

# DP2A Site Information Form

## DUPAGE COUNTY, ILLINOIS

### 0. Form

Orig. Prepared by : JEFF LUTEYN  
Date Prepared : 2004-03-15  
Update : 2008-10-30  
Report Type : NEW

### 1. Site Identification of the GPS Monument

Site Name : ELMHURST QUARRY  
Four Character ID : DP2A  
Monument Inscription :  
IERS DOMES Number :  
CDP Number :  
Monument Description : ANTENNA MOUNTED TO SIDE OF  
CONCRETE STRUCTURE, EXTENDING ABOVE  
ROOF  
Date Installed : 2003-11-21  
Geologic Characteristic : ALLUVIUM/BEDROCK (SAWMILL 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 : ELMHURST  
State or Province : ILLINOIS  
Country : UNITED STATES OF AMERICA  
Tectonic Plate : NORTH AMERICA  
Approximate Position  
X coordinate (m) : 168805.145 M  
Y coordinate (m) : -4751531.267 M  
Z coordinate (m) : 4237492.538 M  
Latitude : 41 54 01.33515 N  
Longitude : 87 57 55.21960 W  
Elevation (m,ellips.) : 177.894 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 NOVEMBER 2003.

### 3. GPS Receiver Information

- 3.1 Receiver Type : LEICA SR530  
Serial Number :  
Firmware Version : 4.0  
Elevation Cutoff Setting : 10 deg  
Date Installed : 2003-11-21  
Date Removed : 2004-03-04  
Additional Information : REMOVED FOR DIAGNOSTIC TESTING;  
RECEIVER SUFFERED SERIES OF  
UNEXPLICITABLE LOCKUPS AND POWER  
FAILURES.
- 3.2 Receiver Type : LEICA RS500  
Serial Number :  
Firmware Version : 4.0  
Elevation Cutoff Setting : 10 deg  
Date Installed : 2004-03-04  
Date Removed : 2004-10-21  
Additional Information : REPLACEMENT RECEIVER ON LOAN
- 3.3 Receiver Type : LEICA SR530  
Serial Number :  
Firmware Version : 5.0  
Elevation Cutoff Setting : 10 deg  
Date Installed : 2004-10-21  
Date Removed : 2008-10-30  
Additional Information : REPLACED \ UPGRADED
- 3.4 Receiver Type : LEICA GRX1200GGPRO  
Serial Number : 355483  
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 : EXTERIOR COAXIAL CABLE

Antenna Cable Length : 15 M (APPROX 50 FT)  
Date Installed : 2003-11-21  
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 : 2003-11-21  
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 : RADIO TOWER TO THE SOUTH-SOUTHEAST  
Effective Dates : PERMINENT  
Additional Information : TESTED ANTENNA LOCATION PRIOR TO  
INSTALL, INTERFERENCE IS NEGLIABLE

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 : (Y)  
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>