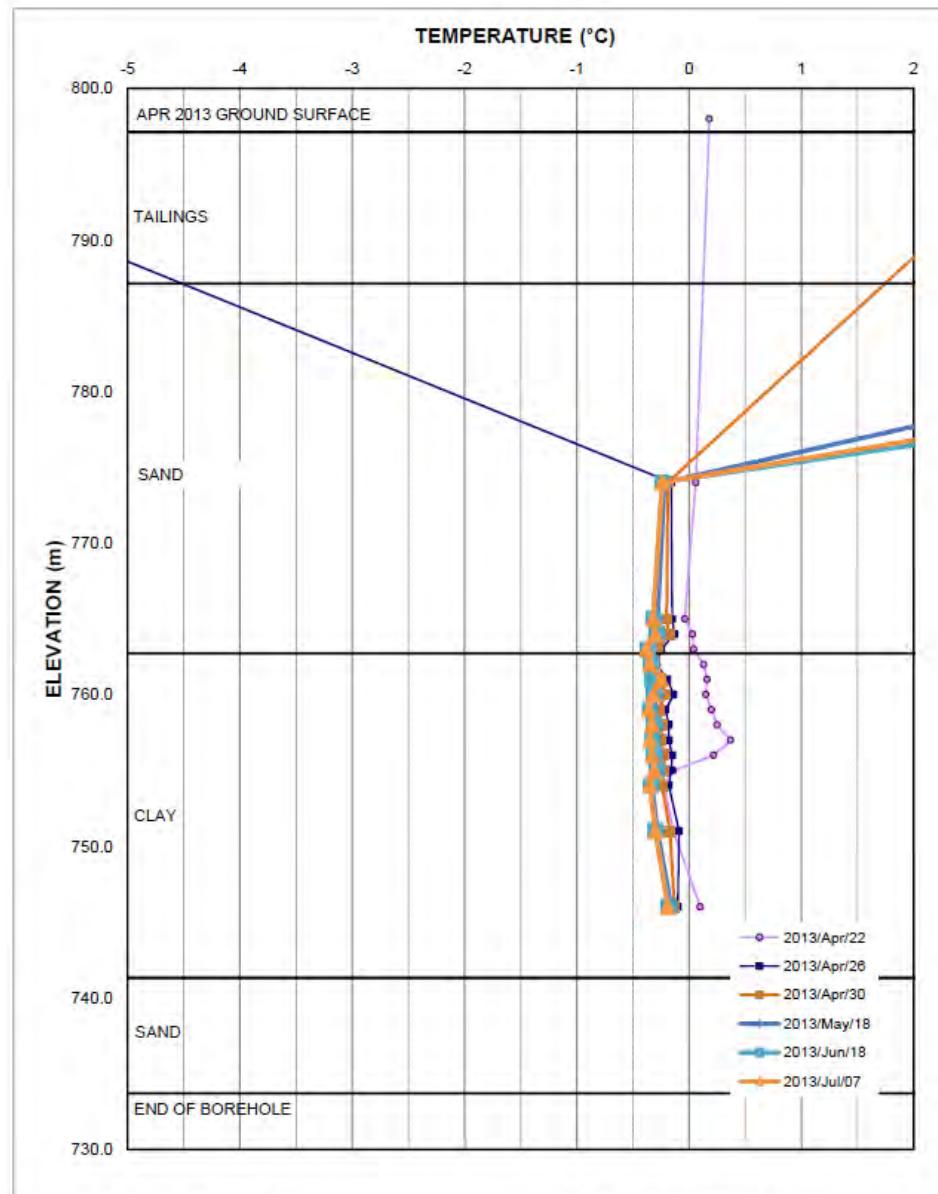
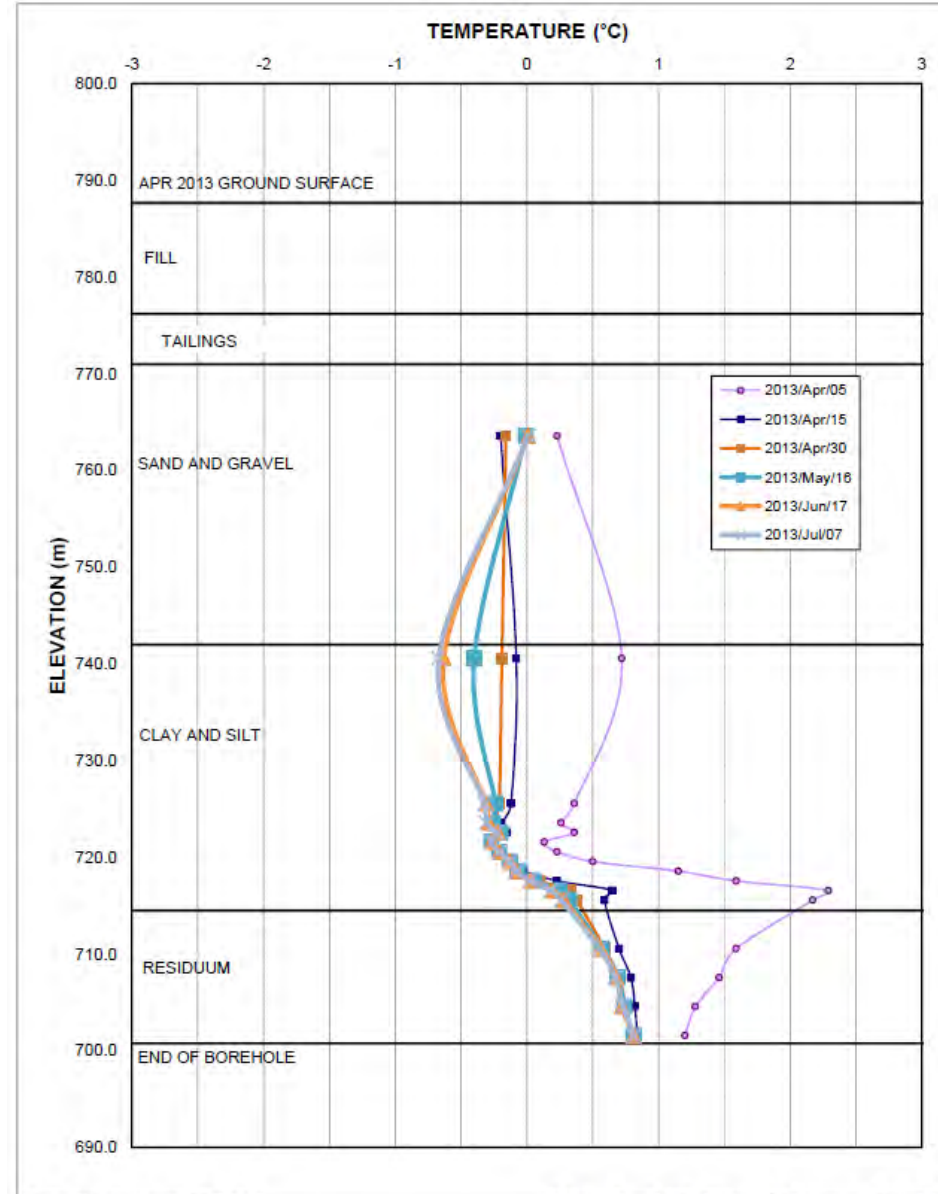


Appendix B: Monitoring Instrumentation Data



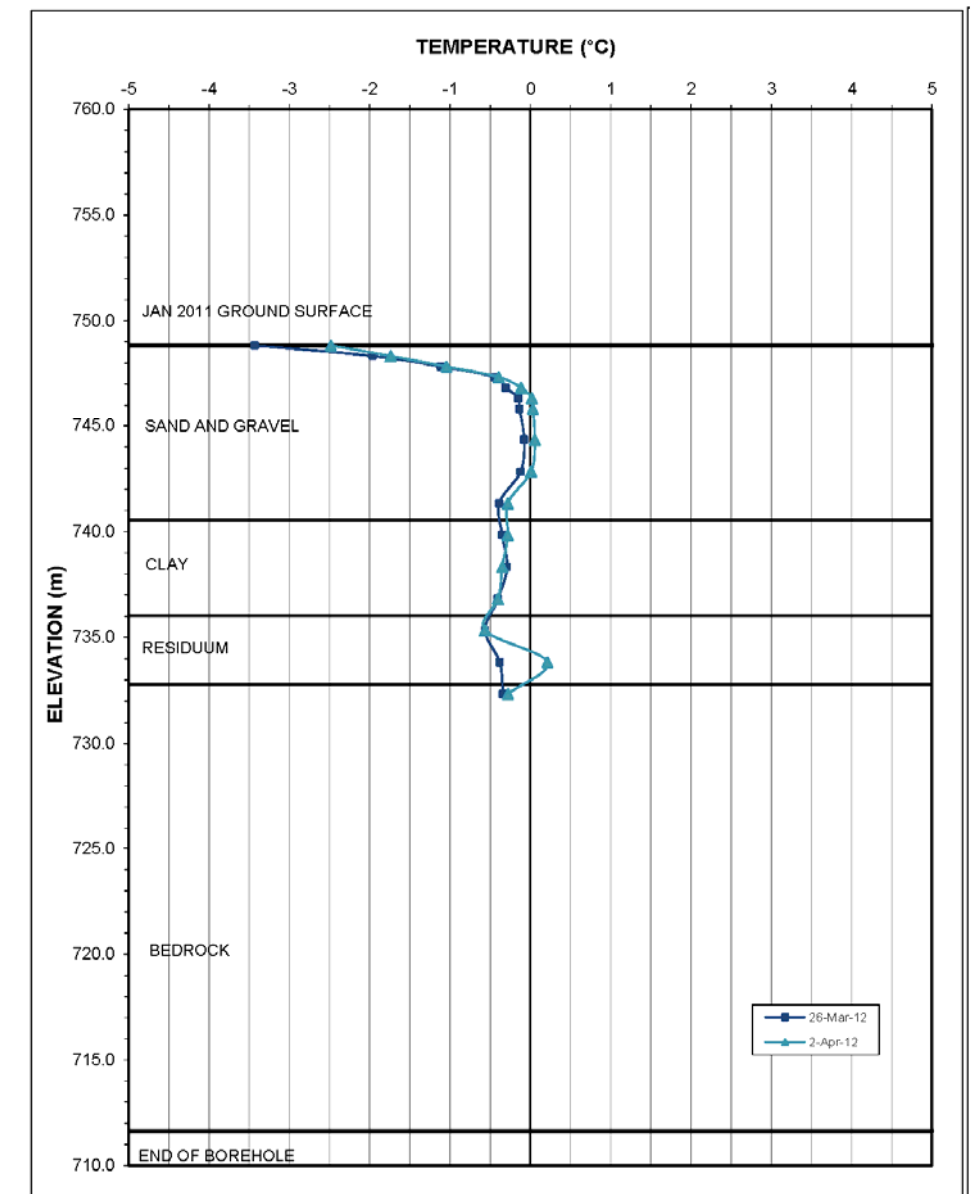
Installed: April 17, 2013

**Dry Stack Tailings Storage Facility
Ground Temperature Profile - DST-10**

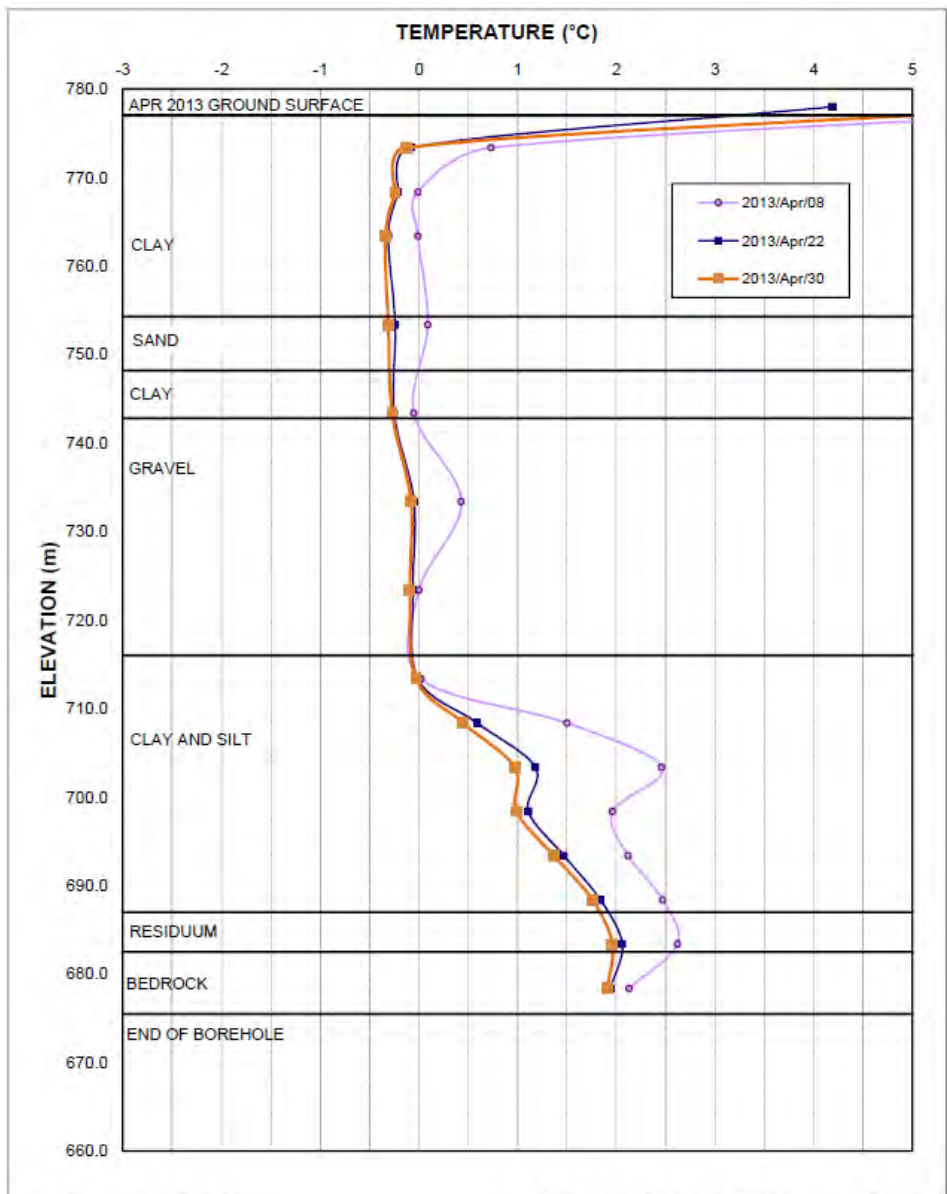


Installed: April 5, 2013

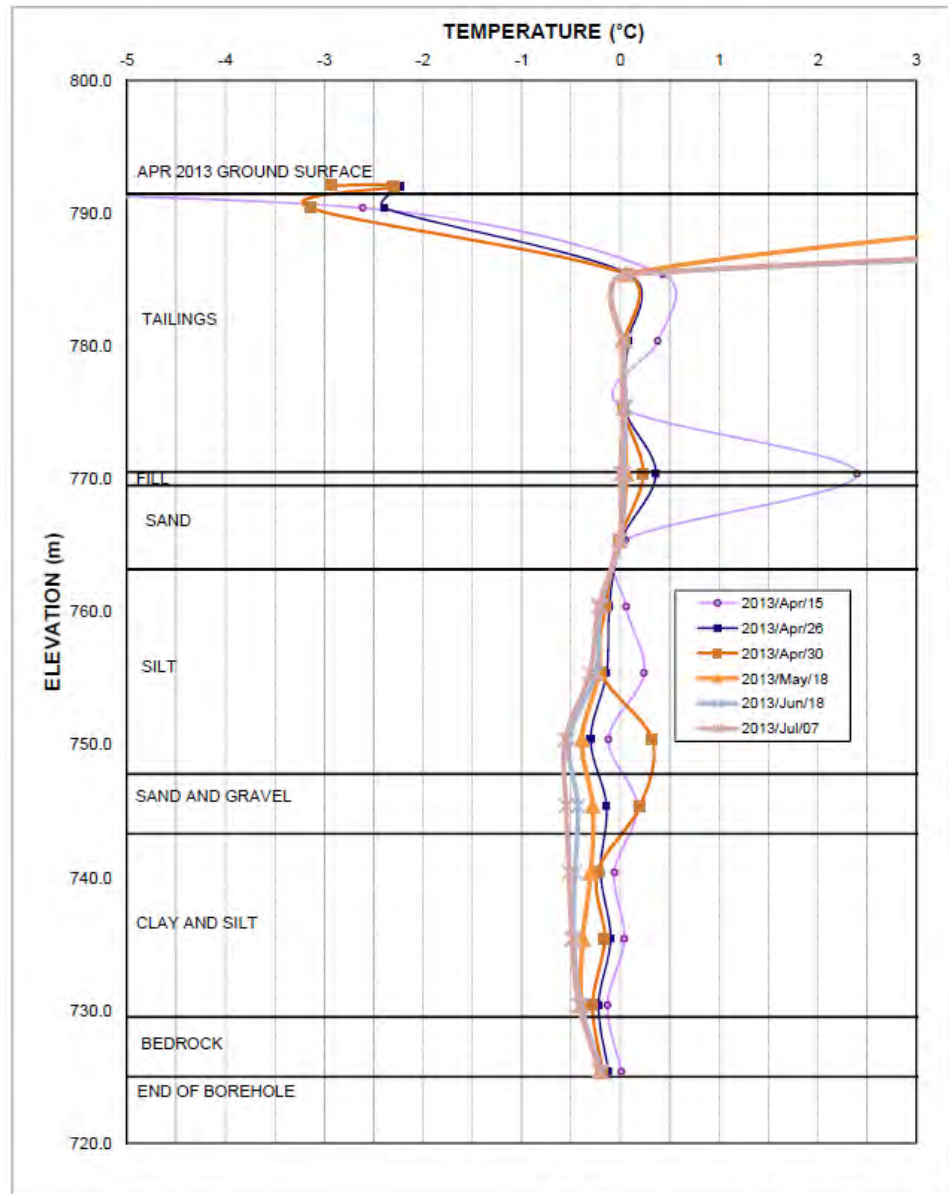
**Dry Stack Tailings Storage Facility
Ground Temperature Profile - DST-11**



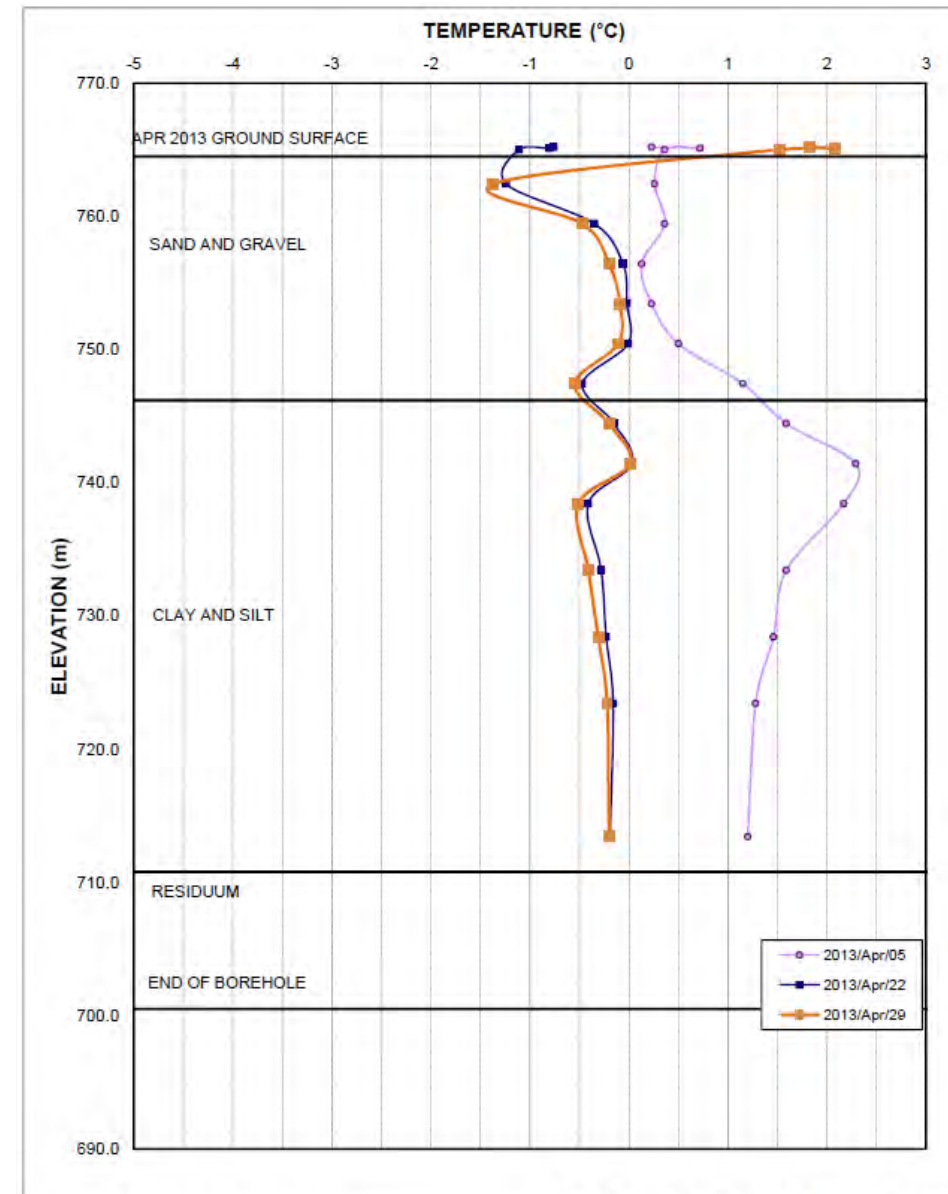
**Dry Stack Tailings Storage Facility
Ground Temperature Profile - DST-12**



Installed: April 2, 2013
**Dry Stack Tailings Storage Facility
 Ground Temperature Profile - DST-13**



Installed: April 12, 2013
**Dry Stack Tailings Storage Facility
 Ground Temperature Profile - DST-14**



Installed: March 25, 2013
**Dry Stack Tailings Storage Facility
 Ground Temperature Profile - DST-15**



