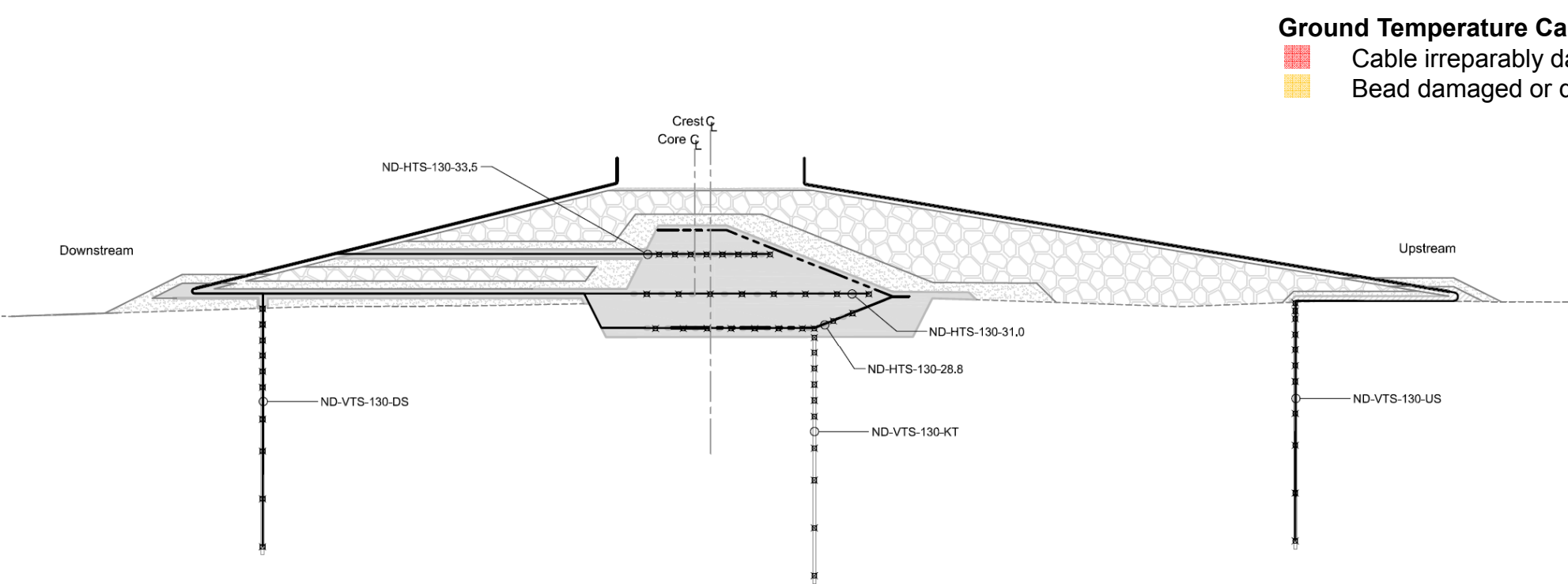
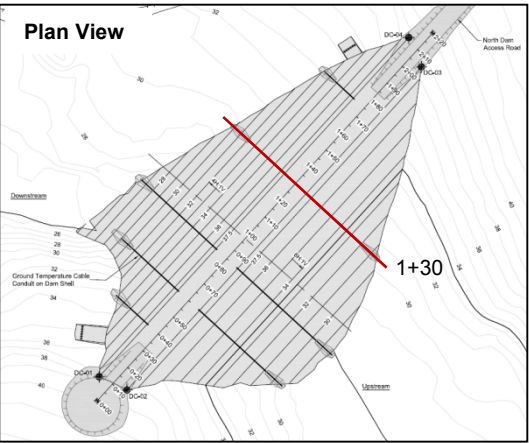
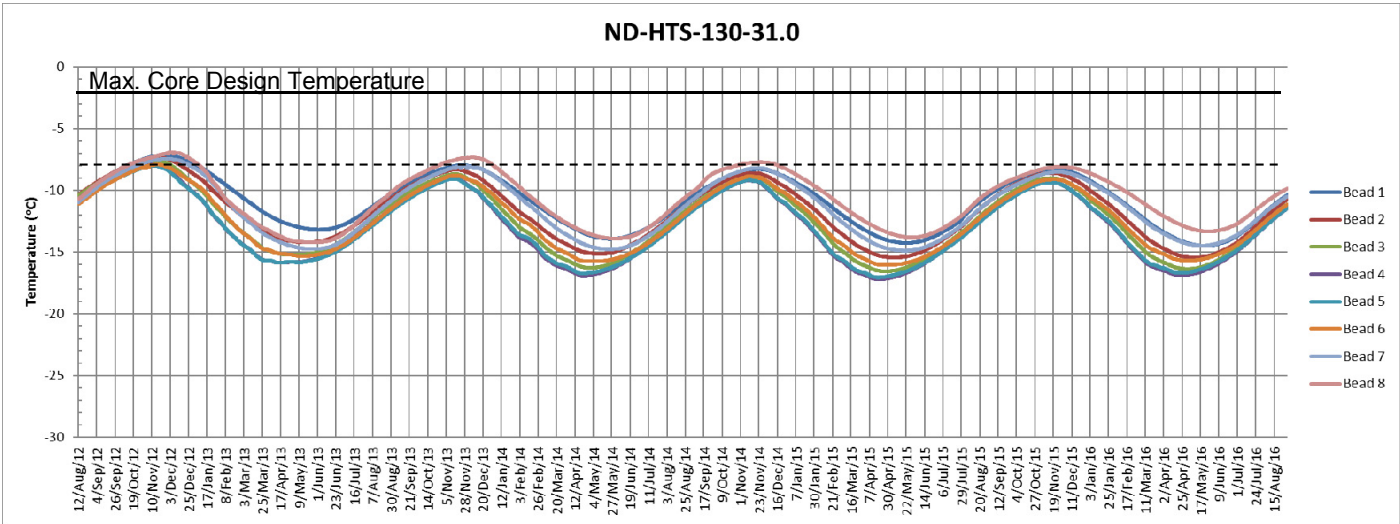
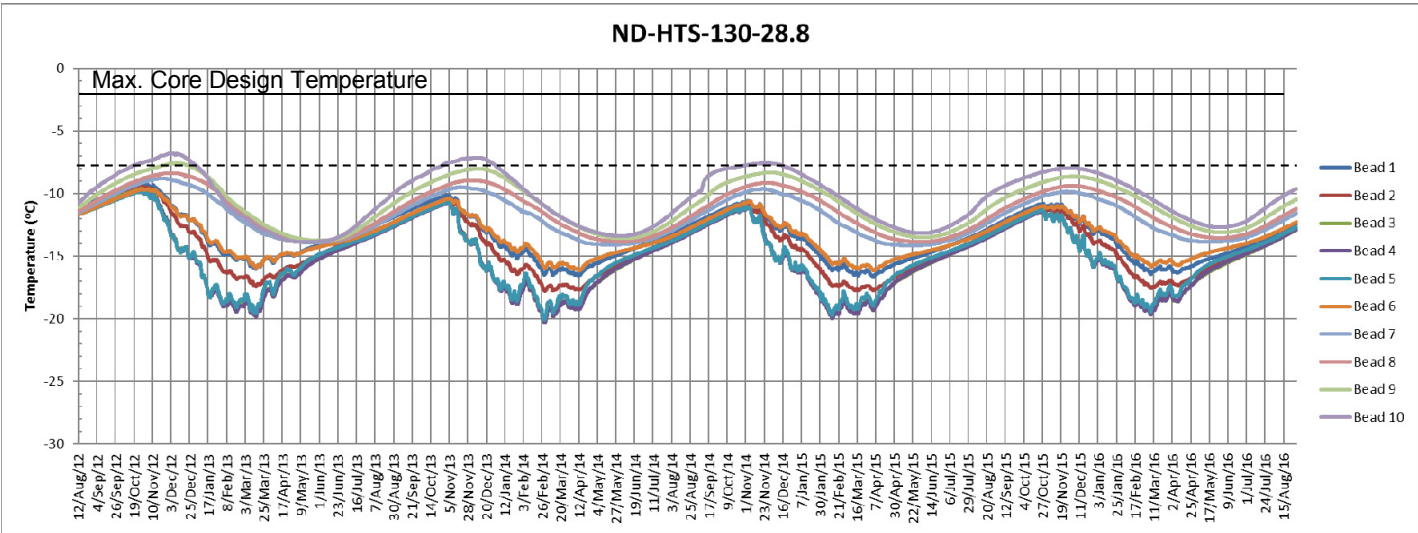
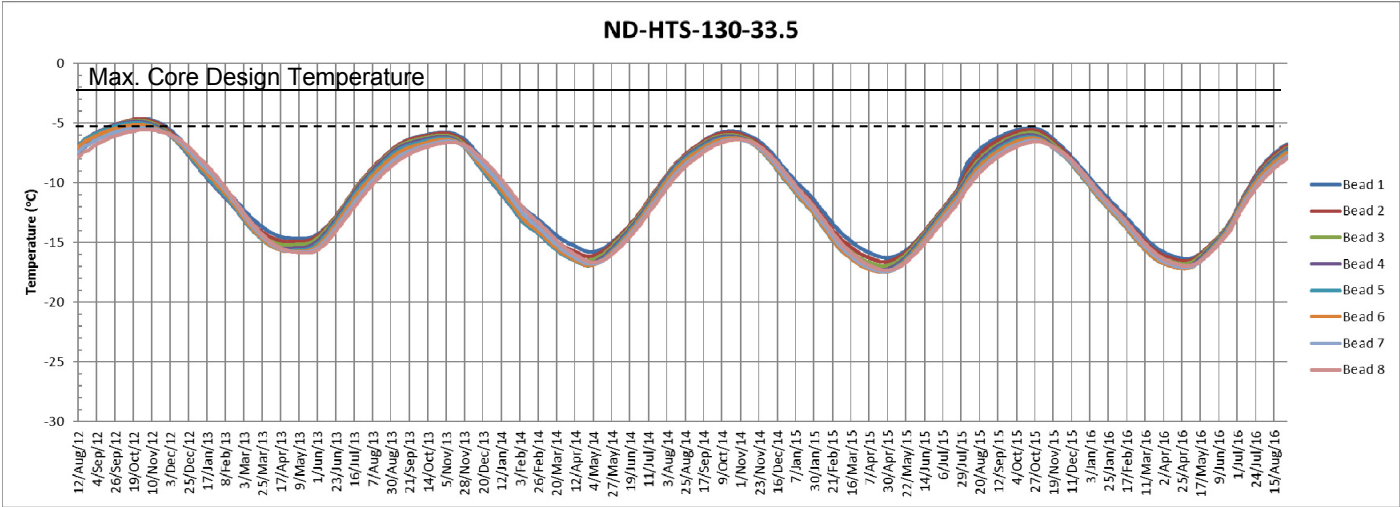




