71KI61369398669.000000000410001
67TP	ground154644.200165818211120.25920827069659.924911091877sand
410.040998535033010.06300512282375
C6NM0522.315828800201421.263281941413881.9409229755401614.97371857495680005
1369398786.00000000001369398790.0000000001
67TP	ground164657.963762827881123.20132329827661.201862848288sand
410.043380398561660.06214047772202
C6NM0623.266409397125241.870269060134892.677970170974738.257170894036170006
1369398850.00000000001369398855.0000000001
71KI51369398960.000000000410001

71KI61369398964.000000000410001
67TP	ground174660.662021793941123.16301229024660.207324919017sand
410.035080455642010.05525733532808
C6NM0523.512250661849981.883291482925422.9646446704864515.96882939338680005
1369398975.0000000001369398979.0000000001
67TP	ground184663.001334954011123.09523527876659.456179491958sand
410.044689640363660.04982736101969
C6NM0623.518972635269162.350520610809332.6188206672668517.56983662122170005
1369399053.0000000001369399057.0000000001
71KI51369399229.000000000410001
71KI61369399232.000000000410001
67TP	ground194668.011524403761117.29300885257645.688686594042sand
410.057985797639680.06485210466662
C6NM0524.062006950378422.709264993667603.0265140533447314.19254970785820007
1369399257.0000000001369399263.0000000001
71KI21369399300.000000000410000
13TSTime Date 04/06/2006 Time 11:10:36
71KI11369400237.000000000410002
67TP	ground204667.809334471331117.01740321817644.106462643463sand
410.030011230272850.05954462470442
C6NM0423.911955118179321.761082768440253.4931333065033035.68745512319240007
1369400273.0000000001369400279.0000000001
67TP	ground214666.734498728731115.78062043780643.050059957590sand
410.030722537072710.06102703621665
C6NM0422.764668941497801.243342041969302.4693105220794742.71330115826510005
1369400287.0000000001369400291.0000000001
71KI51369400382.000000000410002
71KI61369400384.000000000410002
67TP	ground224654.625082661901112.06910589555639.485501100031sand
410.027566477094950.04790423838332
C6NM0621.692414760589600.844037234783171.4669250249862719.66584424831370005
1369400752.0000000001369400756.0000000001
67TP	ground234651.455694441241111.48077792447639.083737055477sand
410.089974209608360.19098769974072
C6NM0523.421924352645871.457599163055423.0959603786468522.08854267863850007
1369400977.0000000001369400983.0000000001
67TP	ground244648.908741911821111.86808891198640.917572771046sand
410.054928402089080.11477901237315
C6NM0522.396896600723271.033990859985352.1624007225036614.19303620136100009
1369401053.0000000001369401061.0000000001