Job No: 1CM002.012.005
 Filename: Minto 2013 Fall Inspection.ppt

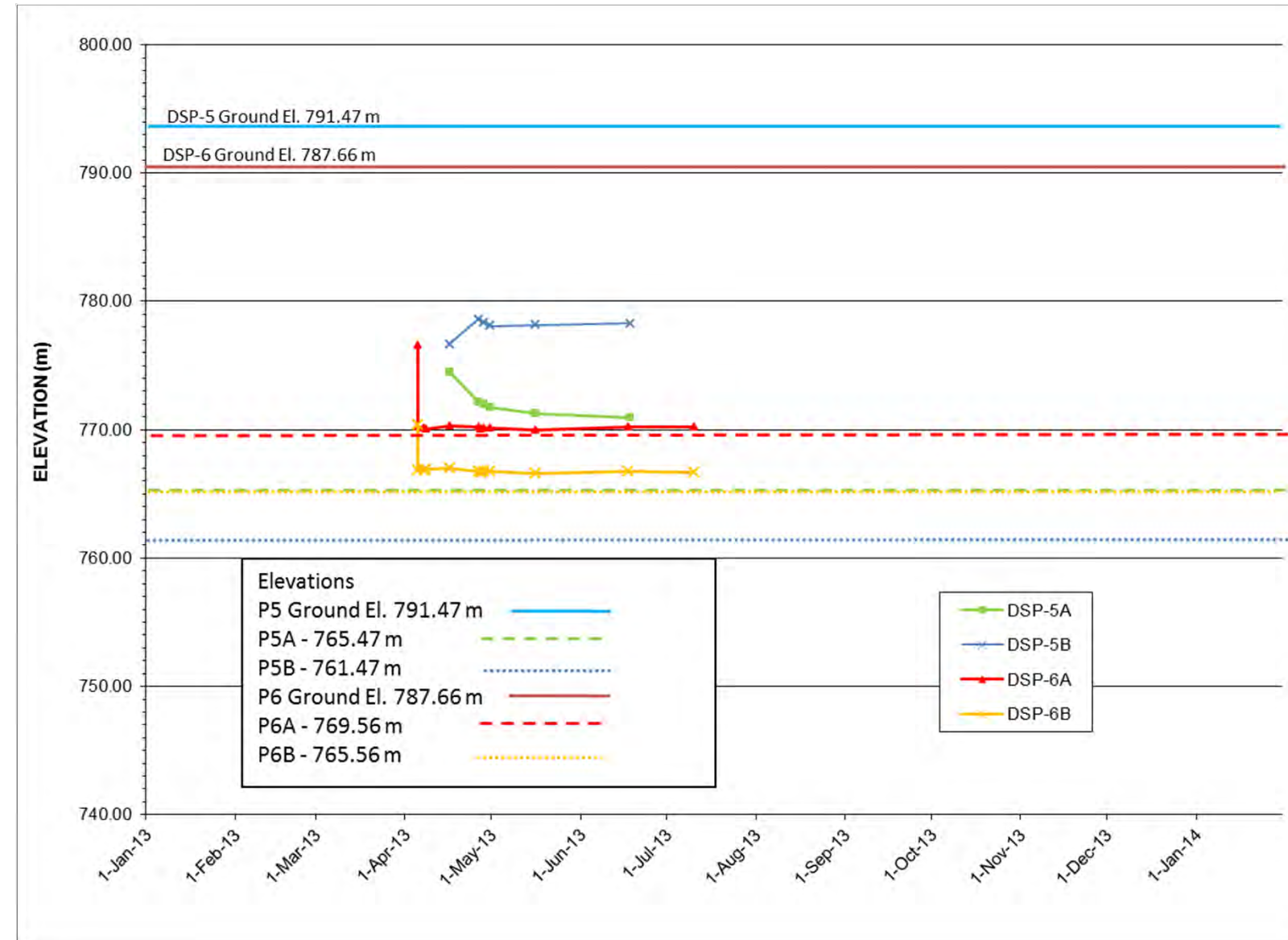


Minto Mine

2013 Geotechnical Annual Review

DSTSF Thermistors (2 of 2)

Date: October 2013	Approved: PHM	Figure: 2
-----------------------	------------------	---------------------



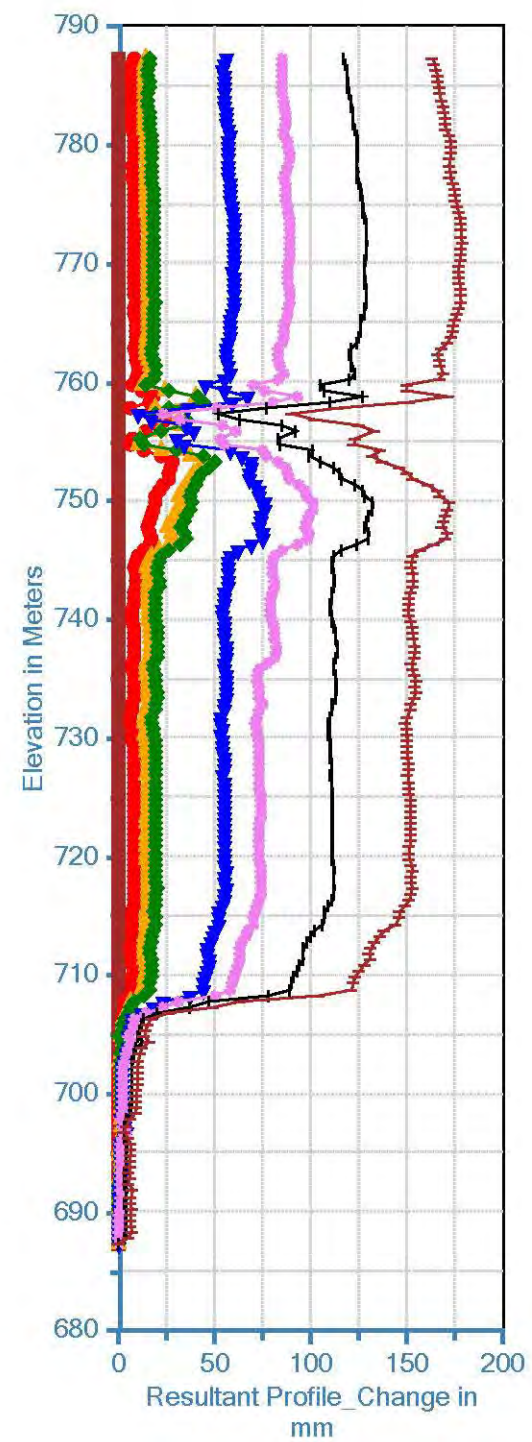
**Dry Stack Tailings Storage Facility
Instrument Water Elevation - DSP-5A, DSP-5B, DSP-6A, DSP-6B**

Notes:

- Water elevations may not be accurate as barometric pressures were estimated..
- DSP-5 sensors are installed in the same borehole as the DST-14 ground temperature cable provided in Figure 2.
- DSP-5 piezometer sensors are installed in the same borehole as the DST-11 ground temperature cable provided in Figure 1.

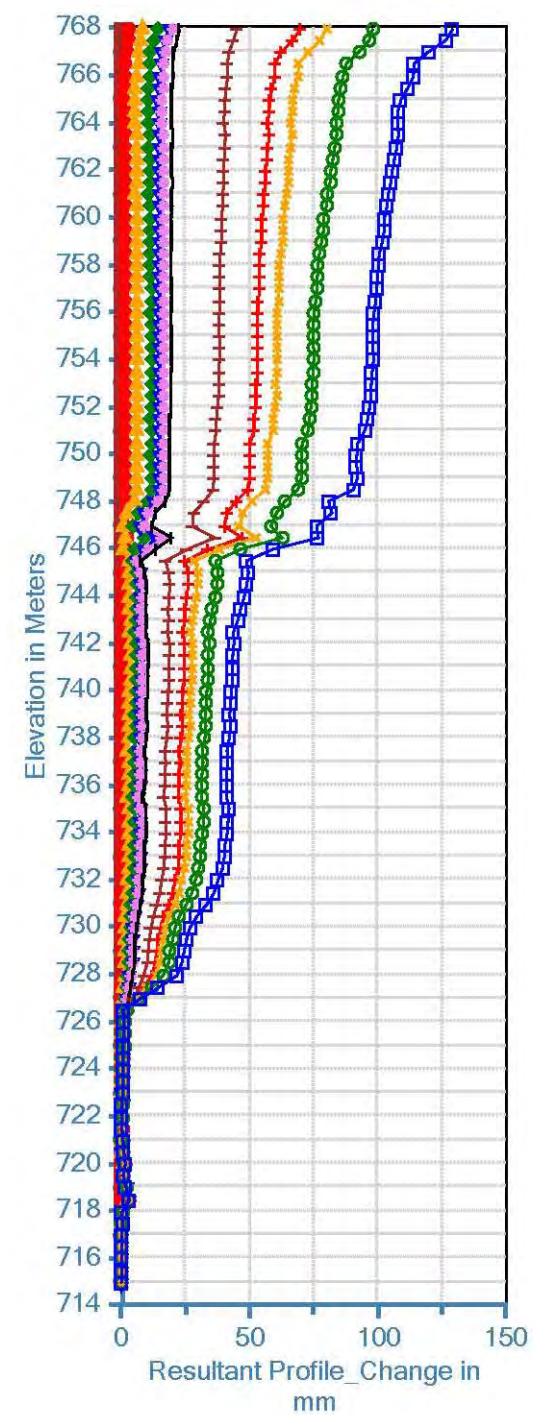
MINTO 13-DSI-13 Magnitude

4/18/2013 4/22/2013 4/25/2013
 4/27/2013 5/11/2013 5/19/2013
 6/3/2013 6/20/2013



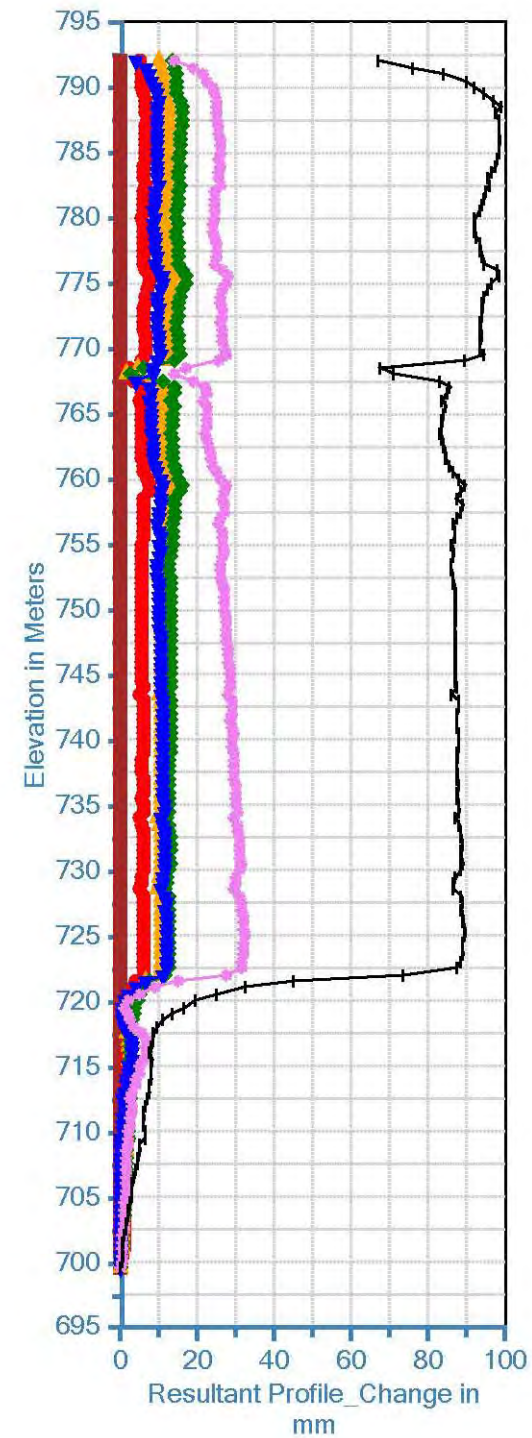
MINTO 13-DSI-14 Magnitude

4/8/2013 4/10/2013 4/16/2013
 4/23/2013 4/26/2013 4/28/2013
 4/30/2013 5/18/2013 6/3/2013
 6/11/2013 6/27/2013 8/1/2013



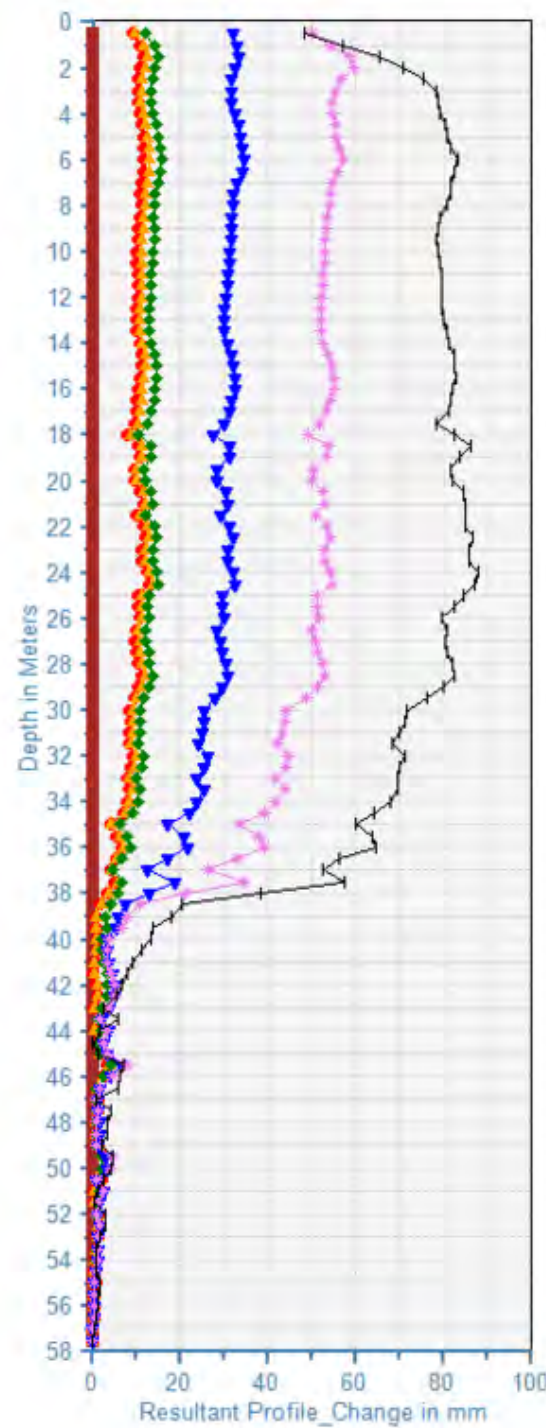
MINTO 13-DSI-16 Magnitude

4/15/2013 4/21/2013 4/25/2013
 4/27/2013 4/29/2013 5/23/2013
 7/20/2013



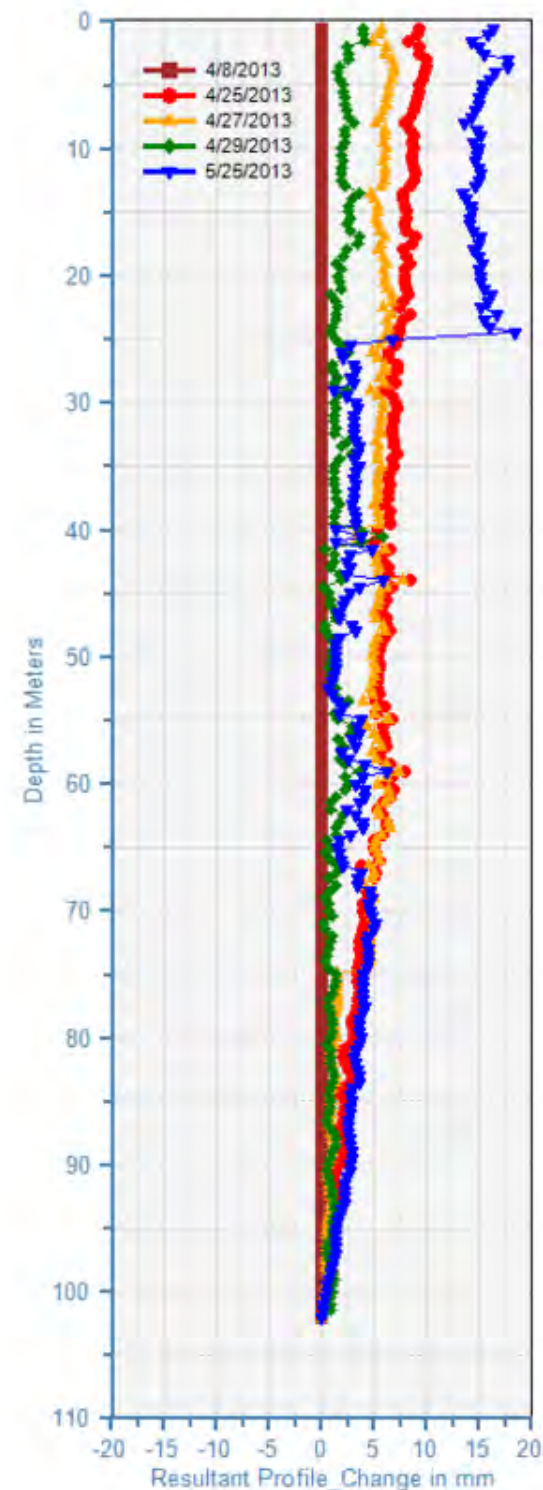
MINTO 13-DSI-17 Magnitude

4/9/2013 4/25/2013 4/27/2013 4/29/2013
 5/26/2013 6/30/2013 8/1/2013

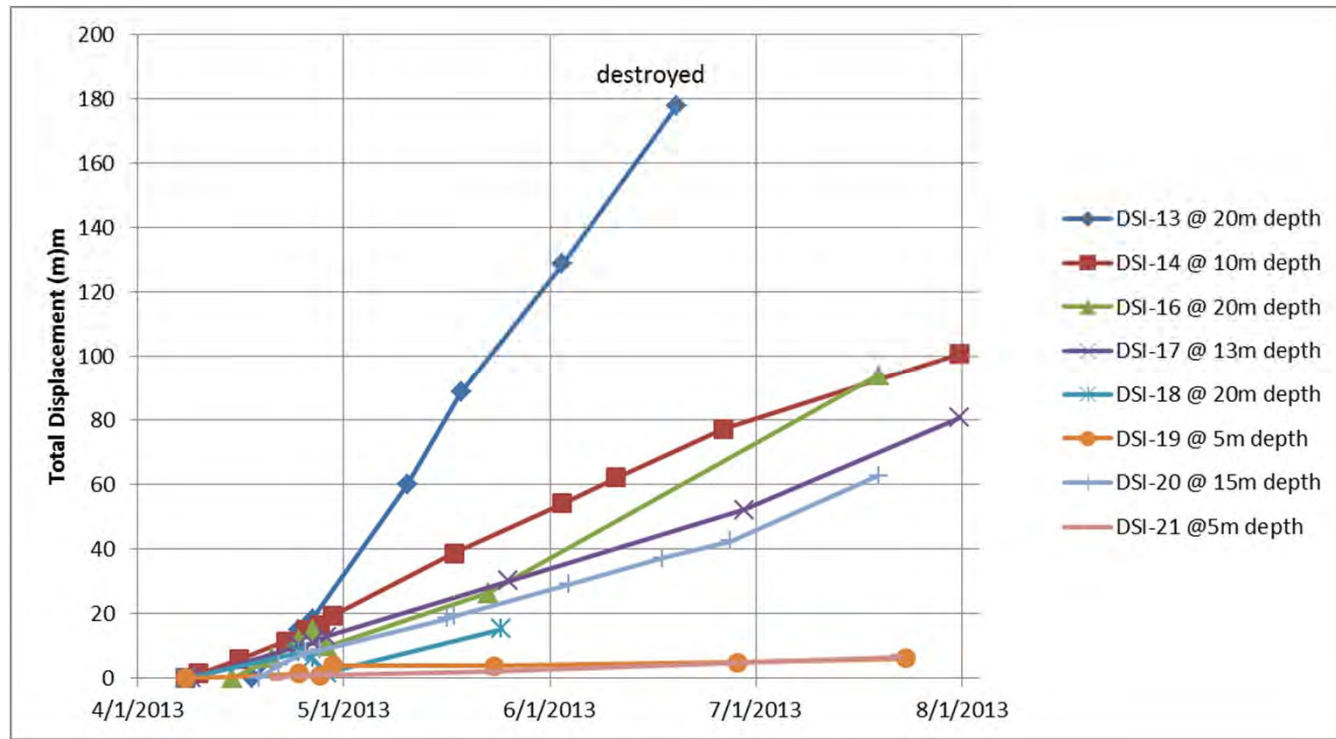


MINTO 13-DSI-18 Magnitude

4/8/2013 4/25/2013
 4/27/2013 4/29/2013
 5/25/2013



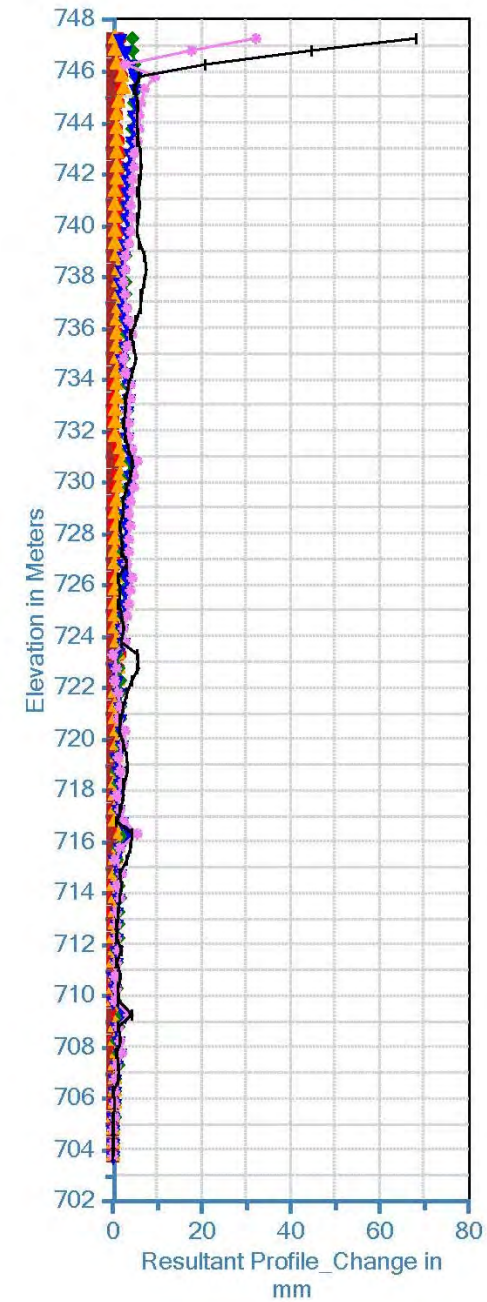
Total Displacement Summary



	Average Velocity (mm/day)
DSI-13	2.8
DSI-14	0.9
DSI-16	1.0
DSI-17	0.7
DSI-18	0.3
DSI-19	0.1
DSI-20	0.7
DSI-21	0.1

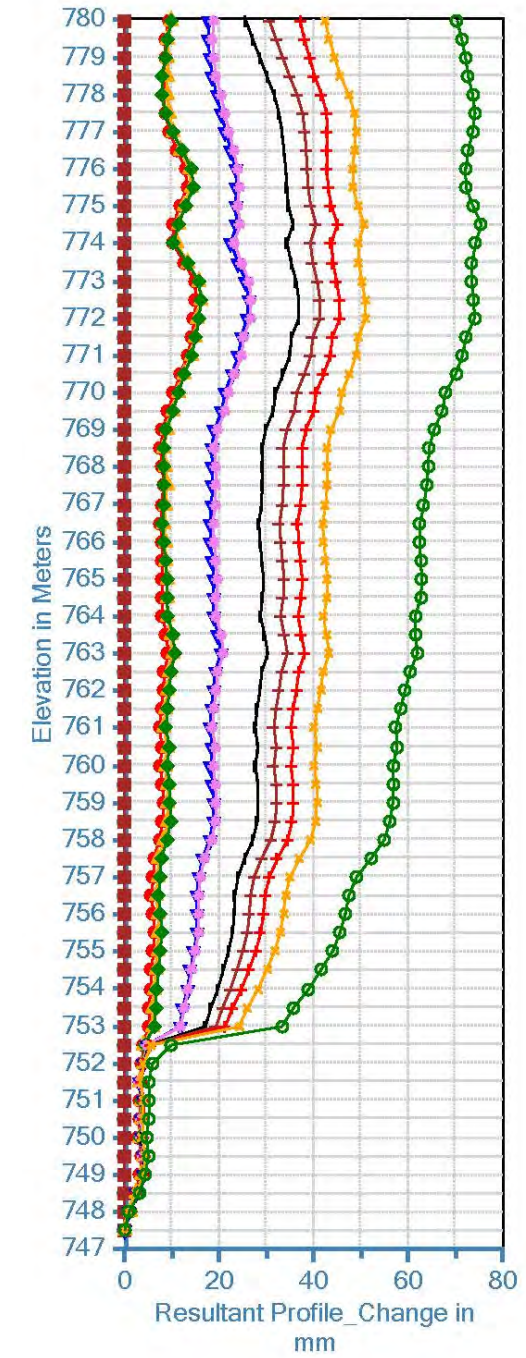
MINTO 13-DSI-19 Magnitude

■ 4/8/2013 ● 4/25/2013 ▲ 4/28/2013
◆ 4/30/2013 ▼ 5/24/2013 ◇ 6/29/2013
+ 7/24/2013



