

**GeoBC
BRITISH COLUMBIA ACTIVE CONTROL SYSTEM**

GNSS ACTIVE CONTROL POINT as of 2019/12/16

STATION: BCLC
GEODETIC MARK: 904904
FULL NAME: BCACS - City of Langley ACP
CLASS: BCACS Primary
LOCATION: Langley, B.C., Canada

- 2019/12/16

MARKER COORDINATES: Latitude n 49 6 13.73193
Longitude w122 39 26.48460
Hybrid Ellipsoid Height 3.916 m*
Orthometric (CVD28GVRD2018) Height 23.125 m

- 2018/11/01 OBSOLETE

~~MARKER COORDINATES: Latitude n 49 6 13.73189
Longitude w122 39 26.48399
Hybrid Ellipsoid Height 3.916 m*
Orthometric Height 23.125 m~~

- 2005/04/05 OBSOLETE

~~MARKER COORDINATES: Latitude n 49 6 13.73189
NAD83 (CSRS) Longitude w122 39 26.48399
Ellipsoid Height 3.914
Orthometric Height 23.124~~

*Hybrid Ellipsoid Heights are derived by adding the HTMVBC00_Abb separation (N) to the levelling-derived CVD28GVRD2018 orthometric heights. I.e. they are not derived from GNSS observations and are therefore not true ellipsoid heights.

- 2019/12/16

GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRS) 4.0.0.BC.1.MVRD
Geoid Model = HTMVBC00_Abb
N = -19.209m
xi = -7.9s
eta = -4.9s

- 2018/11/01 OBSOLETE

~~GEODETTIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRS) 4.0.0.BC.1.GVRD
Geoid Model = HTMVBC00_Abb
N = 19.209m
xi = 7.9s
eta = 4.9s~~

2005/04/05 OBSOLETE

~~GEODETTIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRS) 4.0.0.BC.1.GVRD
Geoid Model = GVRD00
N = 19.21m
xi = 7.85s
eta = 4.93s~~

REFERENCE NETWORKS:

Inner: nil

Outer:

COLLOCATION TIES:

- nil

ANTENNA HEIGHT: > vertical distance measured to antenna reference point

- 2004/10/04 00:00UT 0.000m

GNSS RECEIVER:

- 2011/09/29 19:00UT Leica GR10 s/n 1700649
(used for RINEX as of 2011/09/30)
- 2004/10/04 14:00UT Trimble NetRS s/n#45905-00

FIRMWARE:

- 2011/09/29 19:00UT Firmware ver. 1.1
- 2011/01/21 01:00UT Firmware ver. 1.3.0
- 2006/01/13 00:00UT Firmware ver. 1.15
- 2004/10/04 14:00UT Firmware ver. 1.03

ANTENNA (diagram below):

- 2011/09/29 19:00UT LEIAR25 W/LEIT s/n 10401008
- 2004/10/04 14:00UT Trimble Choke Ring w/Radome (TRM29659.00)
sn#0220335590

ANTENNA CABLE:

- 2004/10/04 00:00UT

CLOCK:

- 2004/10/04 00:00UT GPS Receiver Internal Clock

MODEMS: N/A

UNINTERRUPTABLE POWER SUPPLY:

- 2004/10/04

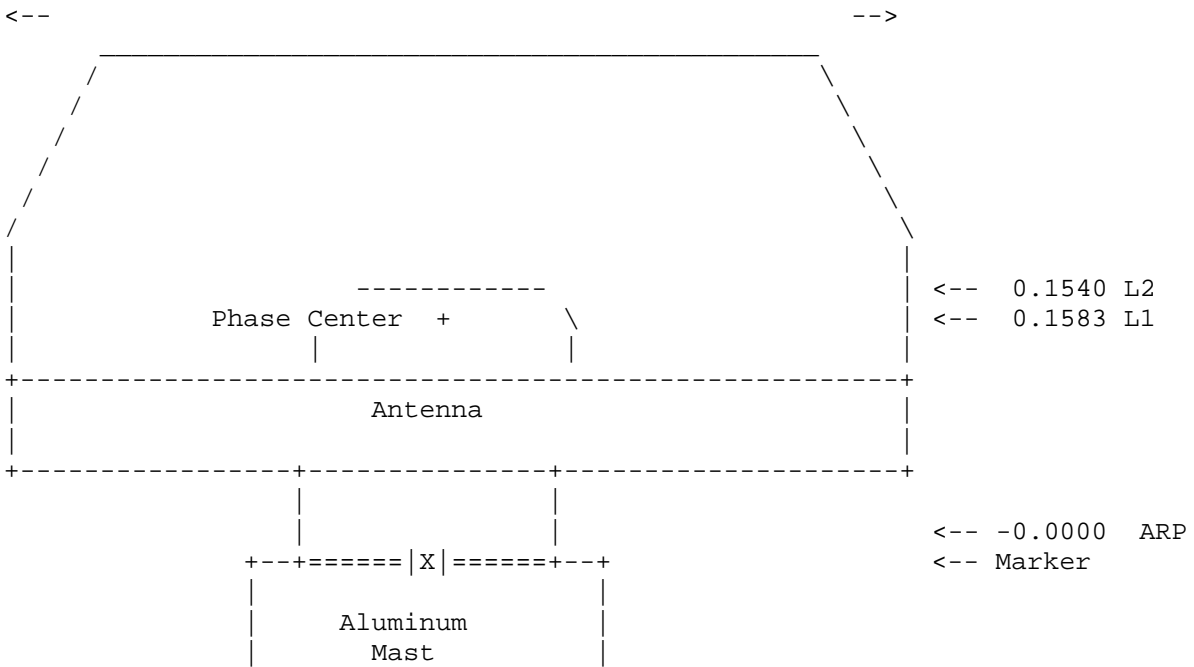
STATUS:

