REPEATER MAINTENANCE LOG

**SITE: VE7QMR**

**DATE: August 17, 2019**

**PERSONEL INVOLVED: VE7KDK, VA7TMK, VE7HMN, Keith (TMK Father-in-Law). VE7HDY, VE7BPH, VE7AM providing transport support.**

**TIME INVOLVED: 3.5 hours Travel each way from Piccadilly Mail, Salmon Arm; Approximately 3.5 hours of work on-site.**

**DESCRIPTION OF WORK DONE:**

**The NiCD batteries in the APRS trailer were topped up with distilled water with approximately 5 liters being used. The cell voltages were checked and each of the 20 cells measured either 1.36 or 1.37 Volts. The southern white-topped cell has dirty electrolyte. The crimp connectors to the solar charger were cleaned and one was replaced. The APRS solar charger is functioning normally.**

**The cat5 cable between the trailer and shack was replaced and the new cable is now protected by aluminum armour flex. As Vella now has their own monitoring system, only the club’s VHF repeater batteries are monitored using this cable.**

**The ground-plane antenna, coax and mast on the APRS system was replaced with a three element 2M Yagi fed using RG-8U coax. The Yagi is mounted on a 1.5 inch aluminum solid wall mast reinforced internally with a section of 1.25 inch stainless steel pipe. The antenna and feedline were checked using an SWR meter with approximately 3 Watts of forward power and negligible reflected power being noted.**

**Measuring each battery on the VHF repeater battery bank would require disassembly of the paralleling battery cables, so these were simply inspected and the overall Voltage measured at 13.69 Volts. The batteries are in good condition and the solar charger is functioning normally.**

**Other site equipment, solar panels, etc. were inspected and found to be in good repair. Some cleanup was done to remove accumulated waste and surplus items.**

**ADDITIONAL NOTES:**

**Vehicles were provided by VE7KDK, VE7AN and VA7TMK. Quads were provided by Keith, VE7KDK and VA7TMK.**

**This report was written and submitted by Robin, VE7HMN.**