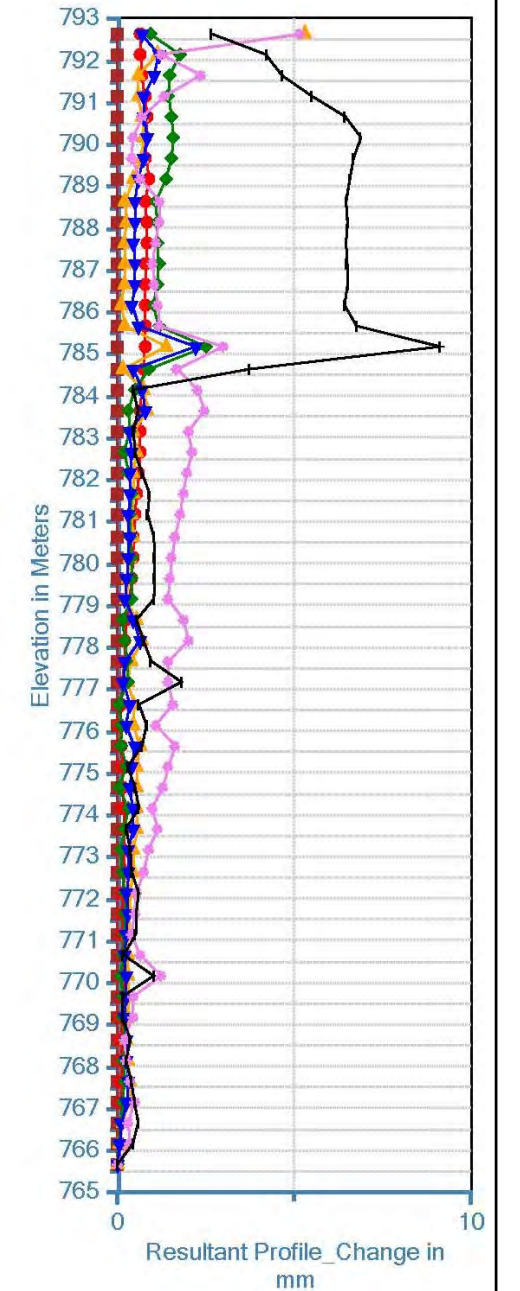
MINTO 13-DSI-20 Magnitude

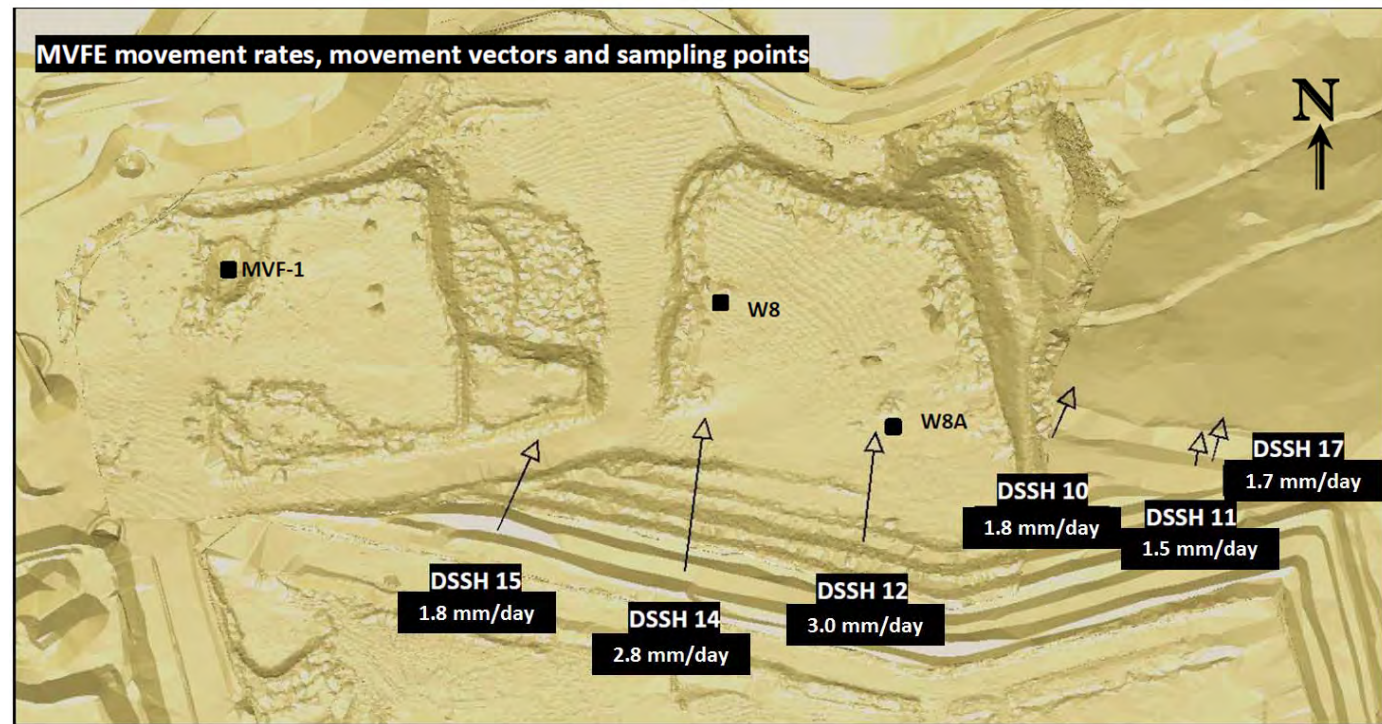
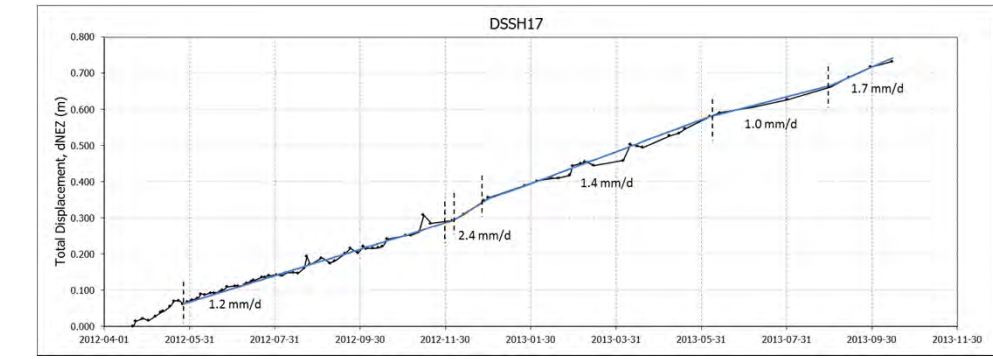
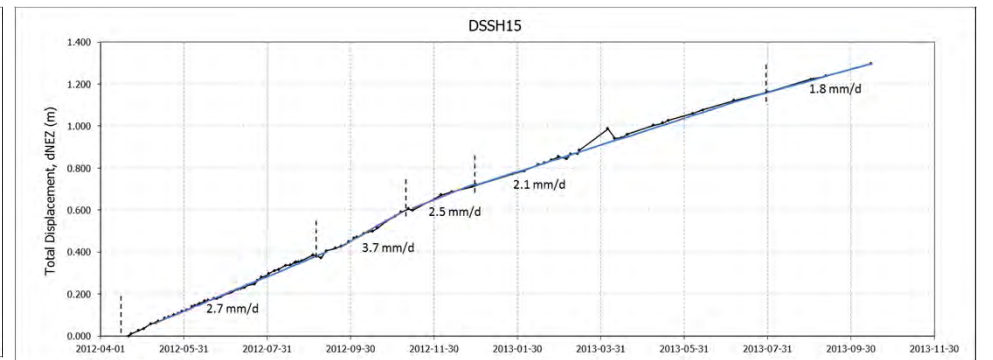
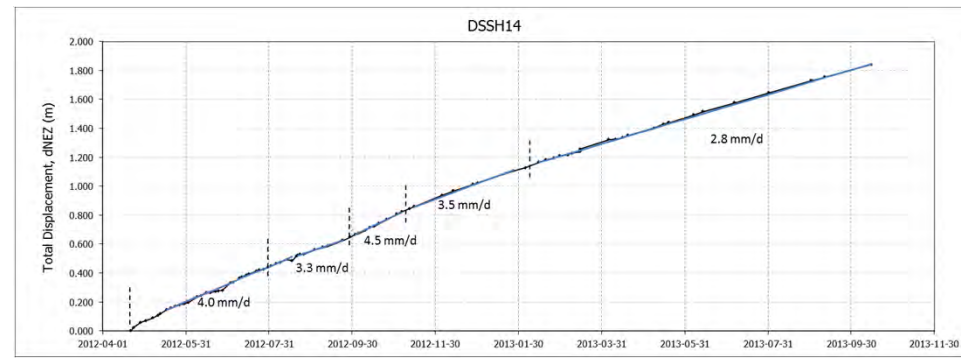
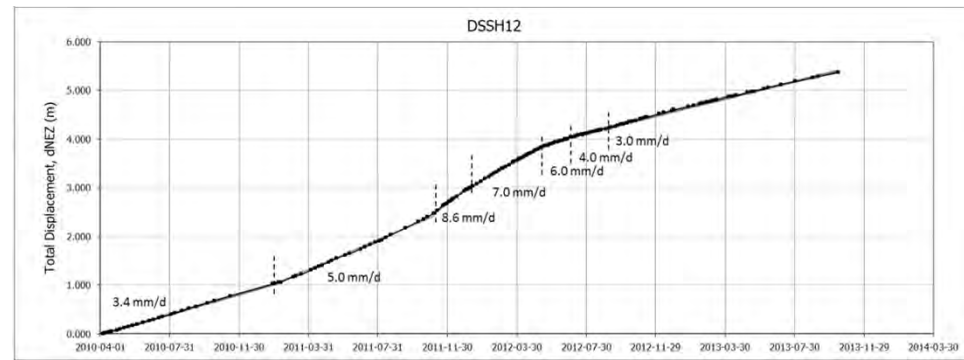
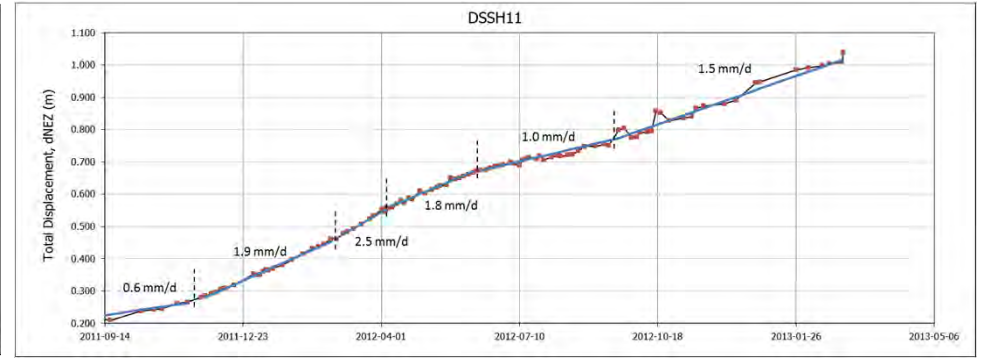
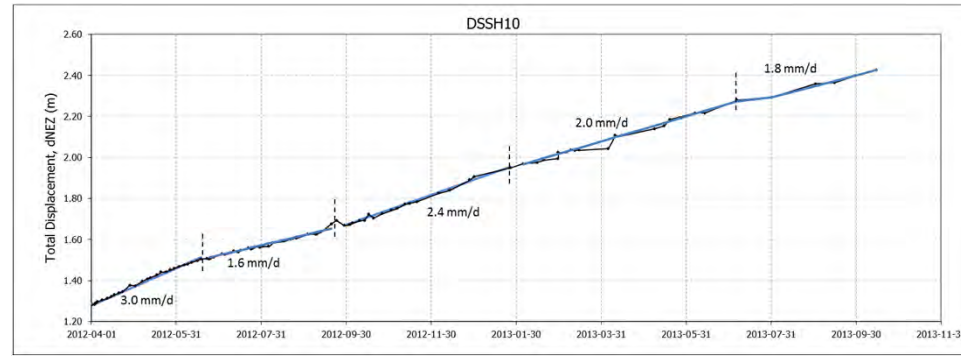
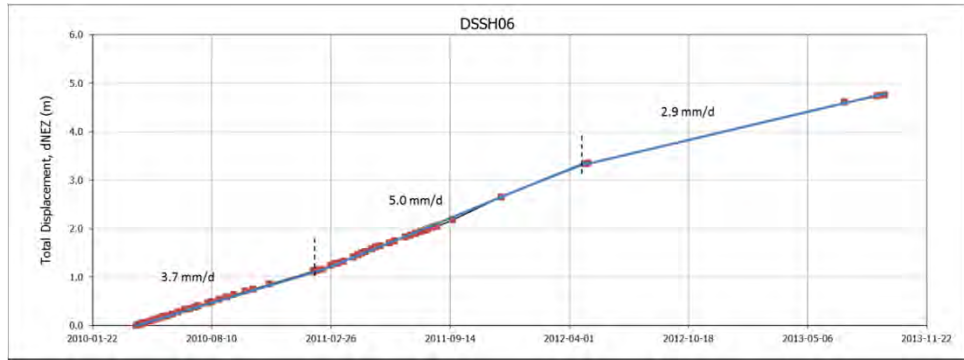
■ 4/19/2013 ● 4/26/2013 ▲ 4/28/2013
◆ 4/30/2013 ▼ 5/17/2013 ◇ 5/18/2013
+ 6/4/2013 + 6/11/2013 + 6/18/2013
+ 6/28/2013 ○ 7/20/2013

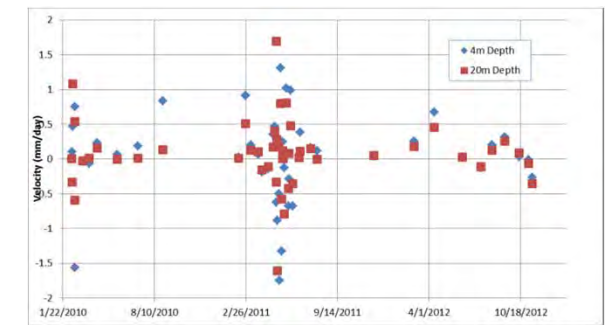
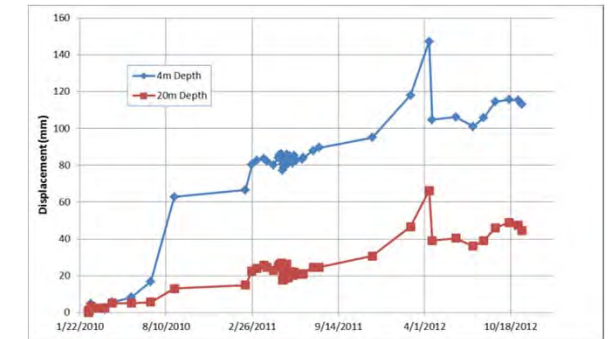
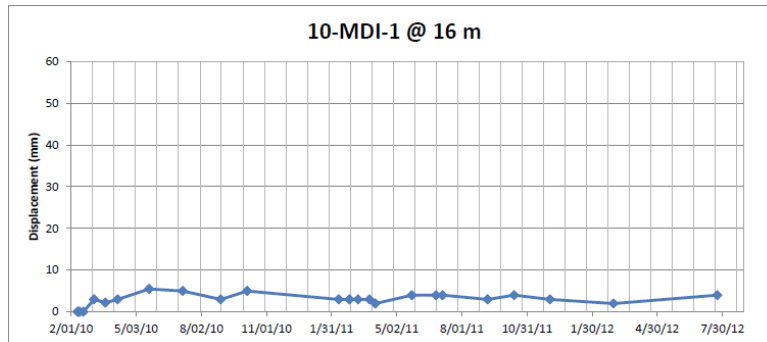
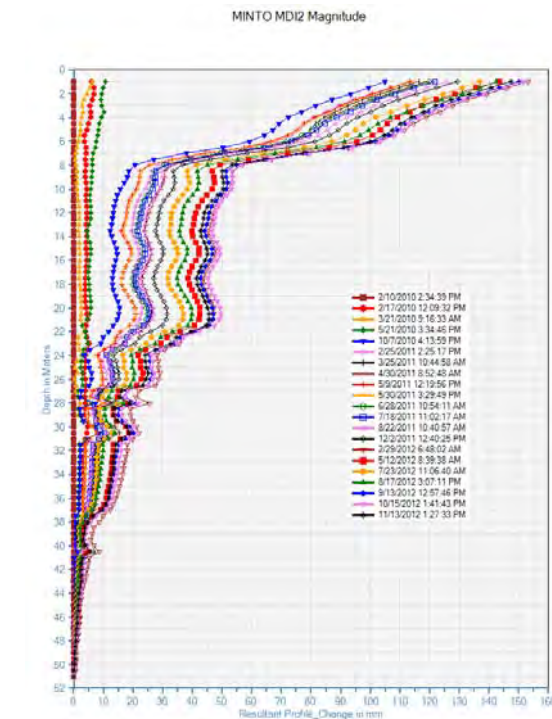
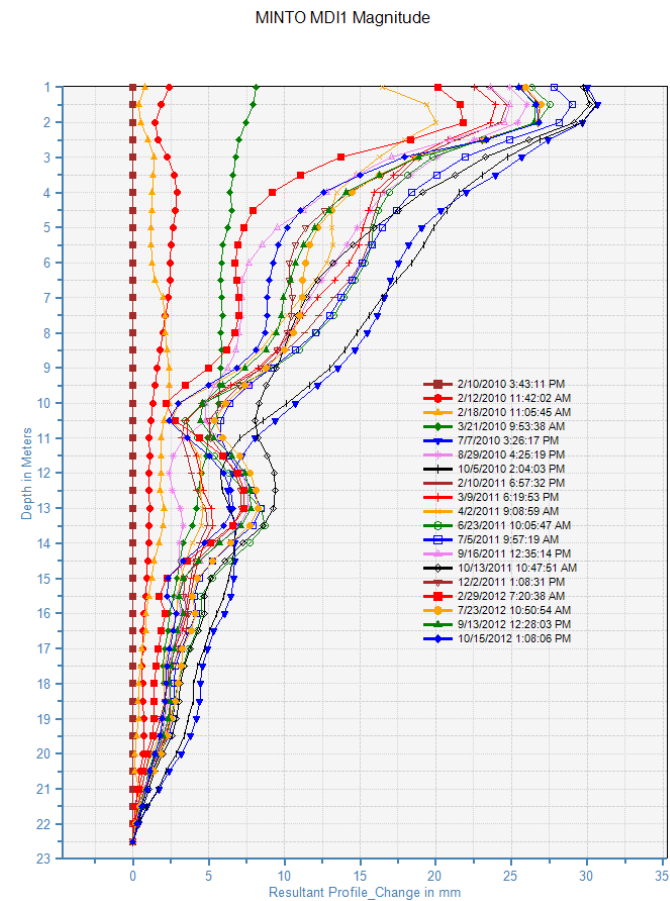
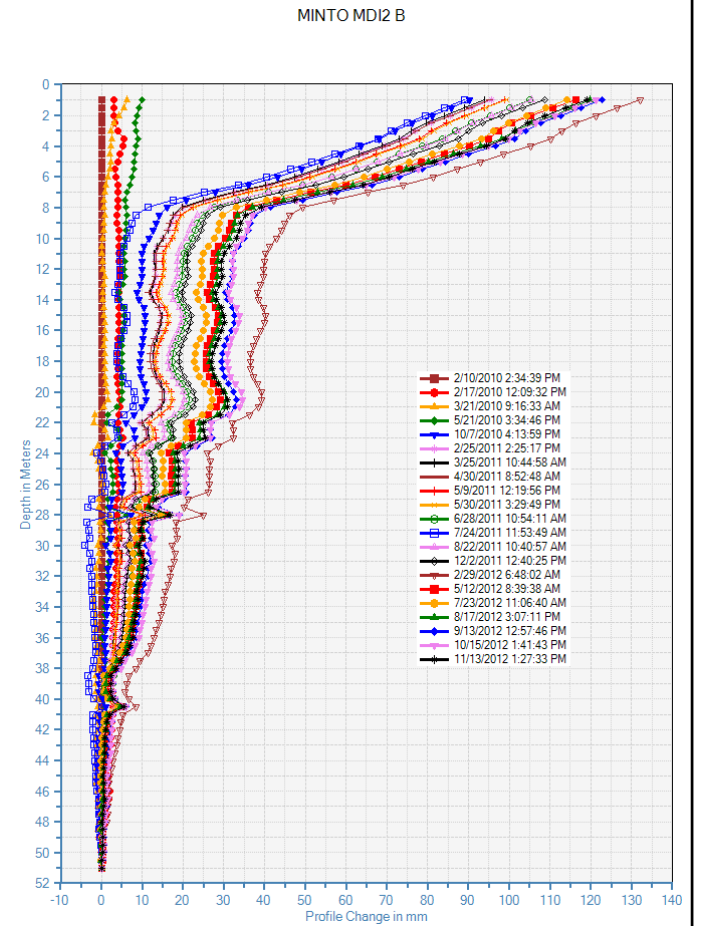
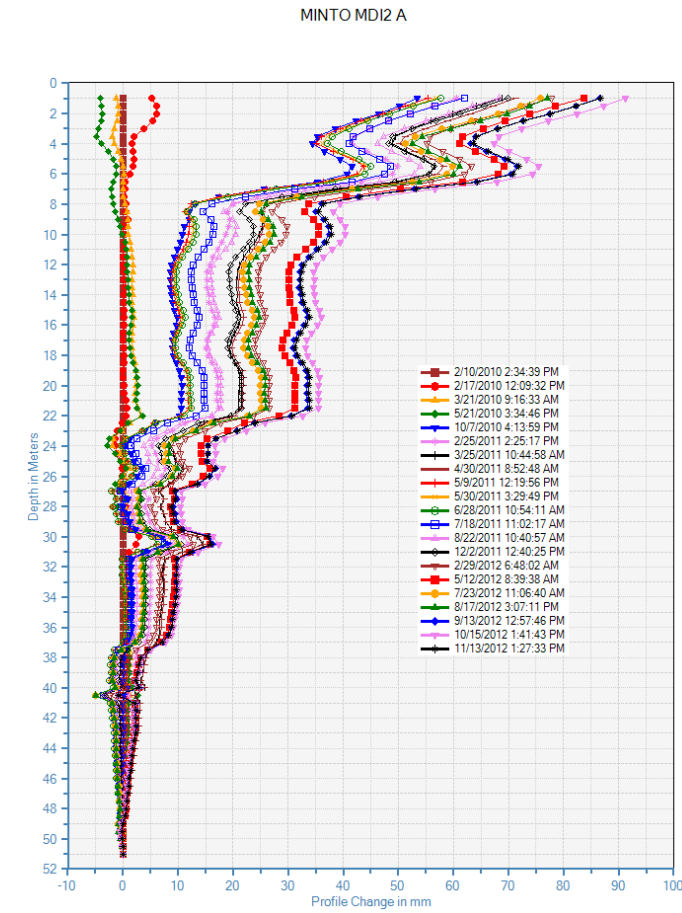
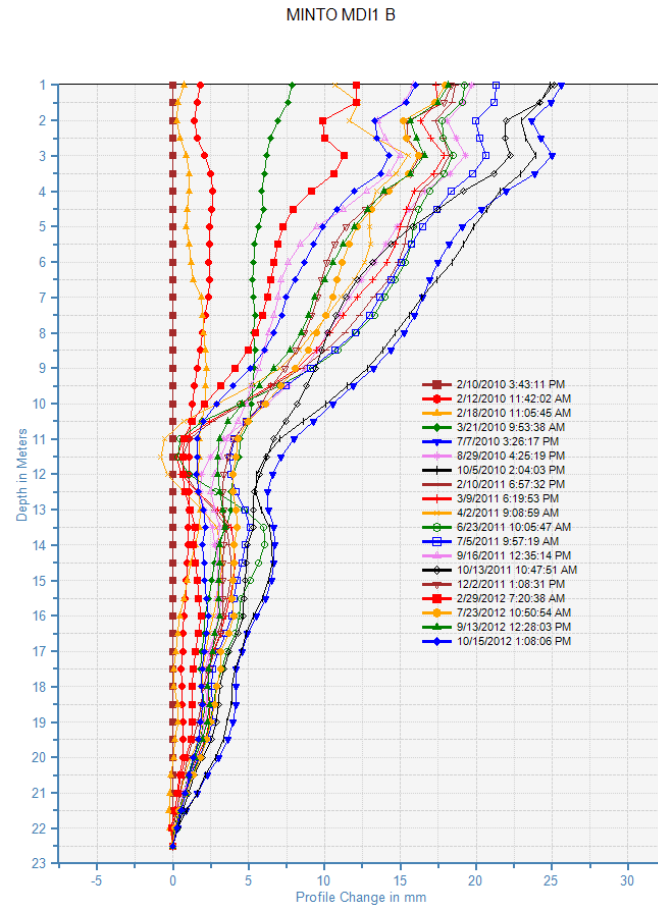
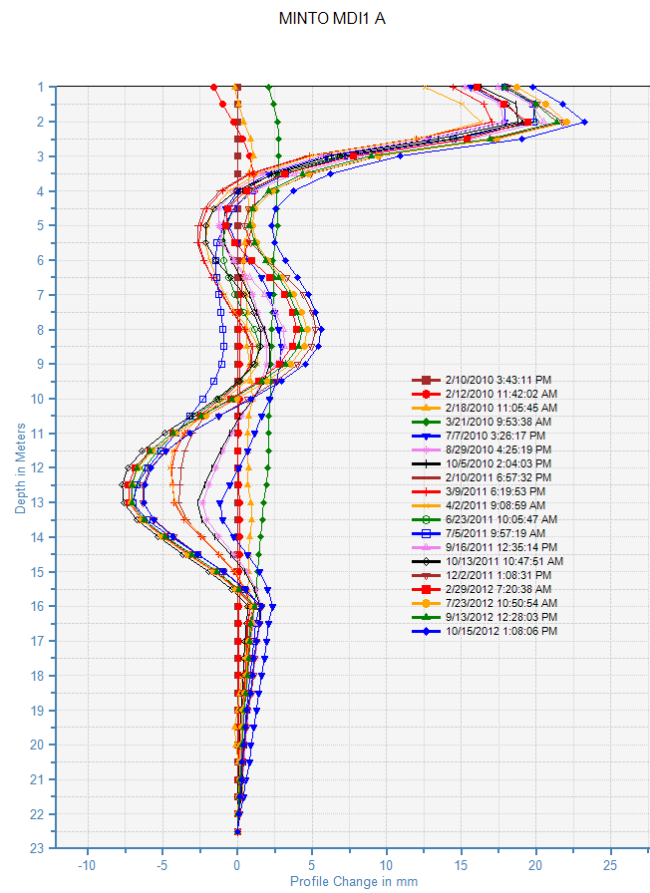