Ground Temperature Cable Status:

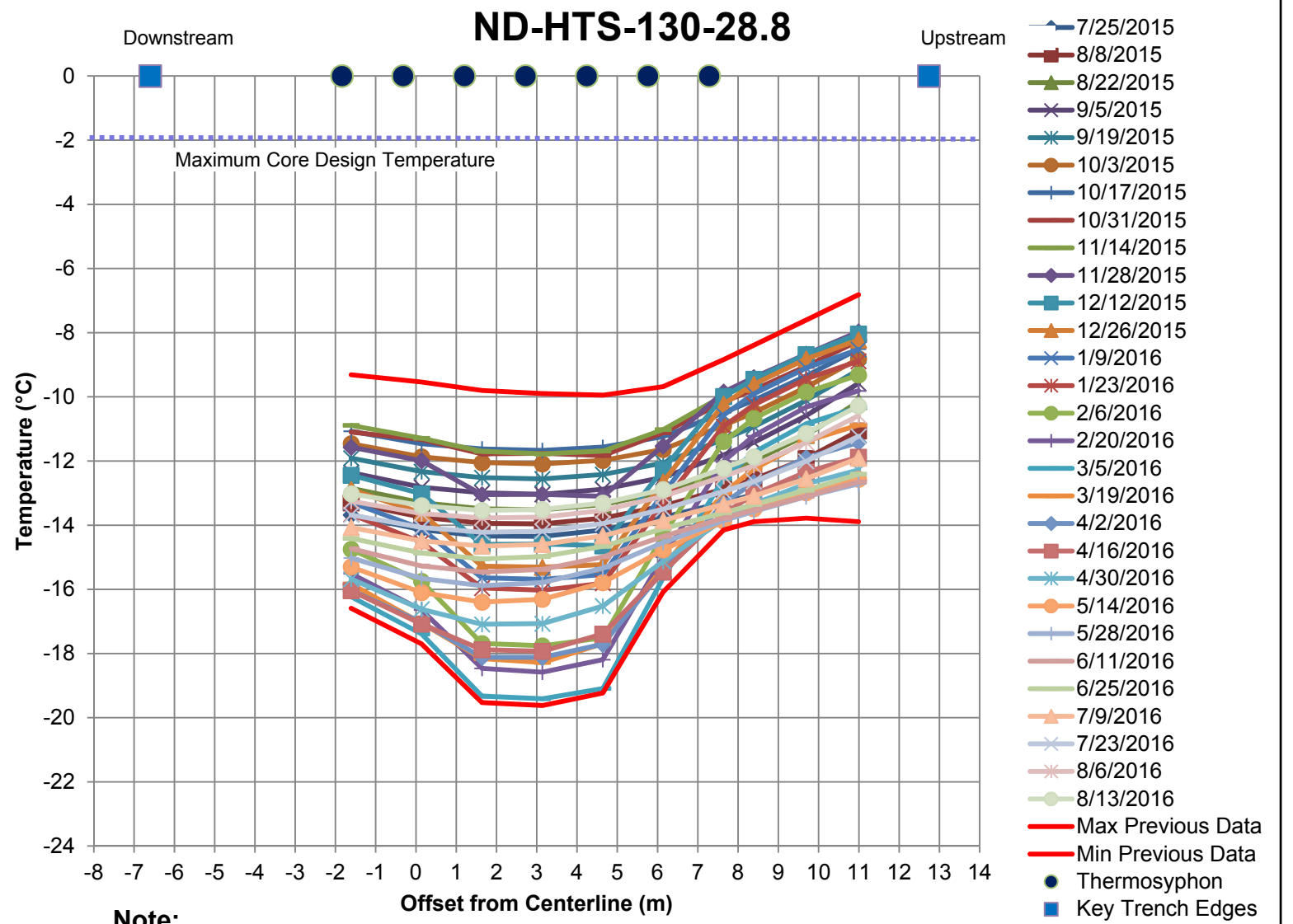
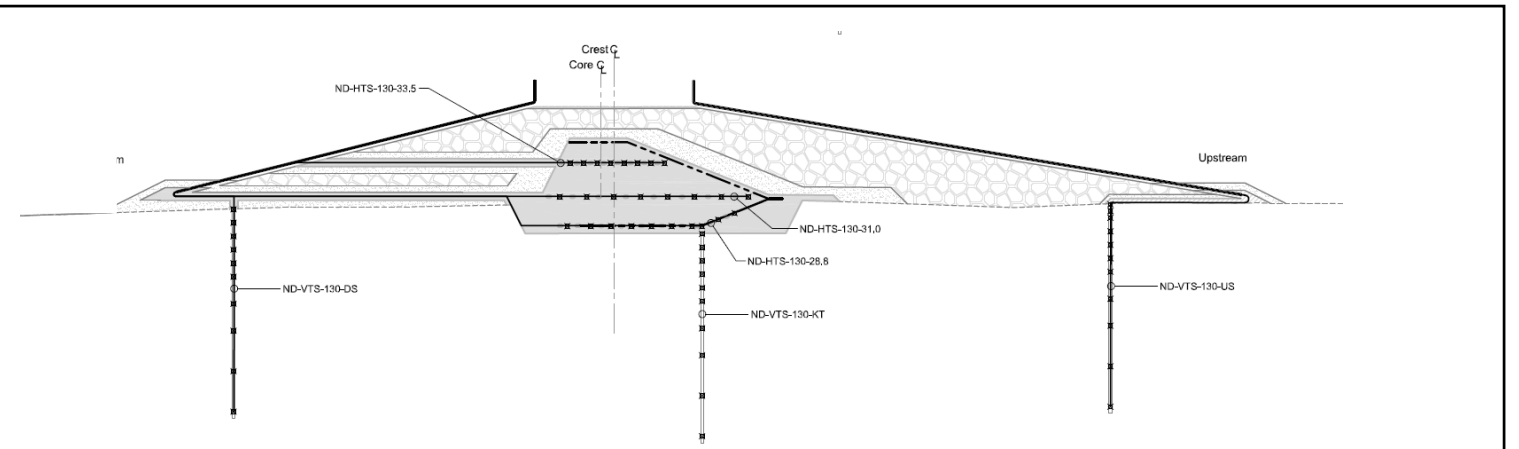
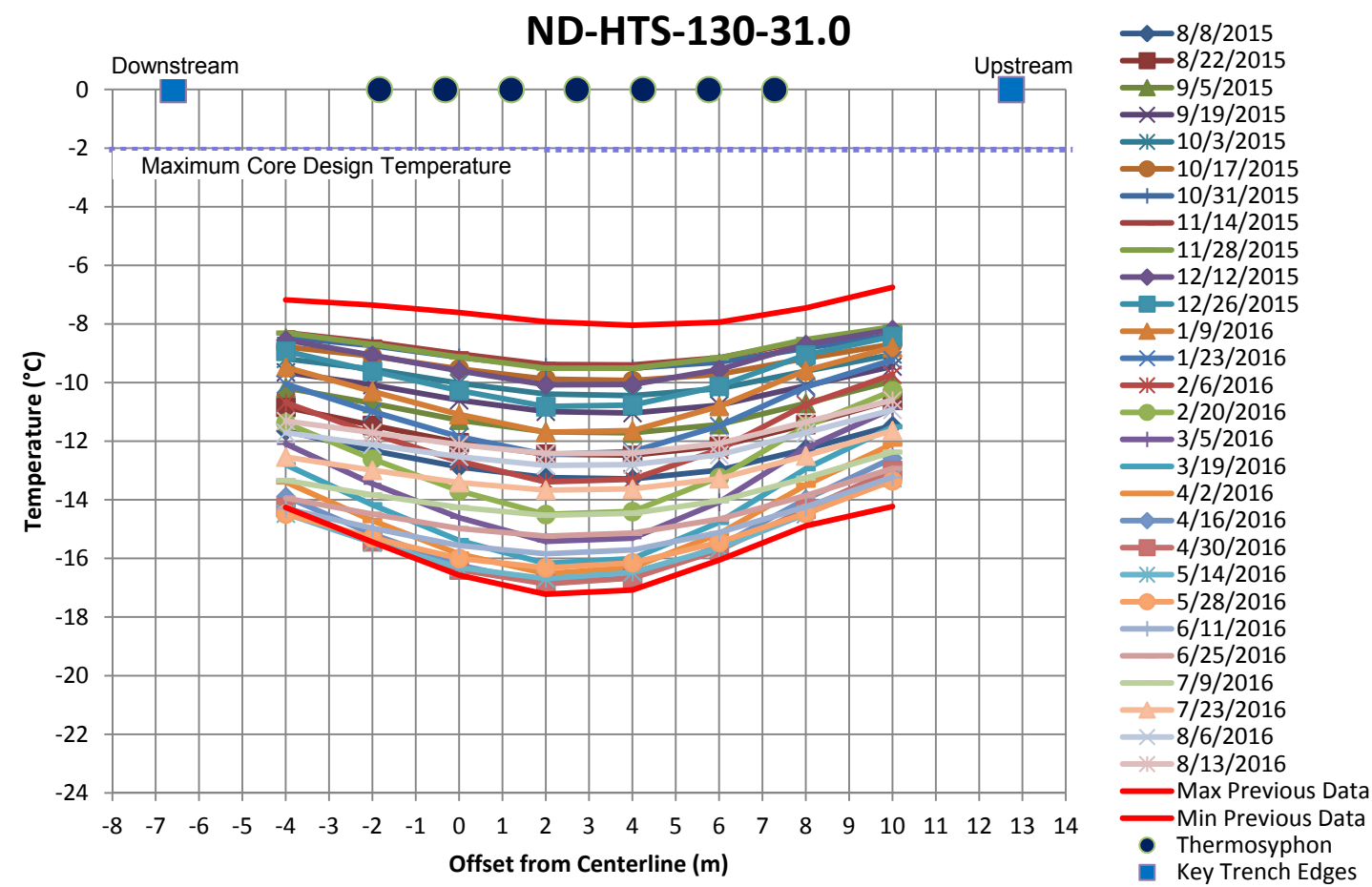
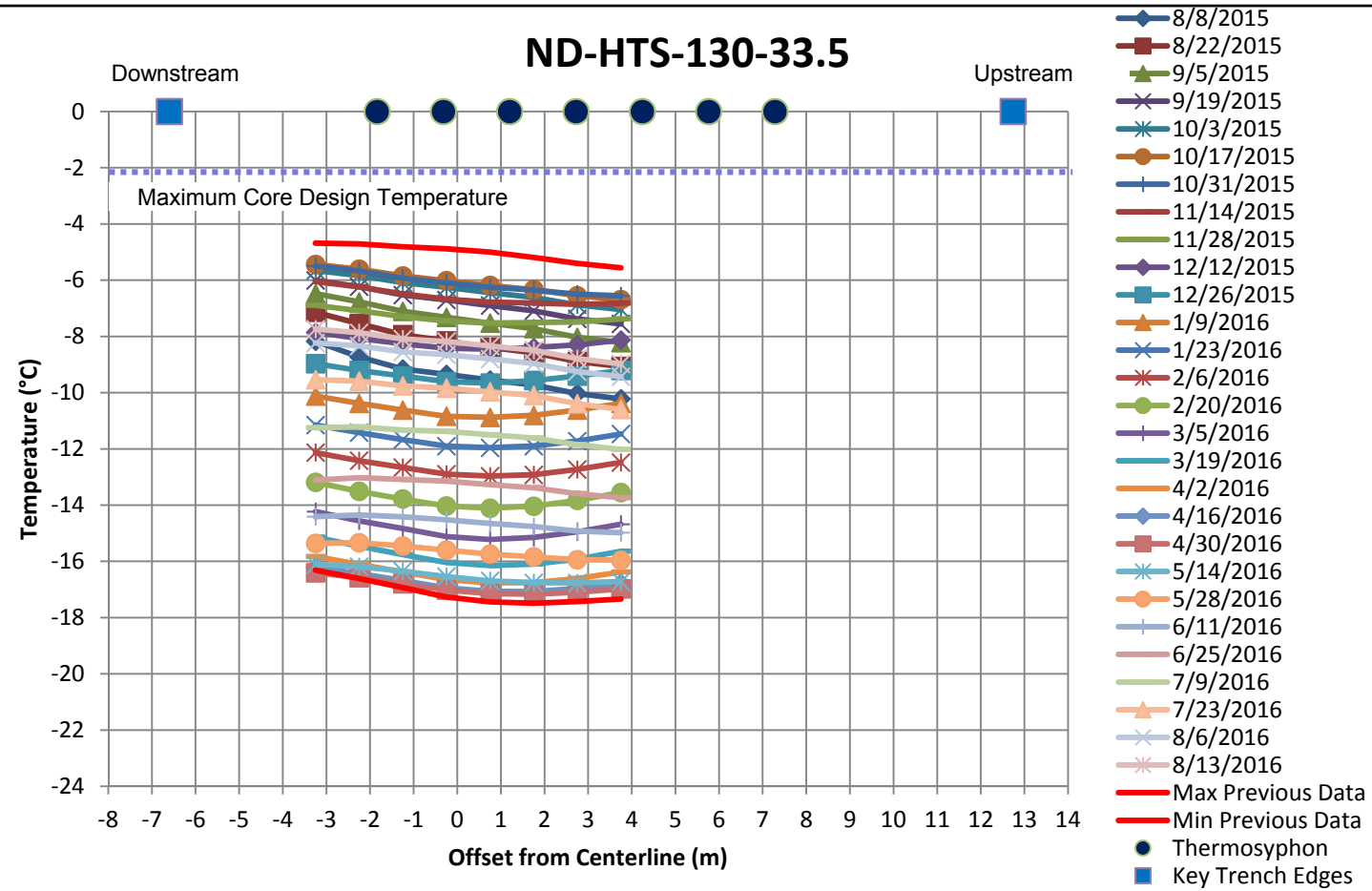
- Cable irreparably damaged
- Bead damaged or data missing



