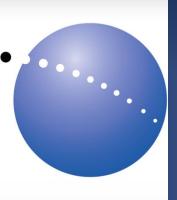


Penasquito Minesite Mexico Stereo Satellite Volumetric Mapping Jan 31 and Feb 27 2010

Gerry Mitchell, Geophysicist, President PhotoSat, March 2010 604 681 9770 gerry@photosat.ca









Stereo WorldView-2 January 31, 2010

Penasquito Mill



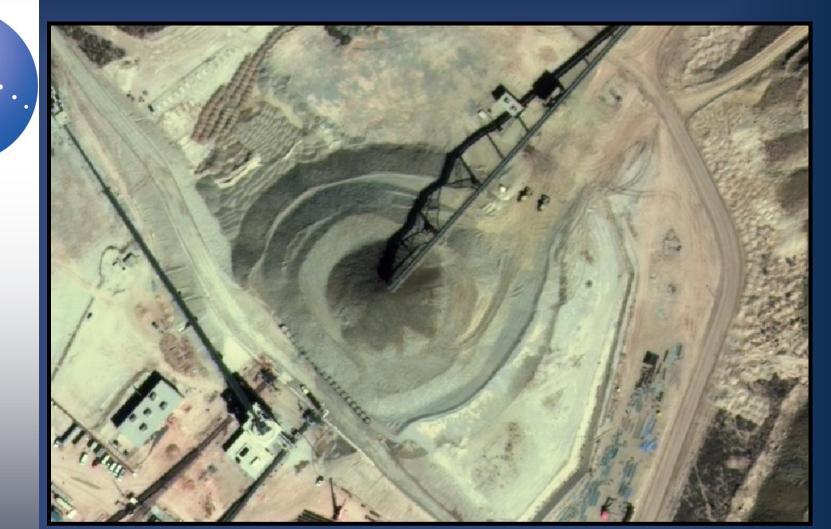
Stereo WorldView-2 February 27, 2010

Penasquito Mill



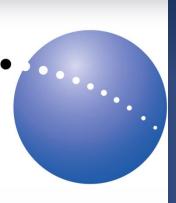
Stereo WorldView-2 February 27, 2010

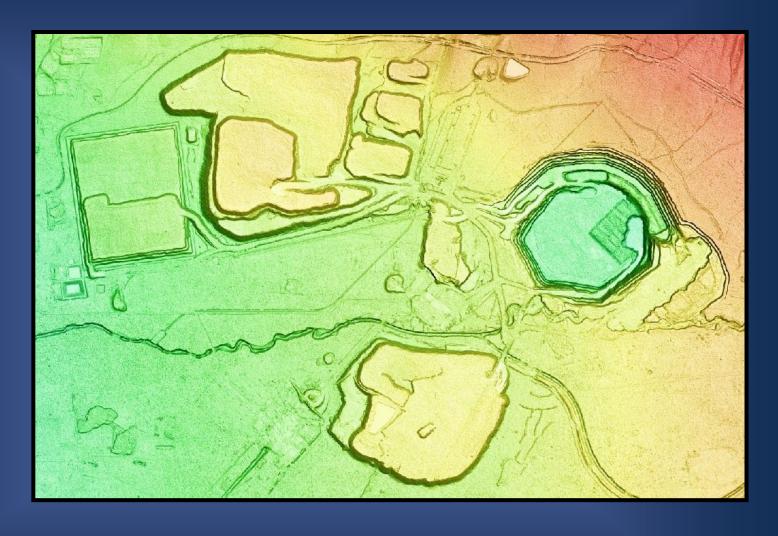
