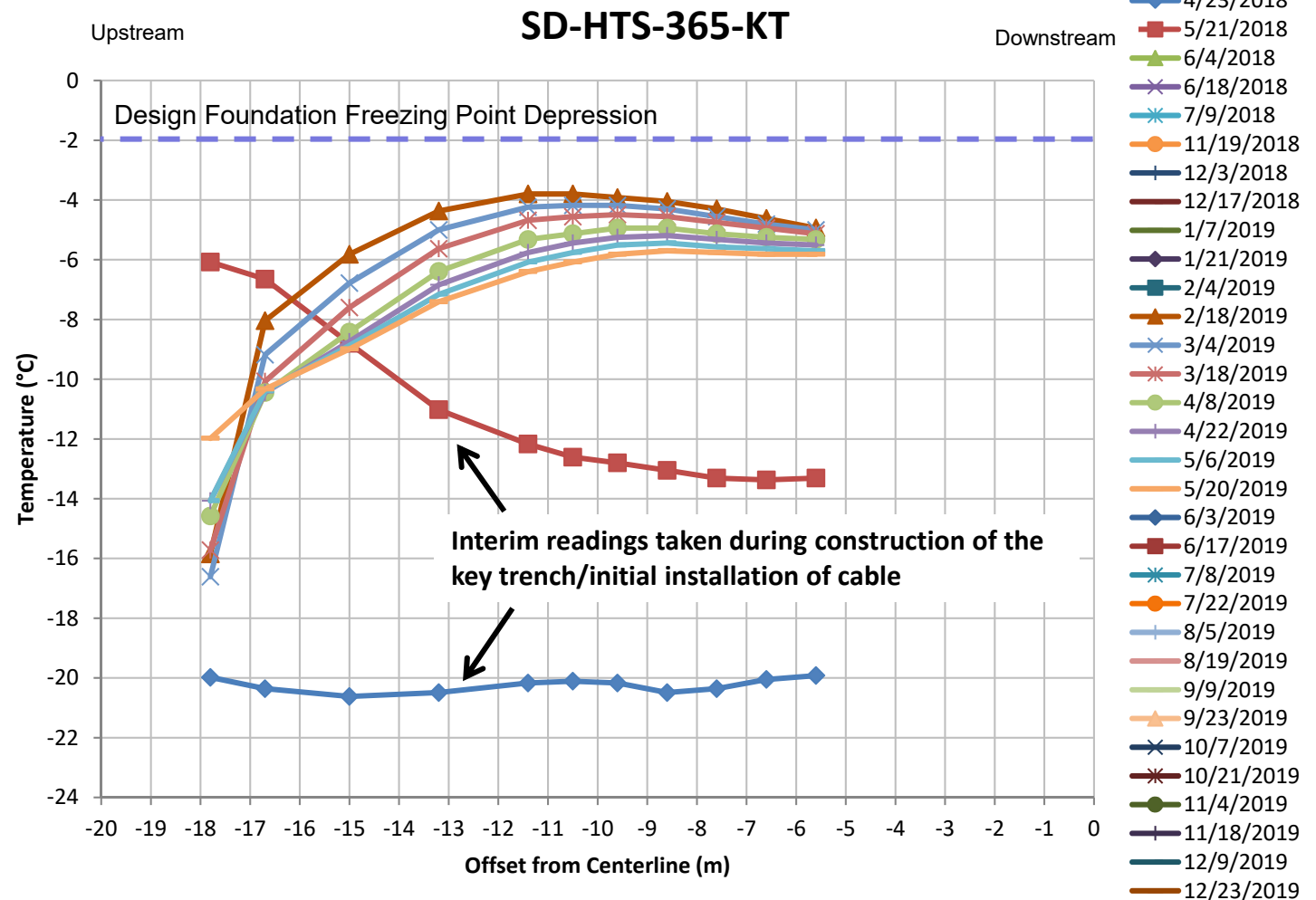
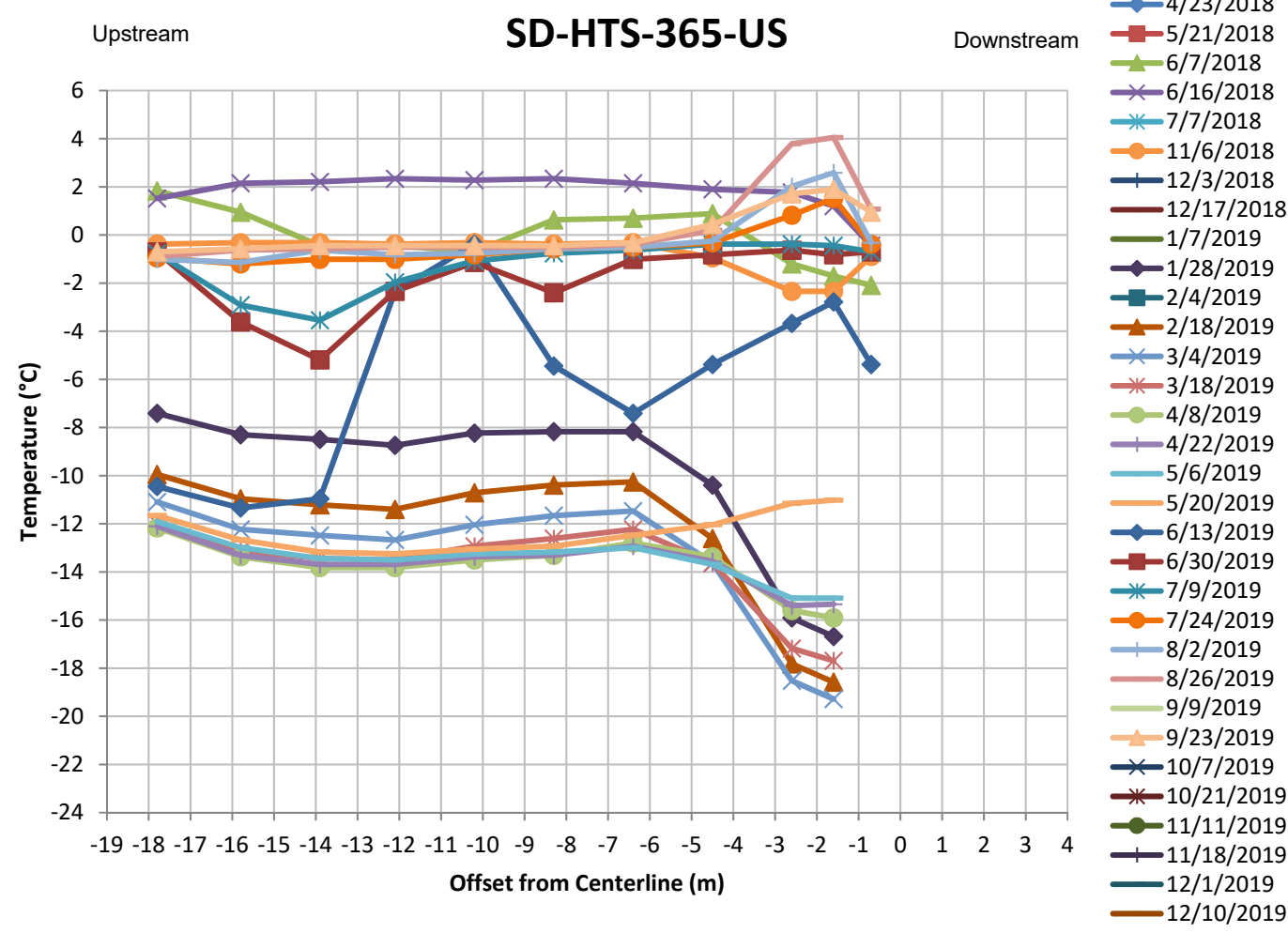


