

S13036  
12 April 2013

## **MOLYNEUX BAY ONSHORE TRANSECT SURVEY** **April 2013**

### **DATES OF SURVEY:**

2<sup>nd</sup> – 10<sup>th</sup> April 2013

### **EQUIPMENT USED:**

GPS: Leica System GS15 GPS Receivers, SN's 1512055 & 1512244  
Method of survey – Real Time Kinematic (RTK) GPS.

### **DATUM AND ORIGIN OF COORDINATES:**

The survey was completed in New Zealand Transverse Mercator Projection with NZGeoid2009 incorporated.

The Origin of Coordinates was taken LINZ mark BOC0 at the Northern end of Kaka Point. Survey checks were conducted to other LINZ marks being: ADPJ, ADPA, B3ME, A122 and BGR7 along with ORC bench mark PAU2.

### **METHOD:**

For each cross section, a reference line was created between the provided end points of each line. These reference lines were then setout with the RTK GPS recording changes in grade and features along the length.

The majority of lines were surveyed as two parts with the tidal ends of the lines being surveyed within a two window of low tide to ensure the survey could be extended as far seaward as possible. Depending on the time of day and surf conditions some lines were able to be surveyed as one continuance line.

Some sections of line were unable to be surveyed on lines MB1, 2 and 3. These sections were either the invert of the river channel or swamp areas that were impassable on foot. In all cases the data assumes a flat base from invert readings taken from both sides.

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**SAFETY:**

A safety plan was prepared for this survey and submitted to the ORC. A copy was carried in the field vehicle at all times. There were no health and safety incidents on this project.

**OTHER MATTERS:**

Letters were sent out to all Landowners that this survey required access onto their properties. There were no issues raised with BTW by any landowners and all those spoken to in the field were happy to allow access.

Lines MB 1 – 8 were mainly through dairy farms and contained a large number of high voltage electric fences to negotiate.