Penasquito Mill



Stereo WorldView-2 February 27, 2010

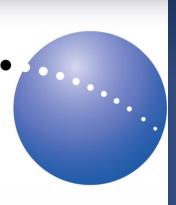


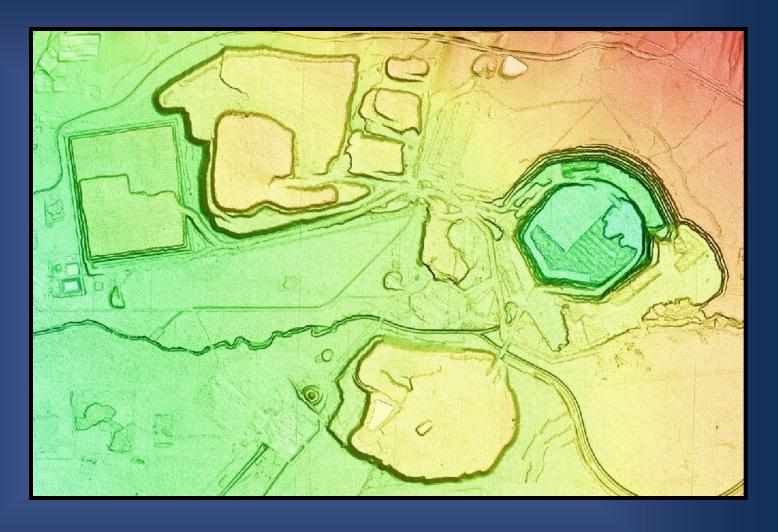




Stereo WorldView-2 elevation map January 31, 2010

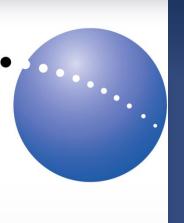


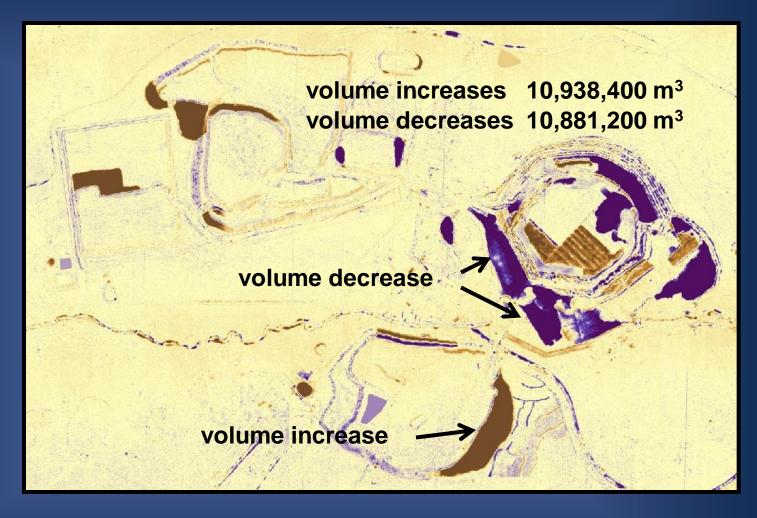




Stereo WorldView-2 elevation map February 27, 2010

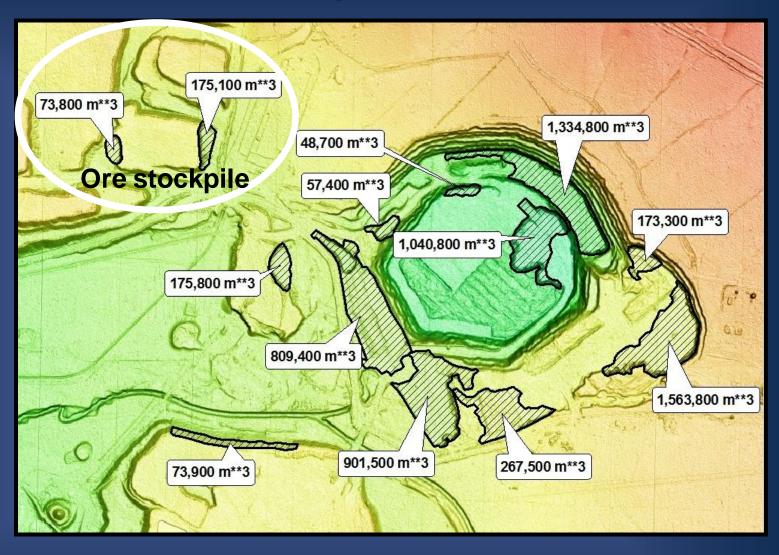






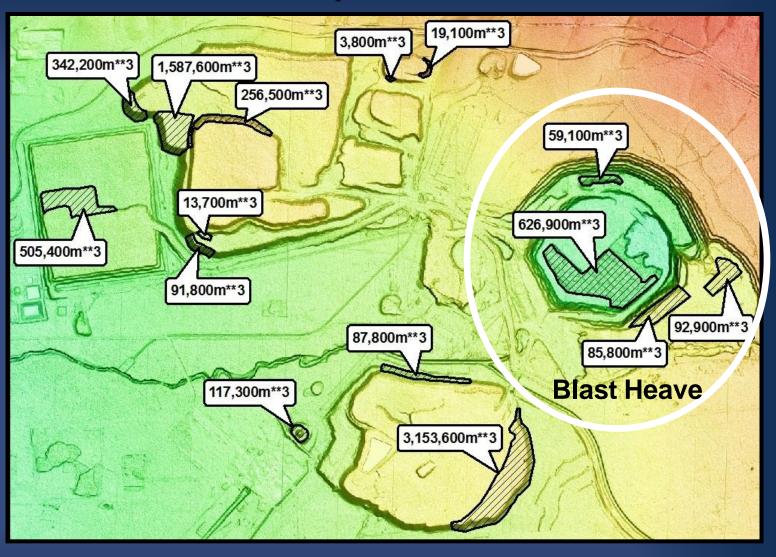
Stereo WorldView-2 elevation differences
Jan 31 to Feb 27, 2010