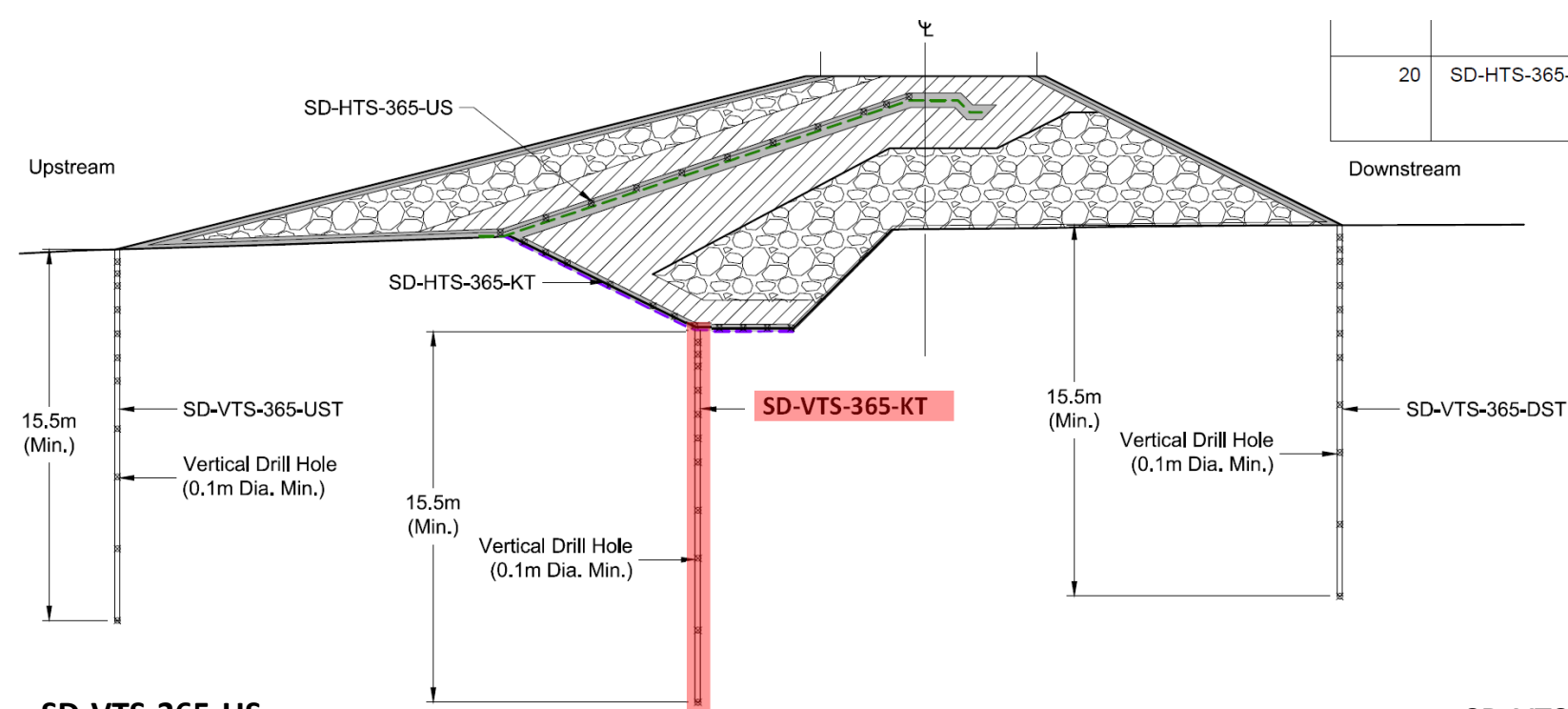
Legend:

- SD-VTS-365-KT: GTC Status: Cable irreparably damaged
- SD-VTS-365-KT: GTC Status: Bead damaged or data missing

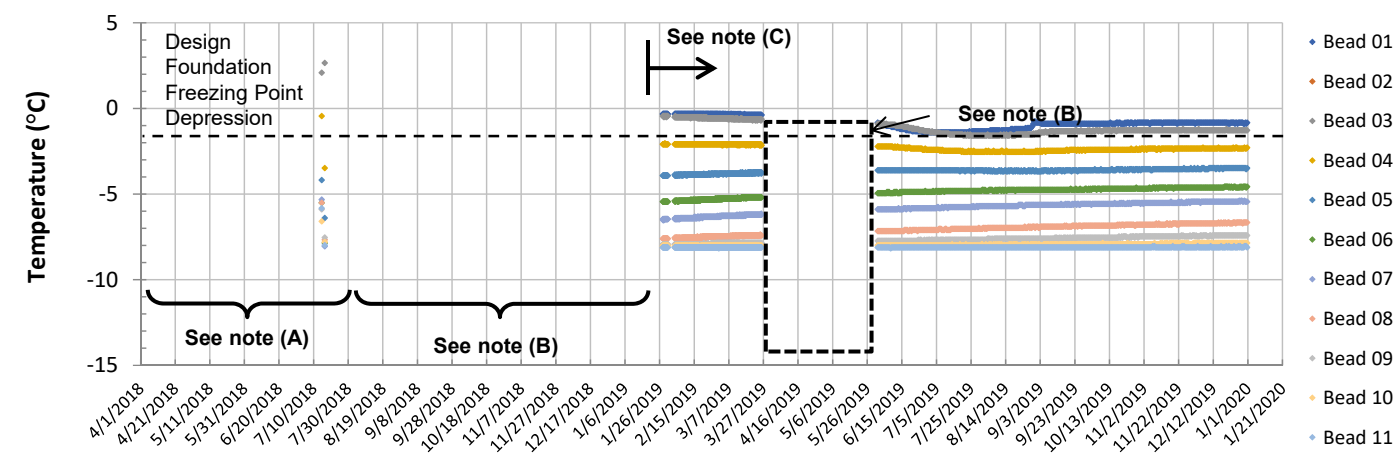


Note:

- Legend represents full monitoring year. Only dates with available data are shown on chart
- No data collected between September 16, 2018 to January 28, 2019