- 2004/10/04 14:00UT Operational

AGENCY: Province of British Columbia
GeoBC
3400 Davidson Ave.
Victoria, BC, Canada V8Z 3P8
email: GeoBCinfo@gov.bc.ca

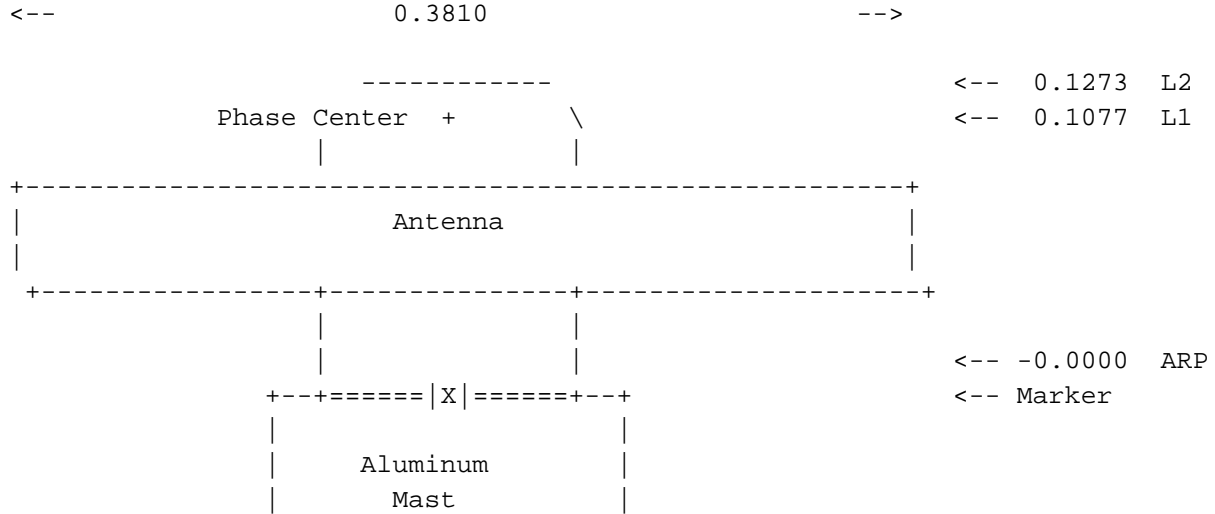
ANTENNA DIAGRAM:

2011/09/29 Leica AR25 w/ Leica dome (LEIAR25 LEIT)



- 2004/10/04
TRM29659.00 UNAV)

Dorne Margolin Trimble Choke Ring w/radome (NGS



Marker - X

ACRONYMS:

ACP ... Active Control Point
ARP ... Antenna Reference Point
BCACS ... British Columbia Active Control System
CGVD28 ... Canadian Geodetic Vertical Datum 1928
GVRD00 ... Height Transformation Model for CGVD28, Metro Vancouver Regional District (formerly referred to as the Greater Vancouver Regional District)
HTMVBC00_Abb ... Height Transformation Model for CGVD28, Metro Vancouver Regional District and Abbotsford
NAD83 ... North American Datum 1983
NAD83(CSRS) 4.0.0.BC.1.GVRD ... NAD83, Canadian Spatial Reference System, Version 4, Epoch 2002, British Columbia, Greater Vancouver Regional District
NAD83(CSRS) 4.0.0.BC.1.MVRD ... NAD83, Canadian Spatial Reference System, Version 4, Epoch 2002, British Columbia, Metro Vancouver Regional District
RINEX ... Receiver Independent Exchange Format
WGS84 ... World Geodetic System 1984