Notes:

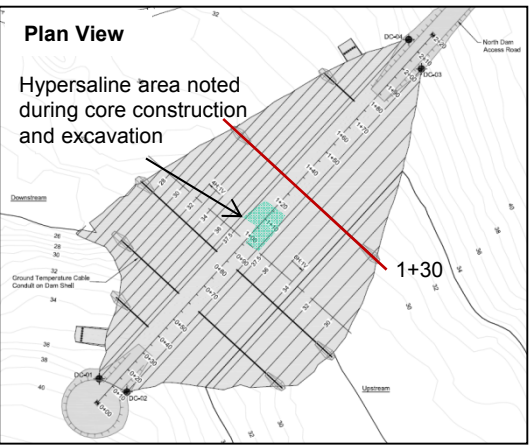
- Bead numbers increase from downstream to upstream (horizontal) and top to bottom (vertical)

		2016 Geotechnical Inspection		
		Station 1+30 Horizontal Ground Temperature Cable Temperature Vs. Time		
		Date: Jan. 2017	Approved: PL	Figure: A.12
Job No: 1CT022.009 Filename: AppA_1CT022009_ND_GTC_20170320	DORIS MINE			



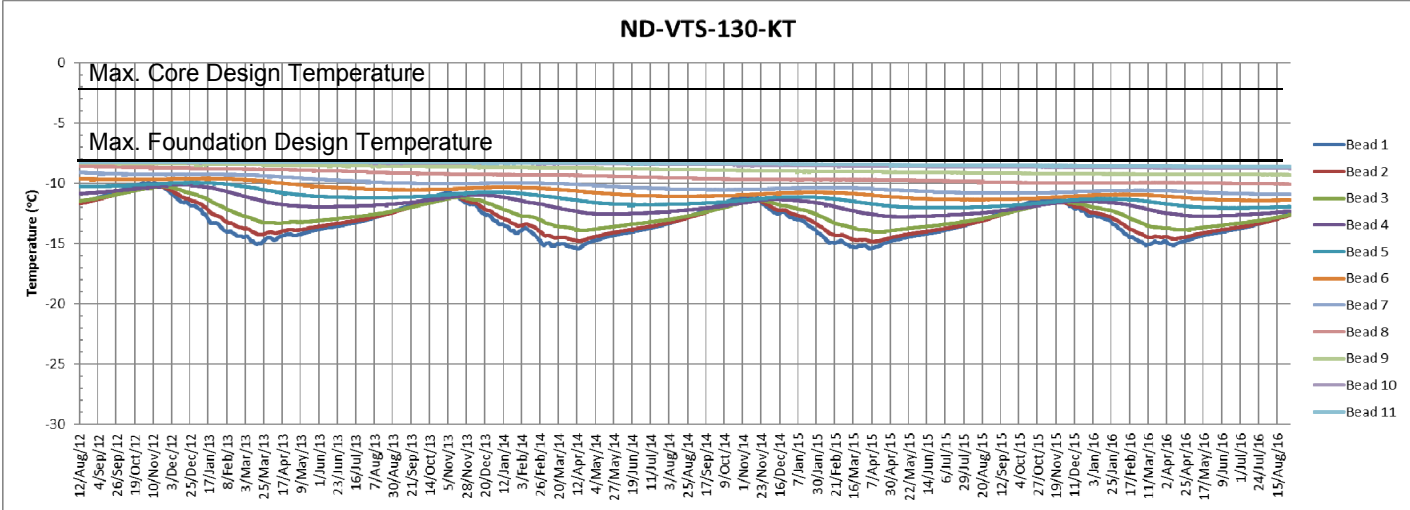
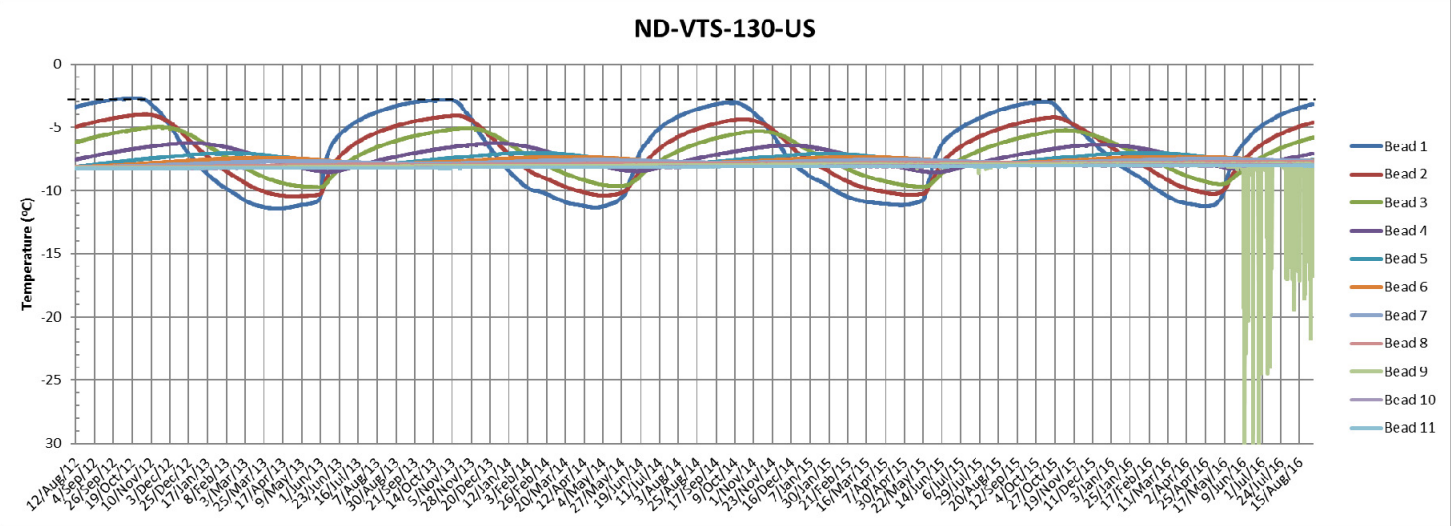
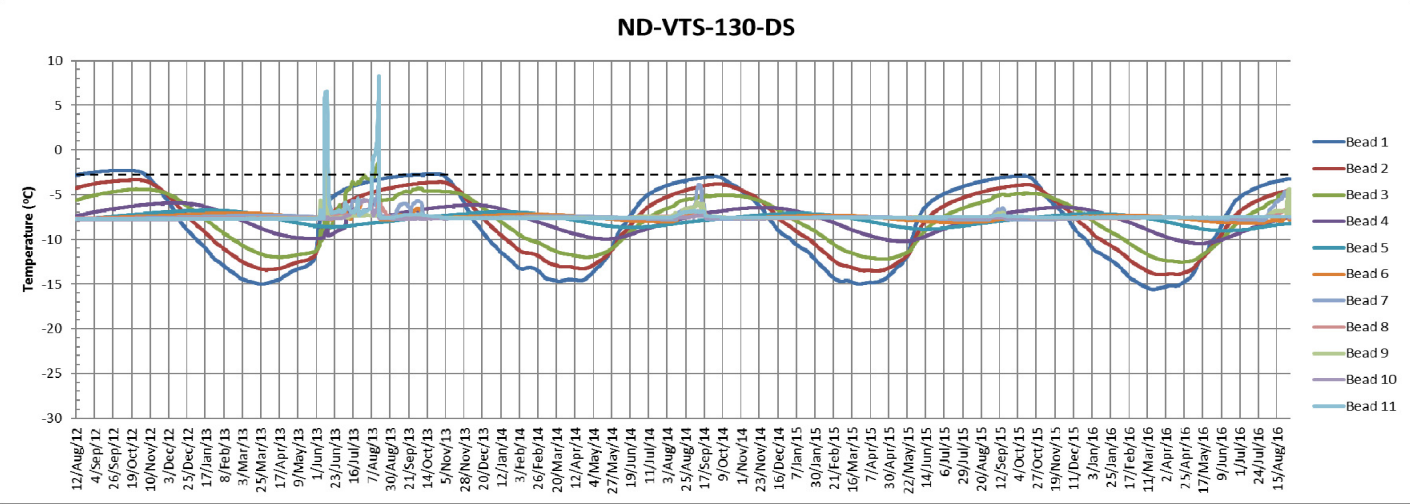
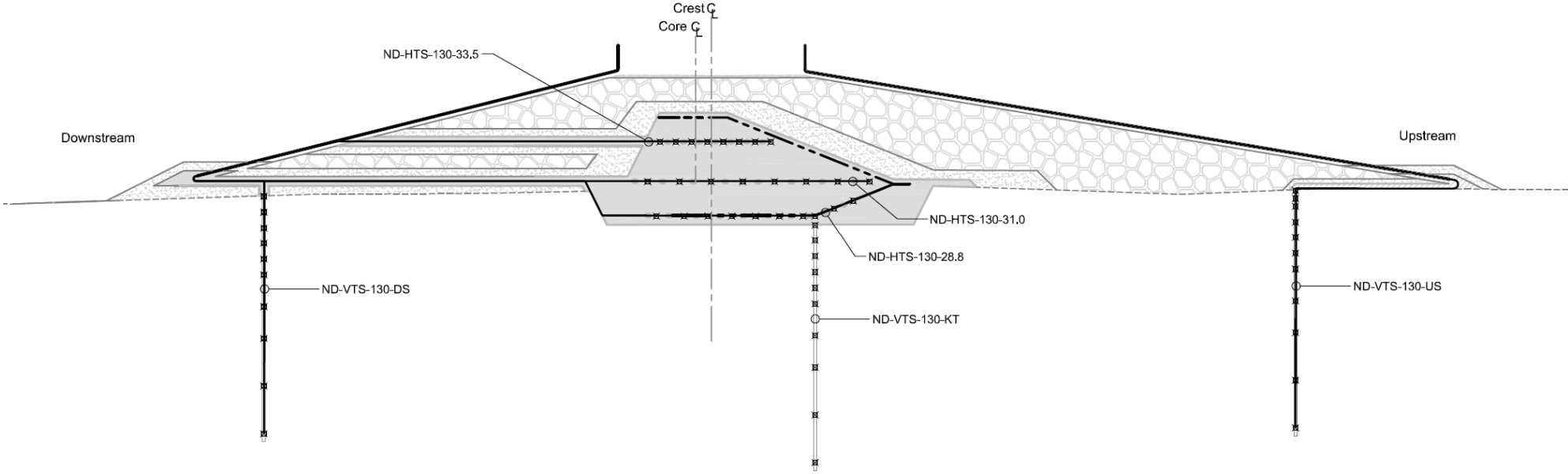
Note:

- Previous Data was recorded between August 2012 and September 2015



Ground Temperature Cable Status:

- Cable irreparably damaged
- Bead damaged or data missing



- Notes:**
- Bead numbers increase from downstream to upstream (horizontal) and top to bottom (vertical)
 - Varied degrees of temperature spikes have been noted at ND-VTS-130-DS since September 2014, typically during the summer or fall, and has returned to normal after the reporting period (November 2016)
 - Low temperature spikes in Bead 9 of ND-VTS-130-US began around the same period when the Station 0+085 readings began to spike. Likely a data logger issue, these spikes will be monitored.

srk consulting

TMAC
RESOURCES

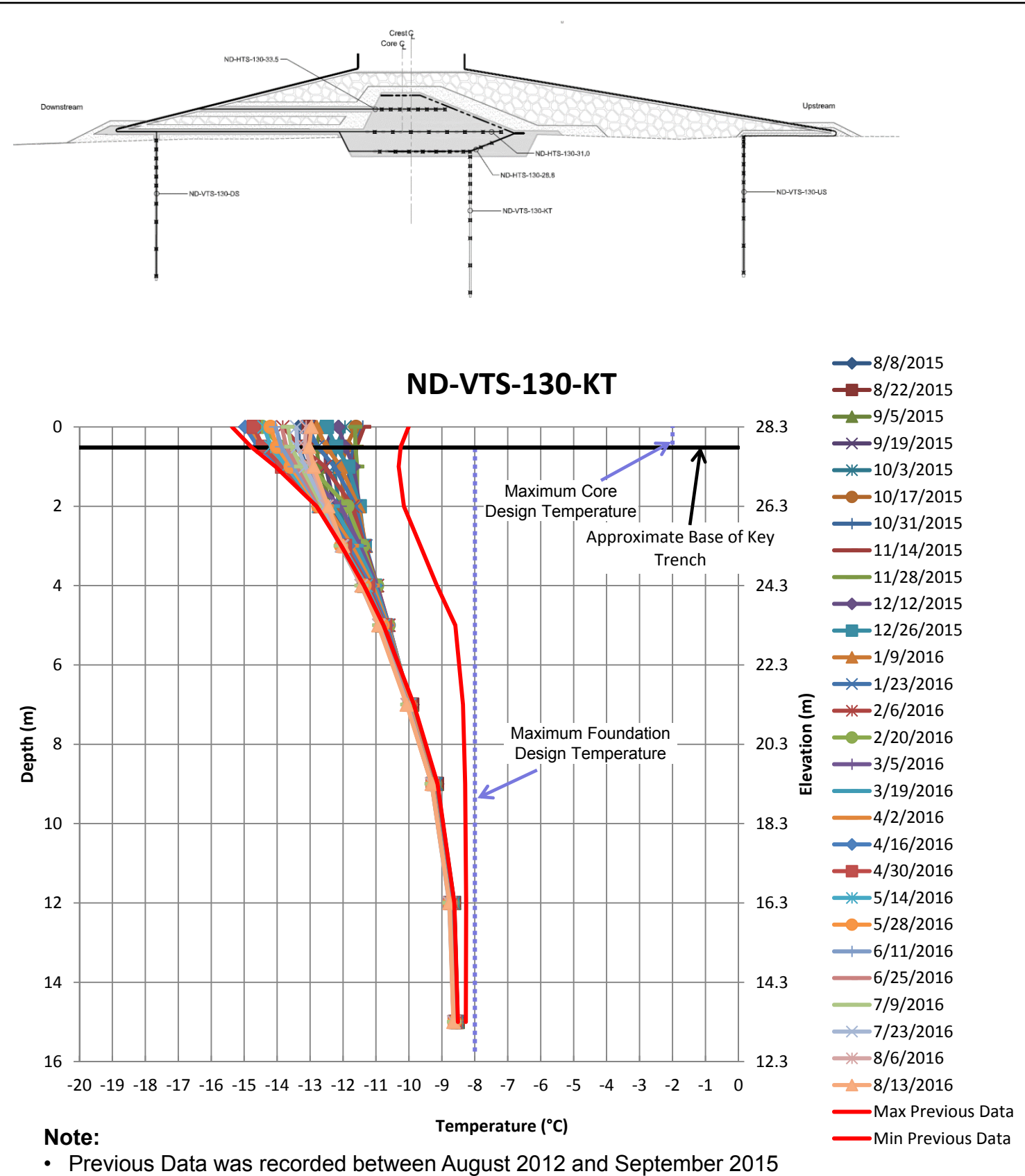
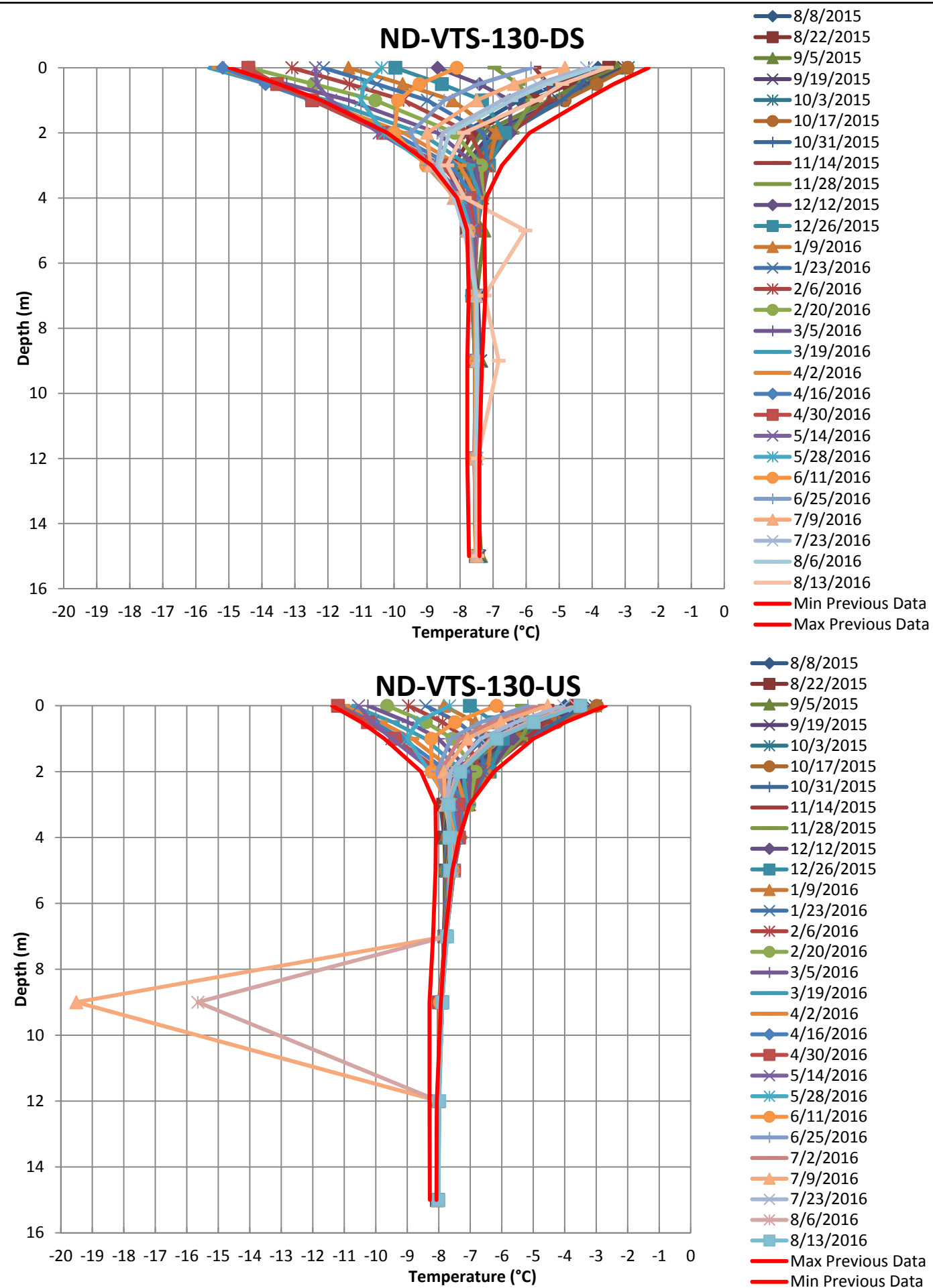
Job No: 1CT022.009
Filename: AppA_1CT022009_ND_GTC_20170320