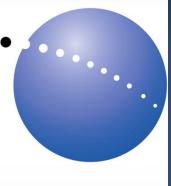
Volume decreases Jan 31 to Feb 27, 2010

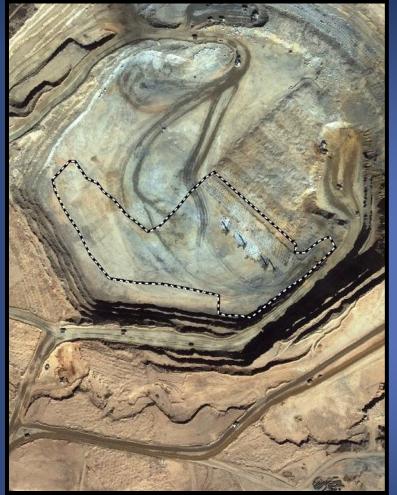




Volume increases Jan 31 to Feb 27, 2010

Penasquito blast heave





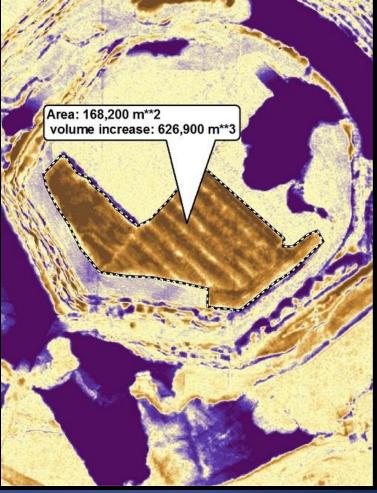


WorldView-2 January 31, 2010

WorldView-2 February 27, 2010

Penasquito blast heave

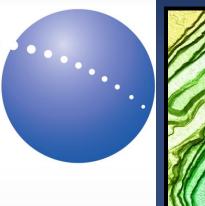


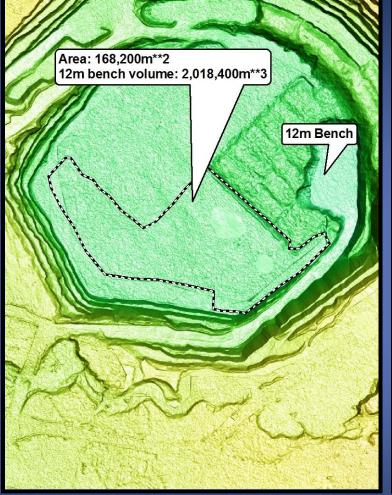


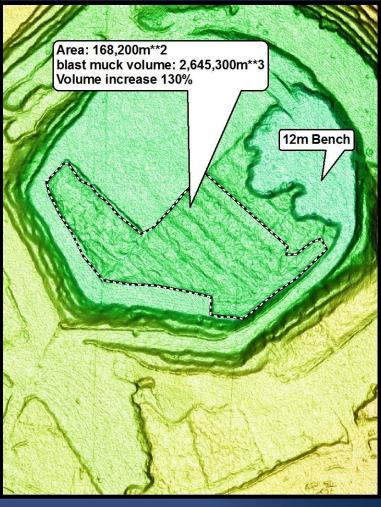
WorldView-2 February 27, 2010

Elevation differences Jan 31 to Feb 27

Penasquito blast heave

