Soil and Materials Engineers, Inc.
9375 Chillicothe Road
Kirtland, OH 44094-8501

tel (440) 256-6500
fax (440) 256-6507

www.sme-usa.com

Kenneth W. Kramer, PE
Founder

Mark K. Kramer, PE
Timothy H. Bedenis, PE
Gerald M. Belian, PE
Andrew J. Emmert, CPA
Chuck A. Gemayel, PE
James M. Harless, PhD, CHMM
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Cheryl A. Kehres-Dietrich, CGWP
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Anthony B. Thomas, PE
Keith D. Toro, PE
John C. Zarzecki, CET, CDT, NDE

August 30, 2013

Mr. Jason Wise, P.E.
ODOT District 12 Geotechnical Engineer
Ohio Department of Transportation
5500 Transportation Boulevard
Garfield Heights, Ohio 44125-5396

Re: August 26, 2013 Readings
CUY-90-15.24 Slope Monitoring
PID 76117
EDP Project No. 062943.00

Dear Mr. Wise:

The August monthly instrument readings for the I-90 west slope are presented in this report.

Piezometer Readings at B-05-02
There was virtually no change in total head for the month in the shallow piezometer at B-05-02. Total head continued to increase in the deep piezometer. As in the past, we have included graphs showing pore pressures since the original piezometers were installed in 2007, and since readings started on the replacement piezometers in January 2012. The rate of increase in the deep piezometer has remained virtually constant since April 2012.

Inclinometer Readings at I-010 and B-05-02
A-axis displacement at 36 to 38 feet continued to increase this month at B-05-02. From the zone plot for this shallow zone it appears that the rate of increase is slowing. The zone plots show no change in the two deeper zones.

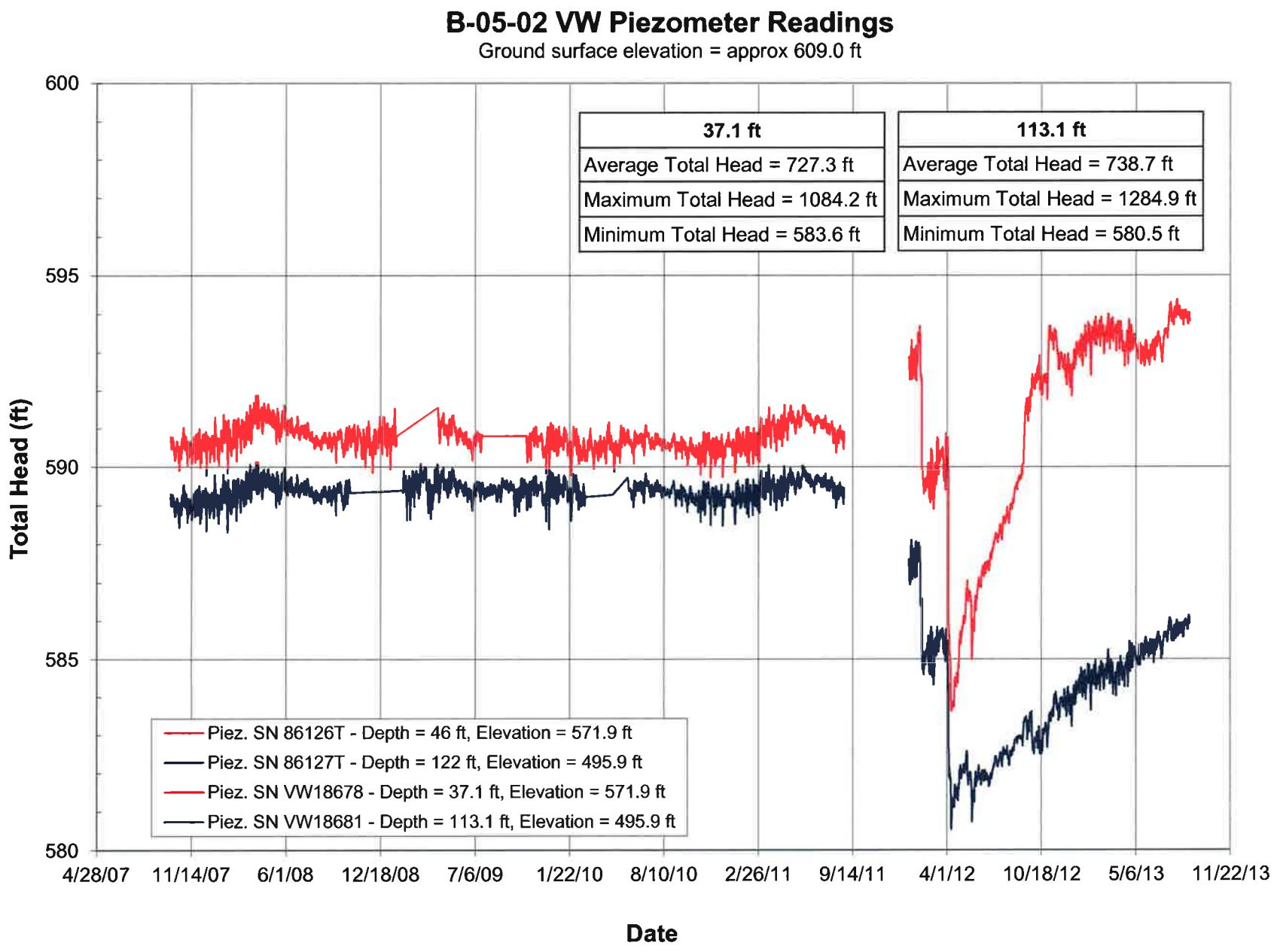
Inclinometer readings at I-010 show no change this month.