DORIS MINE

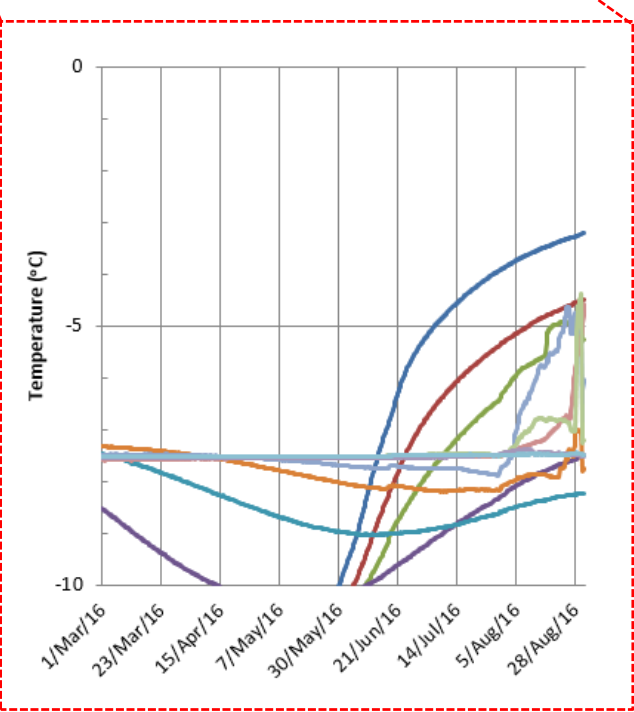
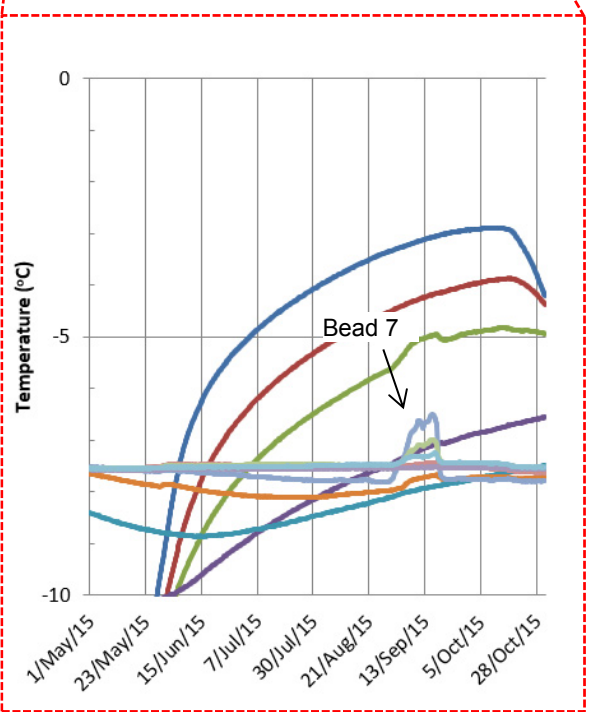
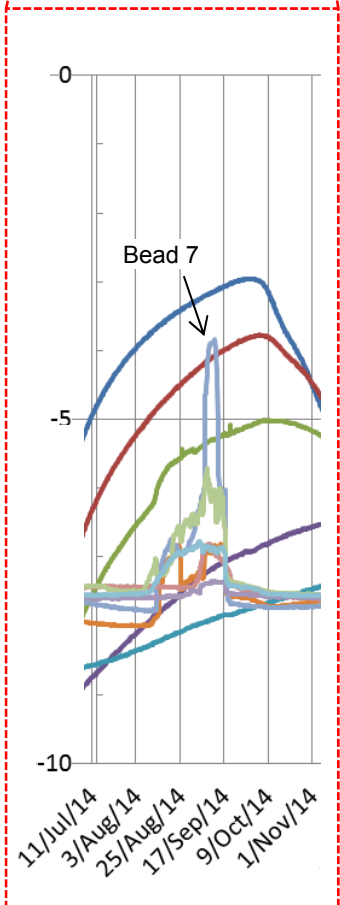
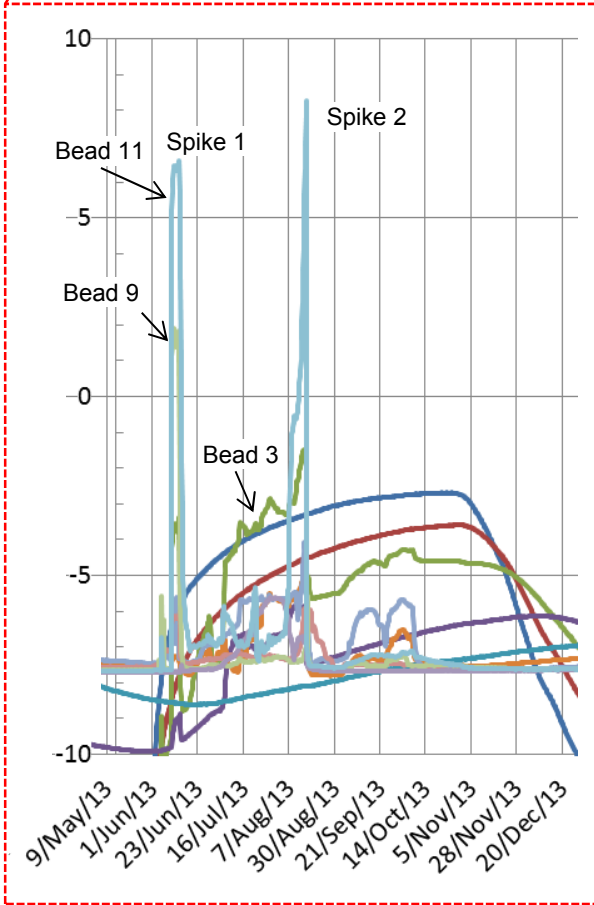
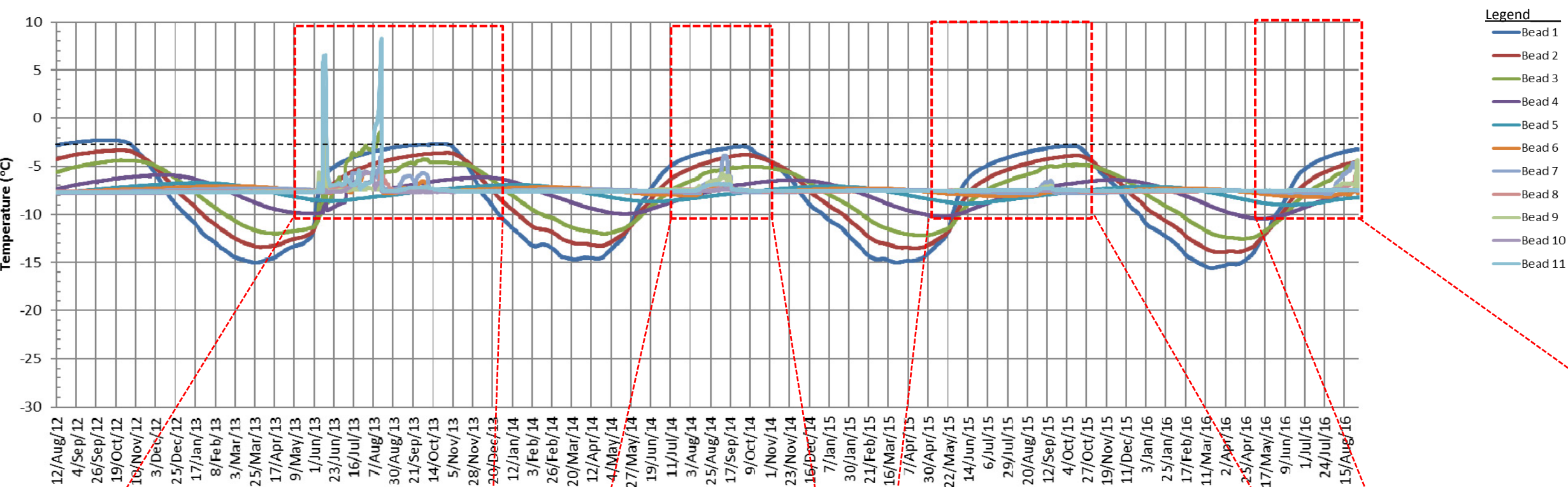
2016 Geotechnical Inspection

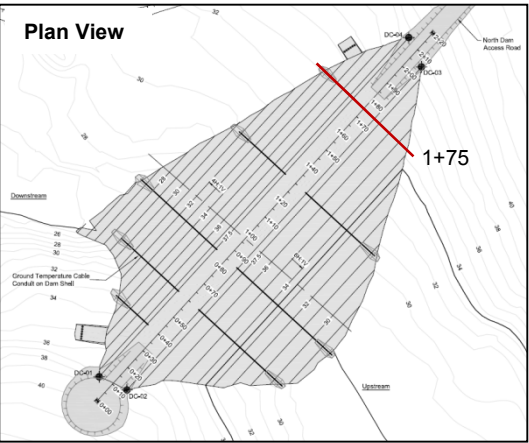
Station 1+30
Vertical Ground Temperature Cable
Temperature Vs. Time

