

AA8H, G Lake Hill

Project	2018 CSI GPS
Created	2018-01-09 15:51:36 NZDT by Neville Palmer
Updated	2018-02-15 22:54:24 NZDT by Neville Palmer
Location	-43.48352157, 171.1878169
Status	■ Retrieved
Geodetic Code	AA8H
Station Name	G Lake Hill
Station Height (m)	775.8455
Station Height (ft)	2545

Mark, Site & Photo Details

Mark & Protection Details

Mark Type	Stainless Steel Pin
Mark Physical State	Reliable / Found
Mark Description	This mark is used for deformation monitoring, do not alter the ground mark in any way. 5mm dia IT in earth mound. 25mm SS pin in IT with concrete collar. Buried mark unknown.

Plates & Plaques

ID Plaque (bronze)	ID Plaque Exists
ID Plate (aluminium)	ID Plate Exists
Information Plate (aluminium)	Info Plate does Not Exist and was Not Installed

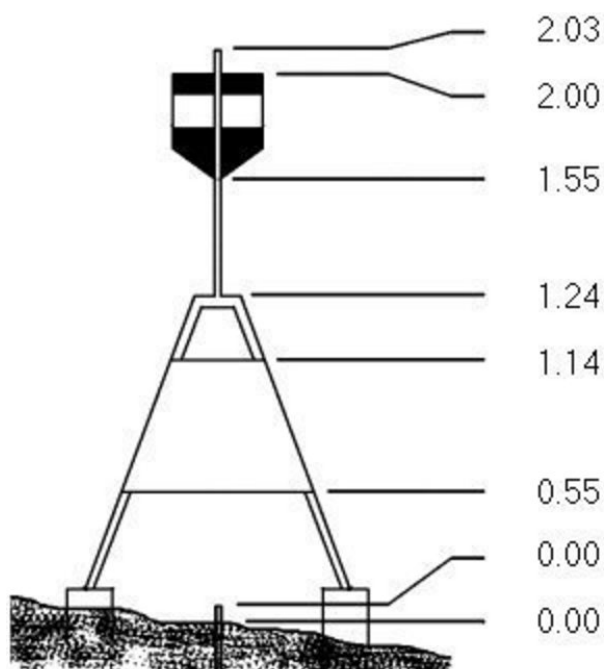
Protection

Primary Protection	2m Metal Beacon
--------------------	-----------------

Beacon Details

Beacon Type	2m Metal Beacon, Clarke, Nelson, Gisborne
-------------	---

Existing Beacon Diagram (read only).



Beacon Eccentricity

Previously Recorded Eccentricity	Central
Is Beacon Eccentric?	Beacon not central (by more than 0.01m) on arrival and departure from site
Bearing of Eccentricity.	180
Distance of Eccentricity (metres).	0.03

Height Details (all in metres)

Mark Ground Level Relationship in metres (+ve below GL / -ve above GL)	-0.04
Top of Vane or Black Strip	2
Bottom of Vane or Black Strip	1.55
Top of Head or Apex	1.24
Top of Side Panels	1.14
Bottom of Side Panels	0.55

Maintenance Completed and Required

Mark Maintenance Completed	No
Beacon Maintenance Completed	No
Protection Maintenance Completed	No
Mark Maintenance Required	No
Beacon Maintenance Required	Yes
Description	Vanes eccentric by 4cm
Protection Maintenance Required	Yes

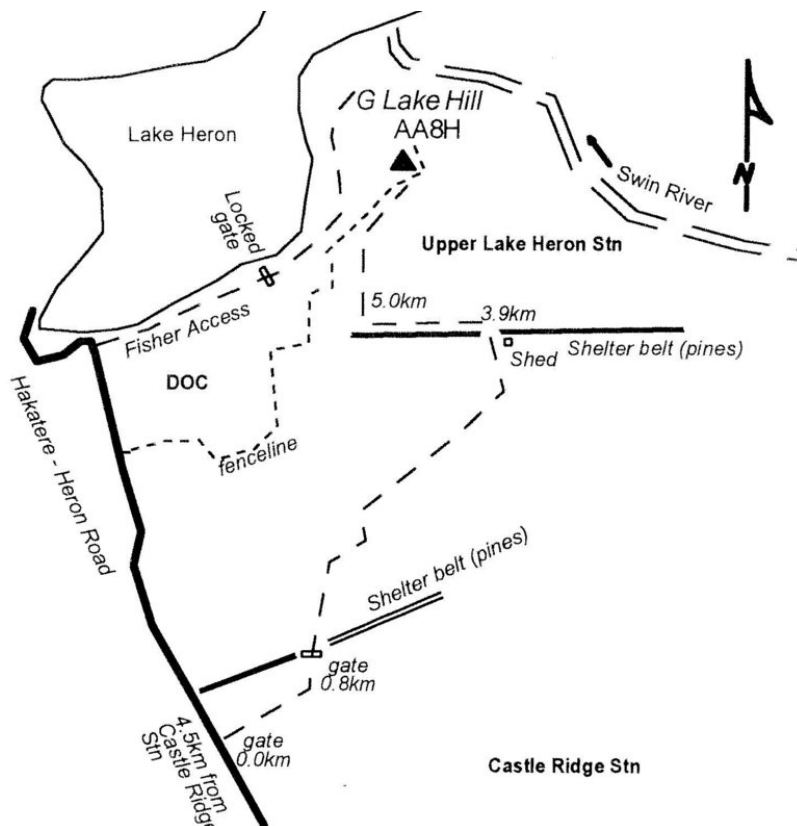
Description	ID plaque on beacon has been weather/wind blasted. Only ID visible
-------------	--