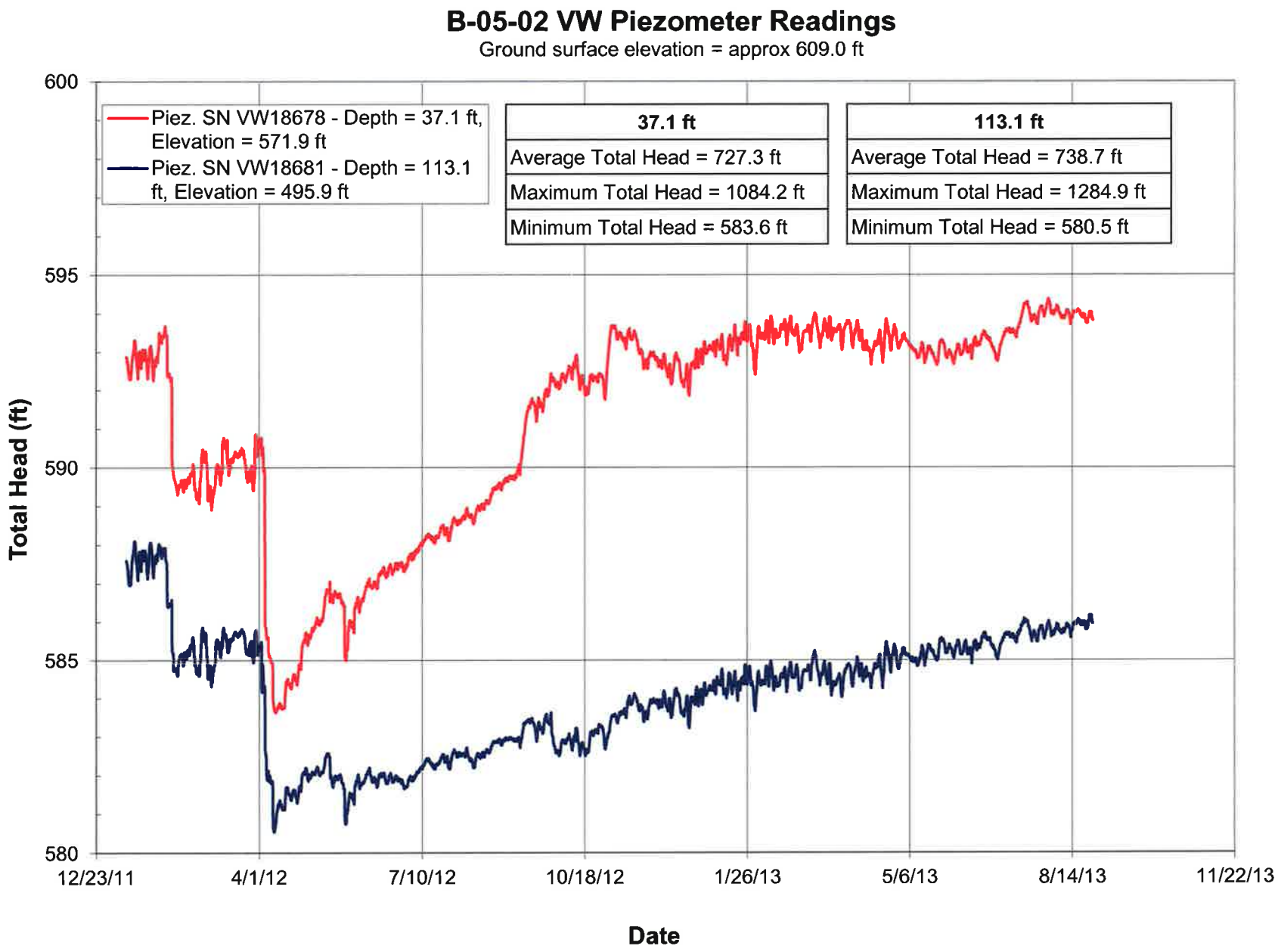
Very truly yours,

Soil and Materials Engineers, Inc.

