**FILE: 50131190.21o OP1620219018189**

**POINT 5013**

NGS OPUS-RS SOLUTION REPORT

========================

All computed coordinate accuracies are listed as 1-sigma RMS values.

For additional information: <https://www.ngs.noaa.gov/OPUS/about.jsp#accuracy>

USER: [rick@lighthouselandsurveying.com](mailto:rick@lighthouselandsurveying.com) DATE: May 05, 2021

RINEX FILE: 5013119p.21o TIME: 12:52:40 UTC

SOFTWARE: rsgps 1.38 RS93.prl 1.99.3 START: 2021/04/29 15:06:30

EPHEMERIS: igr21554.eph [rapid] STOP: 2021/04/29 16:24:30

NAV FILE: brdc1190.21n OBS USED: 5553 / 7632 : 73%

ANT NAME: LEIGS14 NONE QUALITY IND. 30.95/ 43.41

ARP HEIGHT: 2.000 NORMALIZED RMS: 0.320

REF FRAME: NAD\_83(2011)(EPOCH:2010.0000) ITRF2014 (EPOCH:2021.32509)

X: 1510646.232(m) 0.005(m) 1510645.277(m) 0.005(m)

Y: -4449542.101(m) 0.012(m) -4449540.684(m) 0.012(m)

Z: 4298401.038(m) 0.015(m) 4298401.047(m) 0.015(m)

LAT: 42 38 32.82943 0.006(m) 42 38 32.86583 0.006(m)

E LON: 288 45 9.56916 0.005(m) 288 45 9.54947 0.005(m)

W LON: 71 14 50.43084 0.005(m) 71 14 50.45053 0.005(m)

EL HGT: 48.331(m) 0.018(m) 47.124(m) 0.018(m)

ORTHO HGT: 75.872(m) 0.026(m) [NAVD88 (Computed using GEOID18)]

**248.923 usft**

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 19) SPC (2001 MA M)

Northing (Y) [meters] 4723559.371 932461.305 **3059250.131 usft**Easting (X) [meters] 315760.370 220720.890 **724148.4533 usft**Convergence [degrees] -1.52282500 0.16971667

Point Scale 1.00001763 0.99999424

Combined Factor 1.00001005 0.99998666

US NATIONAL GRID DESIGNATOR: 19TCH1576023559(NAD 83)

BASE STATIONS USED

PID DESIGNATION LATITUDE LONGITUDE DISTANCE(m)

DI1075 NHUN U NEW HAMPSHIRE CORS ARP N430833.179 W0705706.862 60570.9

DO9471 MAPL PLYMOUTH CORS ARP N415619.314 W0703918.243 92177.5

DP1961 MAWM WESTMINSTER CORS ARP N423340.621 W0715559.207 56997.8

DL9078 NHCO NHDOT CONCORD CORS ARP N431246.195 W0713111.475 67156.5

DO5451 MEGO GORHAM CORS ARP N434052.067 W0702703.724 132320.8

DO9467 MADA DARTMOUTH CORS ARP N413822.848 W0710141.393 112846.9

DR6402 MAWR MAWR WRENTHAM CORS ARP N420230.133 W0711815.039 66895.4

DP1320 MABN BERNARDSTON CORS ARP N424011.991 W0723228.643 106139.1

DO2056 MESP SOUTH PARIS CORS ARP N441306.196 W0703047.107 184900.1

NEAREST NGS PUBLISHED CONTROL POINT

MY2634 43 AQ 1934 N423832.802 W0711449.093 30.5

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.