

DP1A Site Information Form

DUPAGE COUNTY, ILLINOIS

0. Form

Orig. Prepared by : JEFF LUTEYN
Date Prepared : 2004-03-12
Update: : 2008-10-30
Report Type : NEW

1. Site Identification of the GPS Monument

Site Name : DUPAGE 421
Four Character ID : DP1A
Monument Inscription :
IERS DOMES Number :
CDP Number :
Monument Description : ANTENNA MOUNTED ON ROOF
Date Installed : 2003-08-14
Geologic Characteristic : GLACIAL TILL/BEDROCK (ORTHENTS SOILS)
Bedrock Type : SEDIMENTARY
Bedrock Condition : FRESH
Fracture Spacing : 1-10 cm
Fault zones nearby : YES (SANDWICH FAULT)
Activity : INACTIVE

2. Site Location Information

City or Town : WHEATON
State or Province : ILLINOIS
Country : UNITED STATES OF AMERICA
Tectonic Plate : NORTH AMERICA
Approximate Position
X coordinate (m) : 154176.945 M
Y coordinate (m) : -4754498.035 M
Z coordinate (m) : 4234784.133 M
Latitude : 41 52 2.54390 N
Longitude : 88 8 33.64976 W
Elevation (m,ellips.) : 208.464 M
Additional Information : ARP ITRF00 POSITION (EPOCH 2002.0)
COMPUTED BY NGS USING OPUS, THE ON-
LINE PROCESSING USER SERVICE WITH 10
DAYS OF DATA FROM AUGUST 2003.

3. GPS Receiver Information

- 3.1 Receiver Type : LEICA RS500
 - Serial Number : 0080128
 - Firmware Version : 5.0
 - Elevation Cutoff Setting : 10 deg
 - Date Installed : 2003-08-14
 - Date Removed : 2008-10-30
 - Additional Information : REPLACED \ UPGRADED

- 3.2 Receiver Type : LEICA GRX1200GGPRO
 - Serial Number : 355383
 - Firmware Version : 6.0
 - Elevation Cutoff Setting : 10 deg
 - Date Installed : 2008-10-30
 - Date Removed :
 - Additional Information : PERMANENT, OWNED BY DU PAGE COUNTY

- 4. GPS Antenna Information
 - 4.1 Antenna Type : LEIAT504
 - Serial Number : 897 or 986
 - Antenna Reference Point : BPA
 - Alignment from True N :
 - Antenna Radome Type : LEIS
 - Radome Serial Number :
 - Antenna Cable Type : PLENUM-RATED COAXIAL CABLE
 - Antenna Cable Length : 45 M (APPROX 150 FT)
 - Date Installed : 2003-08-14
 - Date Removed :
 - Additional Information : LEICA AT504 PILLAR WITH RADOME

- 5. Surveyed Local Ties
 - 5.x Tied Marker Name :
 - Tied Marker Usage :
 - Tied Marker CDP Number :
 - Tied Marker DOMES Number :
 - Differential Components from GNSS Marker to the tied monument (ITRS)
 - dx (m) : (m)
 - dy (m) : (m)
 - dz (m) : (m)
 - Accuracy (mm) : (mm)
 - Survey method :
 - Date Measured :
 - Additional Information :

6. Frequency Standard

6.1 Standard Type :
Input Frequency :
Effective Dates :
Notes :

7. Collocation Information

7.1 Instrumentation Type : GPS
Status : PERMANENT
Effective Dates : 2003-08-14
Notes :

8. Meteorological Instrumentation

8.1.1 Humidity Sensor Model : NA

8.2.1 Pressure Sensor Model : NA

8.3.1 Temp. Sensor Model : NA

8.4.1 Water Vapor Radiometer : NA

8.5.1 Other Instrumentation :

9. Local Ongoing Conditions Possibly Affecting Computed Position

9.1.1 Radio Interferences : NA
Observed Degradations :
Effective Dates :
Additional Information :

9.2.1 Multipath Sources : NONE NOTED

9.3.1 Signal Obstructions : NA
Effective Dates :
Additional Information :

10. Local Episodic Effects Possibly Affecting Data Quality

10.1 Date : NA
Event :

11. On-Site, Point of Contact Agency Information

Agency : DUPAGE COUNTY / GIS DIVISION
Mailing Address : 421 N COUNTY FARM ROAD WHEATON, IL
60187-3989

Primary Contact
Contact Name : MIKE SEMENEK
Telephone (primary) : 630 407 5055
Fax : 630 407 5201
E-mail : BENCHMARKS@DUPAGECO.ORG

Secondary Contact
Contact Name : BILL FAEDTKE
Telephone (primary) : 630 407 5033
E-mail : GIS@DUPAGECO.ORG

12. More Information

Primary Data Center : WWW.DUPAGECO.ORG
URL for More Information :
Hardcopy on File
Site Map : (Y)
Site Diagram : (Y)
Horizon Mask : 10
Monument Description : (Y)
Site Pictures : (URL)
Additional Information :

Antenna Graphics with Dimensions

(insert text graphic from file antenna.gra)

<http://www.ngs.noaa.gov/ANTCAL/Models/LEIAT504+rd.shtml>