Alan J. Esser, P.E., D.GE
Principal Consultant

Attachments


B-05-02 VW Piezometer Readings
Ground surface elevation = approx 609.0 ft
37.1 ft
Average Total Head = 727.3 ft
Maximum Total Head = 1084.2 ft
Minimum Total Head = 583.6 ft
113.1 ft
Average Total Head = 738.7 ft
Maximum Total Head = 1284.9 ft
Minimum Total Head = 580.5 ft
Piez. SN 86126T - Depth = 46 ft, Elevation = 571.9 ft
Piez. SN 86127T - Depth = 122 ft, Elevation = 495.9 ft
Piez. SN VW18678 - Depth = 37.1 ft, Elevation = 571.9 ft
Piez. SN VW18681 - Depth = 113.1 ft, Elevation = 495.9 ft
Total Head (ft)
600
595
590
585
580
4/28/07
11/14/07
6/1/08
12/18/08
7/6/09
1/22/10
8/10/10
2/26/11
9/14/11
4/1/12
10/18/12
5/6/13
11/22/13
Date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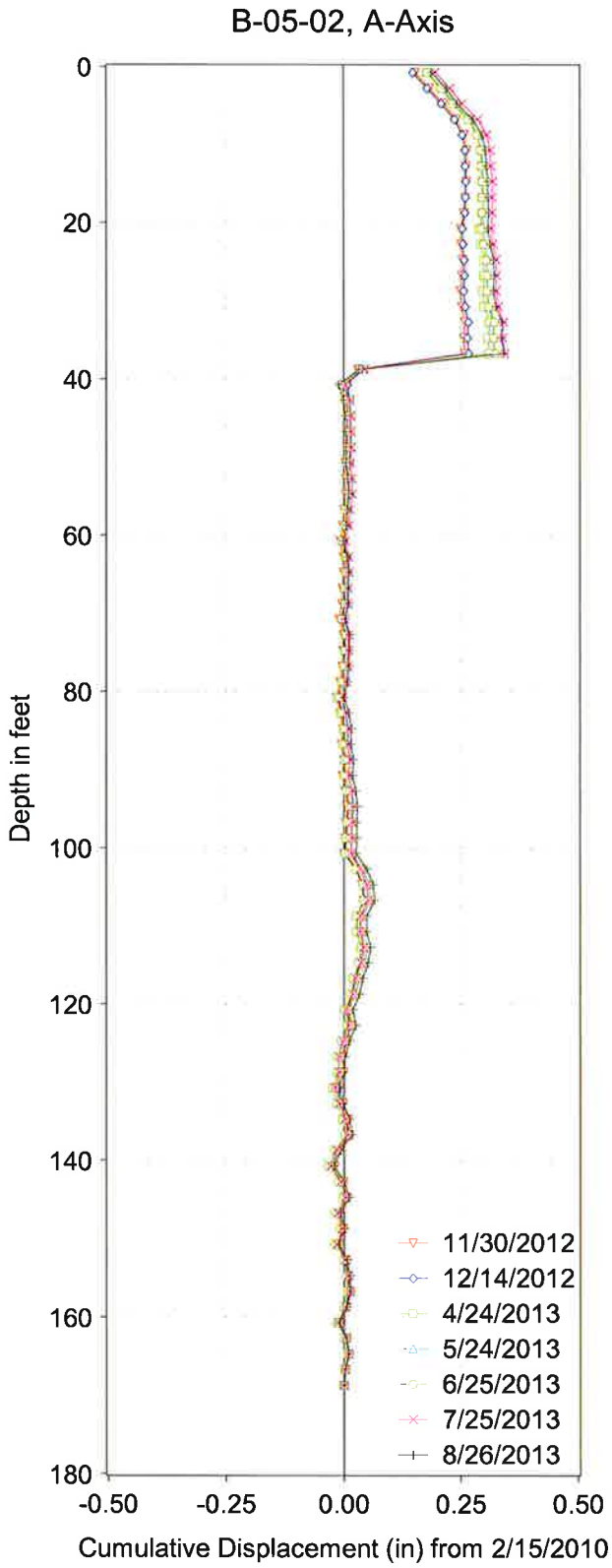
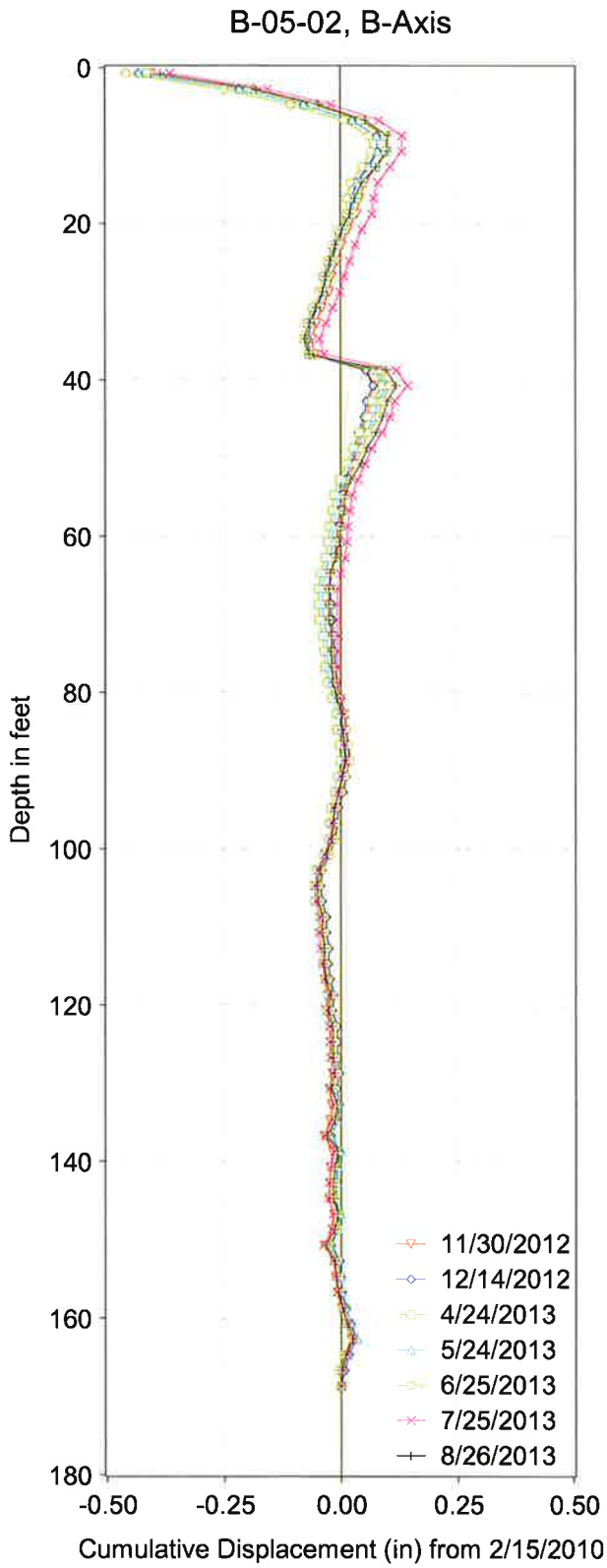
Minimum Total Head = 580.5 ft
Total Head (ft)
600
595
590
585
580
12/23/11
4/1/12
7/10/12
10/18/12
1/26/13
5/6/13
8/14/13
11/22/13
Date





CUY-90-14.92
PID 76117
SME Project#: 062943.00
Reading Date: 8/26/2013

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CUY-90-15.24
PID 76117
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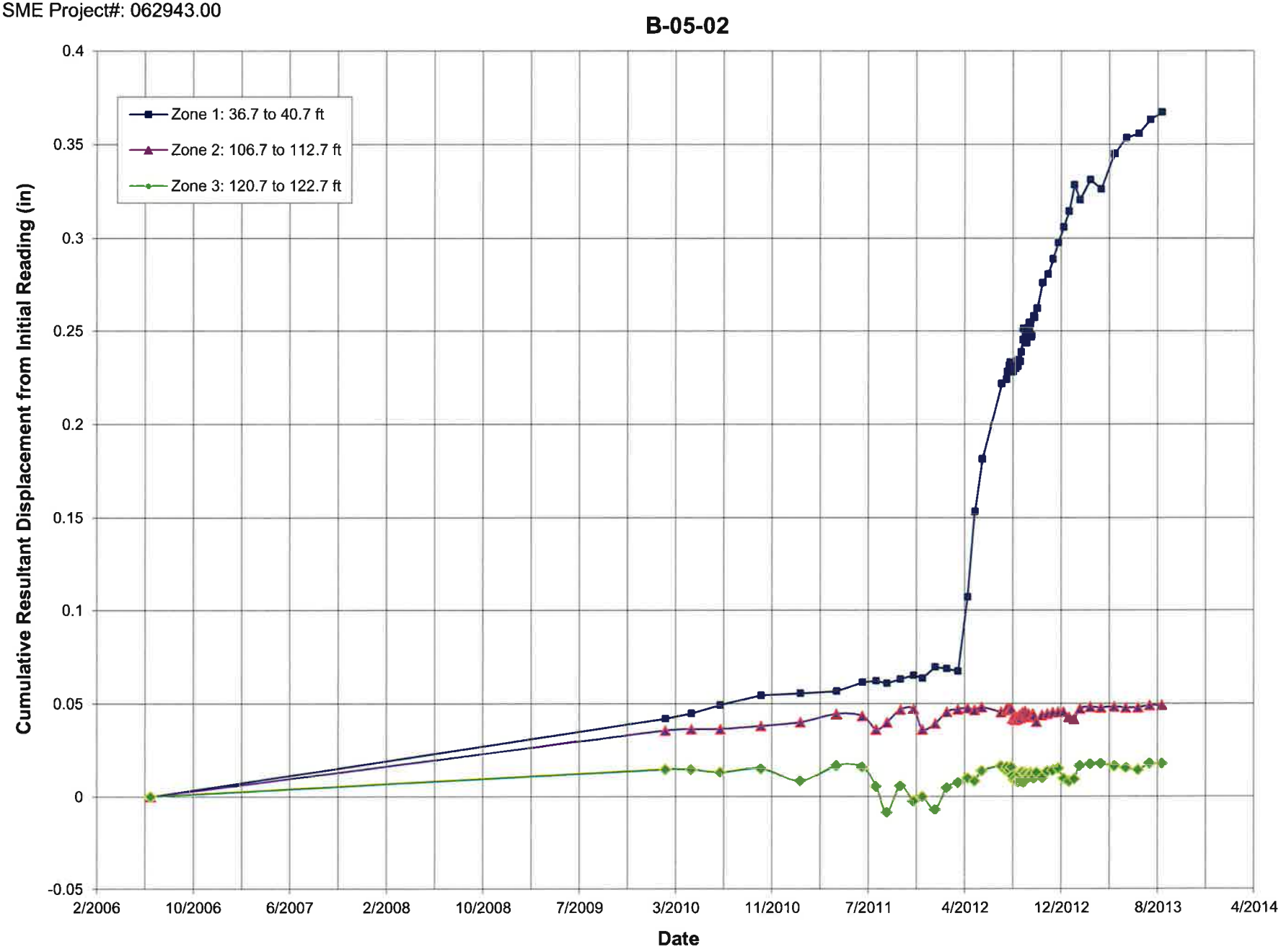