MINTO 13-DSI-21 Magnitude

■ 4/21/2013 ● 4/21/2013 ▲ 4/25/2013
◆ 4/27/2013 ▼ 4/29/2013 ◇ 5/23/2013
+ 7/22/2013







2013 Geotechnical Annual Review

Main Waste Dump Inclinerometers

Job No: 1CM002.012.005

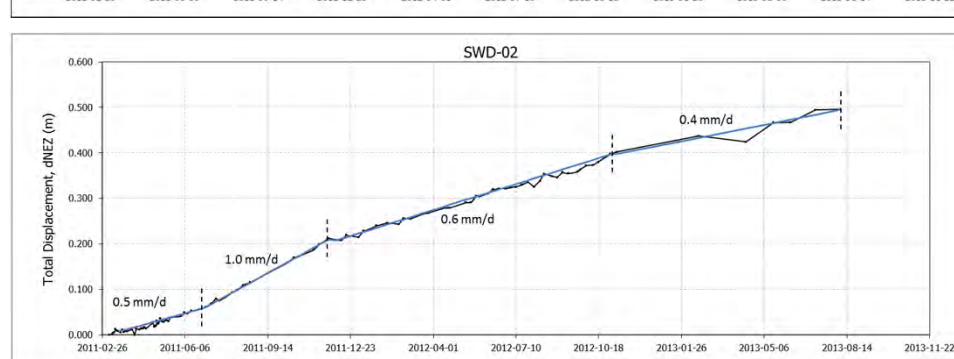
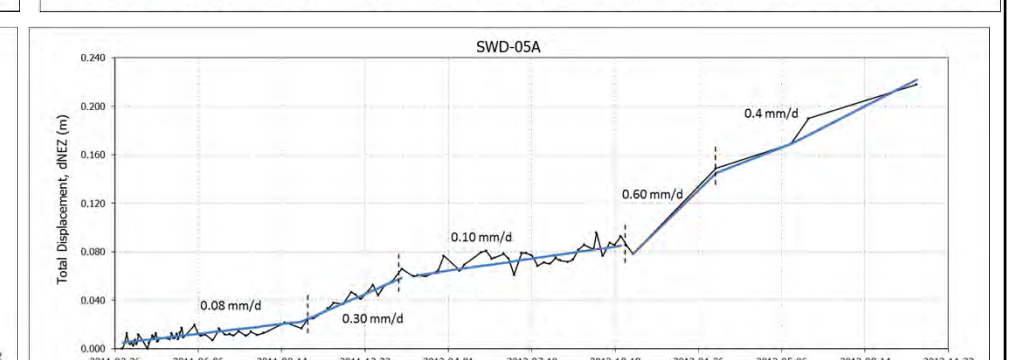
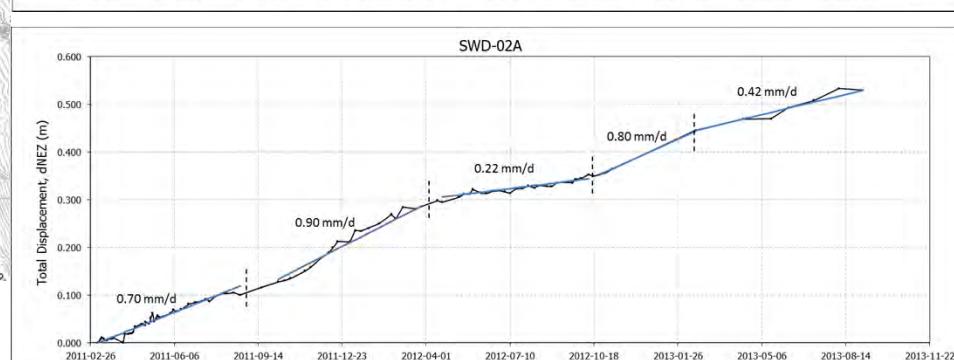
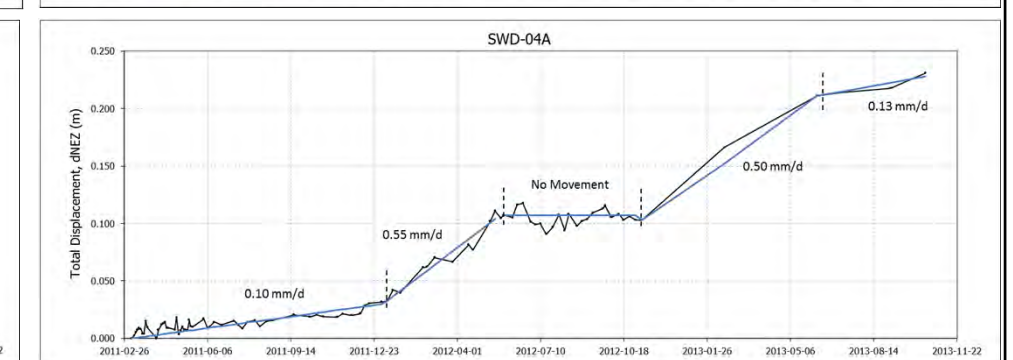
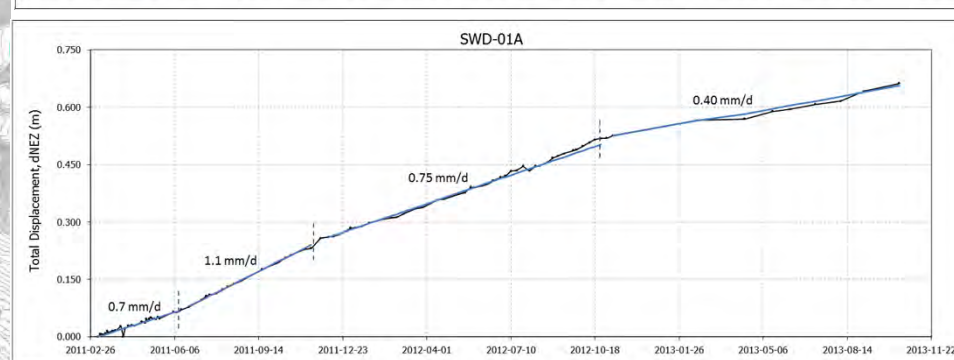
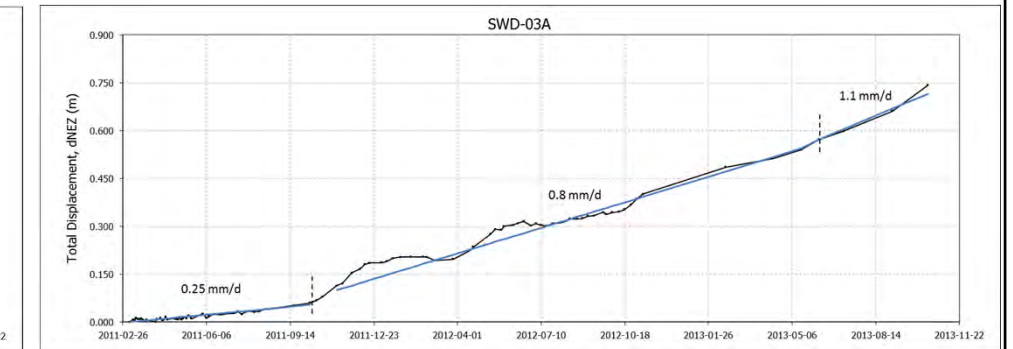
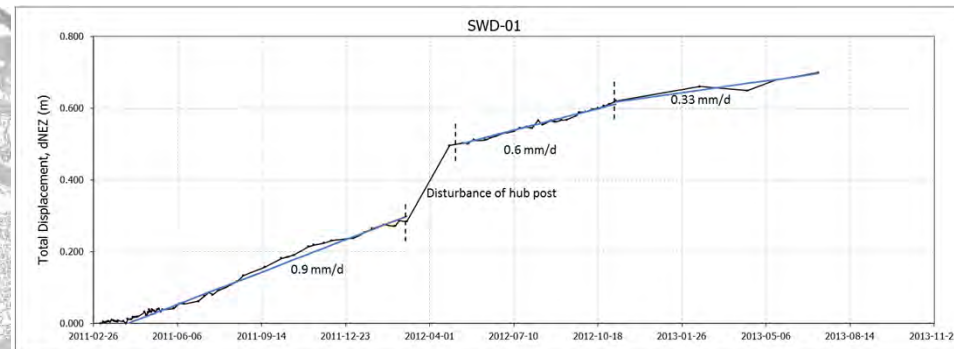
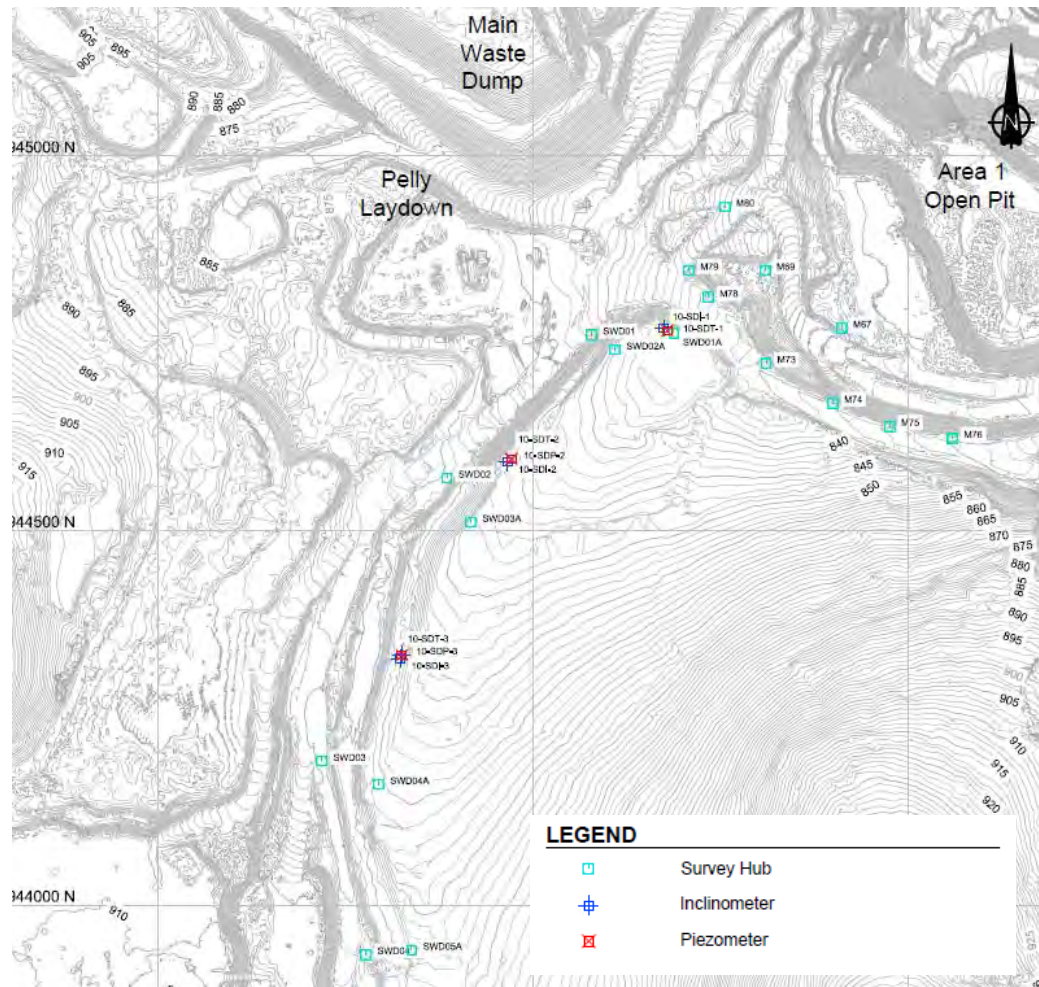
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Minto Mine

Date: October 2013

Approved: PHM

Figure: 7



Job No: 1CM002.012.005
 Filename: Minto 2013 Fall Inspection.ppt

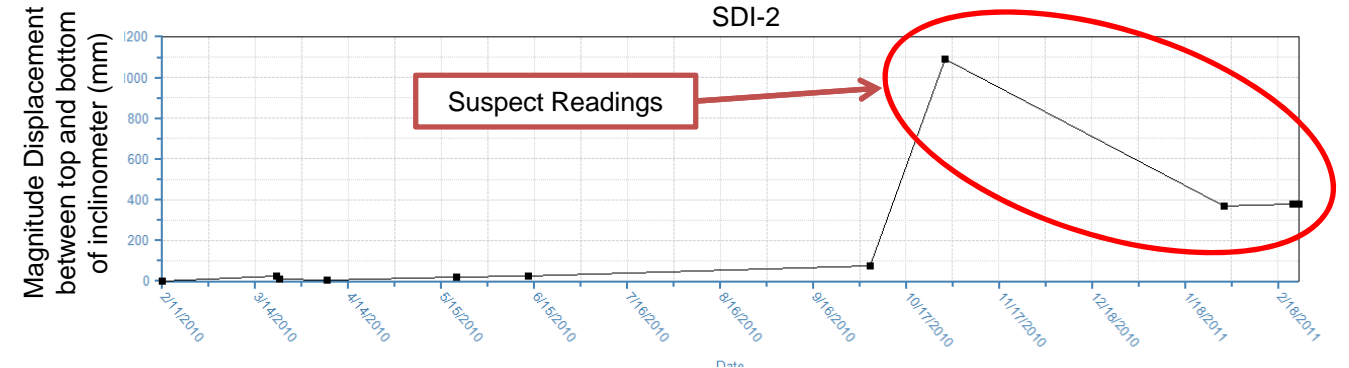
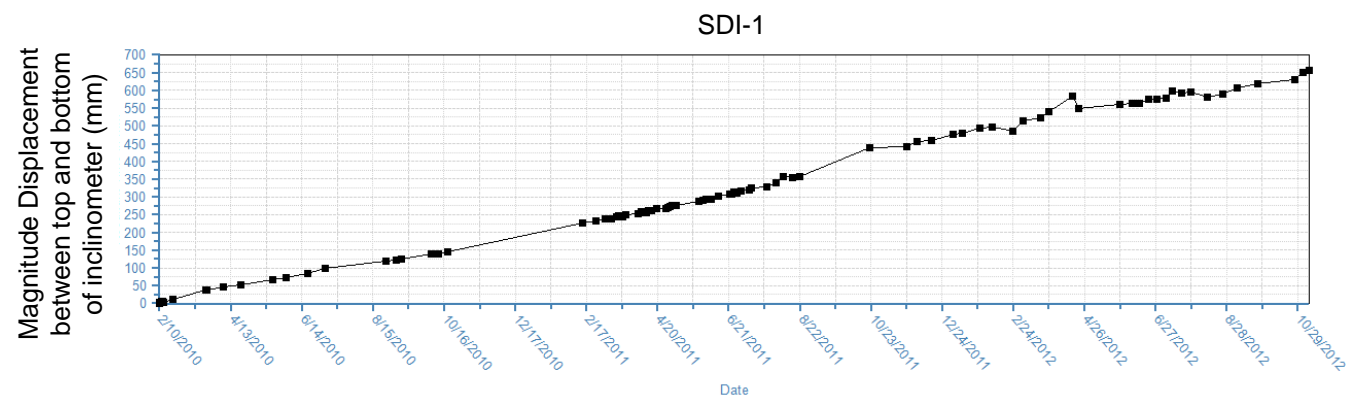
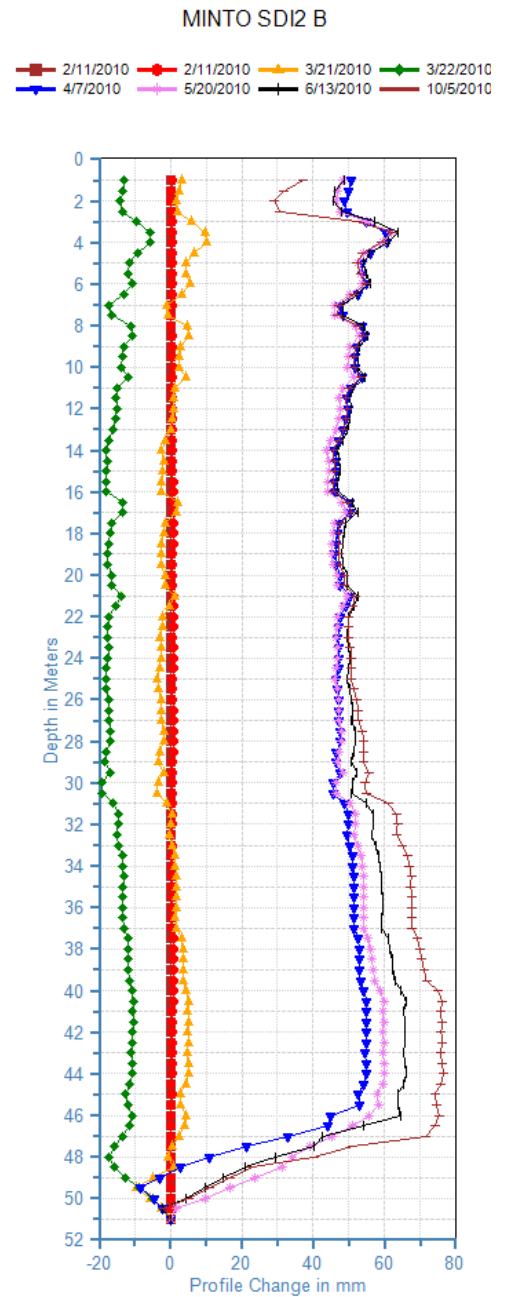
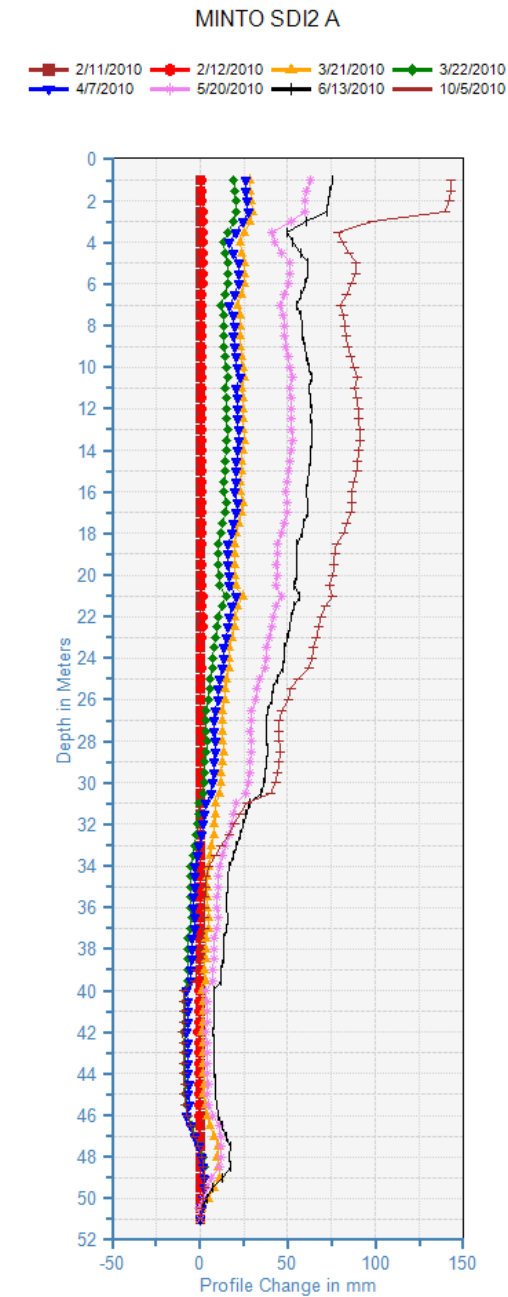
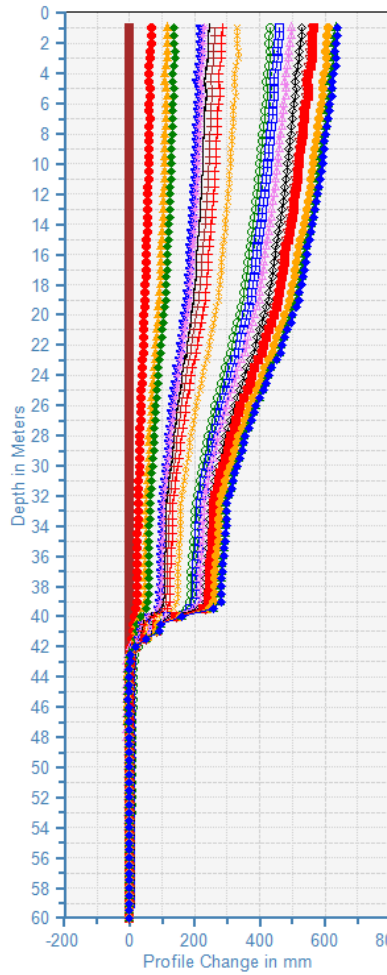
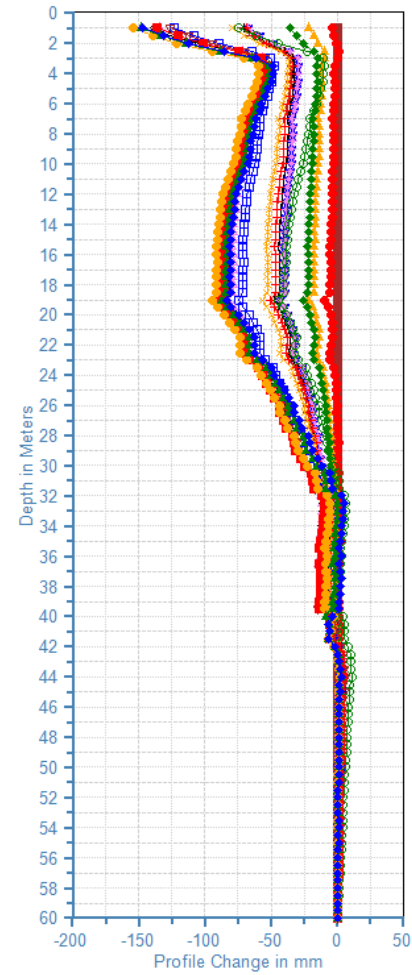