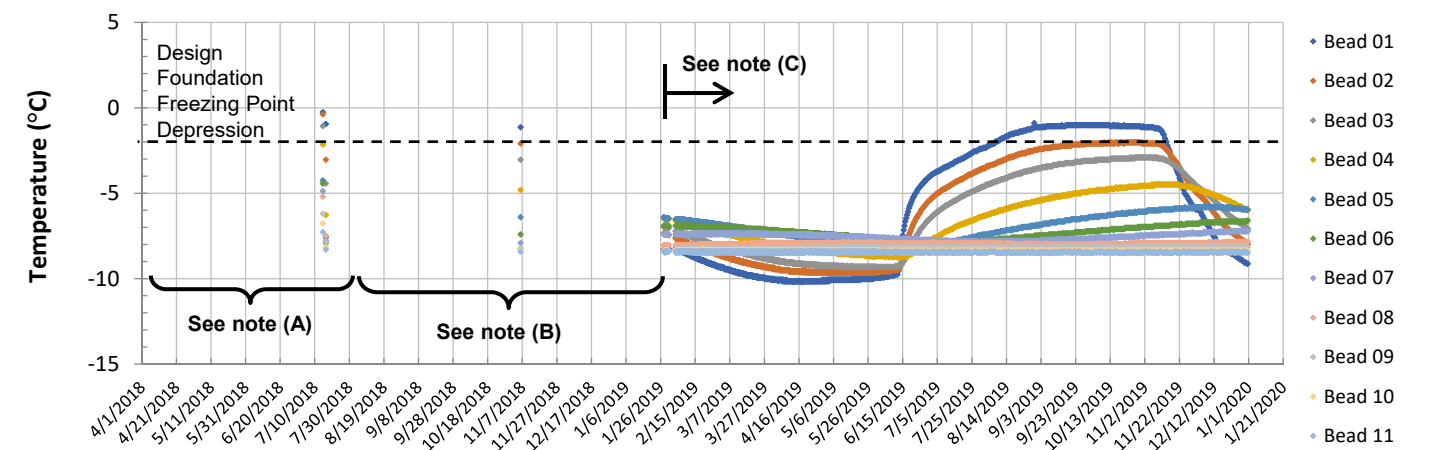
SD-VTS-365-US



SD-VTS-365-KT

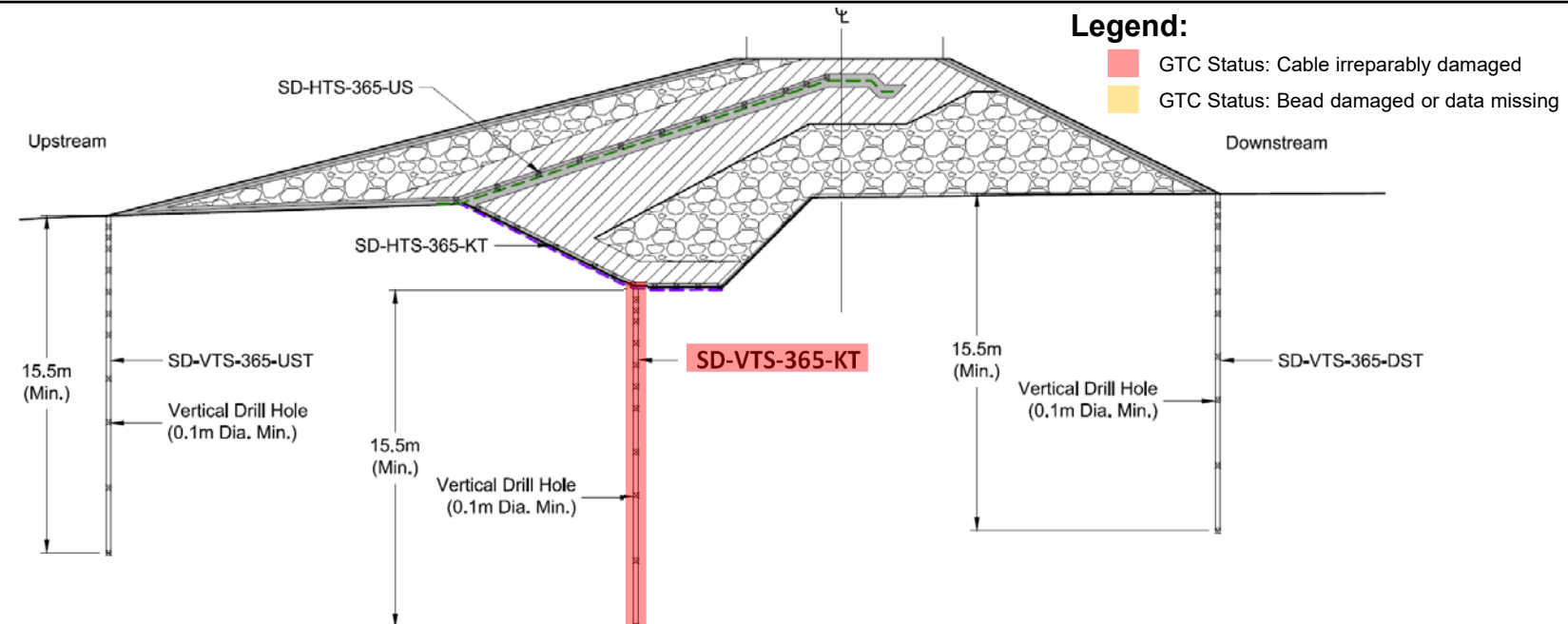
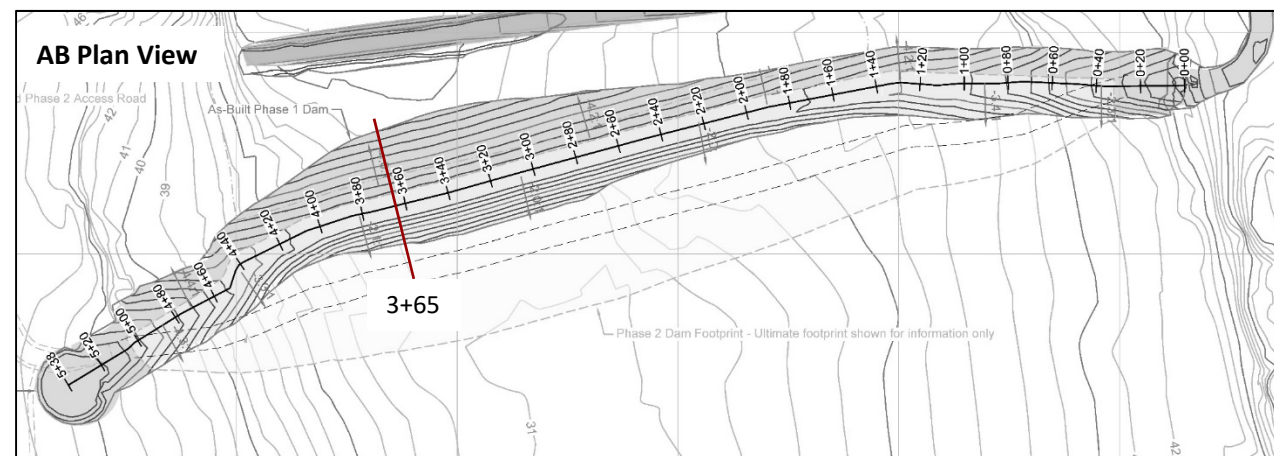


SD-VTS-365-DS

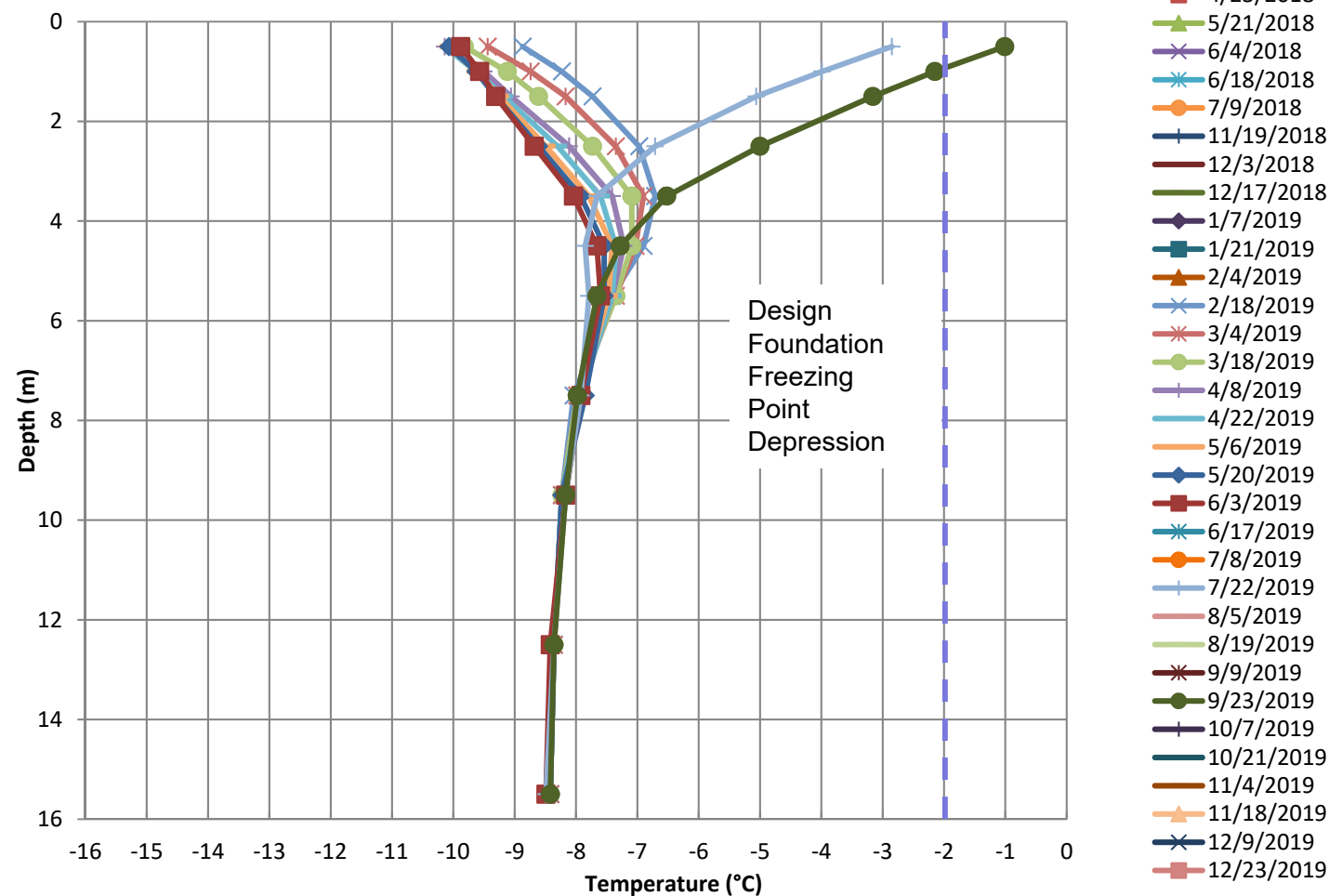


Notes:

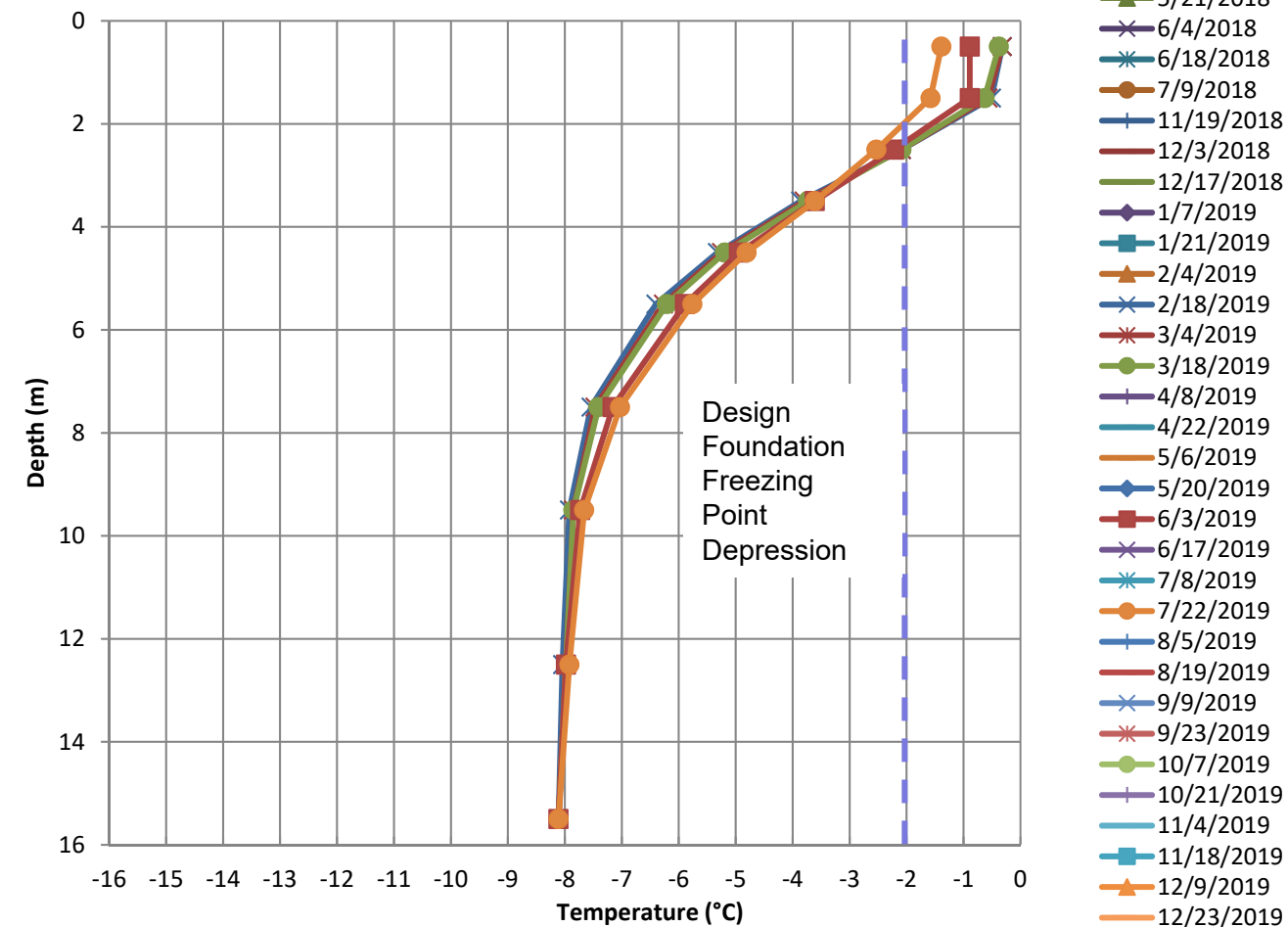
- Bead numbers increase from upstream to downstream (horizontal) and top to bottom (vertical)
- SD-VTS-365-US cable damaged after construction but repaired
- SD-VTS-365-KT irreparably damaged after construction
- (A) Measurements collected between April and August 2018 were taken during construction
- (B) No measurements were collected between September 2018 to late January 2019 as the GTC's were extended and repaired, and the data loggers were set up on site. One set of manual spot measurements were collected for some cables in November 2018 to check interim dam performance.
- (C) From the end of January 2019 onwards, data loggers were installed and placed on site, providing higher resolution and more frequent data transmissions.



SD-VTS-365-DS



SD-VTS-365-US

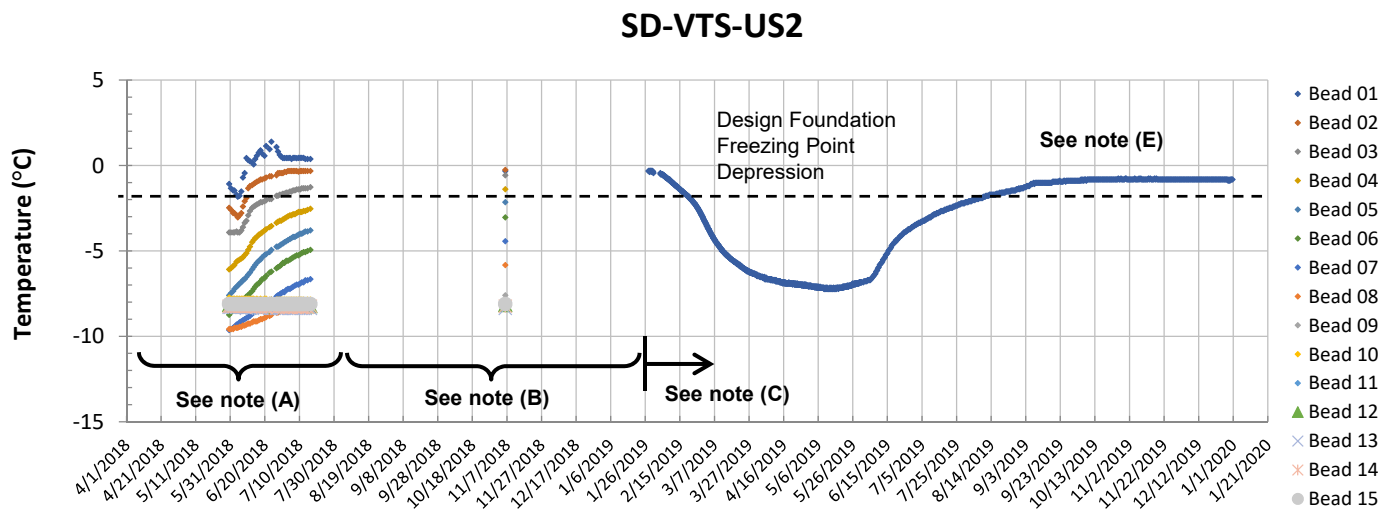
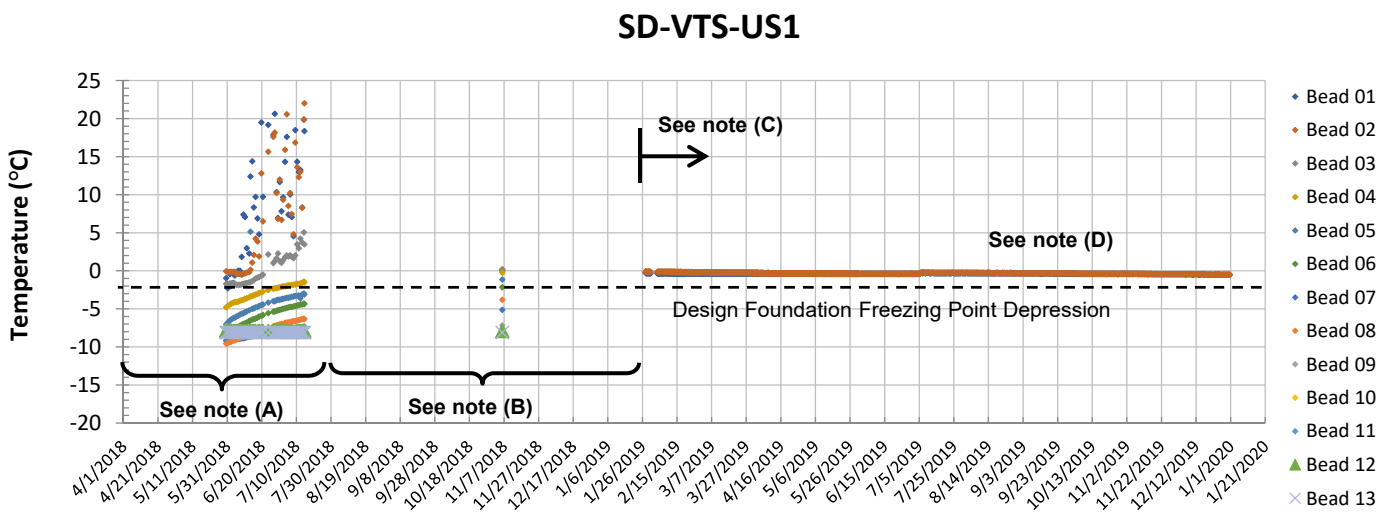