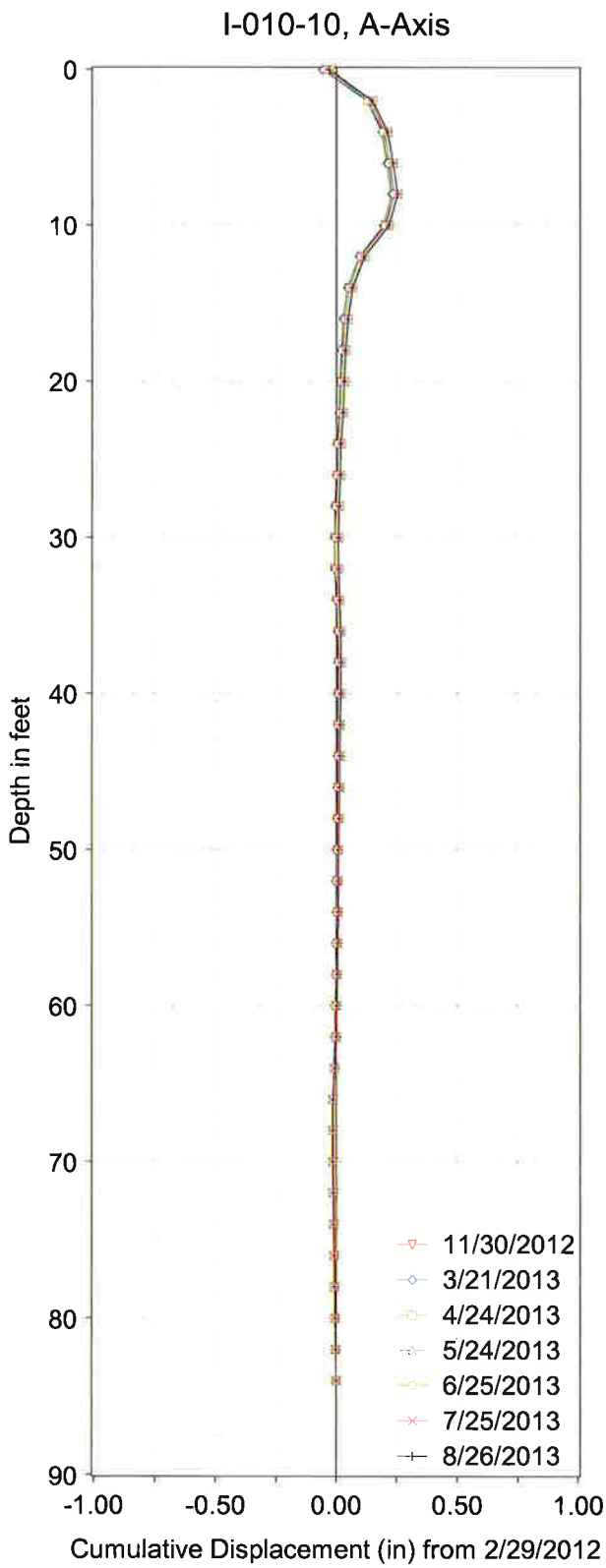

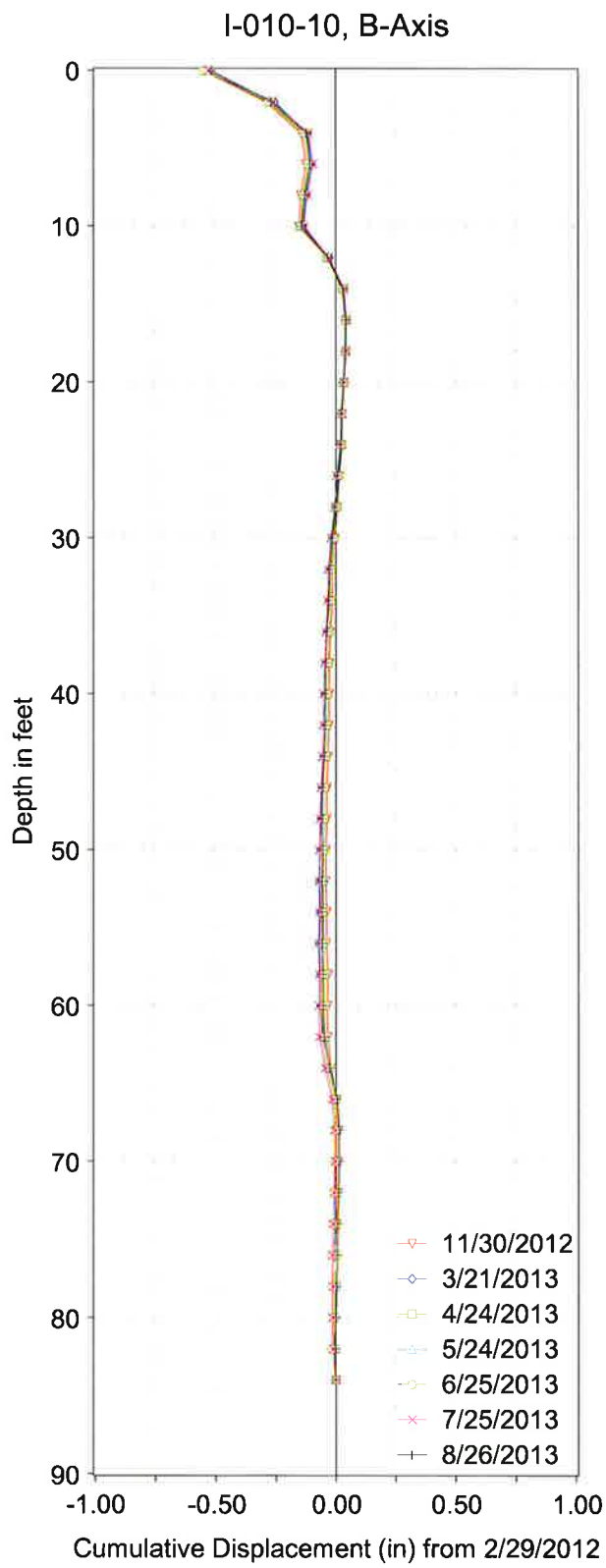

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B-05-02 VW Piezometer Readings

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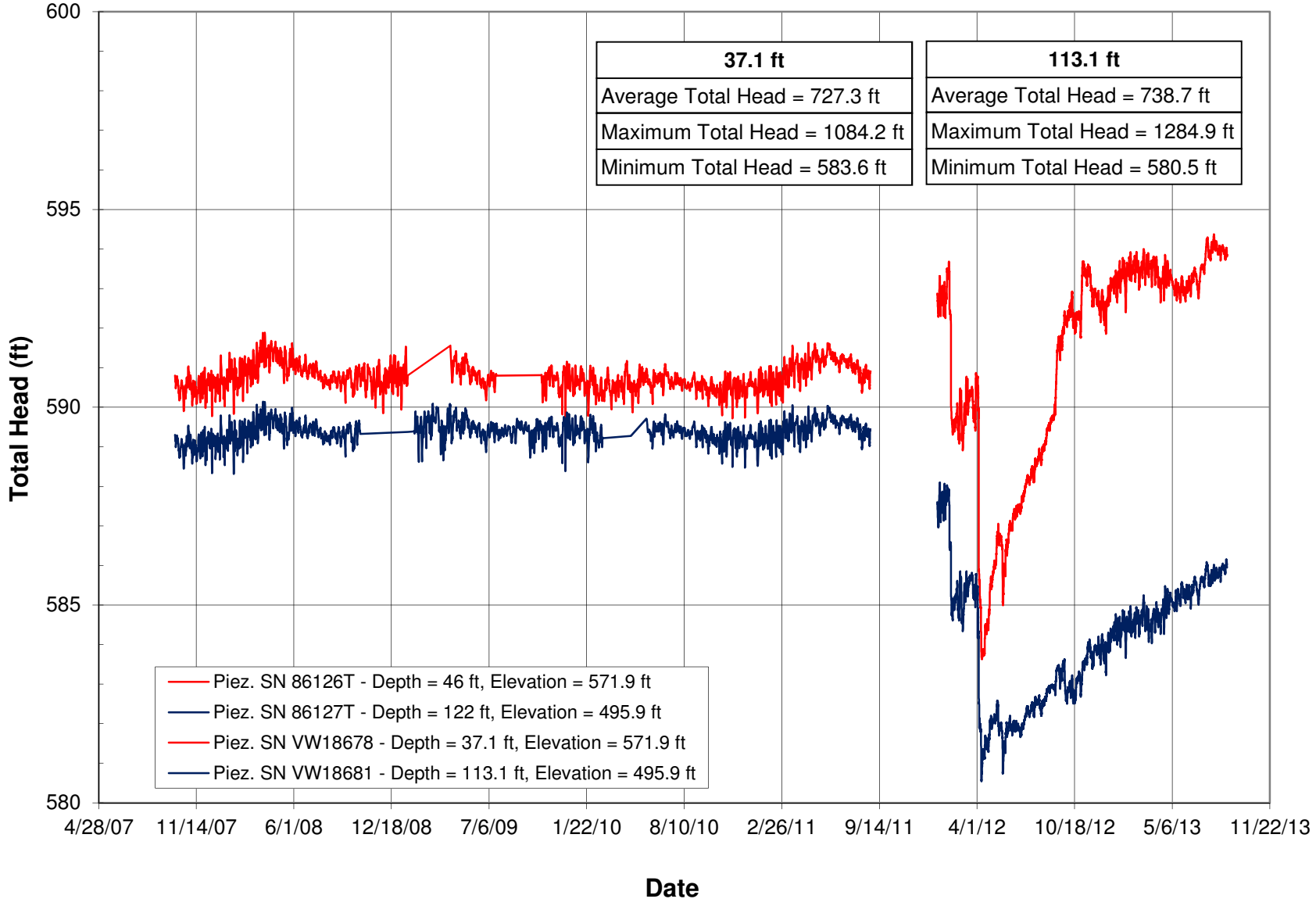