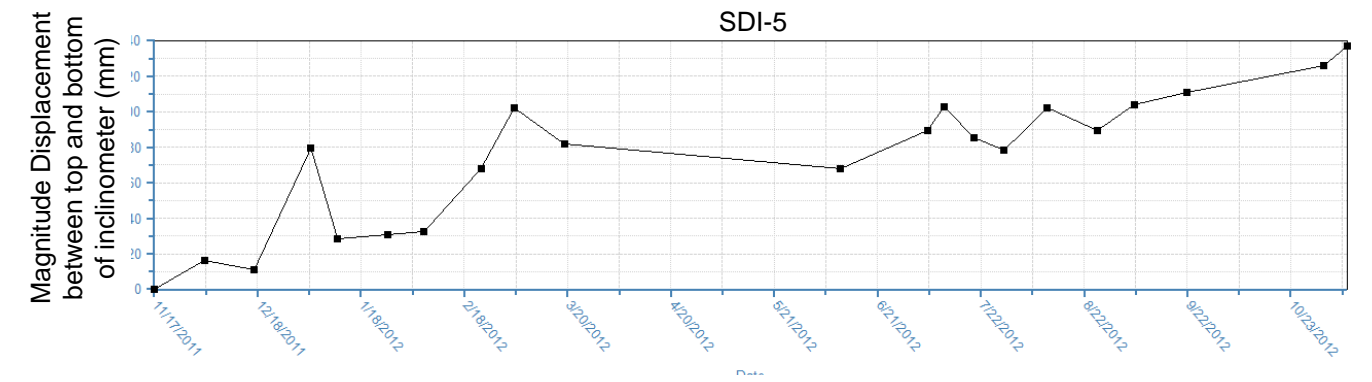
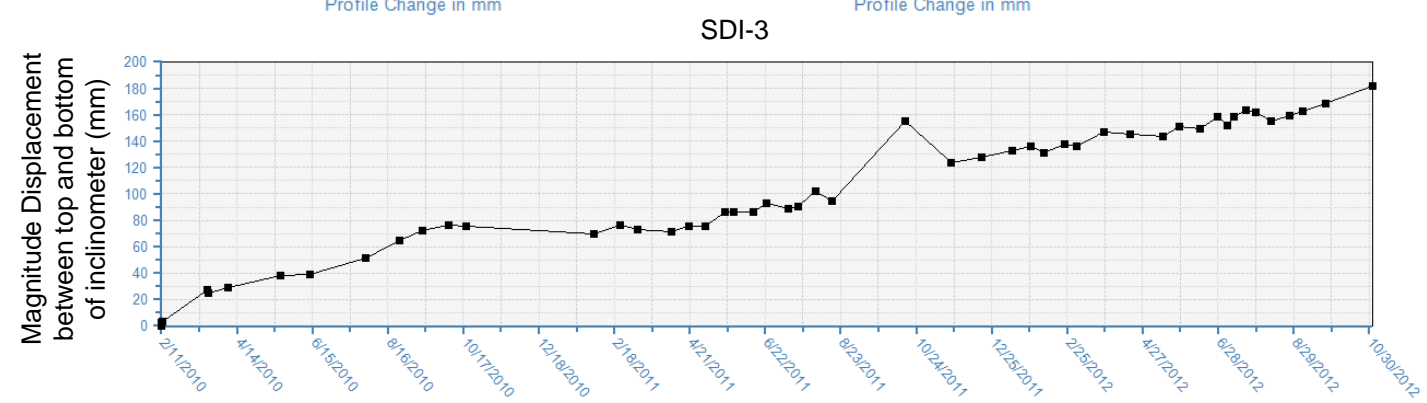
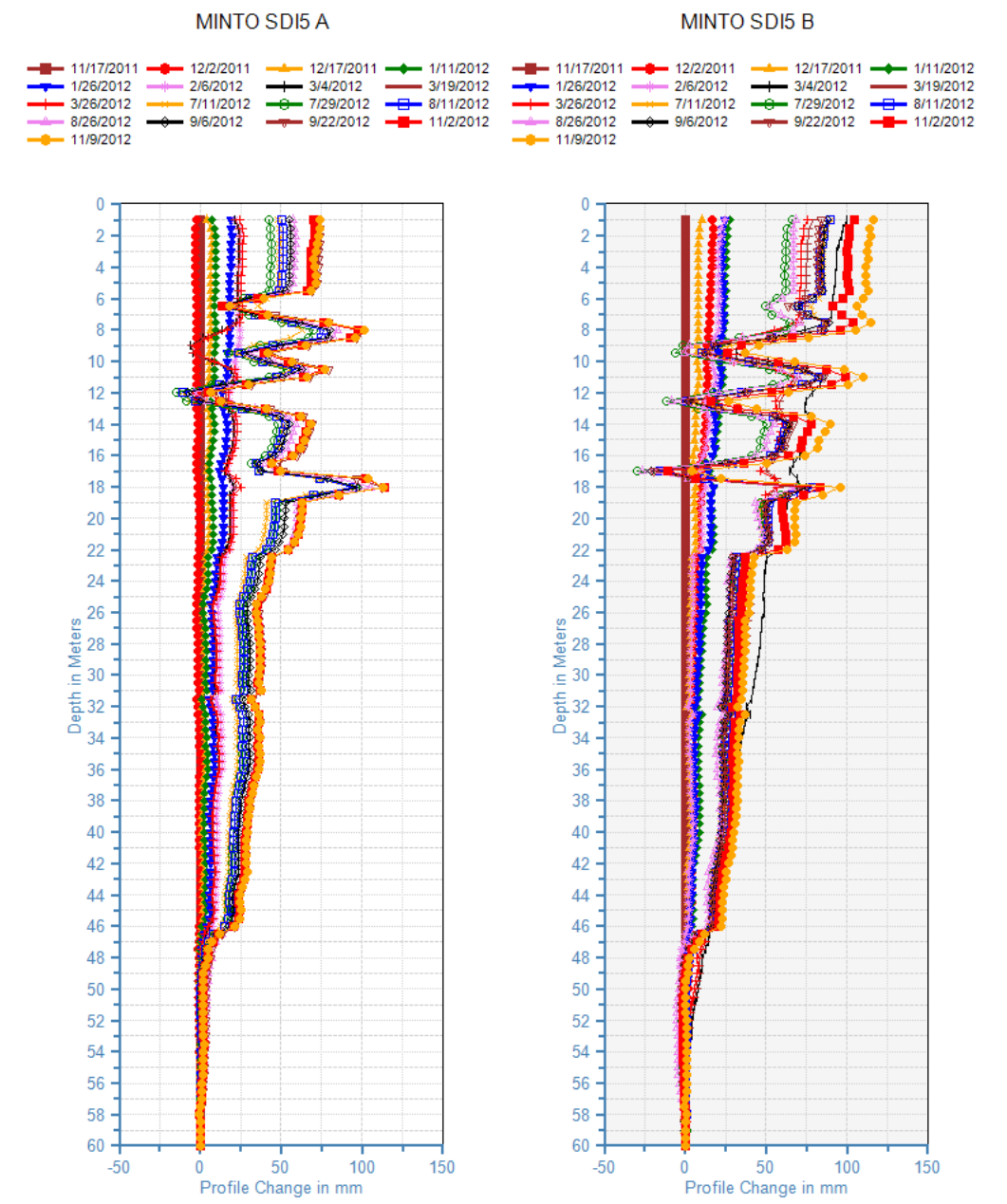
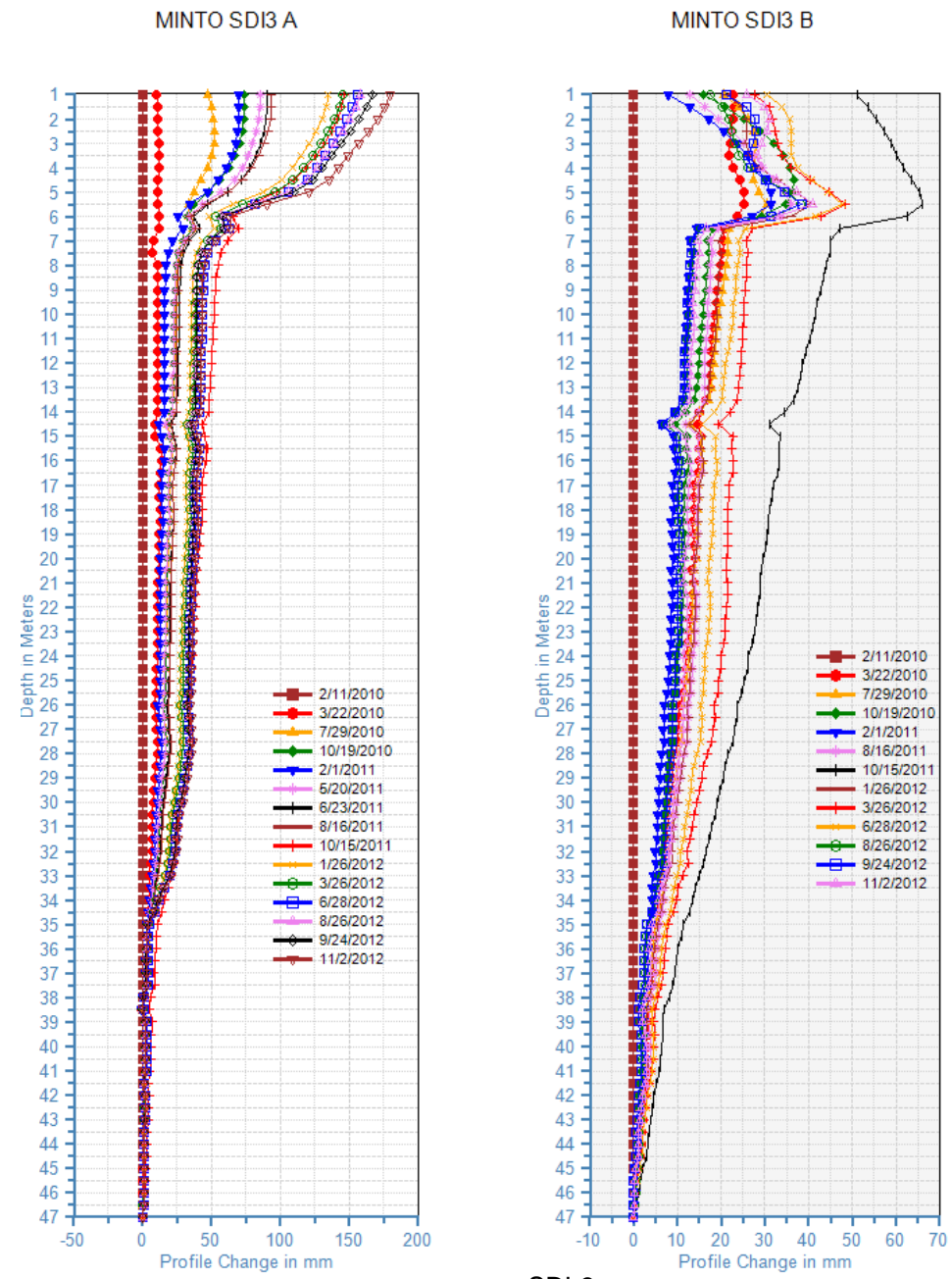
Minto Mine