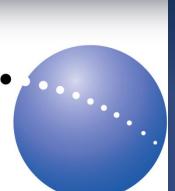






Elevations January 31, 2010

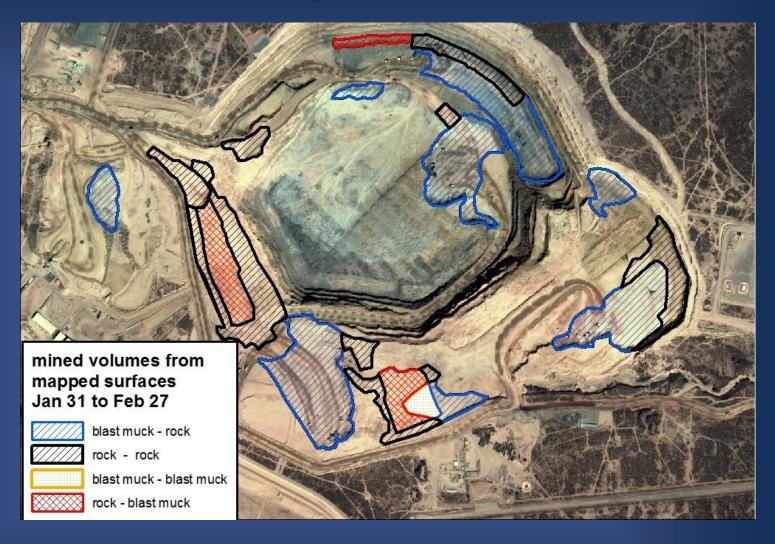
Elevations February 27, 2010



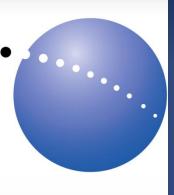
Mapped surfaces and volume factors

<u>Jan 31</u>	<u>Feb27</u> <u>vo</u>	olume factor
Blast muck	Rock	100%
Rock	Rock	130%
Blast muck	Blast muck	130%
Rock	Blast muck	190%

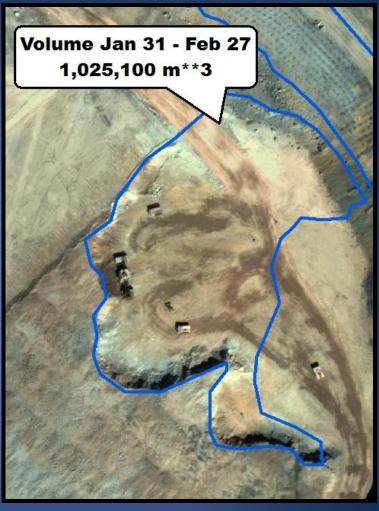




Mapped surfaces Jan 31 to Feb 27







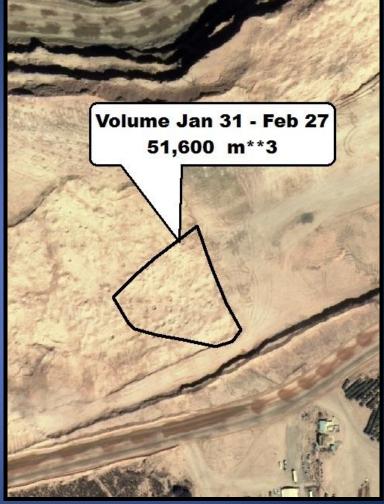
Jan 31 Feb 27
Blast muck to rock – volume factor 100%