Date: Jan. 2017
Approved: PL
Figure: **A.14**



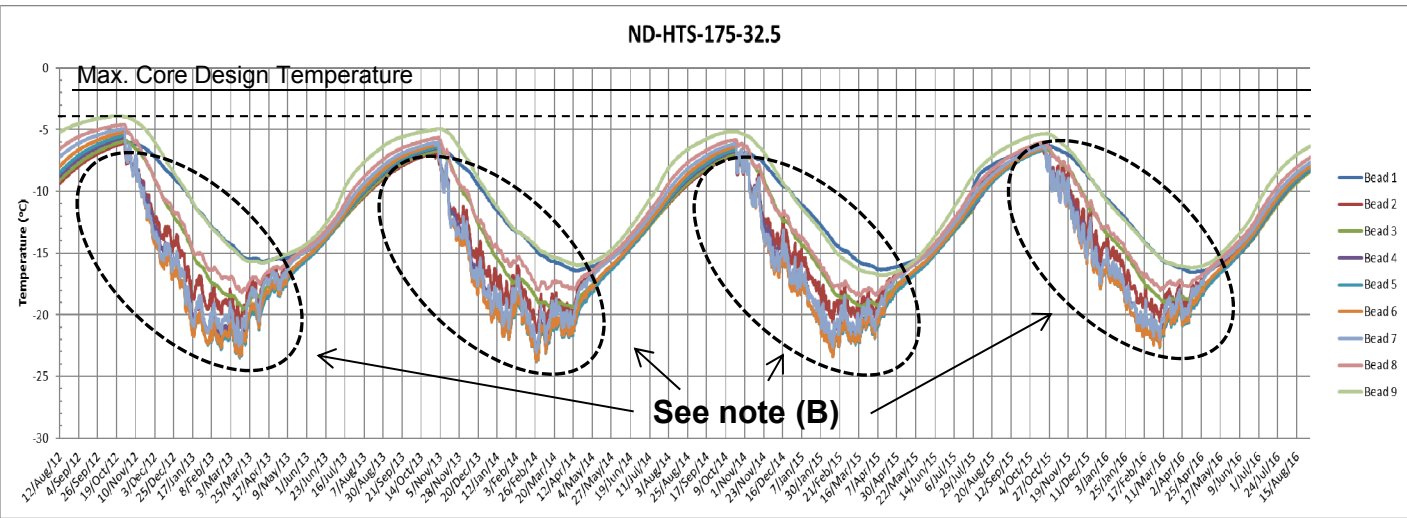
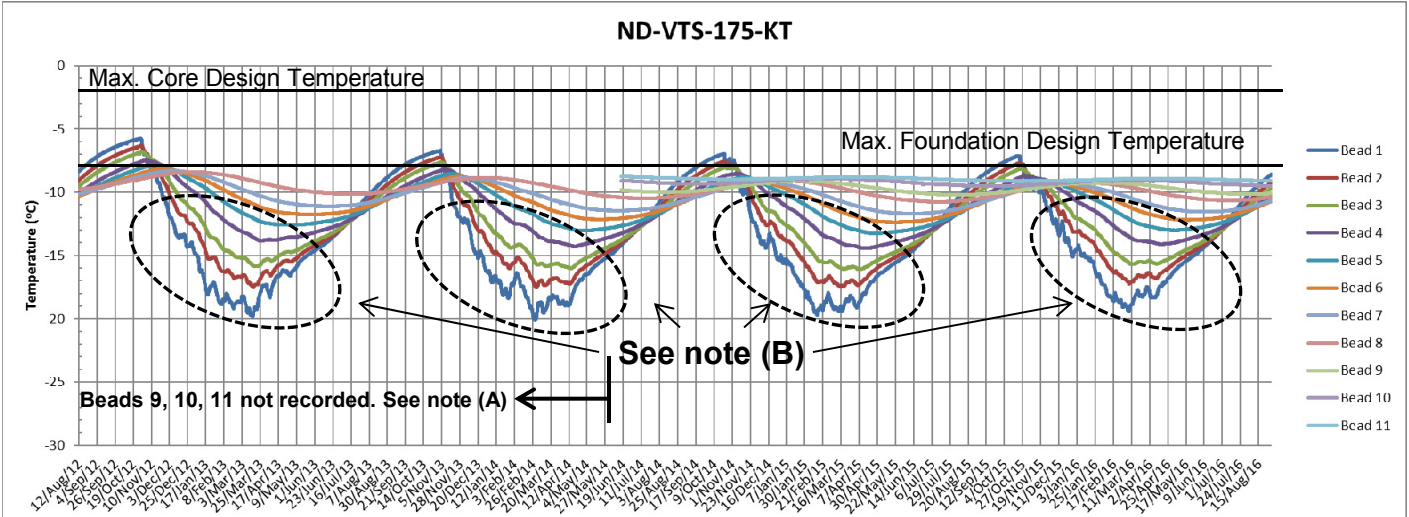
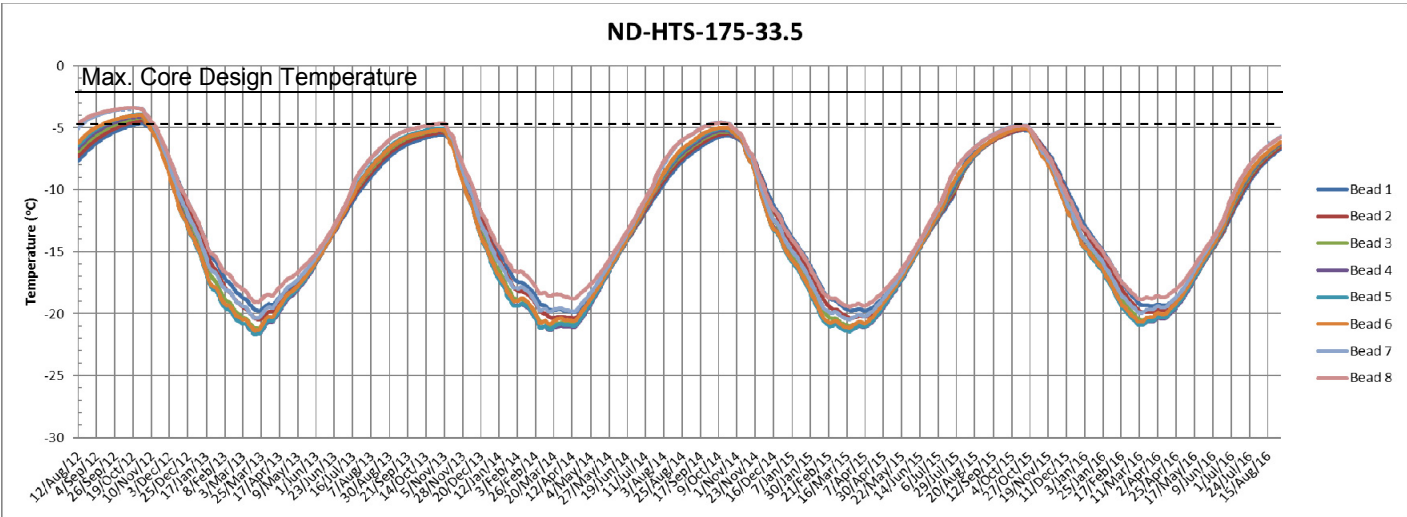
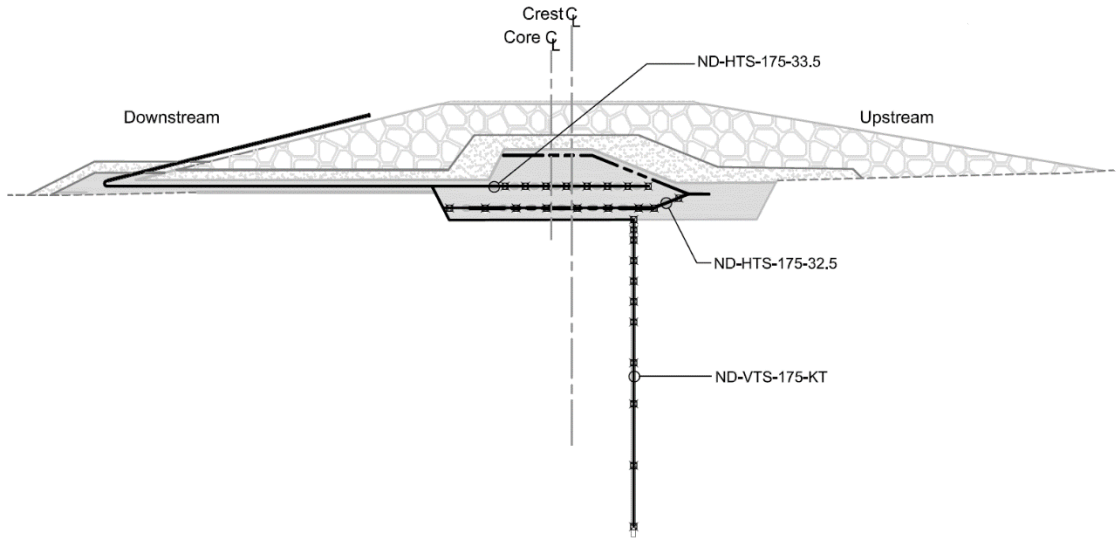
ND-VTS-130-DS





Ground Temperature Cable Status:

- Cable irreparably damaged
- Bead damaged or data missing



Notes:

- Bead numbers increase from downstream to upstream (horizontal) and top to bottom (vertical)
- **(A)** Incorrectly connected to datalogger as ND-HTS-175-33.5; therefore, no readings for beads 9, 10 and 11.
- **(B)** Variation in Ground Temperature Cable readings during winter months due to close proximity of Ground Temperature Cable beads to thermosyphon pipes.