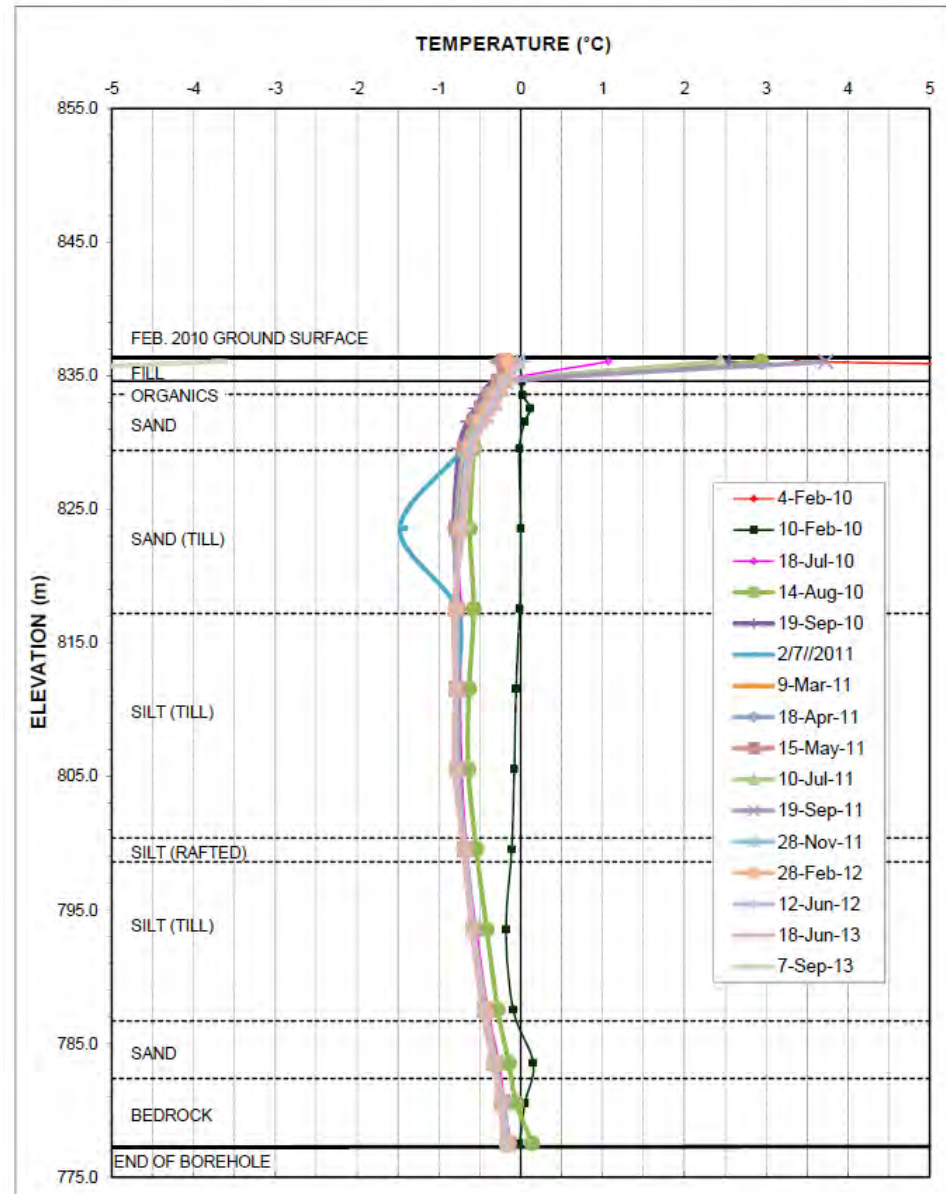
2013 Geotechnical Annual Review

**Southwest Waste Dump Survey
 Hub Instrumentation**

Date: October 2013
 Approved: PHM
 Figure: **8**

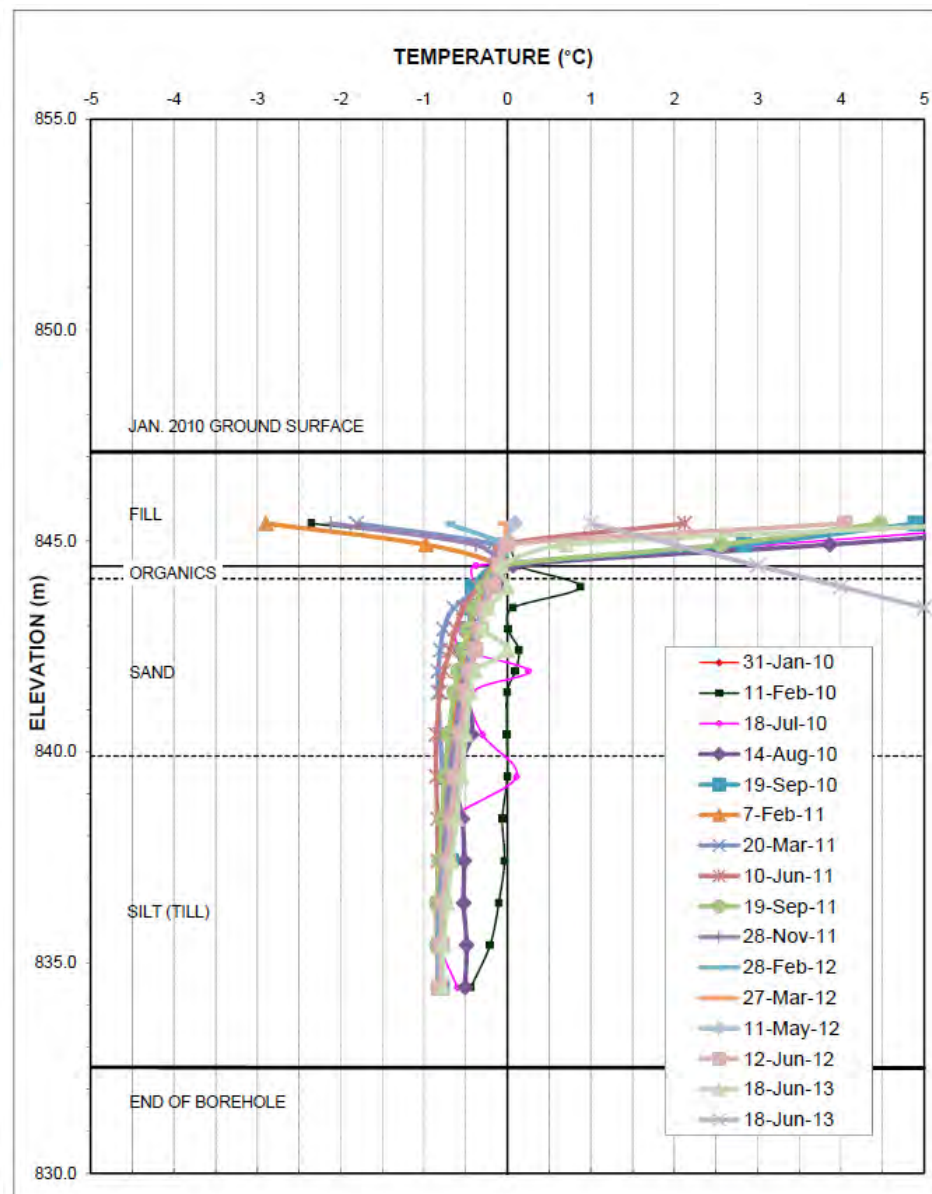






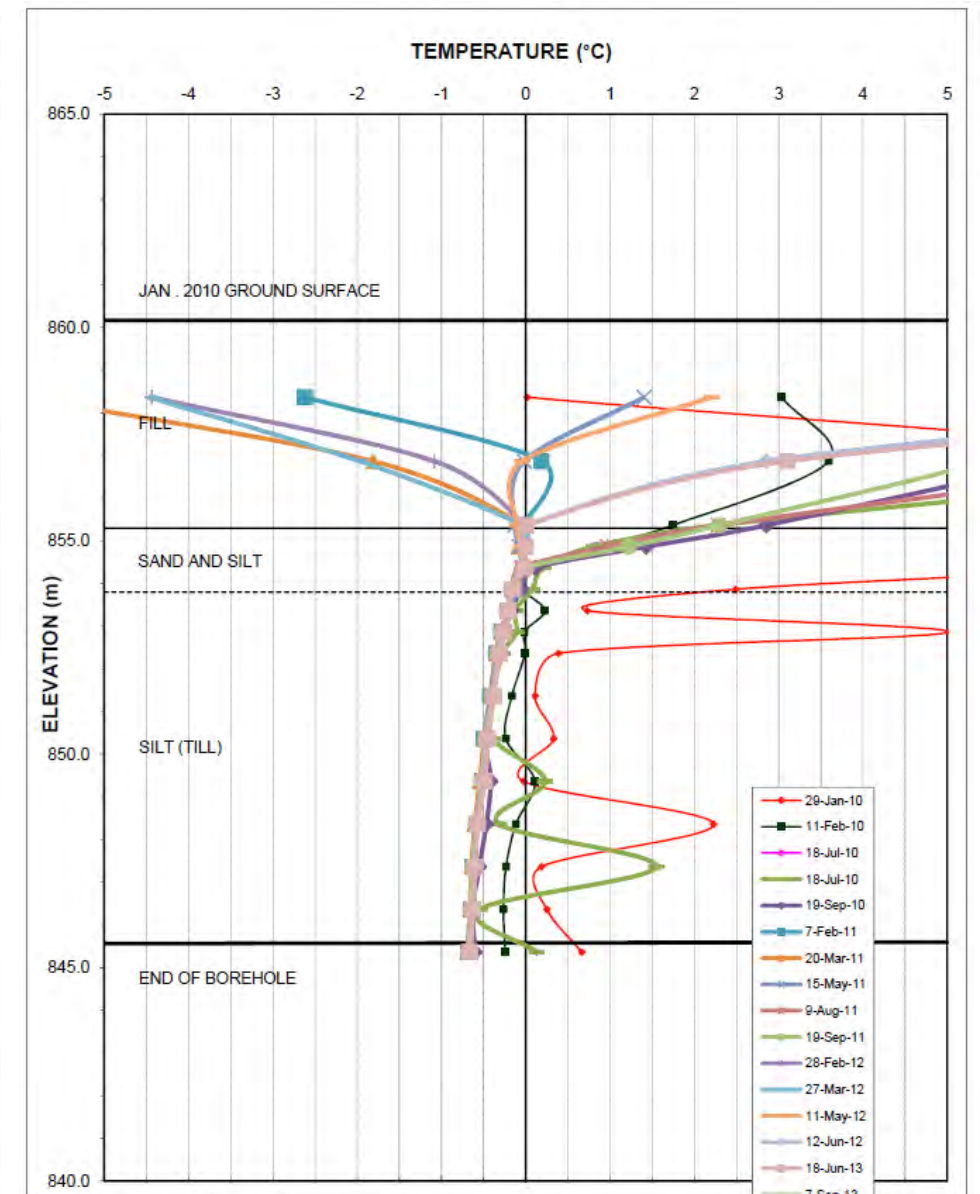
Installed: February 4, 2010

Southwest Waste Dump
Ground Temperature Profile - SDT-1



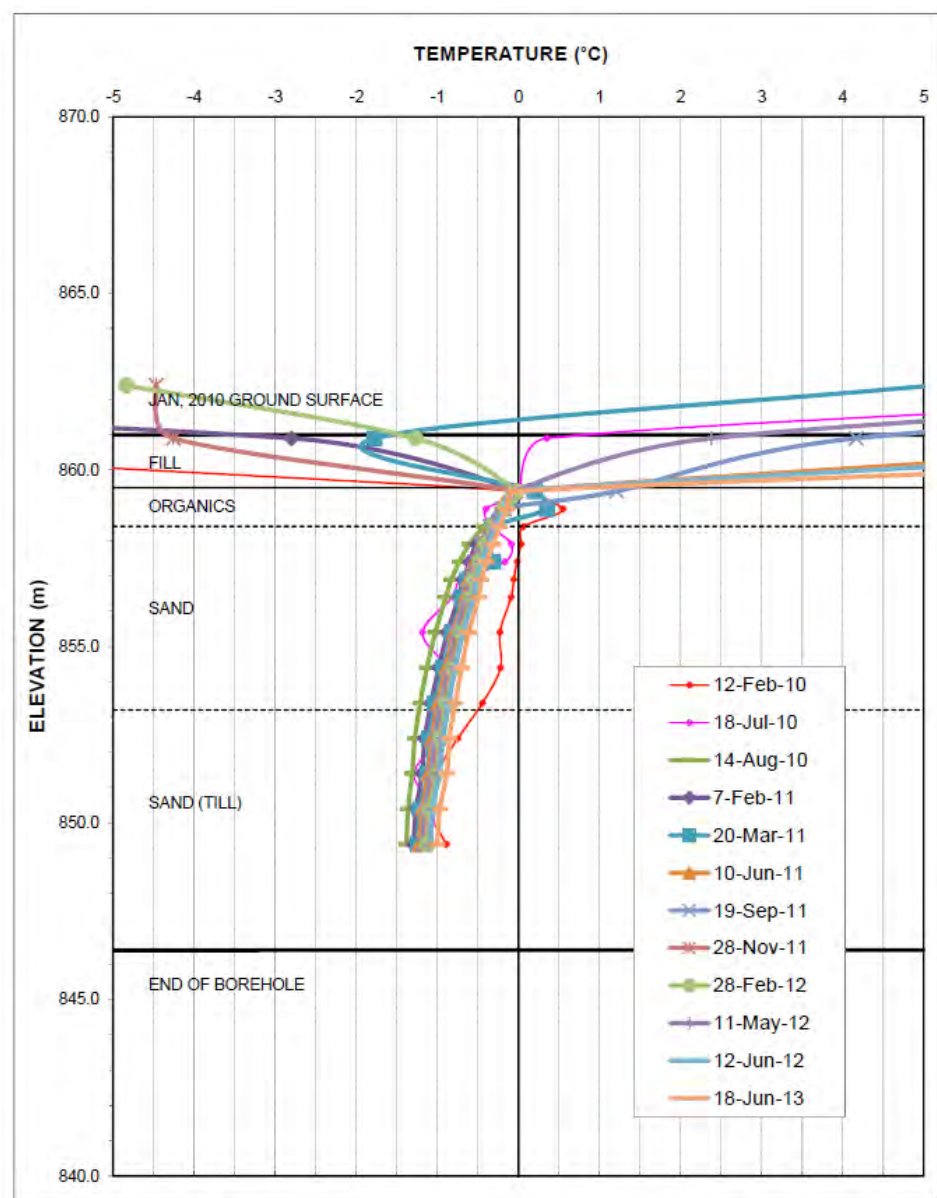
Installed: January 31, 2010

Southwest Waste Dump
Ground Temperature Profile - SDT-2



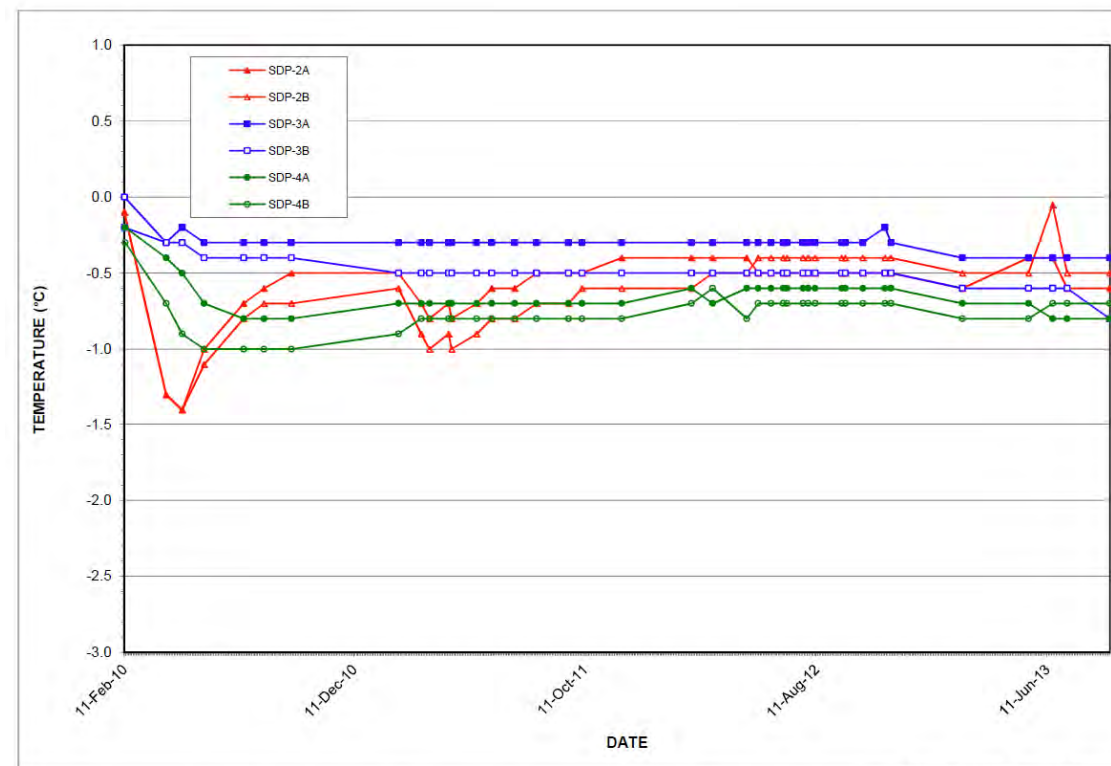
Installed: January 28, 2010

Southwest Waste Dump
Ground Temperature Profile - SDT-3

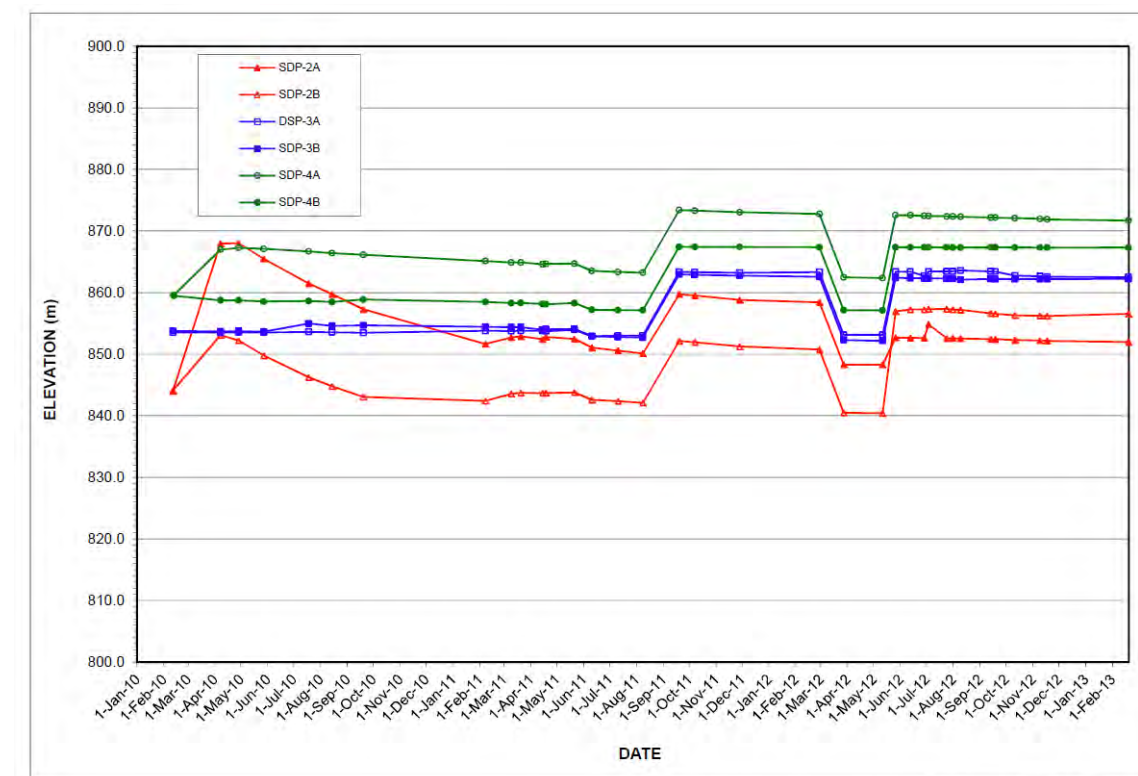


Installed: January 30, 2010

Southwest Waste Dump
Ground Temperature Profile - SDT-4



Southwest Waste Dump
Ground Temperature Profile of VW Piezometer - SDP-2A, SDP-2B, SDP-3A, SDP-3B, SDP-4A, SDP-4B



Southwest Waste Dump
Instrument Water Elevation - SDP-2A, SDP-2B, SDP-3A, SDP-3B, SDP-4A, SDP-4B



Job No: 1CM002.012.005
Filename: Minto 2013 Fall Inspection.ppt



Minto Mine

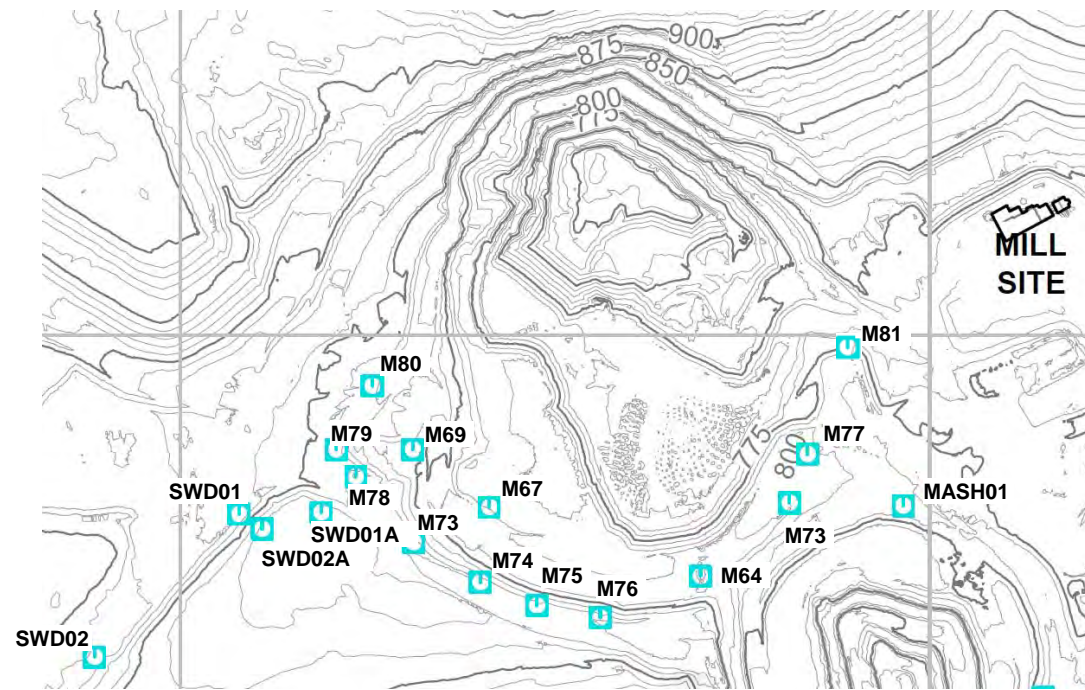
2013 Geotechnical Annual Review

SW Waste Dump Temperature and Piezometer Sensors

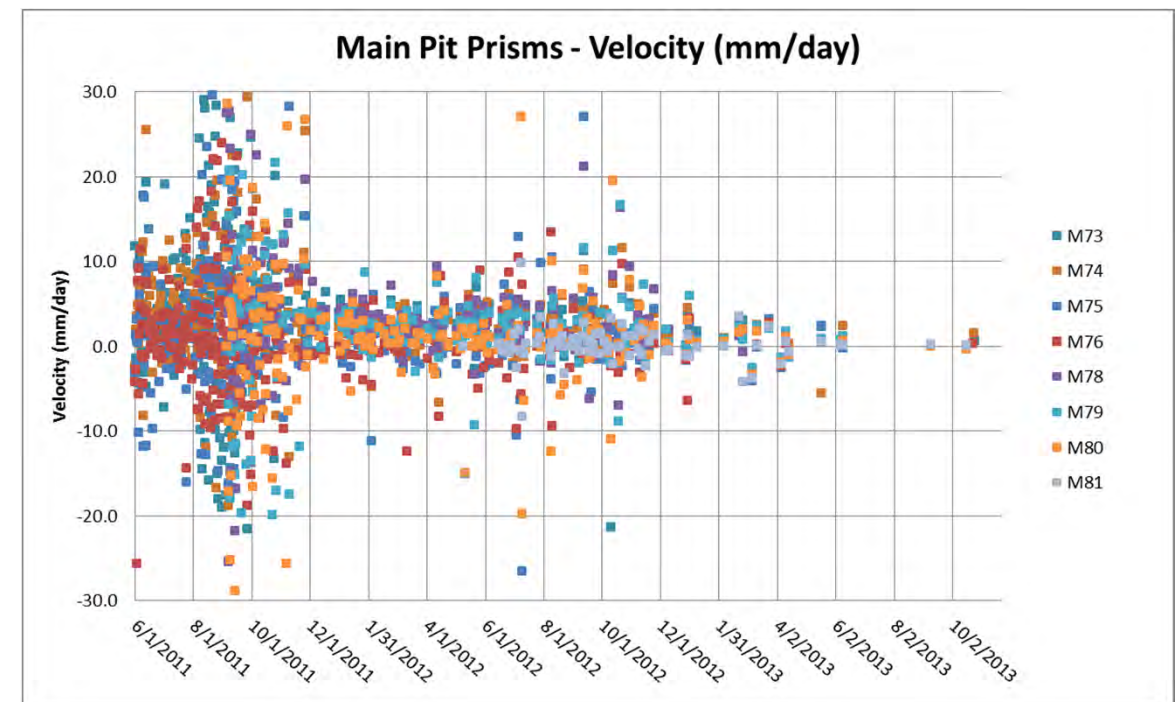
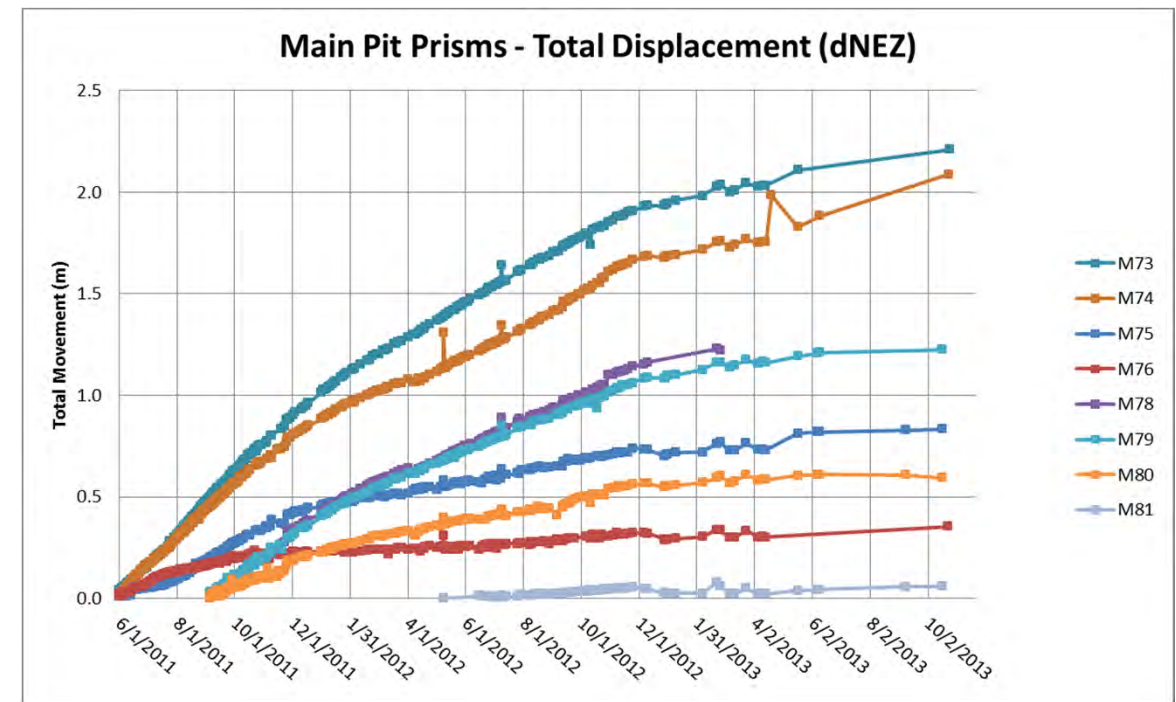
Date: October 2013