Note:

- Legend represents full monitoring year. Only dates with available data are shown on chart
- No data collected between September 16, 2018 to January 27, 2019. One reading recorded for SD-VTS-365-DS on November 6, 2018.
- No data collected for SD-VTS-365-US between March 25, 2019 and June 1, 2019

		2019 AGI - South Dam		
		South Dam Station 3+65 Ground Temperature Cable Readings by Location		
Job No: 1CT022.038 Filename: AppB_1CT022.038_SD_GTC	Doris TIA	Date: Mar. 2020	Approved: PL	Figure: B.29

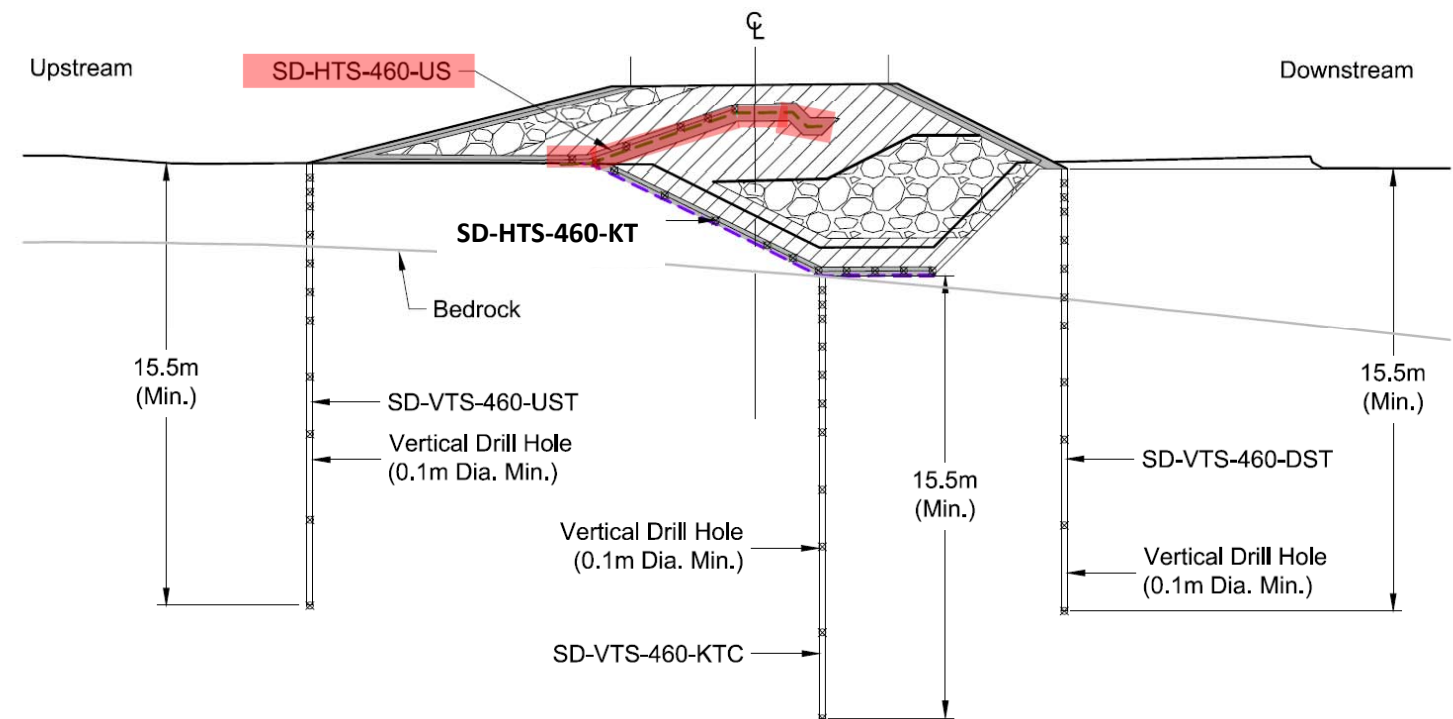
Legend:
GTC Status: Cable irreparably damaged
GTC Status: Bead damaged or data missing



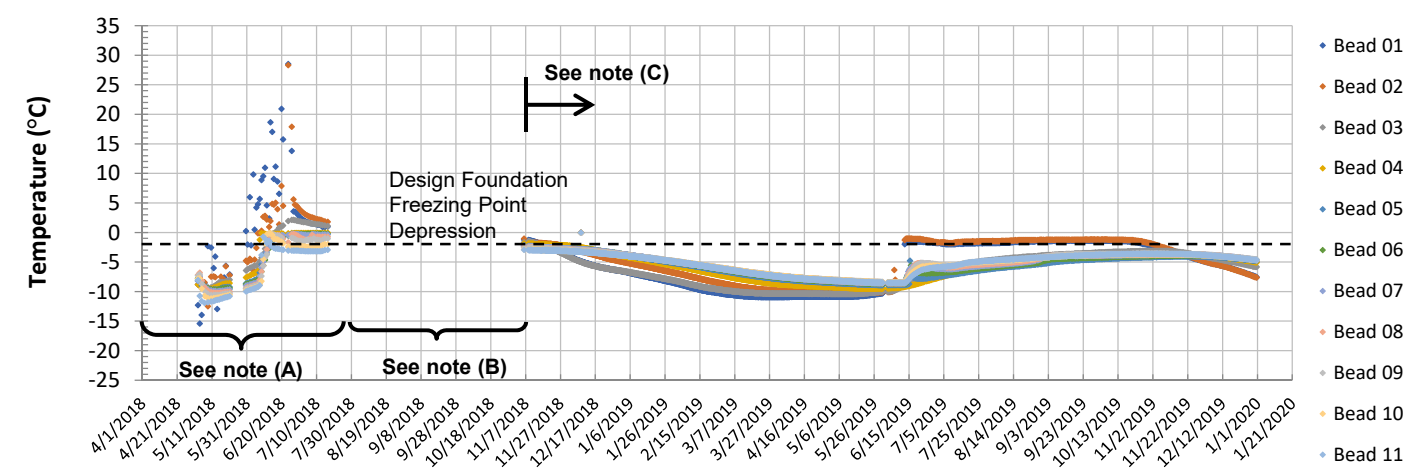
- Notes:
- Bead numbers increase from upstream to downstream (horizontal) and top to bottom (vertical)
 - (A) Measurements collected between April and August 2018 were taken during construction
 - (B) No measurements were collected between September 2018 to late January 2019 as the GTC's were extended and repaired, and the data loggers were set up on site. One set of manual spot measurements were collected in November 2018 to check interim dam performance
 - (C) From the end of January 2019 onwards, data loggers were installed and placed on site, providing higher resolution and more frequent data transmissions
 - (D) Only top two beads are working (Bead 01 and Bead 02) for SD-VTS-US1
 - (E) Only top bead working (Bead 01) for SD-VTS-US2

		2019 AGI - South Dam		
		Station 3+65 Vertical Ground Temperature Cable Temperature Vs. Time		
Job No: 1CT022.038 Filename: AppB_1CT022.038_SD_GTC	DORIS TIA	Date: Mar. 2020	Approved: AB	Figure: B.30