srk consulting

TMAC RESOURCES

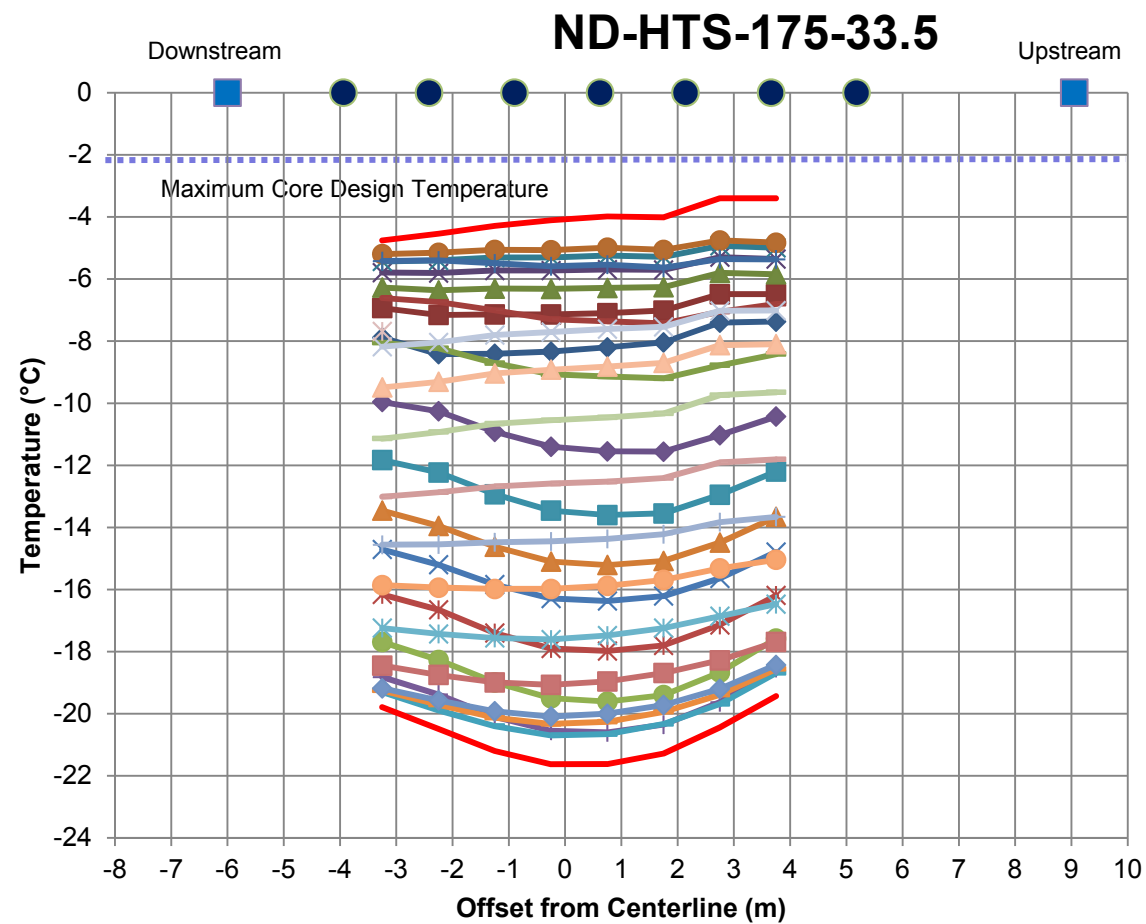
2016 Geotechnical Inspection

Station 1+75 Ground Temperature Cable Temperature Vs. Time

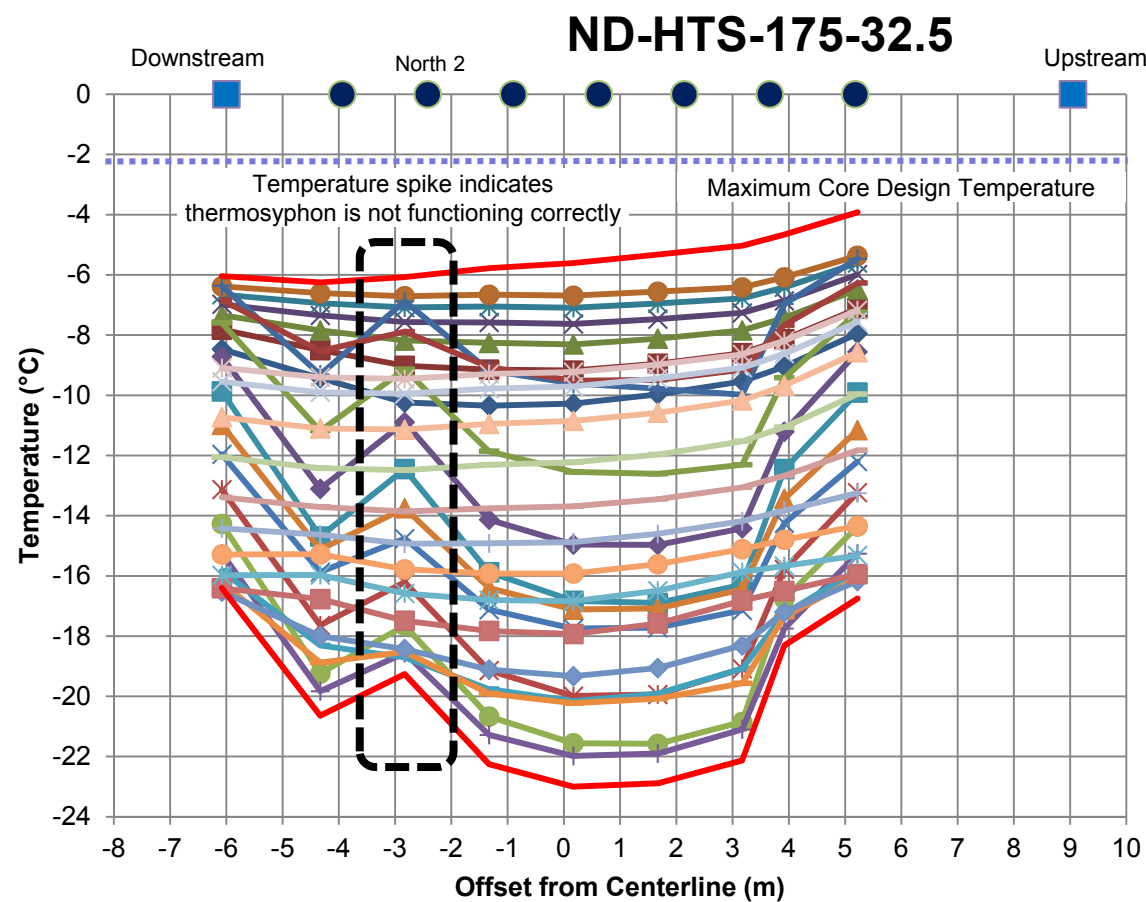
Job No: 1CT022.009
Filename: AppA_1CT022009_ND_GTC_20170320

DORIS MINE

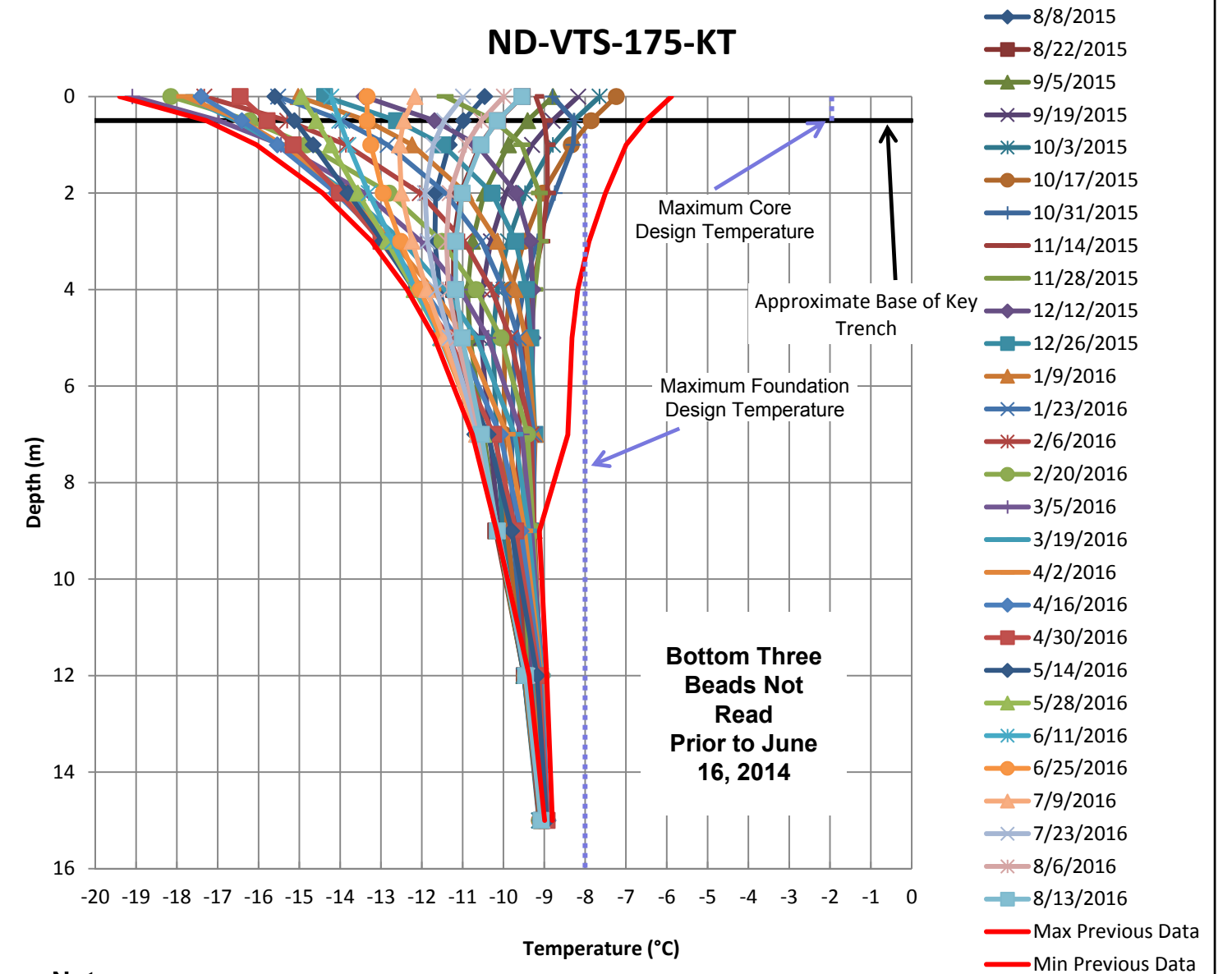
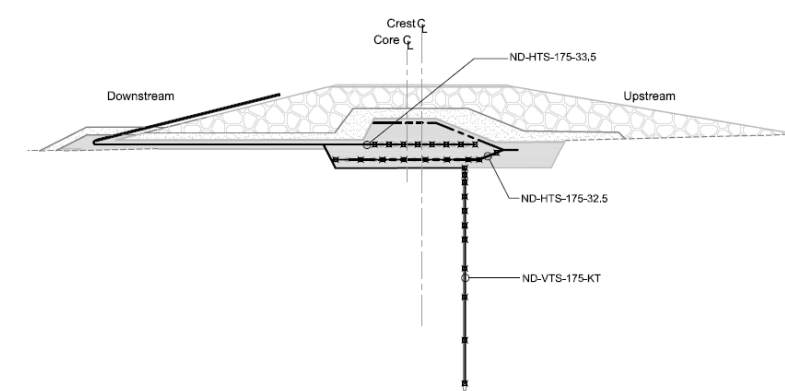
Date: Jan. 2017
Approved: PL
Figure: **A.17**



- 8/8/2015
- 8/22/2015
- 9/5/2015
- 9/19/2015
- 10/3/2015
- 10/17/2015
- 10/31/2015
- 11/14/2015
- 11/28/2015
- 12/12/2015
- 12/26/2015
- 1/9/2016
- 1/23/2016
- 2/6/2016
- 2/20/2016
- 3/5/2016
- 3/19/2016
- 4/2/2016
- 4/16/2016
- 4/30/2016
- 5/14/2016
- 5/28/2016
- 6/11/2016
- 6/25/2016
- 7/9/2016
- 7/23/2016
- 8/6/2016
- 8/13/2016
- Max Previous Data
- Min Previous Data
- Thermosyphon
- Key Trench Edges



- 8/8/2015
- 8/22/2015
- 9/5/2015
- 9/19/2015
- 10/3/2015
- 10/17/2015
- 10/31/2015
- 11/14/2015
- 11/28/2015
- 12/12/2015
- 12/26/2015
- 1/9/2016
- 1/23/2016
- 2/6/2016
- 2/20/2016
- 3/5/2016
- 3/19/2016
- 4/2/2016
- 4/16/2016
- 4/30/2016
- 5/14/2016
- 5/28/2016
- 6/11/2016
- 6/25/2016
- 7/9/2016
- 7/23/2016
- 8/6/2016
- 8/13/2016
- Max Previous
- Min Previous
- Thermosypho
- Key Trench E