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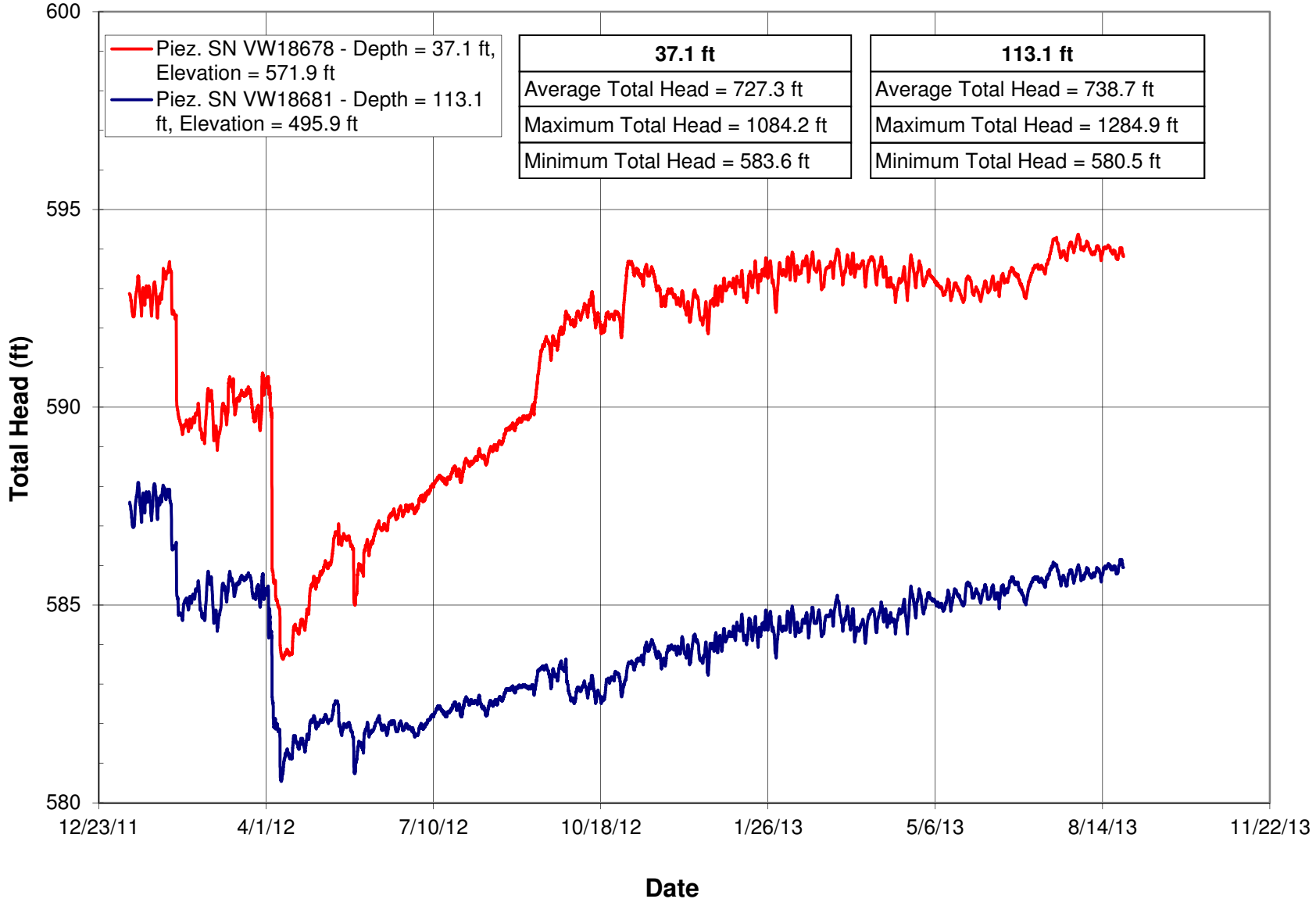

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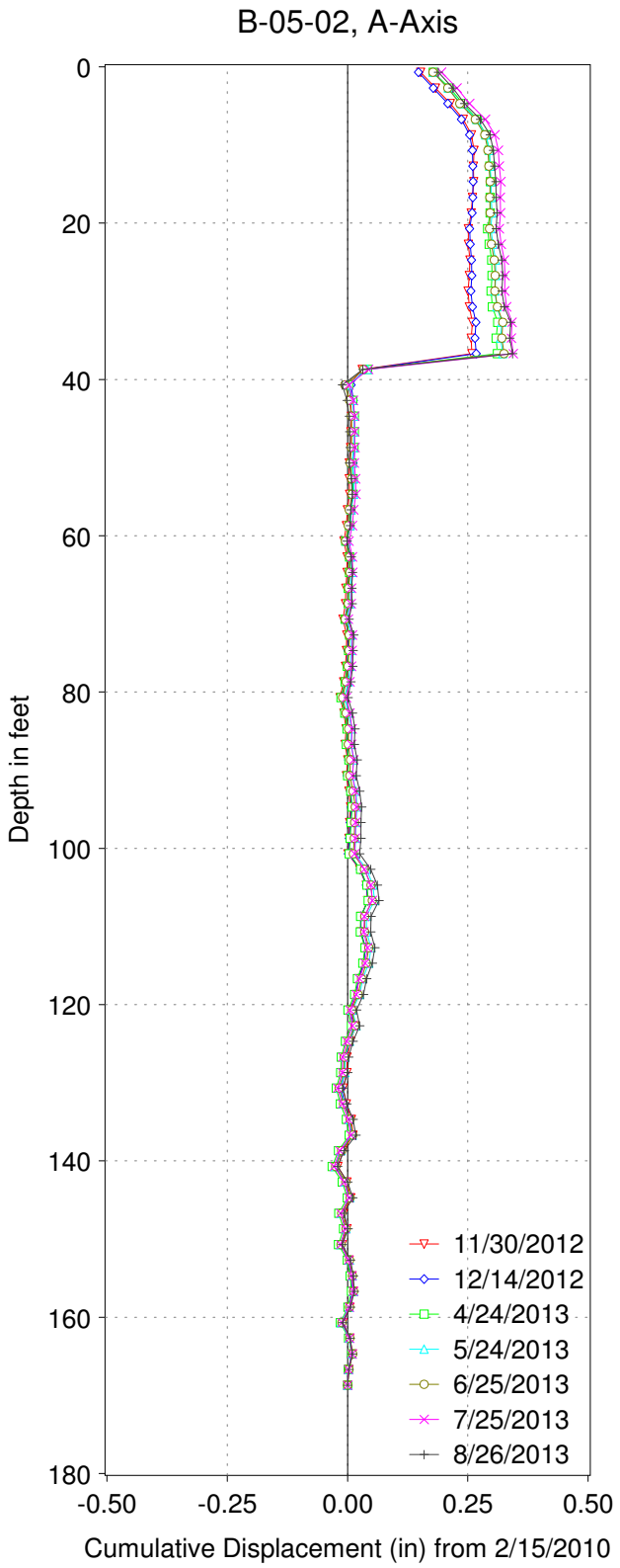