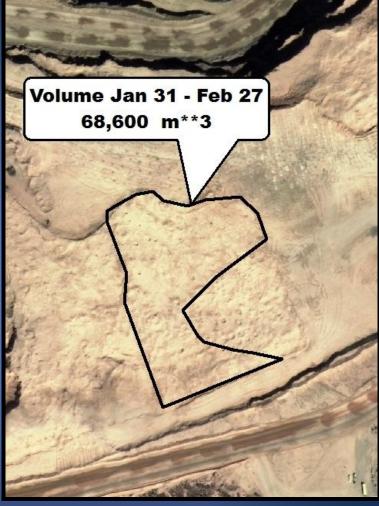
Jan 31 Feb 27 Rock to rock – volume factor 130%





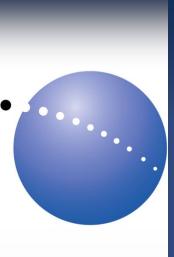
Jan 31 Feb 27
Blast muck to blast muck – volume factor 130%

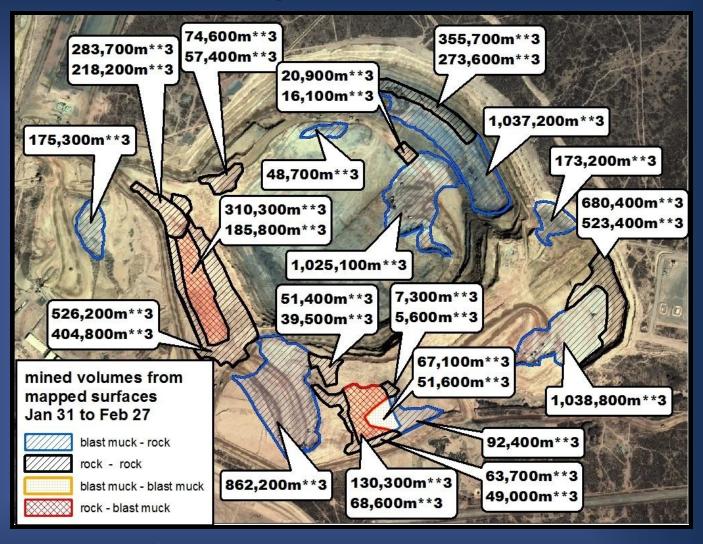




Jan 31 Feb 27

Rock to blast muck – volume factor 190%





6,988,500 m³ of blast muck was removed from the pit from Jan 31 to Feb 27

The top numbers in the labels are the calculated blast muck volumes

Penasquito Ore Stockpiles





Jan 31 Feb 27
248,900 m³ was removed from the ore stockpile from Jan 31 to Feb 27

