



# Drilling & Abseil Services Ltd

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## Our achievements

Works realised under the name "Drilling & Abseil Services" by Alexis Poilvert, Director, Team leader, driller-abseiler since 1995, since our 1<sup>st</sup> drilling machine purchase in April 2005, and our abseilers: Wayo, Rory, Stephen, Nick, Justin, Steve, Arnaud, Groomer, Alain, Benoit, Gena, Laurent, Mark, Simon, Reese, Gavin, Mal, Aja, Denis, Greg, Tony, Dave, Roman, Nicos, Thomas, Mathieu, Jess, Ivor... & Flo at the office. Thanks to them! The Company has been incorporated on the 01/03/2007.

**Fish River Bridge Reinforcement October 2005:** We sub-contracted for **Works Infrastructure** the drilling and abseiling services on the urgent repair of one side of Fish River Bridge (Haast Pass): This was the perfect work for our setting, as holes had to be drilled **under the bridge** itself: **160 meters diam 90mm** were drilled in 10 days: 16 RB32 **anchors 9m long** & 3 at 5m were installed.

**Manapouri Power Station November 2005:** 2 weeks for Abseil Access **inspecting, coring and scaling in confined space** which required **installation of a mesh** in one of the 160m vertical **penstock**.

**Gentle Annie rock-bolting February 2006:** Kawarau gorges, we drilled 129m in 90mm diam for **Fulton-Hogan** in 9 days (13 horizontal holes at 9m deep + 3 at 4m). The access was easier.

### Nevis Bluff

#### **Nevis Bluff 2 scale bolting and test-hole**

**March 2006** back with **Works** on the Nevis<sup>1</sup> for 4 weeks:

- **nailing of a scale** about 10X10m **80 meters above the road**
- drilling, installing, grouting and testing of **11 horizontal RB32 anchors** ranking from 5,2m to 7m, holes 90mm in diam.
- **mesh installation** under the scale.

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<sup>1</sup> In 2005, Alexis Poilvert was responsible of the Drilling of the Nevis Bluff west tower column for Geovert Ltd:60 anchors 9m deep; other reference work: Windy point near Makarora, Arapuni and Marae Tai rock bolting

- delicate drilling of a **test hole** 7m deep in the very loose area removed later in 2006 that involved the use of a **helicopter** to lift the rig to and off drilling positions: all the mountain was smoking!

On that very specialised work, principal **Works** provided road management, power and consumables. **3 Drilling & Abseil Services** abseilers accomplished all the work involved at height, the safety on cliff and job planning. We provided all the gear related to abseiling on a 150m high cliff: 500m ropes, abseiling gear, cordless drill, PPE, regular reports, drilling logs, pictures... **safety work procedure sheets** on site.

**Commonage Close slope drilling April 2006:** a few holes **11m deep** on that job.

**Alpine Village slope bolting April 2006** (in two days that included rigging & de-rigging!) 2 holes at 9m deep drilled all in 90mm wide. Reason we got that job that time is because of the **short length of our drill slide** (a house having been built 3,5m from the cliff) **Bradford & Shearer** supervision.

### Contact Energy

#### **Clyde and Roxburgh Power Station penstock inspections Since May 2006:**

we've inspected all penstocks at both plants: giving access and installing recovery procedures for a coating specialist. We're also in charge of Contact Energy maintenance work at height: window washing, painting, spider spraying.

#### **Queenstown Main Street Project September**

**2006:** subcontracting Fulton-Hogan for **18X9m deep vertical micro piles** at Queenstown main street parking. We used a **102,4mm (4 inch) bit** through a wall standing over a light platform only our light drilling unit could be used for that work. 162 meters drilled in two weeks.

**Nevis Bluff 3: Hand drilling, blasting, scaling, re-bolting & testing: Sept, Oct, Nov, Dec 2006:** subcontracting **rope expertise and workforce at height to Works on massive rock removal operation:**

- Building of a **60m high ladder to permit access to engineers & consultants, and a 20m wide rockfall barrier** to protect workers.
- **Hand-drilling 1.5 to 4m blasting-holes/About 40 holes per blast,** charging holes with explosives for the 16 blasts realised:
- **Scaling** slope after each blast, **helicopter sluicing.**
- **Re-drilling, installation & testing of the 12 bolts from March 2006 that had been disrupted by the blasts above.** Drill brought to face by helicopter.
- **Disestablishment of face.**

An Opus operation **just realised in time** for the summer holidays!

### Exporting in New Caledonia

**Drilling in Noumea: Feb, March, April 2007: Drilling & Installation of 72 bolts in 6m deep, 90mm wide holes** for a

500m<sup>2</sup> short-crete mesh behind a building on site Talus Ludovic, Rue Jules Garnier, Nouméa New Calédonia subcontracting for **Fondacal**. Work also included **vegetation removal, rock scaling and being in charge of** the local Fondacal **abseiling team** during all work duration.

### Locally

**Nevis 4**, May 2008: 6 investigation holes 10m deep for Opus Helicopter, big moves with rig between holes...

**SH6 near Makarora**, June 2008: **2 Rock bolting operations** between Hawea & Makarora 9 **anchors hand drilled** grouted tested and tensioned for Works above SH6

**Wanaka**, July 2008: **slope stabilisation** at Wanaka West Station Road: installation and grouting of **13 RB20 anchors 3m deep**, hand drilled in schist rock.