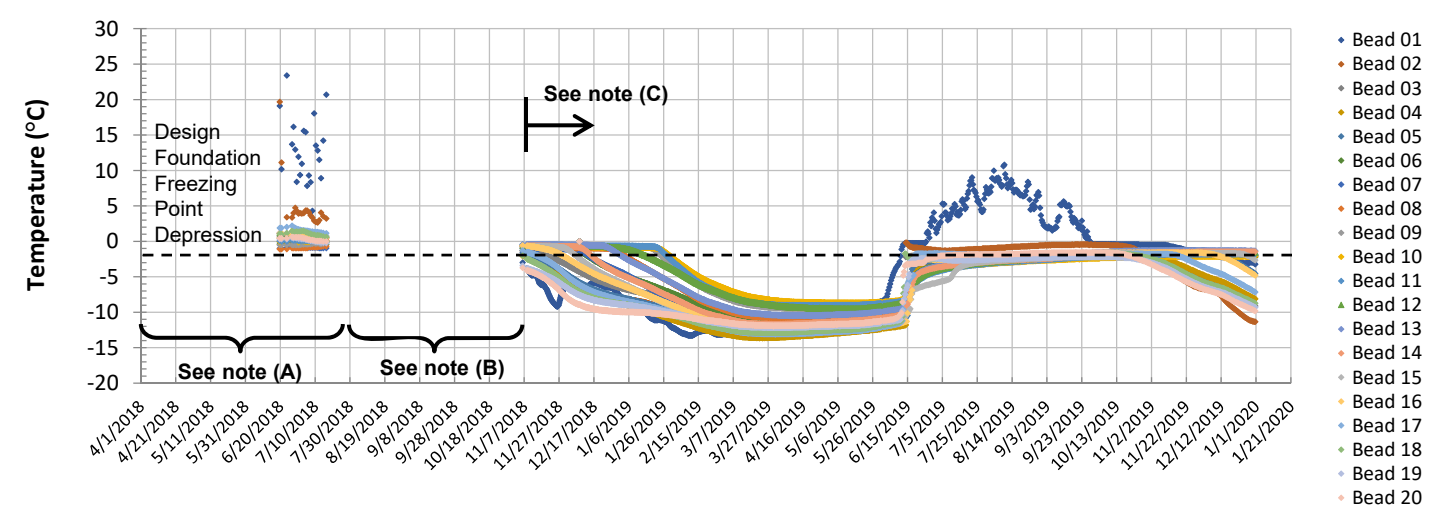
Legend:
GTC Status: Cable irreparably damaged
GTC Status: Bead damaged or data missing



SD-HTS-460-KT



SD-HTS-B1-KT

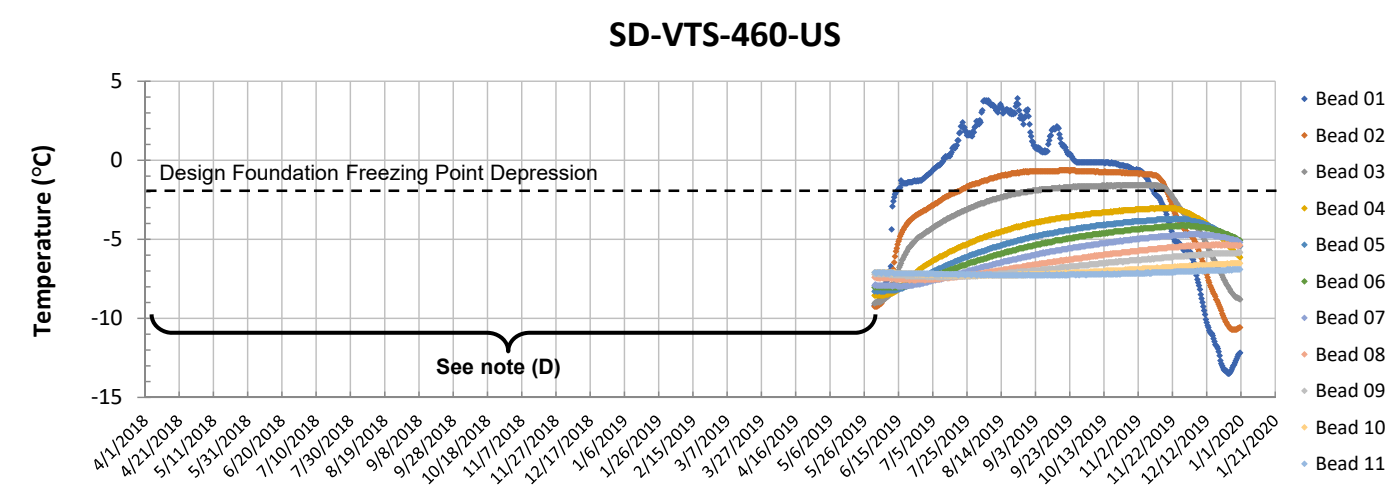
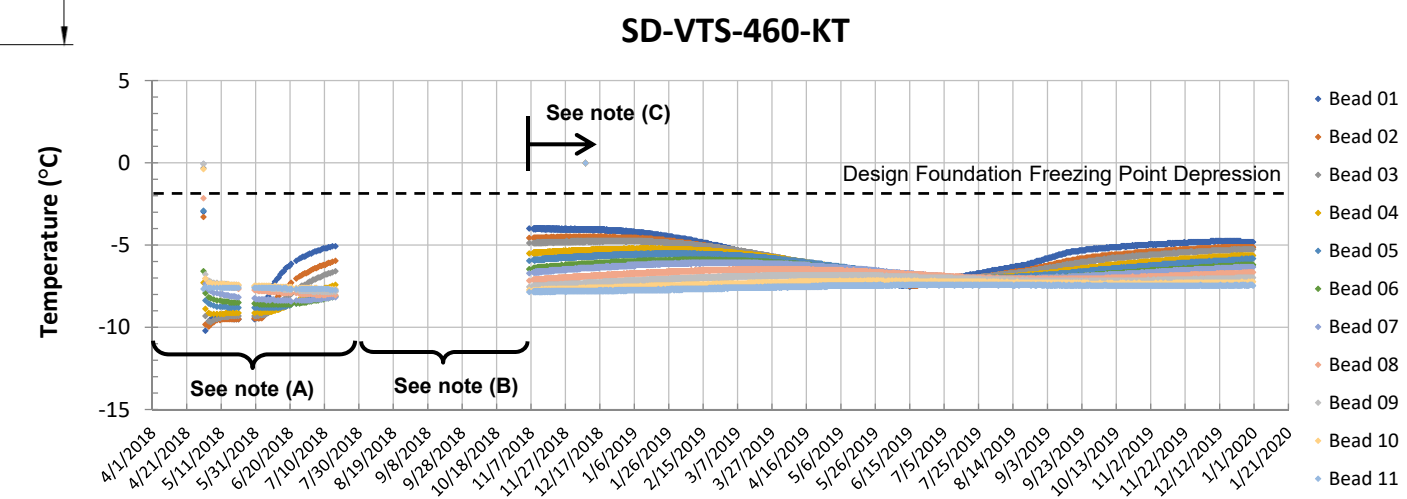
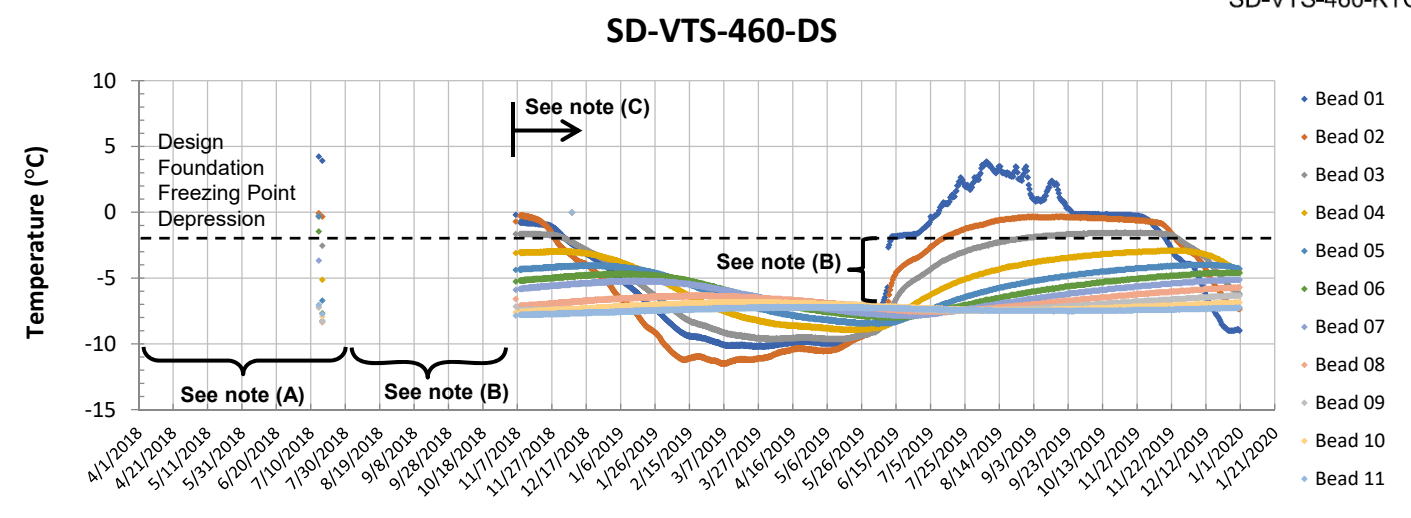
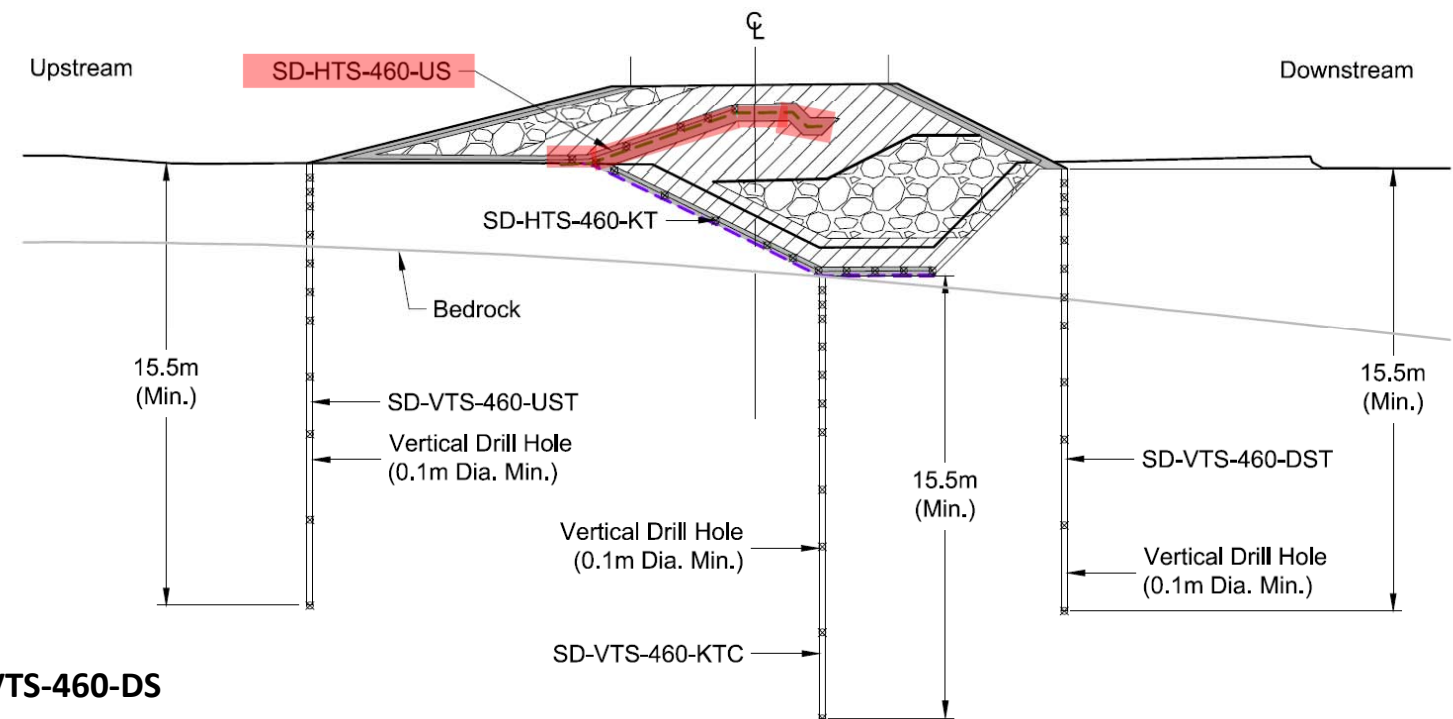