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Penasquito Leach Pad





Jan 31 Feb 27 505,400 m³ was added to the leach pad between Jan 31 and Feb 27

www.photosat.ca



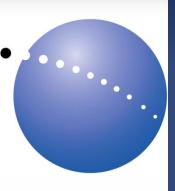


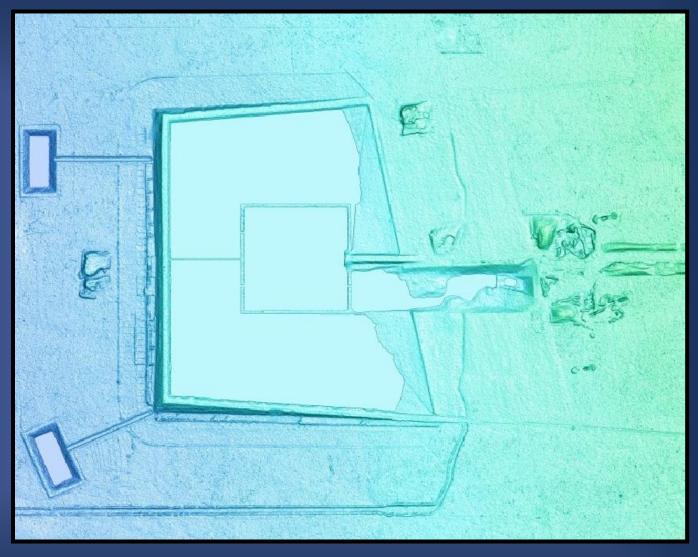
Stereo WorldView-2 January 31, 2010





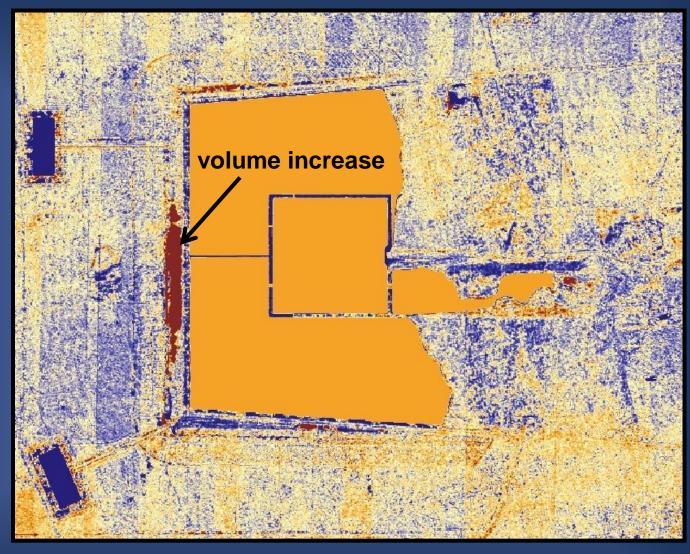
Stereo WorldView-2 February 27, 2010



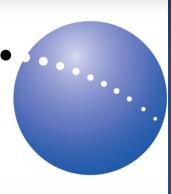


WorldView-2 elevations January 31, 2010





WorldView-2 elevation differences Jan 31 to Feb 27, 2010

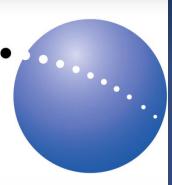


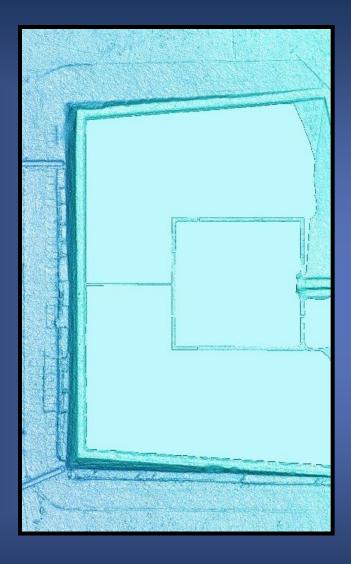


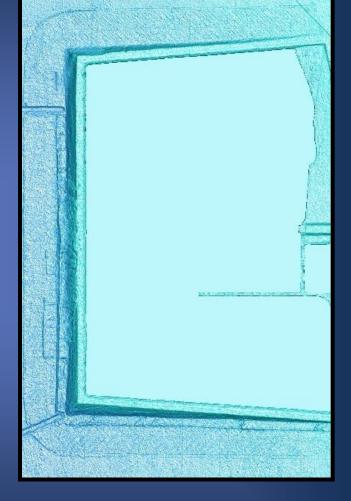




WorldView-2 Feb 27

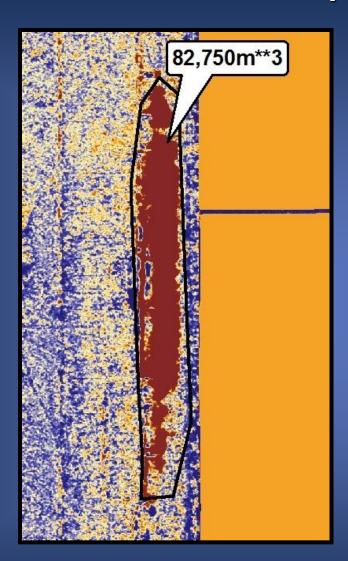






Elevations Jan31

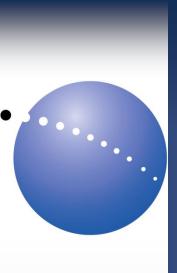
Elevations Feb 27







WorldView-2 Feb 27



Some advantages of stereo satellite mine site elevation mapping

Independent estimate of mine site volumes

Uniform satellite camera look directions over the entire mine site enable consistent, highly accurate mapping.

Stereo satellite data may be acquired anywhere in the world.

No waiting for government surveying permits as no permits are required.

No aircraft mobilization expense nor standby charges.