Verification

Have all mark and protection fields above been updated or verified to be correct?	Yes
---	-----

Site & Access Details

Diagram



Access and Location Description	Location off Hakaterere Heron Rd. Drive to Mt Arrowsmith Station then proceed along South side of lake to Lake Hill. Trig is located on summit. Follow obvious track to the second gate. After the second gate, ford small stream. In 1996, the best ford was found by driving slightly upstream, the direct route was not advisable. After crossing the stream, take second left. Stop by a small bay on the lakeshore with 2 trees. From here, please walk the last few hundred m to summit as there is no track. Jan 2018: Park vehicle in DOC car park and take DOC track directly to summit/trig. Walk takes 20-30minutes (DOC sign says 45 minutes).
---------------------------------	--

Access vehicle	Walk
GNSS Suitability	Good

Cell Phone Network Coverage

Spark	Network signal not tested
Vodafone	Network signal not tested
2 Degrees	No signal or unreliable signal

Verification

Have all site & access fields above been updated or verified to be correct?	Yes
---	-----

Photographs

Existing Photo or Site Image

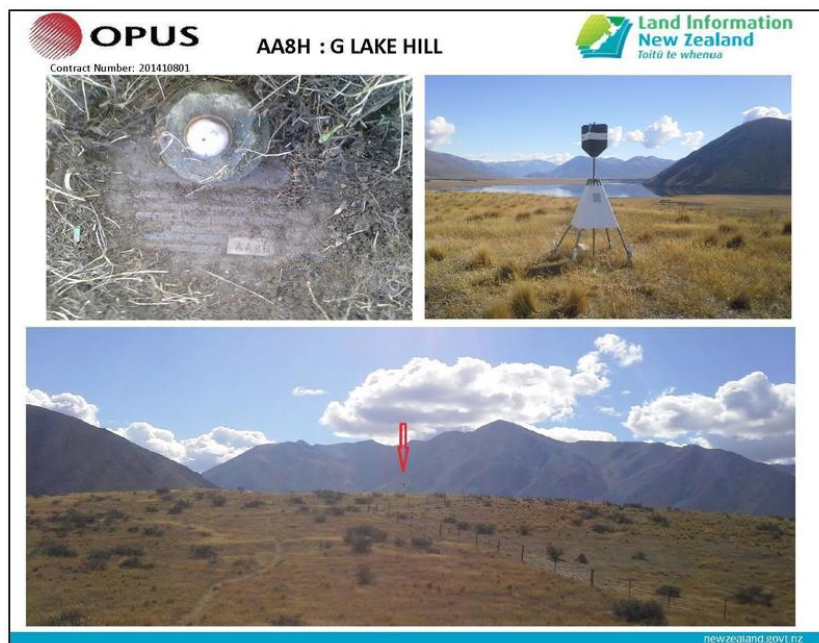


Photo of Survey Mark





Photo of Immediate Site



Photo of Extended Site



Verification

Is there at least one photo taken for each field above?	Yes
Have any mark, site or photo details been updated or verified?	Yes - All details have been fully updated or verified.
Updated by:	Jean-Louis Morrison

Owner & Contact Details

Owner & Contact

Contact Details from the LINZ GDB

Owner/Contact	DOC - Geraldine or Castle Ridge Stn and Upper Lake Heron Stn
Phone	(03) 693 1010
Address	Lake Heron

Contact Comments

Access permission restrictions (to report in LINZ GDB)	Locked gate at end of Lake Heron access road. 4WD access is restricted past the gate and is by permit only. Contact DOC (Ruakapuka Area Office, Geraldine) for permission and gate key. Alternate access via Castle Ridge (Harmers 03 303 9087) and Lake Heron Stations (Todhunters 03 303 9014).
--	--

