



# TOWN OF PLYMOUTH

Department of Public Works  
Engineering Division  
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**To: ADVISORY AND FINANCE COMMITTEE**

**From: Sid Kashi, P.E., Town Engineer** ✓ S.K.

**Through: Jonathan Beder, Director of Public Works**

**CC: Melissa Arrighi, Town Manager  
Dennis Westgate, Asst. DPW Director**

**Date: September 7, 2016**

**Subject: 2016 Fall Annual Town Meeting  
Article 4G  
Replace GPS Field Survey Grade Equipment**

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We were able to find out after experiencing poor performance/inconsistent data logs and trouble-shooting/ research that the GPS Equipment we have been using for 16 years is officially obsolete. The receiver unit is permanently unable to interpret satellite data and the manufacturer (Trimble) refers to this equipment as “long obsolete and end of service” (see attached). Our surveying instrument needs to be replaced. The manufacturer is recommending replacing the equipment since there is no technical solution available to correct the problem. The surveying instrument will replace existing one that we have now.

Encl. : Support Note from Manufacturer

# SUPPORT NOTE

JANUARY 2016

TRIMBLE EMPLOYEE CONFIDENTIAL

## TRIMBLE 4700/4800 GPS RECEIVERS WILL STOP WORKING PROPERLY STARTING FEBRUARY 14, 2016

### Summary

On February 14, 2016, Trimble 4700 and 4800 GPS receivers, that are long obsolete and end of service, will start experiencing erratic and unreliable behavior for time and date reporting. As those receivers will interpret the GPS time in error by 1024 weeks, receiver data outputs will have the wrong time reference. This will negatively impact subsequent systems that are communicating with that receiver, including the rejection of data packages. Real-Time Kinematic operation (RTK) operation is not expected to continue working properly.

Newer Trimble GPS/GNSS receivers types, including Trimble 5700/R5/R7/NetR9 Geospatial/NetRS/NetR5, Trimble 5800/R2/R4/R6/R8/R8s/R10/R10LT with current firmware are not impacted by this.

### Resolution

Unfortunately, there is no technical solution available for for Trimble 4700 and 4800 GPS receivers to correct this issue. For Trimble 4700/4800 GPS receivers still in use, please work with the end-user on a receiver replacement solution towards a new or more recent GNSS receiver system.

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<http://surveypartners.trimble.com>