

CIRCULAR LETTER NO. 482

[This letter supersedes Circular Letter No. 438]

December 3, 2019

TO ALL BRITISH COLUMBIA LAND SURVEYORS

Re: Integrated Survey Area No. 1, City of Surrey and Integrated Survey Area No. 13, City of Delta - New and Adjusted Monuments

The coordinate control monument listings for the **Surrey Integrated Survey Area** and the **Delta Integrated Survey Area** have been updated. In addition, the extent of the Surrey ISA has been expanded at the north end to coincide with the municipal boundary resulting in the entirety of Surrey now being contained within the ISA.

Within the Surrey ISA there are 82 new coordinate control monuments and revised values for 57 existing monuments. Within the Delta ISA there is one new coordinate control monument and revised values for two existing monuments. There was also one monument installed in the City of Pitt Meadows as a result of this project.

Recent work completed using GNSS and spirit levelling within the Surrey and Delta ISAs has yielded revised values only for those monuments that were directly observed. The surrounding passive network consisting of over 1400 GCMs within the Surrey ISA will remain unmodified.

Of the 84 new monuments:

- All have accurate GNSS derived horizontal coordinates published;
- 9 have elevations derived via spirit levelling;
- 75 have elevations derived via GNSS observations.

Of the 59 existing monuments:

- 4 were previously elevation benchmarks having only approximate horizontal coordinates. These have now been upgraded to accurate GNSS-derived horizontal coordinates;
- 14 were observed via spirit levelling alone and only their elevations have been updated;
- 41 were observed via GNSS and their horizontal coordinates have been updated.
 - Depending on specific circumstances a subset of these monuments have had their historic elevations revised via the latest GNSS observations. As GNSS-derived CGVD28 elevations have accuracy limitations, historic spirit levelling elevations have prevailed in many instances.

In addition to the new monuments published today, 25 High Precision Network (HPN) monuments within Surrey and adjacent ISAs were also incorporated within the project and some of them were used as the basis for these new results. Updates to the values of these HPN

monuments have been postponed until the results of the overall adjustment of the [Metro Vancouver HPN](#)¹ has been released, which is expected to occur in December 2019.

The updated coordinate control monument listings have been published in an electronic format under the authority of section 13(5) of the *Land Survey Act* and are available for viewing or download from the Surveyor General Practice Info section of the LTSA website under **Integrated Survey Area Program**. This web page displays a table of all Integrated Survey Areas in numerical order. The ISA number provides a link to the respective coordinate control monument listing.

An electronic map of the location and extent of all Integrated Survey Areas is published in the *ParcelMap BC Search for Land Surveyors* view on myLTSA under the authority of section 13(1) of the *Land Survey Act*. ParcelMap BC shows the location and designation of the coordinate control monuments on the '**Survey Features**' → '**Survey Control**' layer and the boundary of the integrated survey areas on the '**Survey Features**' → '**Integrated Survey Areas**' layer.

A user may also link to the **MASCOT** Survey Control Database to obtain control monument sketches and detailed coordinate information and revision history. To invoke this function within ParcelMap BC, turn on the '**Survey Control**' layer to see the location of all monuments.

Click on the desired monument location; in the Search Results pane on the right side of the screen the monument should be listed by GCM number and when hovered over there is a link to 'Search MASCOT' which will bring up a new page with the GCM number pre-entered for a search in MASCOT.

Legal surveys within Integrated Survey Areas must be integrated according to Rule 2-3 of the Survey and Plan Rules.

Yours sincerely,



Cristin Schlossberger, BCLS
Surveyor General of British Columbia

¹ <https://www2.gov.bc.ca/gov/content/data/geographic-data-services/georeferencing/survey-control-operations/mvrd-hpn-2d>