Owner

Is the owner known?	Yes
First Name	-
Last Name	Ruakapuka Area Office
Address	North Terrace, PO Box 33, Geraldine,
Phone	03 693 1010

Site Contact

Is the site contact person known?	Same as owner
-----------------------------------	---------------

Access Contact

Is the access contact person known?	Same as site contact
-------------------------------------	----------------------

Verification

Have all owner & contact fields above been updated or verified to be correct?	Yes
Have any owner or contact details been updated or verified?	Yes - All details have been fully updated or verified.
Updated by:	Paul Denys

Occupations

AA8H, 2018-01-25, 11:02, OU21, 0220413932, 5700, Trimble

Geodetic Code	AA8H
Station Name	G Lake Hill

Deployment

Observer(s)	Paul Denys, Jean-Louis Morrison
GNSS Receiver	OU21, 0220413932, 5700, Trimble
GNSS Antenna	OU21, 60052134, Zephyr Geodetic, Trimble
Antenna radome used?	NONE

Plumbing

Antenna Mount or Monument	Nelson Beacon
Set-up using a rotating optical plummet?	Yes

Bubble Centred?	Yes
Cross-hair on target?	No
Magnetic bearing from mark to cross-hair.	180
Distance in mm from mark to cross-hair.	28
Explain why cross-hair is not on target.	Beacon is eccentric
Plummet Check OK?	Yes

Antenna Alignment

Magnetic Declination (+ve east / -ve west)	24
Compass should read (magnetic bearing)	336
Aligned to True North	Yes

Antenna Height

Height Measured To	Bottom of Antenna (Vertical)
1st Height	1.313
Check Height Units	Decimal Feet
Check Height	4.309
Check Height Converted to Metres	1.3134

Start Time

Occupation Start Date (local)	2018-01-25
Occupation Start Time (local)	11:02
Occupation Start UTC	Wed, 24 Jan 2018 22:02:00 GMT
Year and DoY (UTC)	2018-024

Battery Details

Number of batteries deployed	One
ID of Battery 1	17E
Capacity of Battery 1 (Ahr)	24 Amp Hour
Voltage of Battery 1	13

This site is being deployed with multiple batteries. Please comment with all relevant details of the batteries deployed.

Retrieval

Observer(s)	Paul Denys, Jean-Louis Morrison
Was receiver logging on arrival?	Yes

Battery Details

No batteries were recorded at deployment.

More than two batteries were recorded as deployed at this occupation. Comment below as necessary.

ID of Battery 1	17E
Voltage of Battery 1 at Deployment	13
Voltage of Battery 1 at Retrieval	13.3

End Time

Occupation End Date (local)	2018-01-29
Occupation End Time (local)	09:45
Occupation End UTC	Sun, 28 Jan 2018 20:45:00 GMT

Antenna Alignment

Magnetic Declination (+ve east / -ve west)	24
Compass should read (magnetic bearing)	336
Aligned to True North	Yes

Antenna Height

Height Measured To	Bottom of Antenna (Vertical)
1st Height	1.313
Check Height Units	Decimal Inches
Check Height	51.7
Check Height Converted to Metres	1.3132
Average Height recorded at Deployment	1.313

Plumbing

Bubble Centred?	Yes
Cross-hair on target?	No
Magnetic bearing from mark to cross-hair.	183
Distance in mm from mark to cross-hair	28
Explain why cross-hair is not on target.	Beacon eccentric
Plummet Check OK?	Yes

HP Laptop (Paul Denys), 39320250.t01, 39320280.t01

Current Station	AA8H - G Lake Hill
Station Occupation times (UTC)	Start: 22:02 DoY 024 UTC End: 20:45 DoY 028 UTC
ID of Download Device	HP Laptop (Paul Denys)
Download Date	2018-01-29
Record the first and last file name of the block of files downloaded.	
Earliest File Name Downloaded	39320250.t01
Latest File Name Downloaded	39320280.t01
Total number of files downloaded.	4

Summary of Downloaded Files

Earliest Filenames Downloaded	39320250.t01
Latest Filenames Downloaded	39320280.t01
Numbers of files Downloaded	4

For each block of downloaded files there will be an earliest and latest file downloaded, plus the total number of files downloaded. Typically there will only be one download block per occupation. Occasionally a receiver will be downloaded several times during an occupation (eg during an extended semi-cGPS occupation). In this instance there will be multiple earliest, latest, and number of files downloaded. These are summarised in the comma delimited lists above.