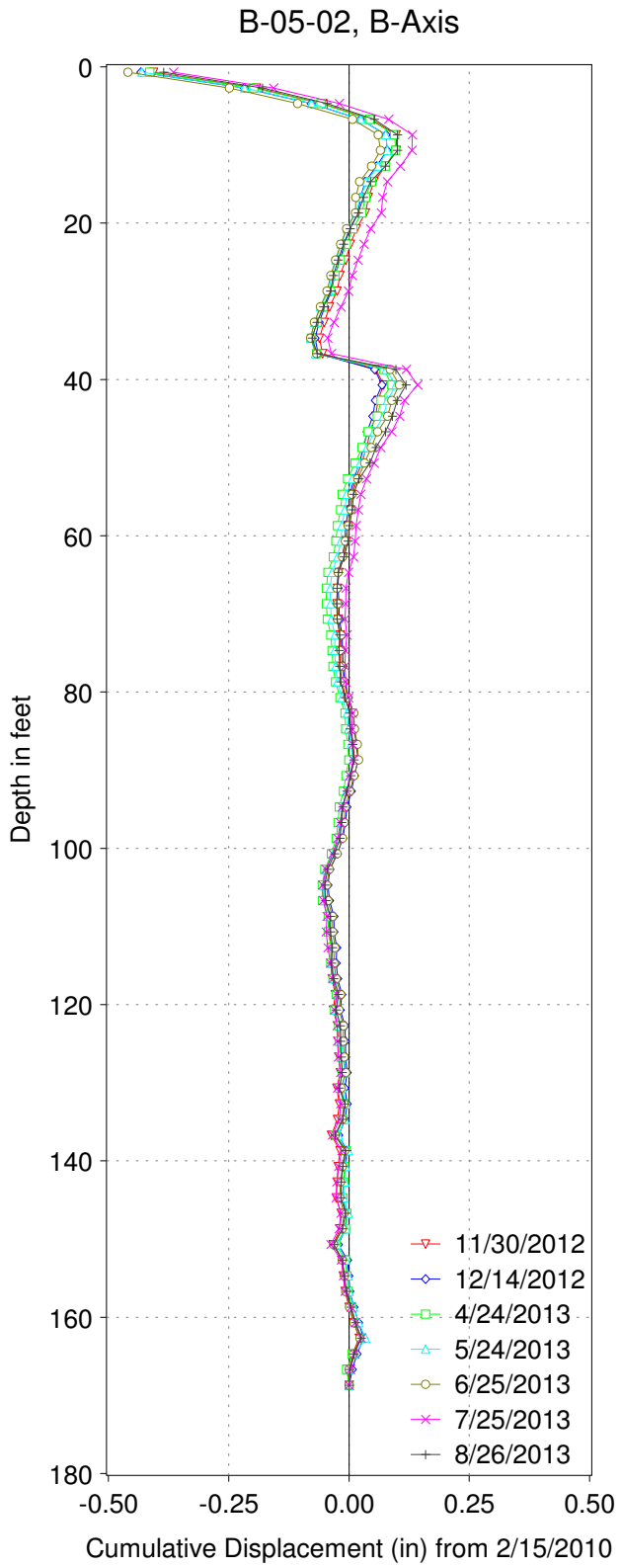

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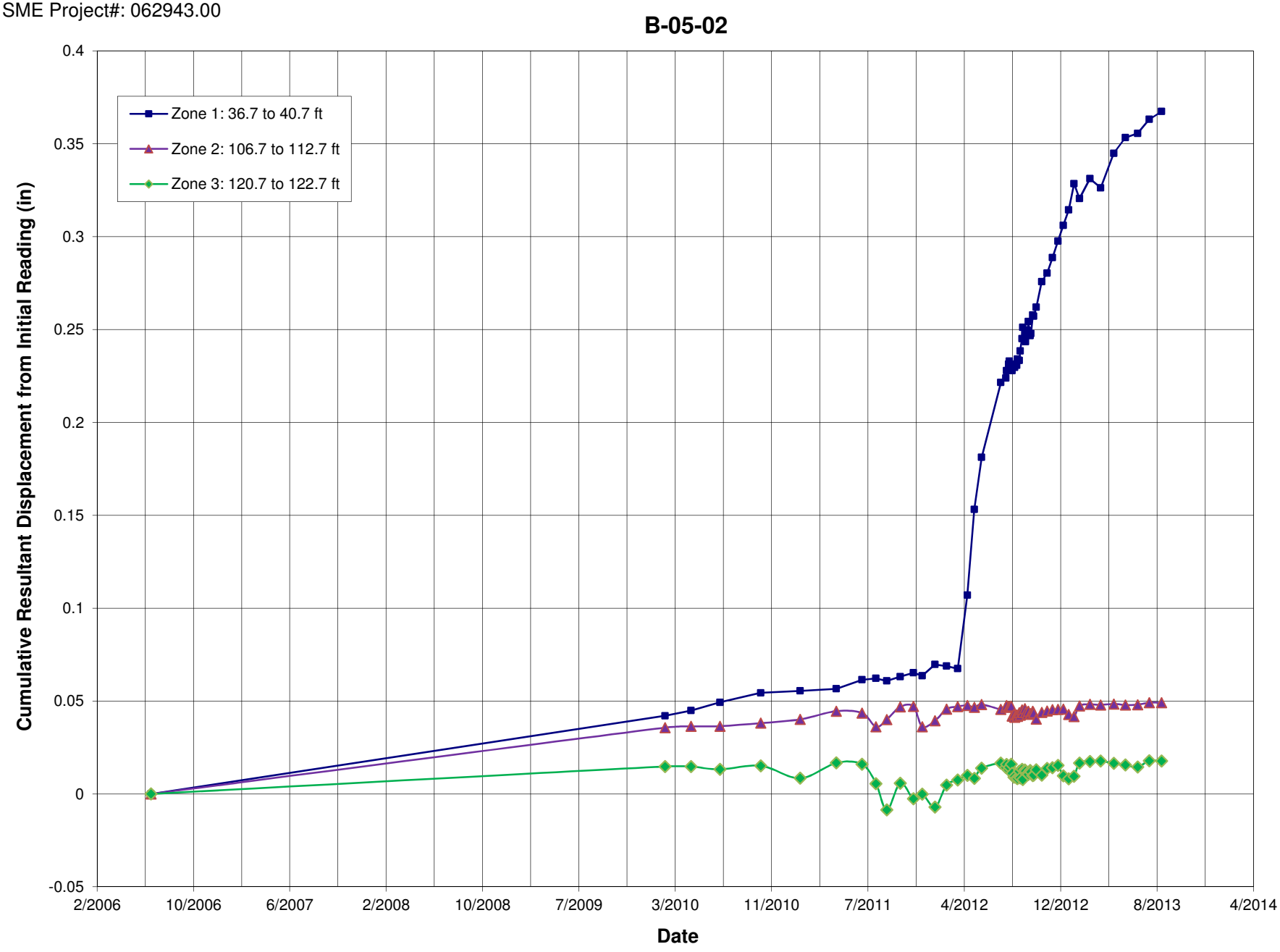