**LDS Church**, August 2008: **Scaling, vegetation removal** on cliff after landslide 40 Fenton Crescent St Clair Dunedin

**Dunedin**, October 2008: **Scaling, Rock bolting** 95 Easter Crescent, South Dunedin for T&T Dunedin 13 anchors in RB32

**Queenstown**, November 2008: **Rock bolting** Hirequip gorge road Queenstown for Hadley consultants. 6X4m+2X2m RB20 in 50mm hand-drilled holes. Grouting and post-tensioning.

**Nevis Bluff 5**, Feb to April 2009: **Rock fall barrier** and **120m access ladder** installation for Fulton Hogan with double life line, Hand-drilling, blasting and scaling 6 weeks, **rock bolting & Inspections** for Opus & NZTA.

**Frances Hodgkins retirement centre**, May June 2009: 160 sq meters **1st Maccaferri mesh** installation and **rock bolts**, St Clair Dunedin T&T Dunedin

**SH6 near Makarora**, June 2009: **Wharf Face Mesh reinstatement** near Makarora, for Downer Edi Works, NZTA

**Frances Hodgkins retirement centre**: November December 2009: 250sq meter **2nd Maccaferri mesh** installation and 6 RB25 rock bolts 4m deep, St Clair Dunedin T&T Dunedin/August 2010: 13 anchors and **third mesh** installed on the north wall/January 2011 extensive scaling at the entry of the retirement centre for LDS Church. Scaling in June 2012.

**Nevis Bluff 6**, Feb to April 2010: Downstream bench stabilisation: **210m of RB32 Bolts** drilled installed grouted for Fulton Hogan, Opus, NZTA +200 hours **abseiling assistance** to gain access to **2000 ridge rock removal**

**Nevis Bluff 7**, March April May 2011: 2 rock features removed, 8 anchors installed grouted tested and cranked, one overhanging mesh installed, all monitoring pins checked for Downer Edi Works, Opus, NZTA

**Narrows**: 5 X6&8m **double corrosion anchors** in 100mm holes and 8 smaller anchors drilled grouted tested and cranked July 2010+

weekend intervention after massive landslide on the **Queenstown Glenorchy road** May 2010 for QLDC.

**Otago highways scaling:** May June 2011 scaling at Lindis Pass, Cromwell Gorge and Makarora above SH6 for Works, Opus, NZTA

**Wanaka lake front foundations drilling:** 65 holes at 1.5m drilled using our top hammer and grout as flushing medium in gravel!

**Nevis Bluff 8:** April 2012 Nevis Bluff scaling and inspections for Fulton-Hogan & Opus

### Drilling in Christchurch

**Drilling in Christchurch April to July 2012:** 6m anchors installation at McCormick bay reservoirs and 25 anchors retaining mesh at Charteris Bay

**Treble Cone:** Scaling on the access road July 2011, May & July 2012, Dec 2012, January 2013

**Wanaka West Station road:** 18m hand-drilled vertically on the ground in solid hard rock in one day, on a Saturday! Can't say no to a local builder on a Friday! (6 anchors at 3m deep).

**Danseys pass/Queenstown bungy 2012:** works: beams replacement for Southroads Ltd, and different abseiling services for Bungy Hackett retrieval beam installation and video system ducts installation on historic bridge

**Queenstown, Nov 2012:** anchoring a slope front of a private property with hand drilled soil nails

**Dunedin Dec 2012:** 2 slope stabilisation on private properties: 1 retaining wall re-mediation with 4 X6m RB25 installation in very narrow space, props in place established garden, + 4 X6m sol anchors under a dwelling at Port Chalmers for Tonkin & Taylor

**Oamaru 2013:** Complete water blasting of a bridge for South Roads Ltd. We had to conceive an ingenious system mixing cables and ropes to get access under the bridge.

**2013 to 2016:** regular inspections and scaling at Frances Hodgkins retirement centre South Dunedin and Treble Cone access road on request. Hand drilled rock bolts installation above Treble cone access road.

**Dunedin March 2014:** Technical tree-pruning on 100 years cedar trees overhanging properties Alton Street South Dunedin.

**Nevis Bluff 9 May 2014:** Drilling & Installation of 9X9m deep anchors for Fulton-Hogan on SH6.

**Wanaka Sept 2014:** Climbing sites stability assessment for Department of Conservation.

**Dunedin Oct 2014:** Slope scaling and trees falling for Terra Firma downtown Dunedin.

**Our biggest work  
and best  
reference in 2015**

**\$450,000.00 work at**

**Frances Hodgkins retirement centre, South Dunedin:**

3,000 square meters of Maccaferri mesh installed in vertical slopes and overhangs

160 anchors

150 meters of neighbouring fences dismantled and rebuilt further back

On that technical job with the backup of Geosolve Dunedin, we have also been in charge of all design, sorting problems on the go which has permitted us to offer our client Ryman Healthcare their best cost effective work so far.

**2016**

Fulfilling our commitment to Treble Cone and Geosolve (abseil inspections and assessments)

Scaling and geotextile installation at Queenstown Hilton Site for Civil Construction Ltd

Sailing and chartering yachts between NZ and the Pacific Islands

A lot of maintenance, purchase of a hydraulic drill to reduce compressor costs for our clients to increase our drilling capacity, in a way to...

**come in strongly in 2017!**

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