Approved: PHM

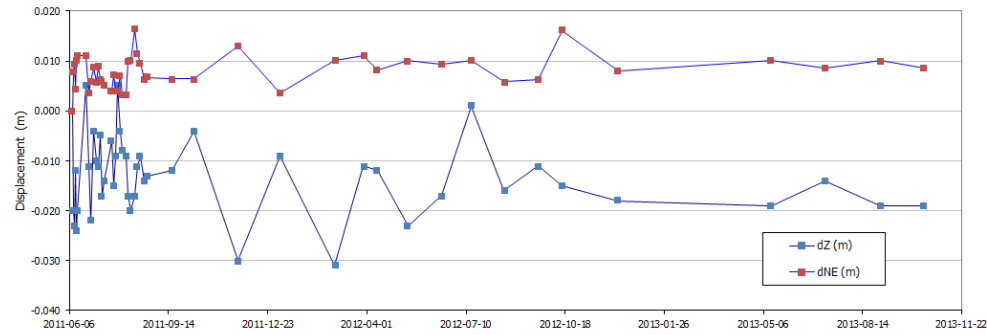
Figure: 12



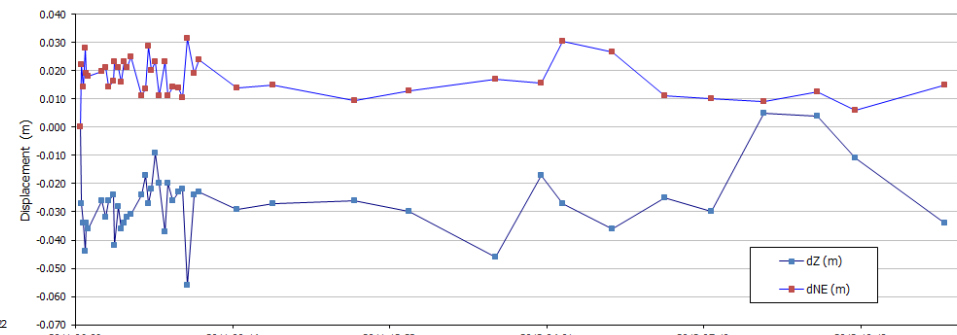
Survey Hub Locations



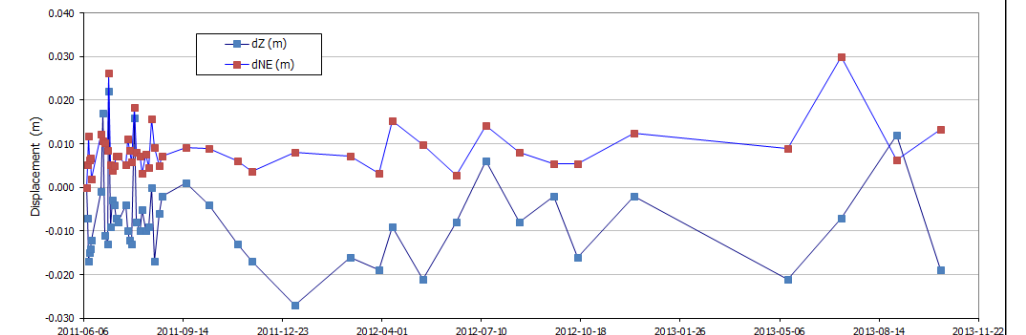
WSP-1



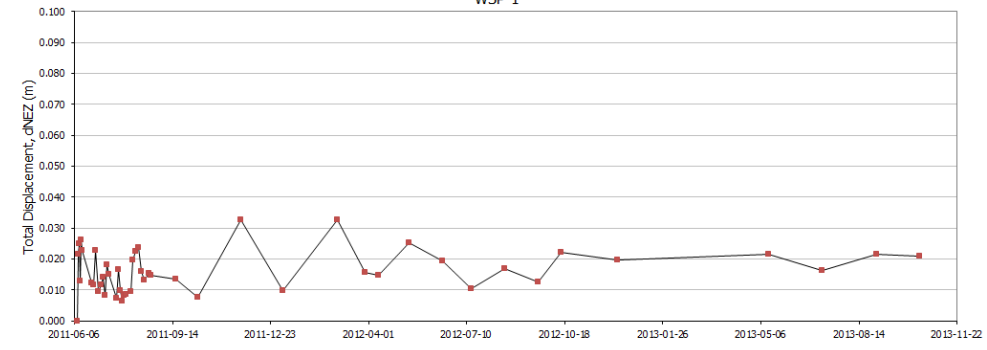
WSP-2



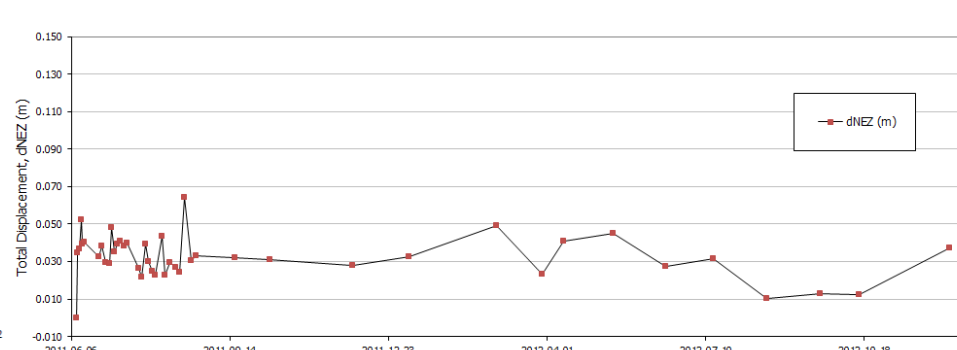
WSP-3



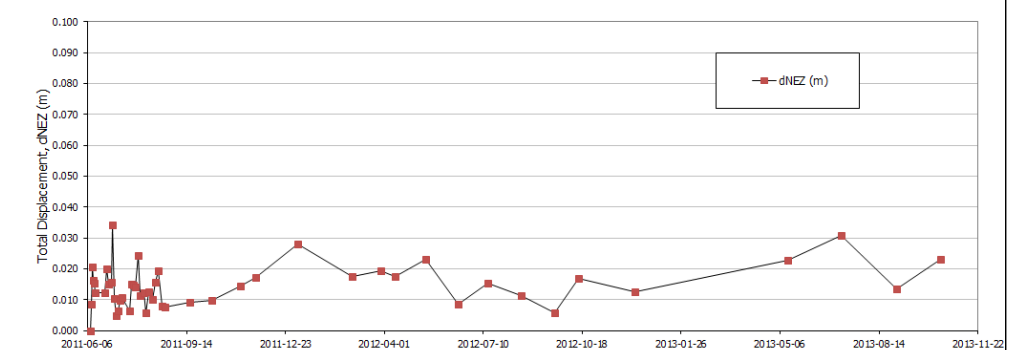
WSP-1



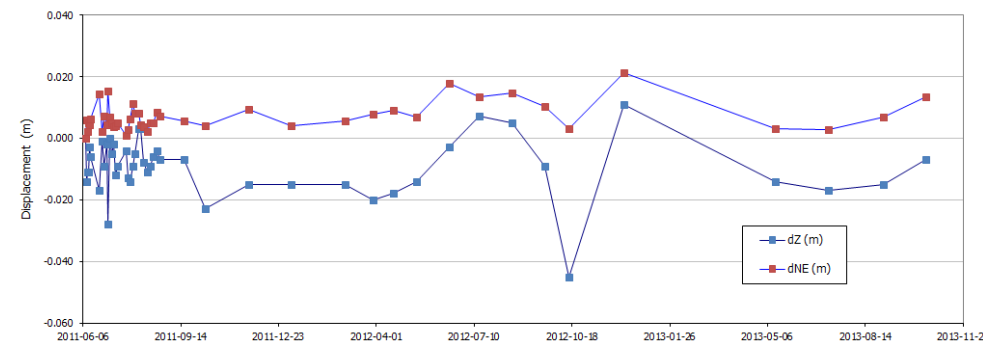
WSP-2



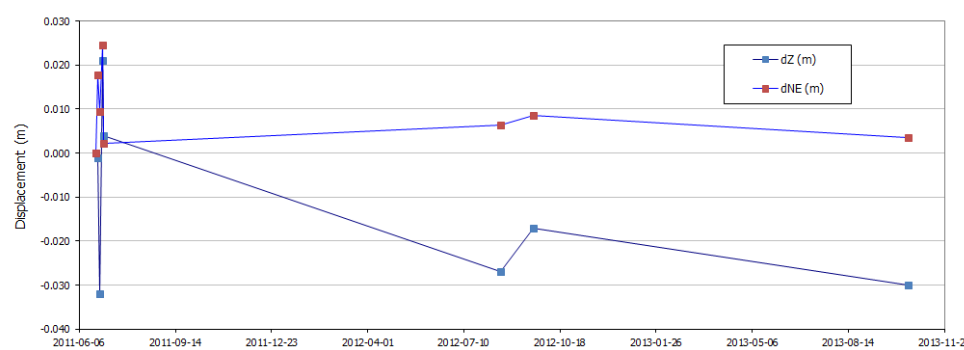
WSP-3



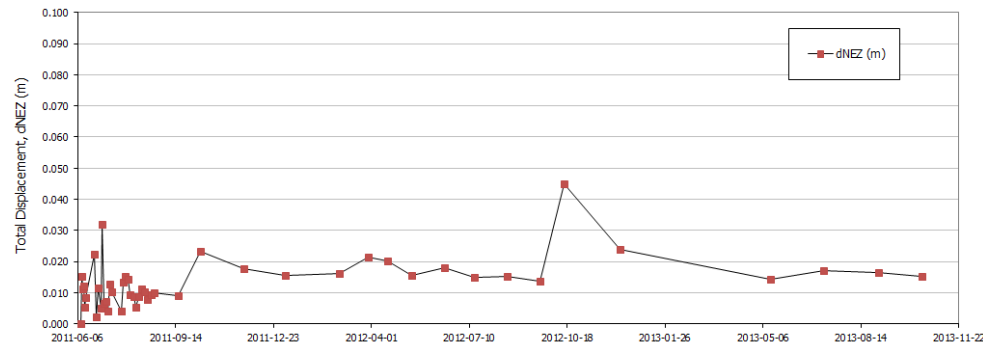
WSP-4



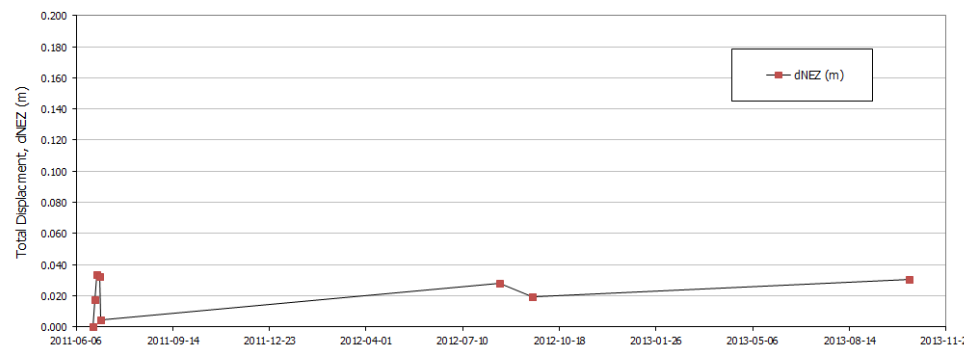
WSP-5

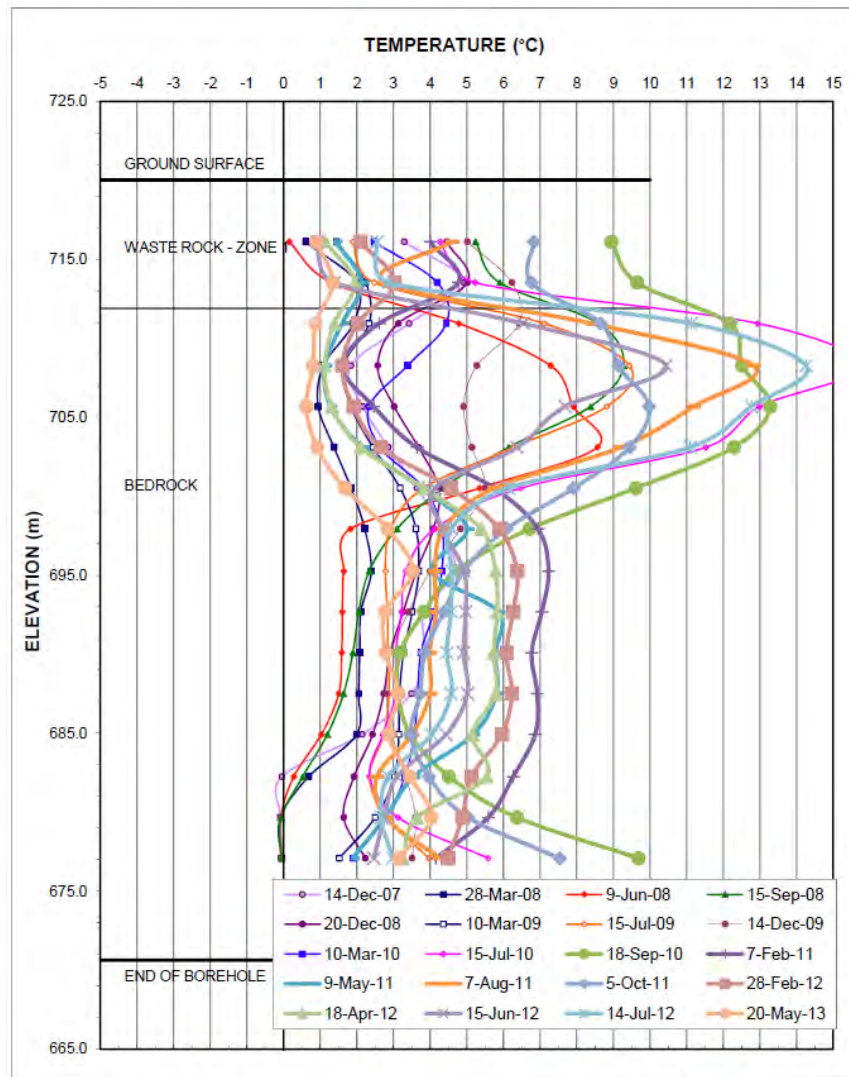


WSP-4

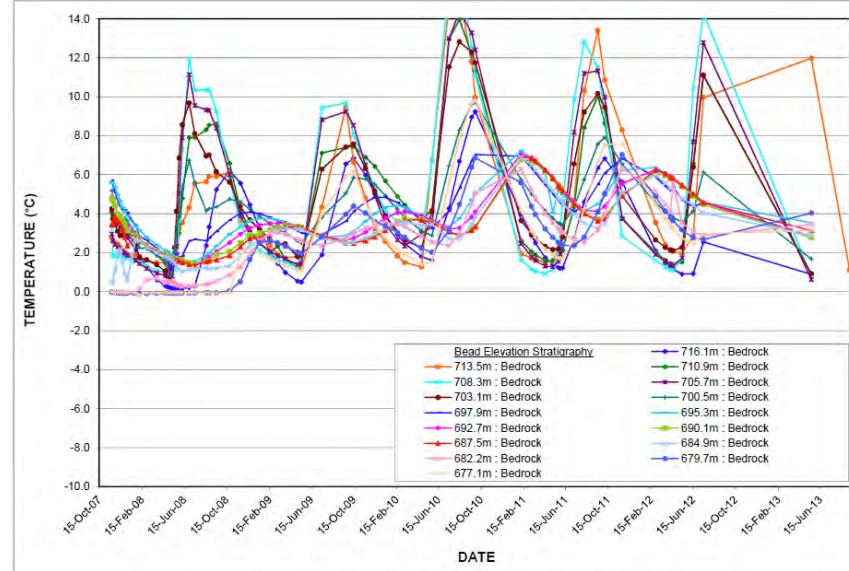


WSP-5

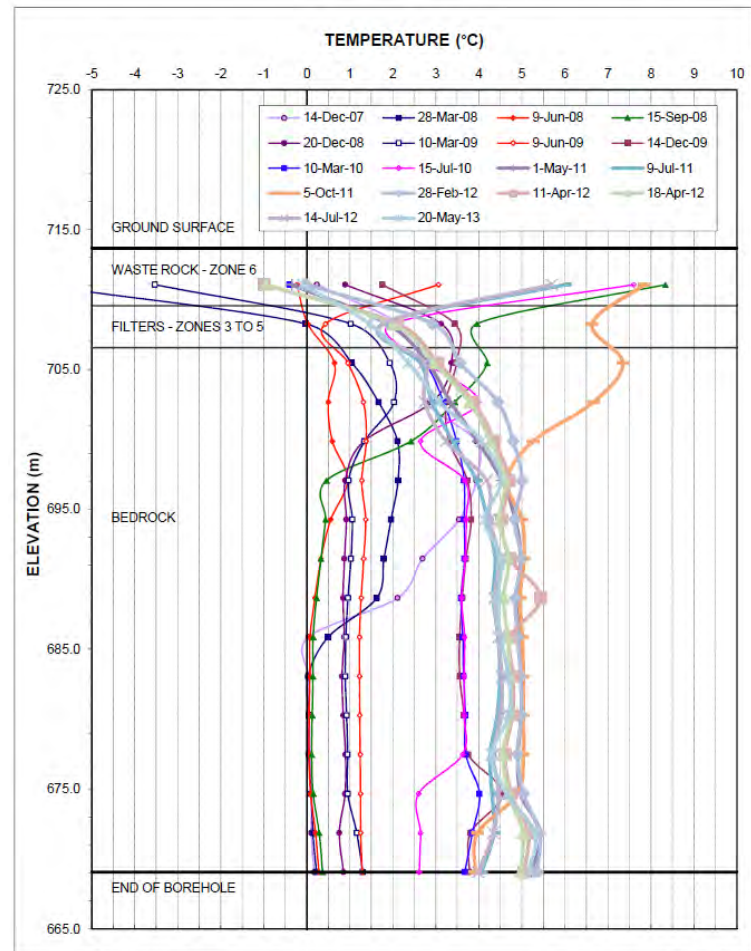




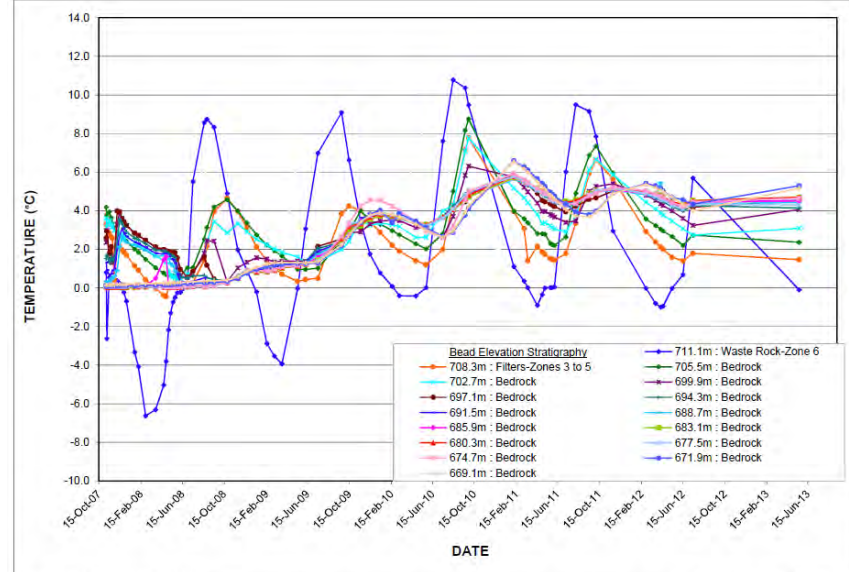
Installed: November 16, 2007
Water Storage Pond Dam
Ground Temperature Profile - WDT-1



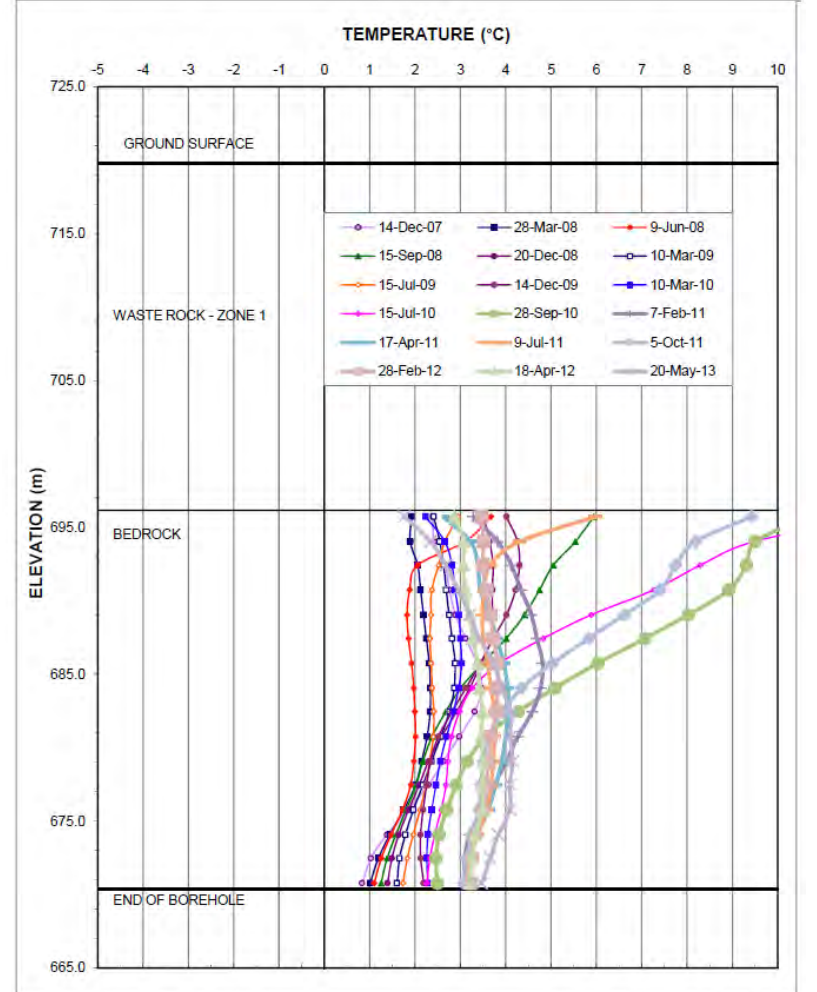
Installed: November 16, 2007
Water Storage Pond Dam
Ground Temperature Profile - WDT-1



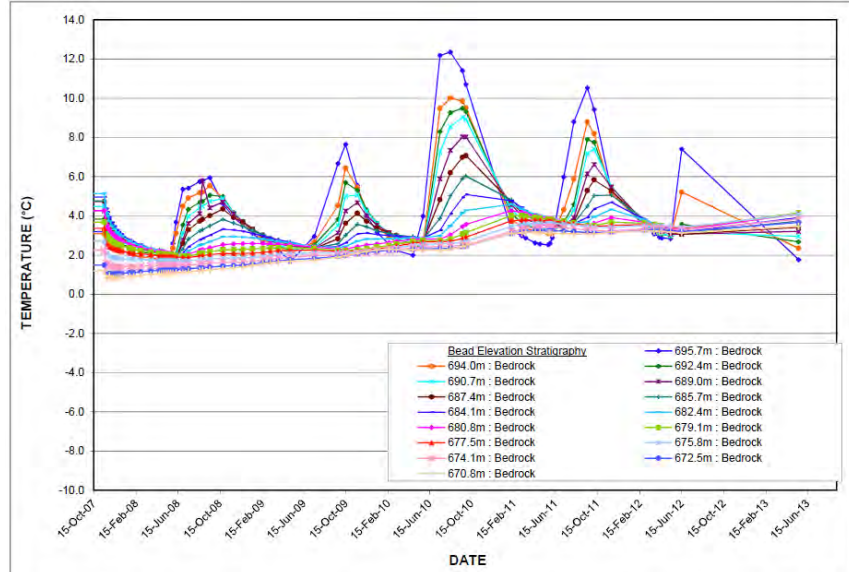
Installed: November 7, 2007
Water Storage Pond Dam
Ground Temperature Profile - WDT-2



Installed: November 7, 2007
Water Storage Pond Dam
Ground Temperature Profile - WDT-2



Installed: November 11, 2007
Water Storage Pond Dam
Ground Temperature Profile - WDT-3



Installed: November 11, 2007
Water Storage Pond Dam
Ground Temperature Profile - WDT-3



Job No: 1CM002.012.005
Filename: Minto 2013 Fall Inspection.ppt

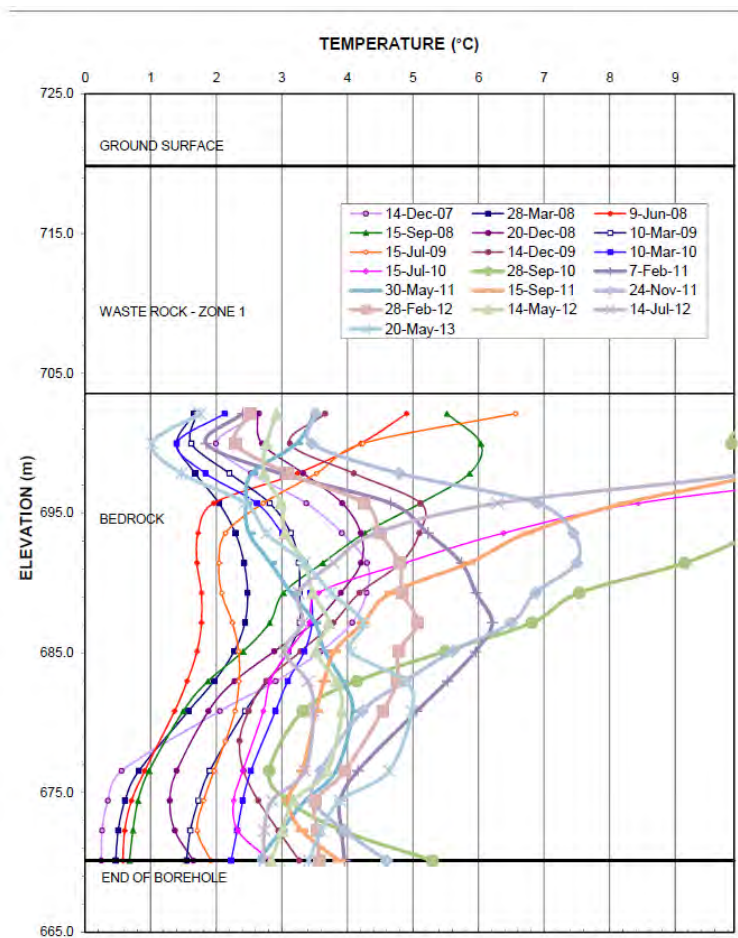


Minto Mine

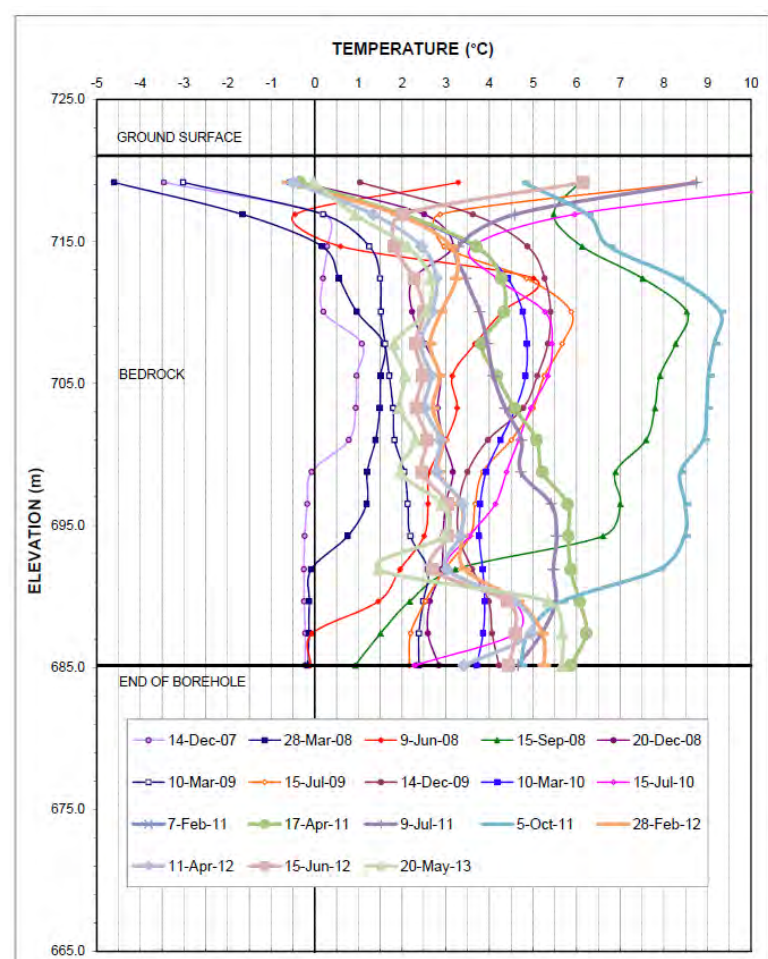
2013 Geotechnical Annual Review

Water Storage Pond Ground Temperature Sensors (1 of 3)