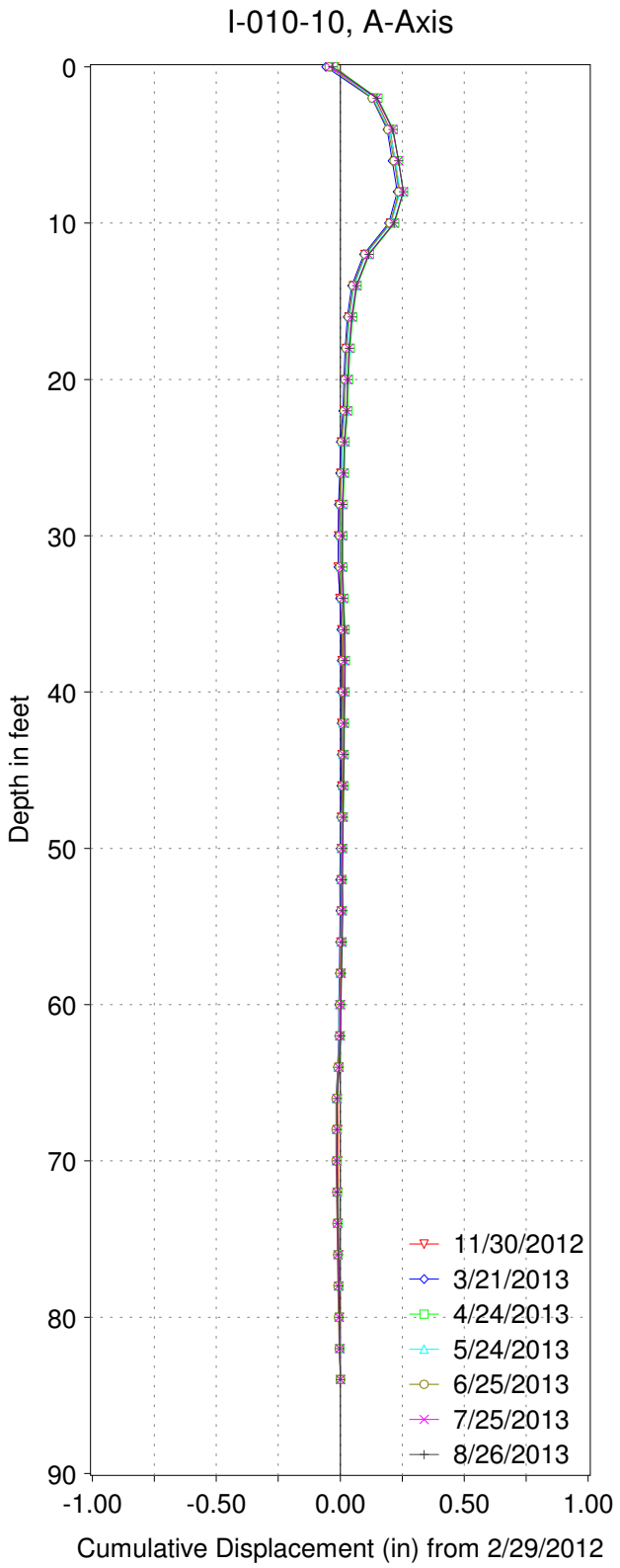

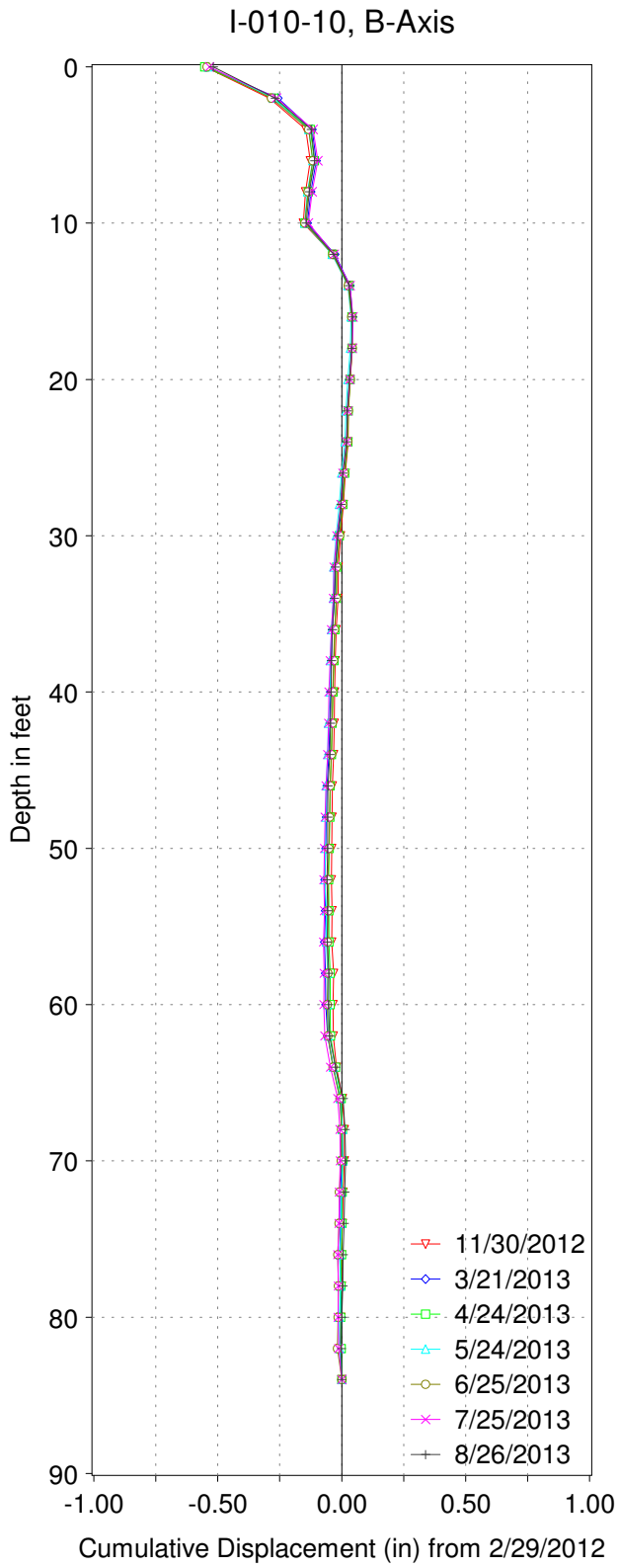

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