- 8/8/2015
- 8/22/2015
- 9/5/2015
- 9/19/2015
- 10/3/2015
- 10/17/2015
- 10/31/2015
- 11/14/2015
- 11/28/2015
- 12/12/2015
- 12/26/2015
- 1/9/2016
- 1/23/2016
- 2/6/2016
- 2/20/2016
- 3/5/2016
- 3/19/2016
- 4/2/2016
- 4/16/2016
- 4/30/2016
- 5/14/2016
- 5/28/2016
- 6/11/2016
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- 7/9/2016
- 7/23/2016
- 8/6/2016
- 8/13/2016
- Max Previous Data
- Min Previous Data

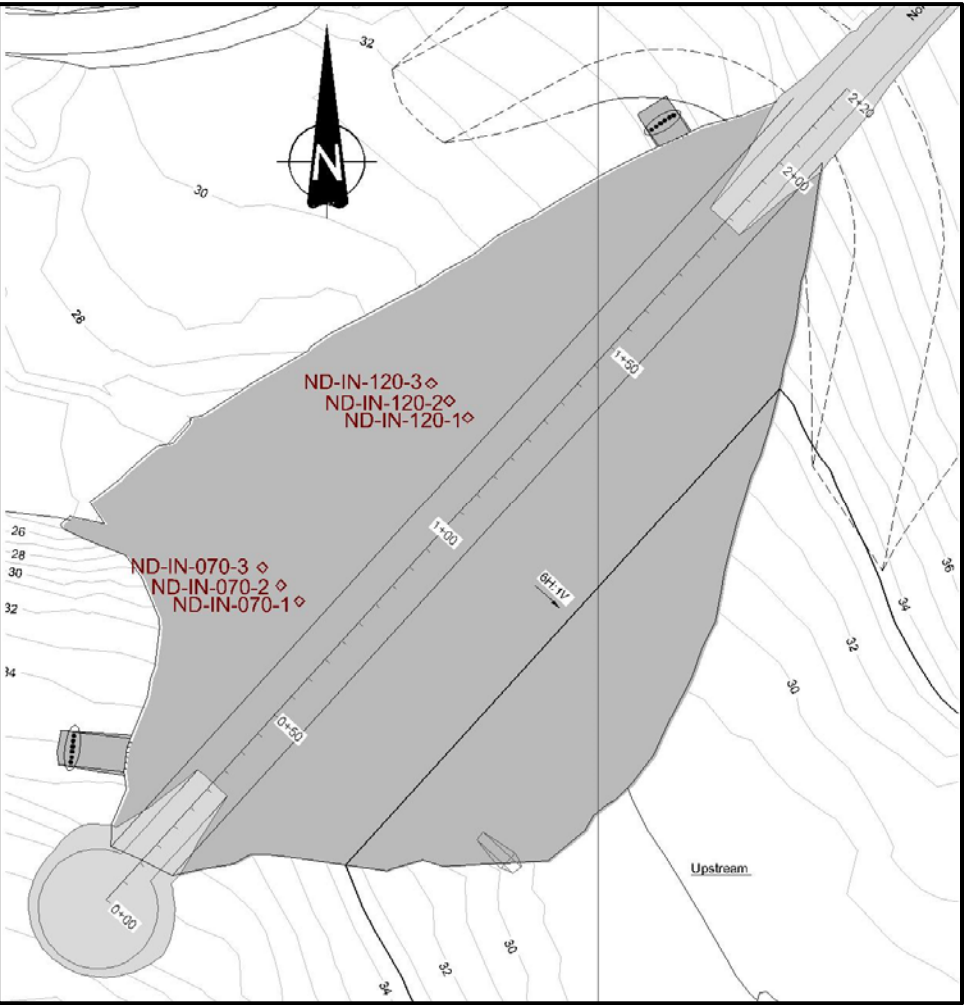
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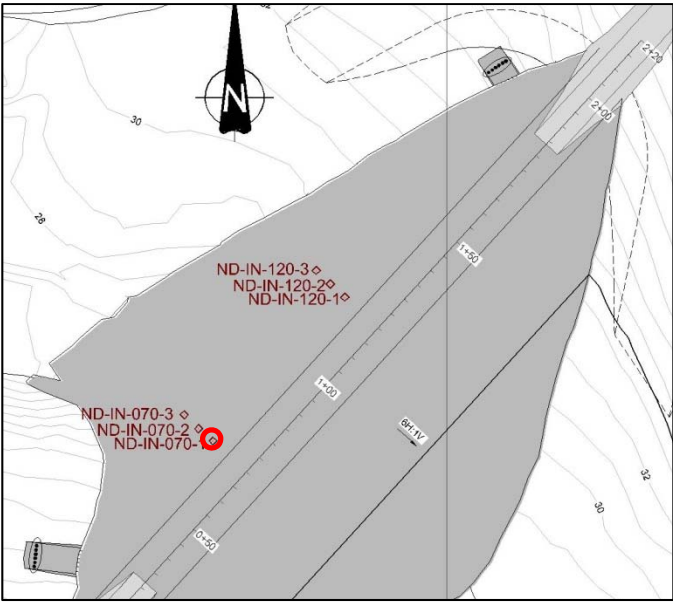
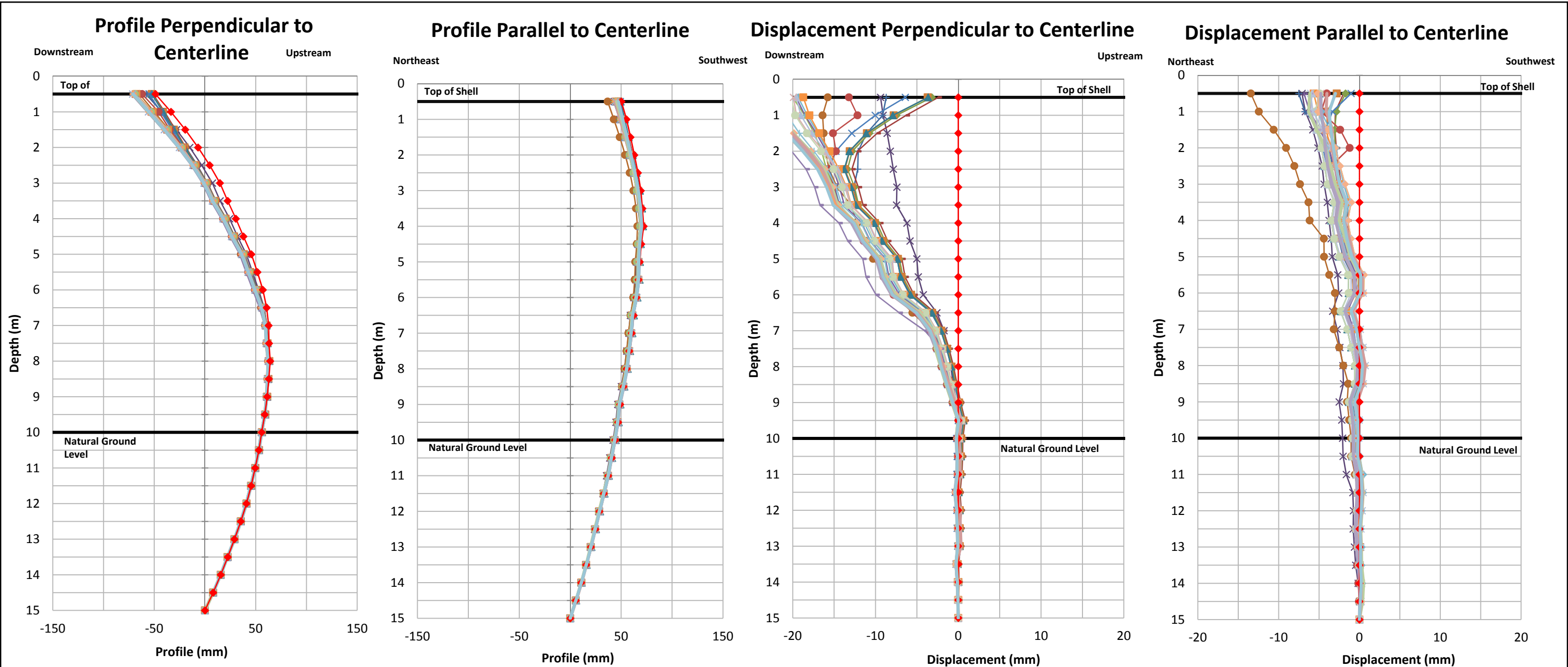
- Previous Data was recorded between August 2012 and September 2015

		2016 Geotechnical Inspection		
		Station 1+75 Ground Temperature Cable Readings by Location		
Job No: 1CT022.009 Filename: AppA_1CT022009_ND_GTC_20170320	DORIS MINE	Date: Jan. 2017	Approved: PL	Figure: A.18

Date	Inclinometers Measured						Data Quality
	070-1	070-2	070-3	120-1	120-2	120-3	
9/Oct/15	x	x	x	x	x	x	
25/Nov/15	x	x	x	x	x	x	Trouble recording data in cold weather, working with site to improve readings, likely due to cold weather
30/Dec/15	x	x	x	x	x	x	Significant improvement after insulating readout box
8/Feb/16	x	x	x	x	x	x	70-2 outside range (0m - 2m), Checksums out for 120-1 (0.5m-12m) @ approximately 66-129
7/Mar/16	x	x	x	x	x	x	70-1 slightly outside of checksum range (5.5m and 7m)
11/Apr/16	x	x	x	x	x	x	70-1 slightly outside of checksum range (1.5m), Checksums slightly out for 070-2 (1m,1.5m,2.5m,3m,5.5m,11.5m)
2/Jul/16	x	x	x	x	x	x	120-1 Checksum slightly out at 0.5m
14/Aug/16	x	x	x	x	x	x	
DATA CUT OFF FOR 2016 AGI							

- Notes:
- 1. Green marks good quality survey data
 - 2. Yellow marks survey data with zeros or error values replaced
 - 3. Orange marks poor quality survey data





- Notes:**
1. Manufacture's accuracy is +/- 0.25 mm per location
 2. Survey data excluded from the charts is noted on Figure B.1

LEGEND:	
7/26/2013	10/1/2013
5/18/2014	7/12/2014
8/8/2014	9/1/2014
10/1/2014	2/2/2015
3/21/2015	4/8/2015
4/16/2015	5/18/2015
6/25/2015	7/9/2015
8/2/2015	9/4/2015
10/9/2015	11/25/2015
12/30/2015	2/8/2016
4/11/2016	3/7/2016
7/2/2016	8/14/2016
Initial Reading (9/8/2012)	

 Job No: 1CT022.009 Filename: AppendixB_1CT022.009_Inclinometers.pptx	 DORIS MINE	2016 Annual Geotechnical Inspection		
		Inclinometer 070-1		
		Date: Jan. 2017	Approved: PDL	Figure: B.2