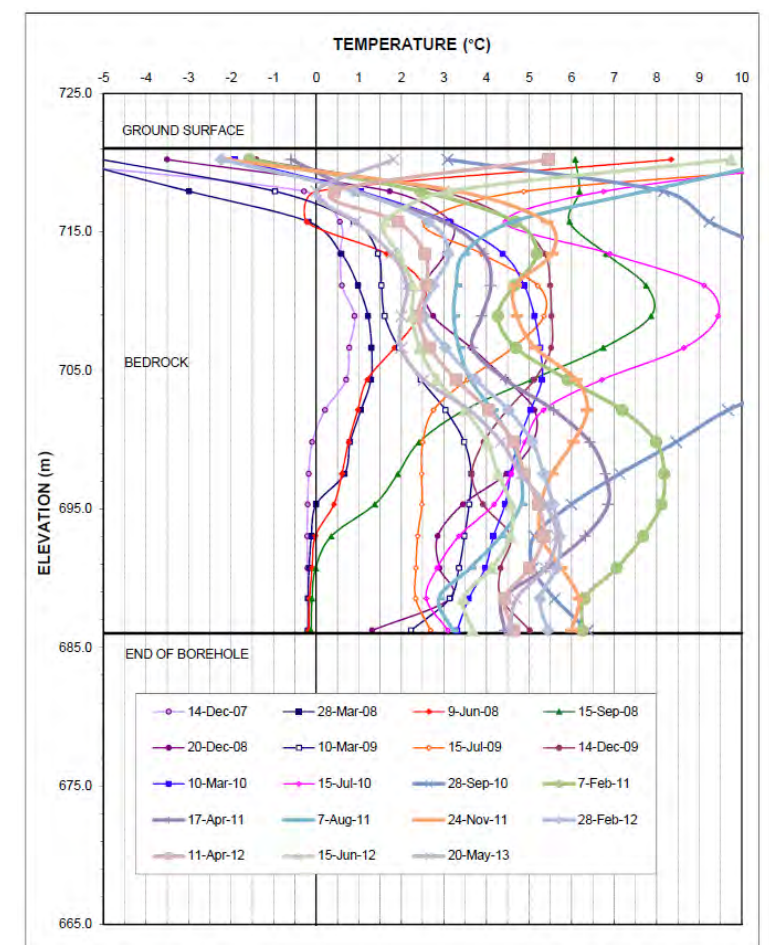
Date: October 2013
Approved: PHM
Figure: 15



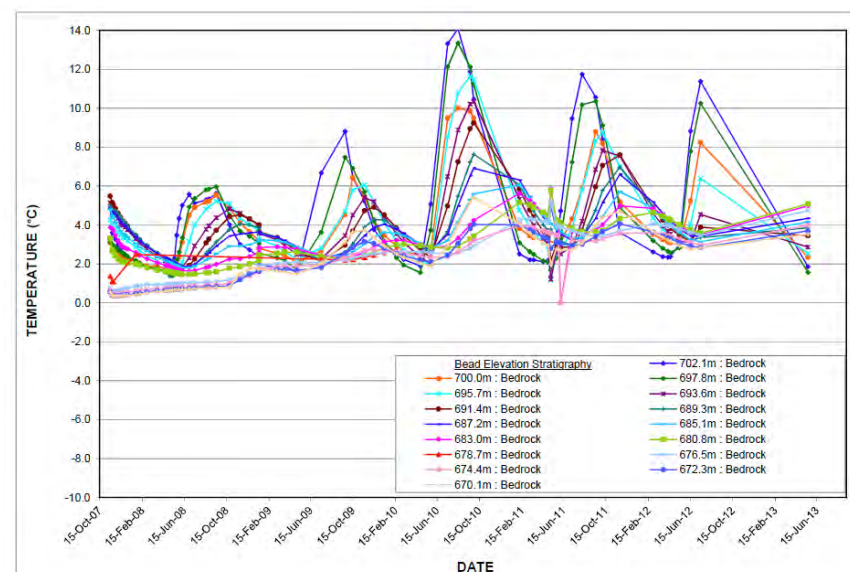
Installed: November 10, 2007
Water Storage Pond Dam
Ground Temperature Profile - WDT-4



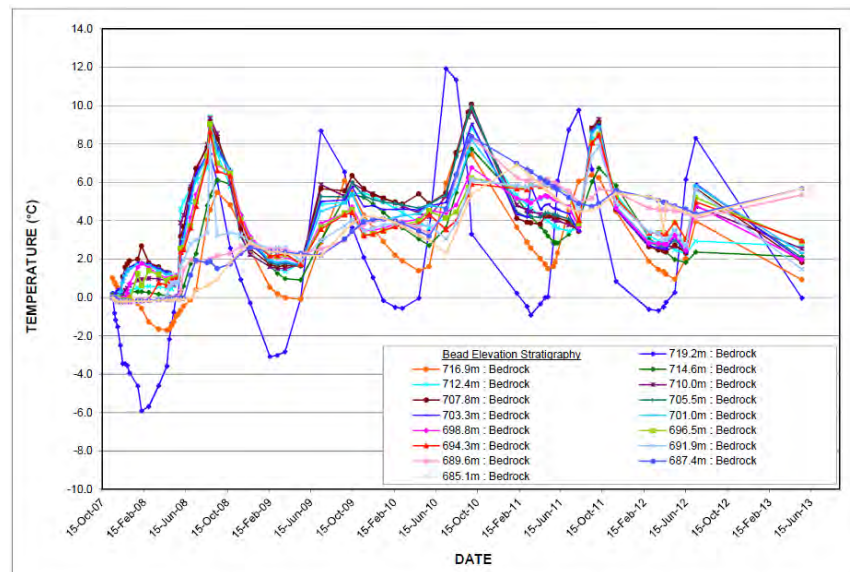
Installed: November 13, 2007
Water Storage Pond Dam
Ground Temperature Profile - WDT-5



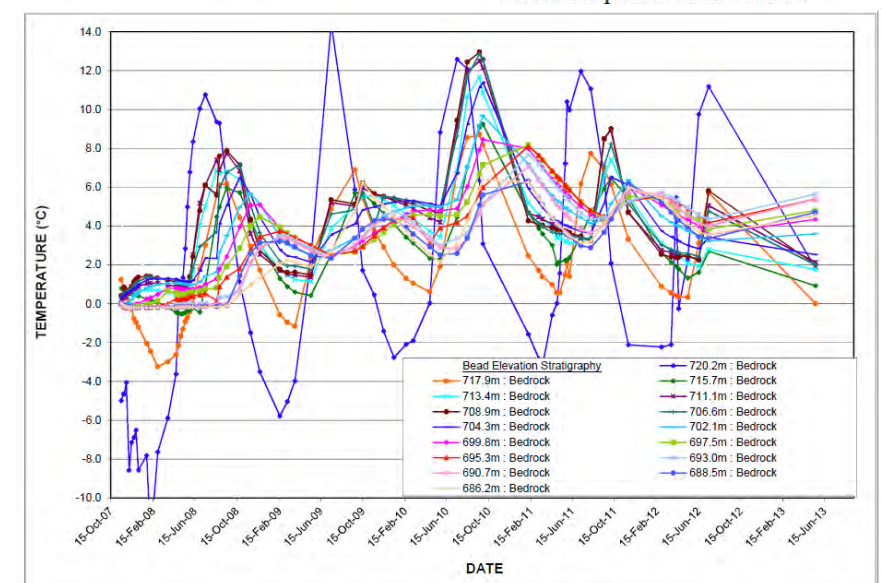
Installed: November 13, 2007
Water Storage Pond Dam
Ground Temperature Profile - WDT-6



Installed: November 10, 2007
Water Storage Pond Dam
Ground Temperature Profile - WDT-4



Installed: November 13, 2007
Water Storage Pond Dam
Ground Temperature Profile - WDT-5



Installed: November 13, 2007
Water Storage Pond Dam
Ground Temperature Profile - WDT-6



Job No: 1CM002.012.005
Filename: Minto 2013 Fall Inspection.ppt

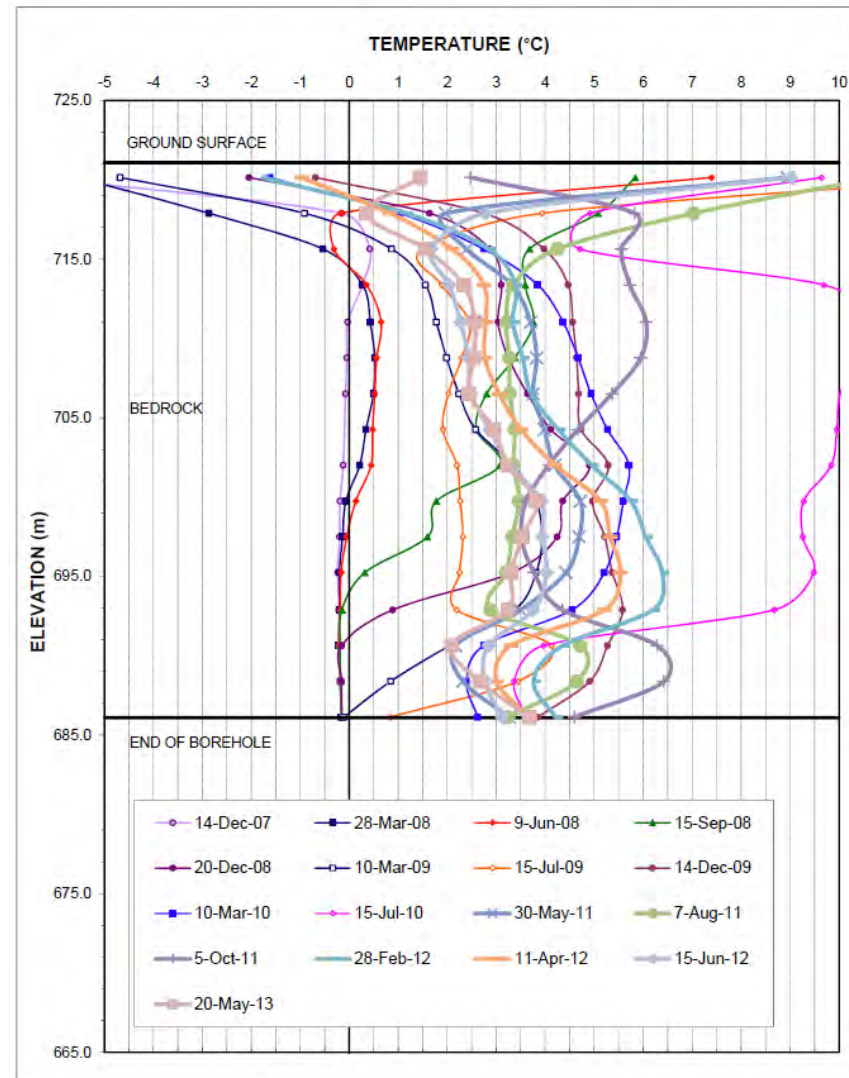


Minto Mine

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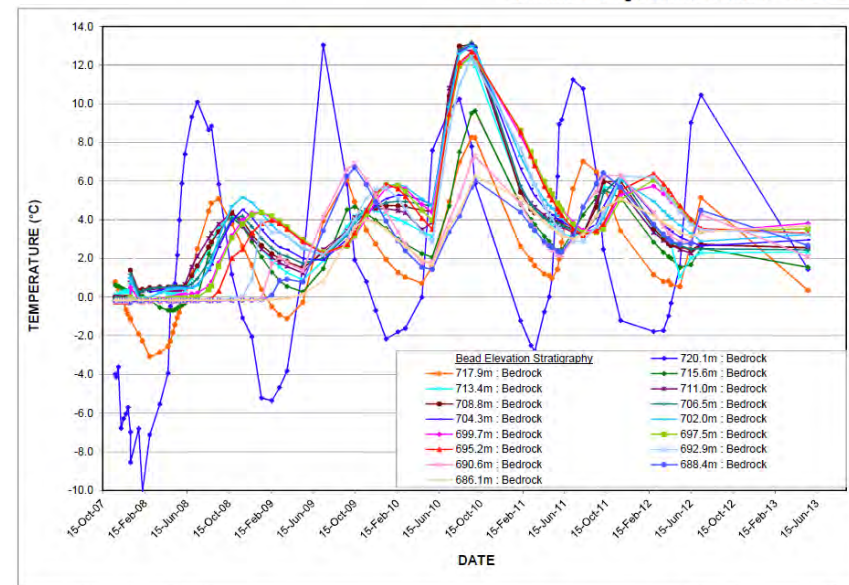
Water Storage Pond Ground Temperature Sensors (2 of 3)

Date: October 2013
Approved: PHM
Figure: 16



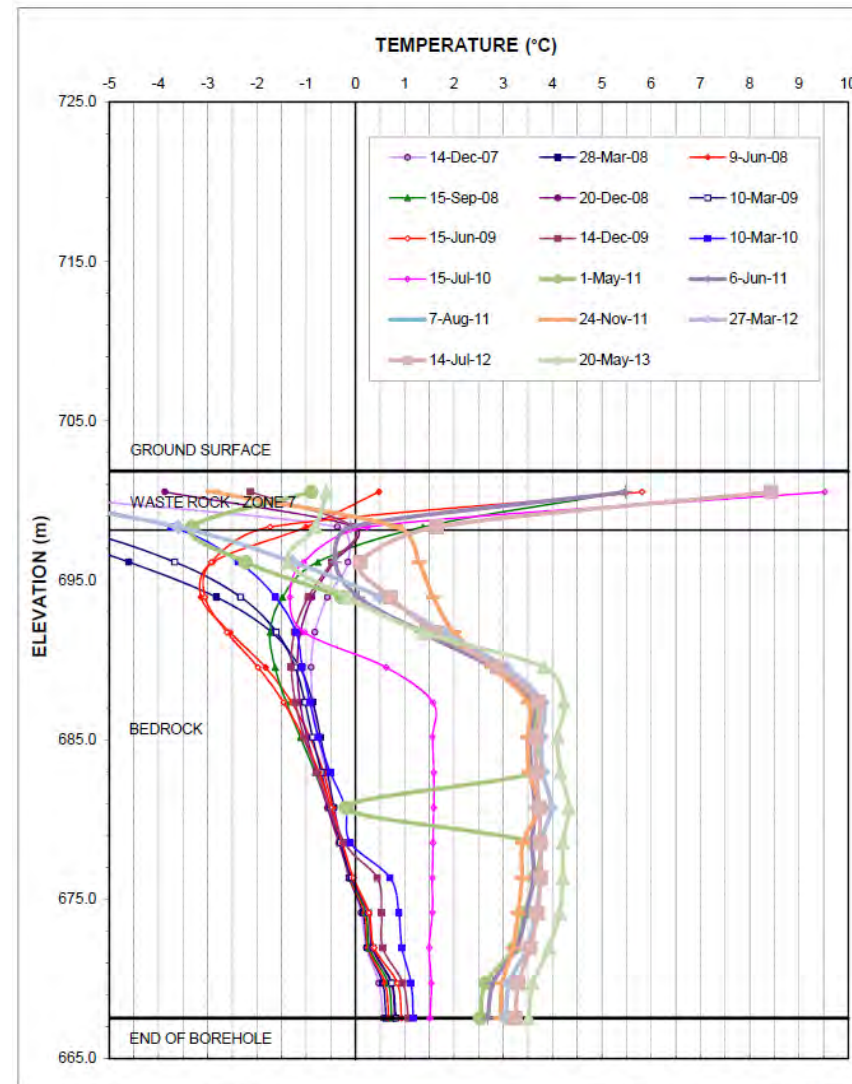
Installed: November 13, 2007

Water Storage Pond Dam
Ground Temperature Profile - WDT-7



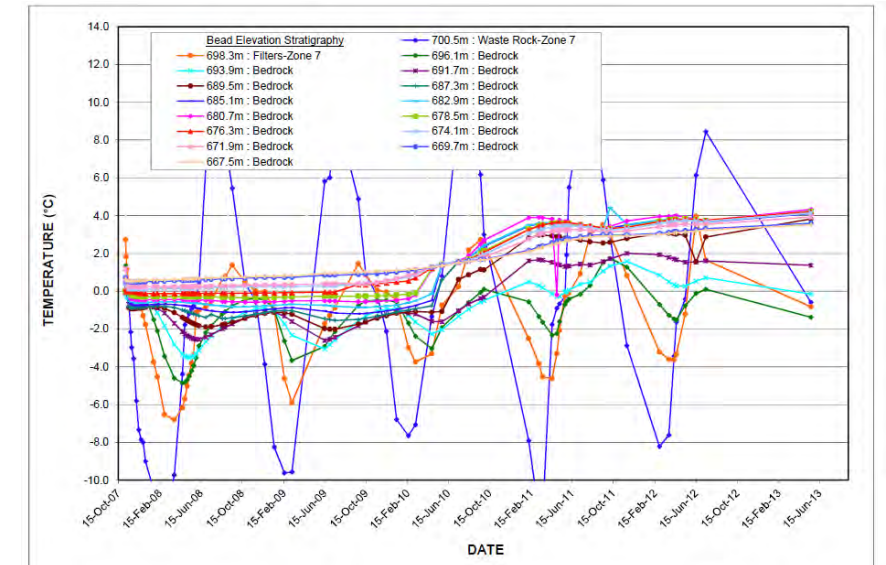
Installed: November 13, 2007

Water Storage Pond Dam
Ground Temperature Profile - WDT-7



Installed: November 5, 2007

Water Storage Pond Dam
Ground Temperature Profile - WDT-8



Installed: November 5, 2007

Water Storage Pond Dam
Ground Temperature Profile - WDT-8



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Water Storage Pond Ground
Temperature Sensors (3 of 3)

Job No: 1CM002.012.005

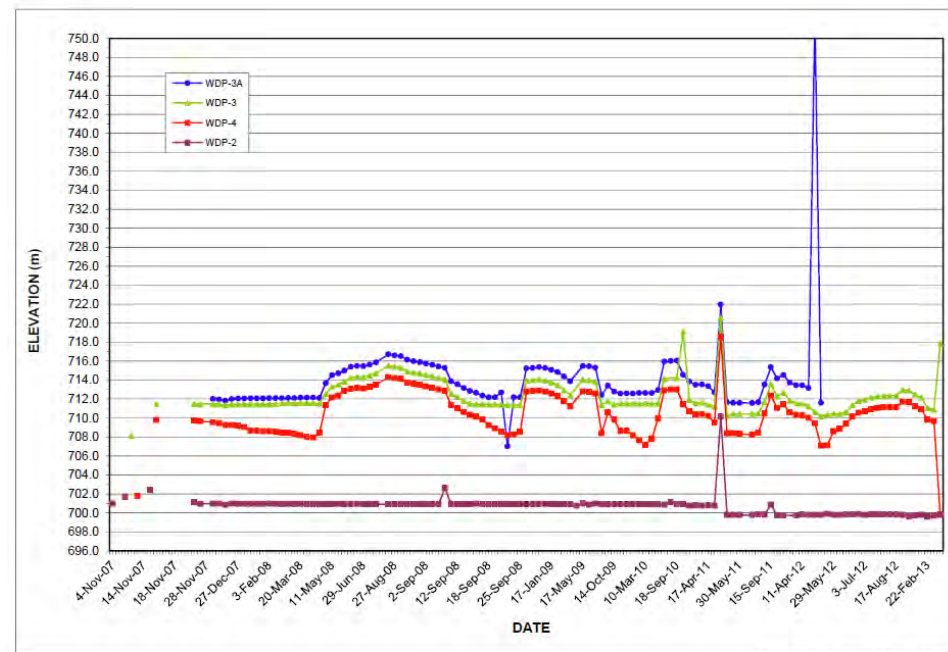
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Minto Mine

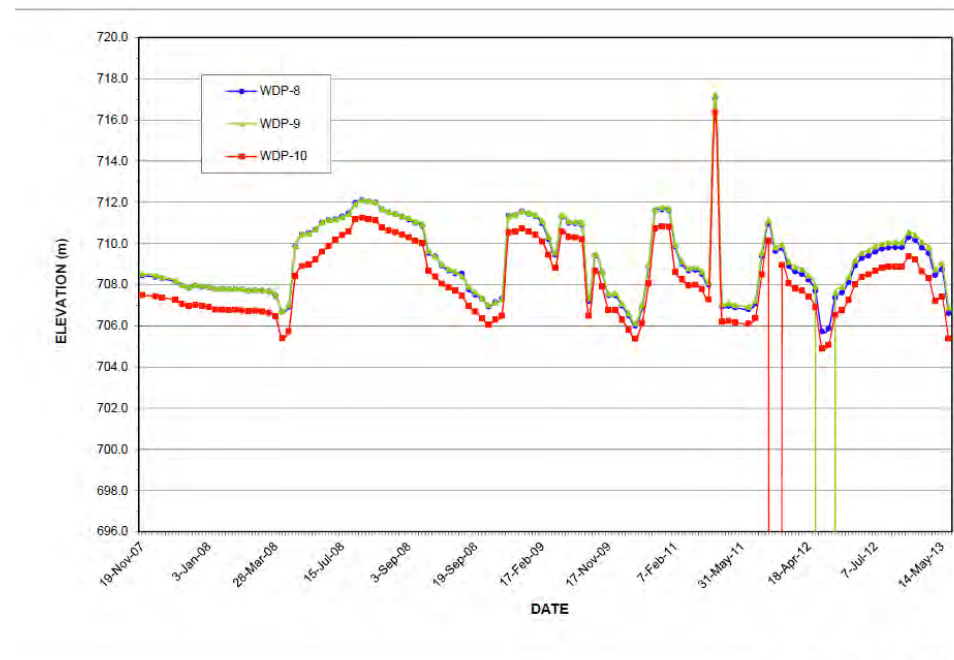
Date:
October 2013

Approved:
PHM

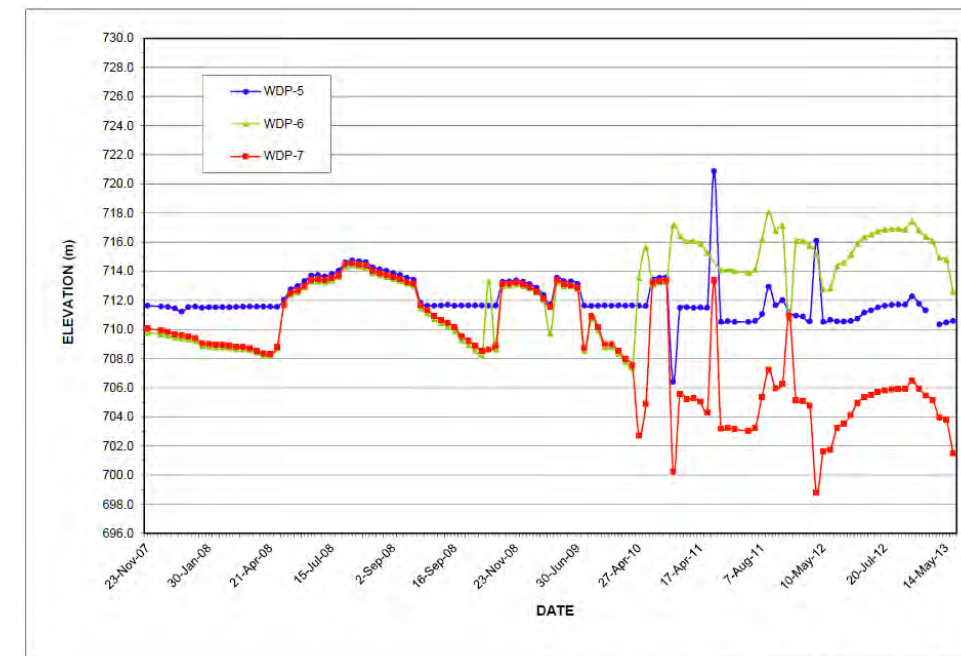
Figure:
17



Water Storage Pond Dam
Instrument Water Elevation - WDP-3A, WDP-3, WDP-4, WDP-2



Water Storage Pond Dam
Instrument Water Elevation - WDP-8, WDP-9, WDP-10



Water Storage Pond Dam
Instrument Water Elevation - WDP-5, WDP-6, WDP-7