SD-HTS-460-US

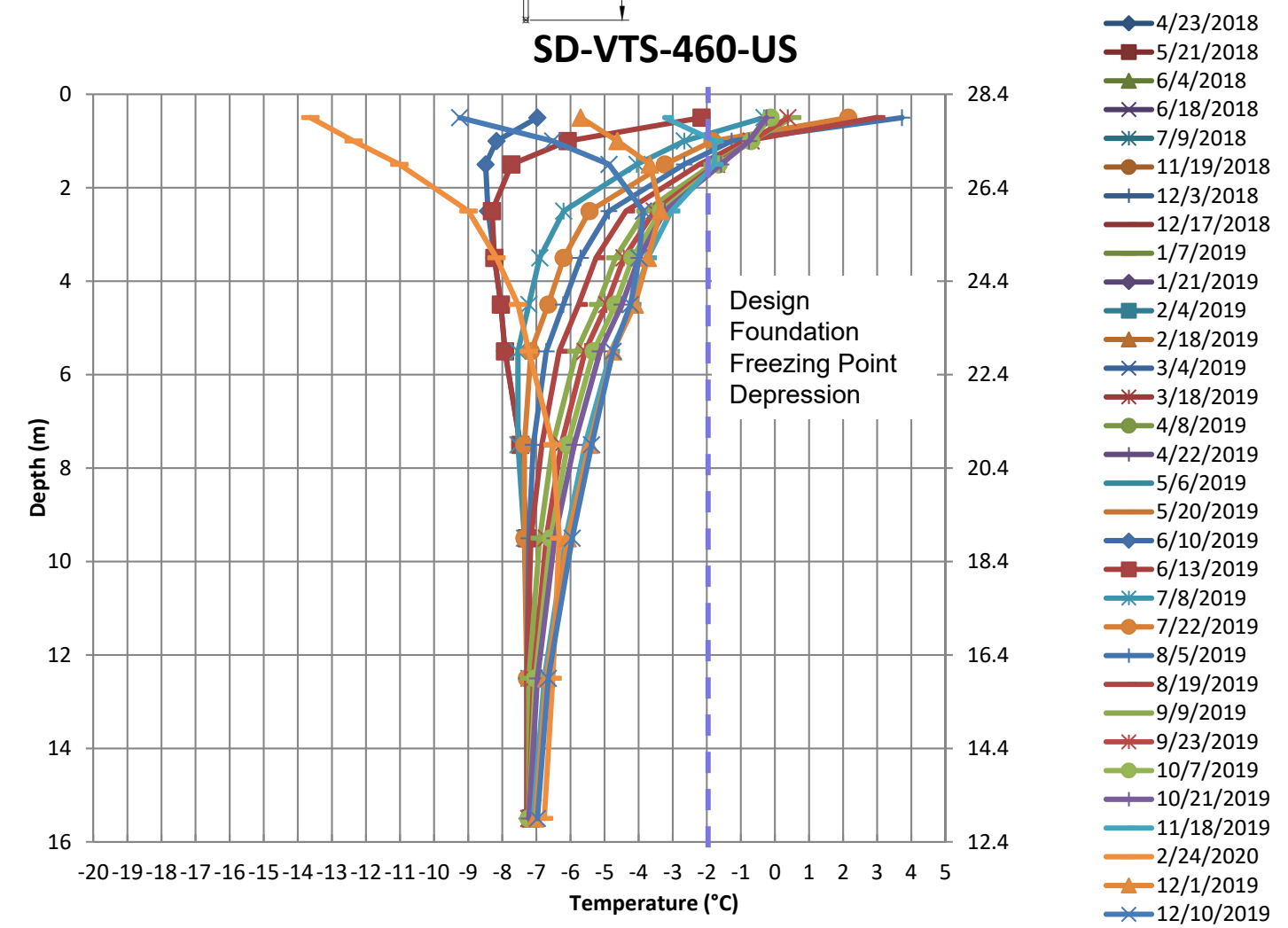
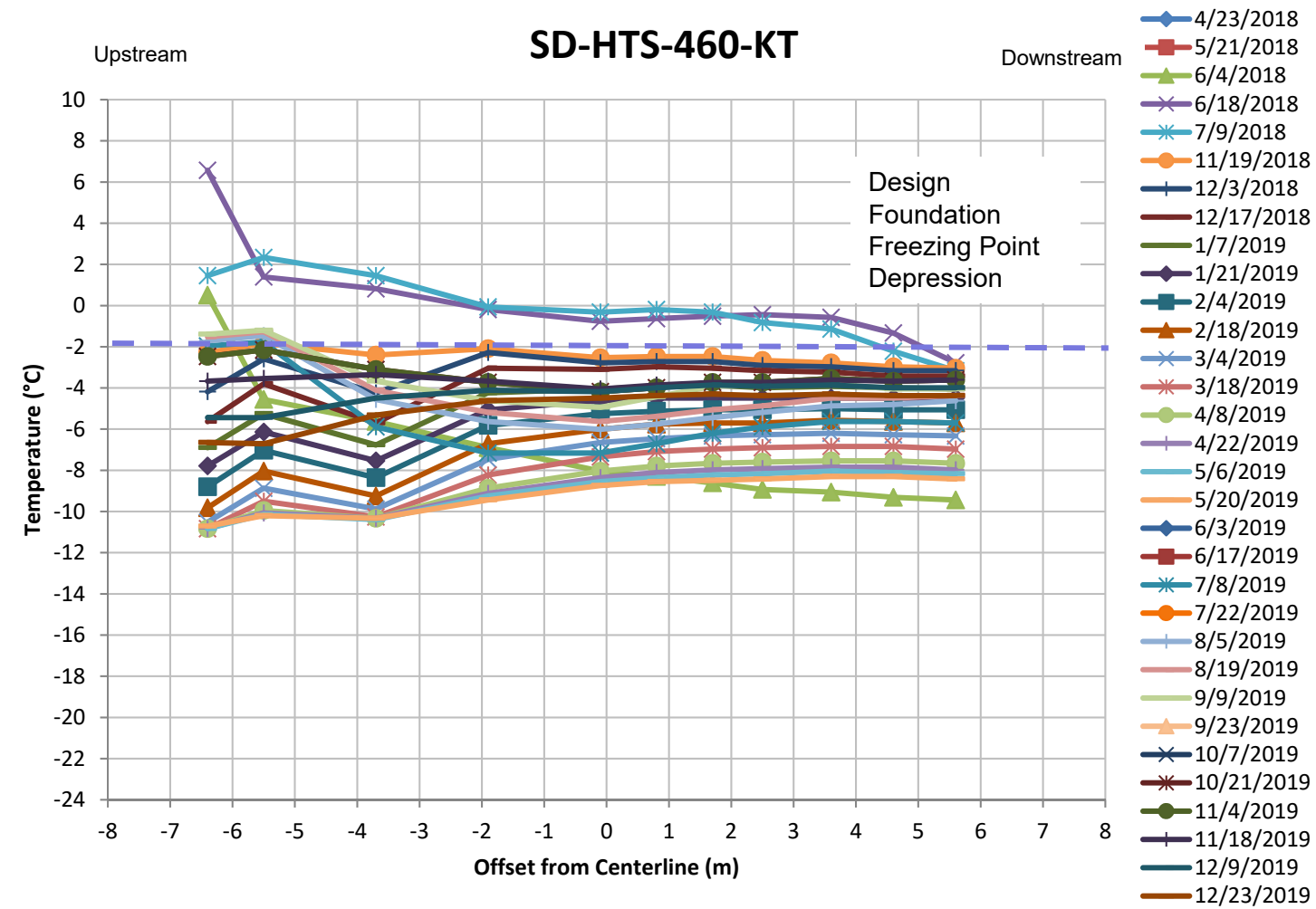
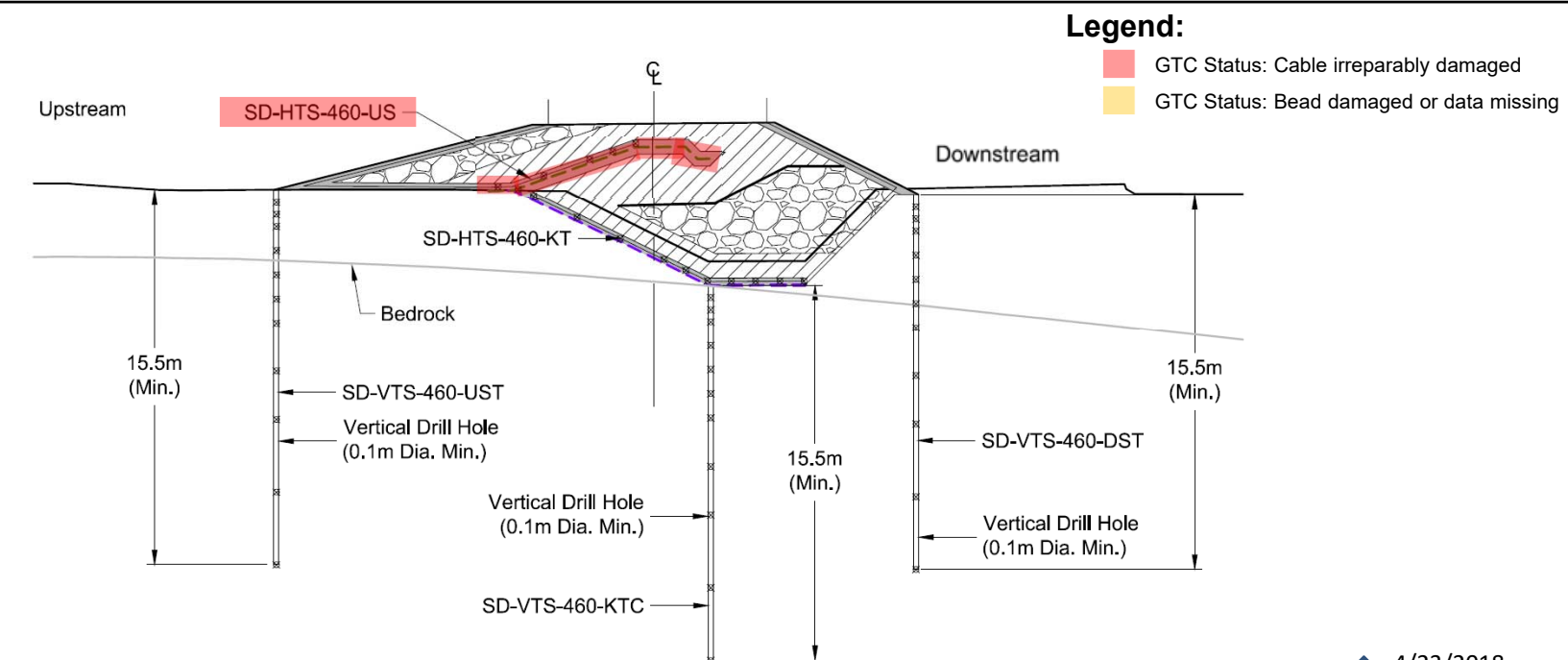
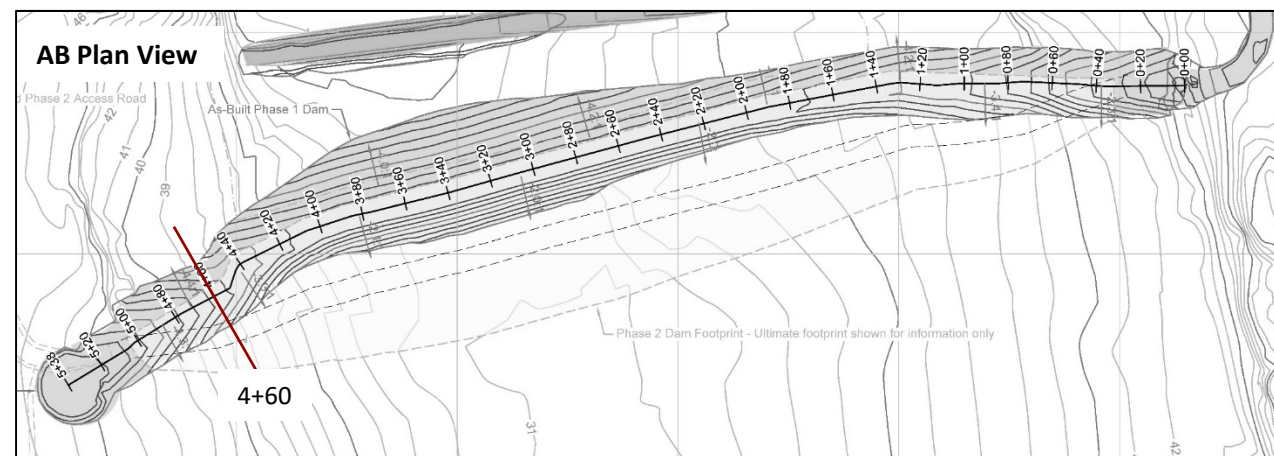


- Notes:
- Bead numbers increase from upstream to downstream (horizontal) and top to bottom (vertical)
 - SD-HTS-B1-KT is located along upstream crest of key trench (not shown in drawing)
 - (A) Measurements collected between April and August 2018 were taken during construction
 - (B) No measurements were collected between September 2018 to November 2018 as the GTC's were extended and repaired, and the data loggers were set up on site.
 - (C) From November 2018 onwards, data loggers were installed and placed on site, providing higher resolution and more frequent data transmissions

Legend:
GTC Status: Cable irreparably damaged
GTC Status: Bead damaged or data missing

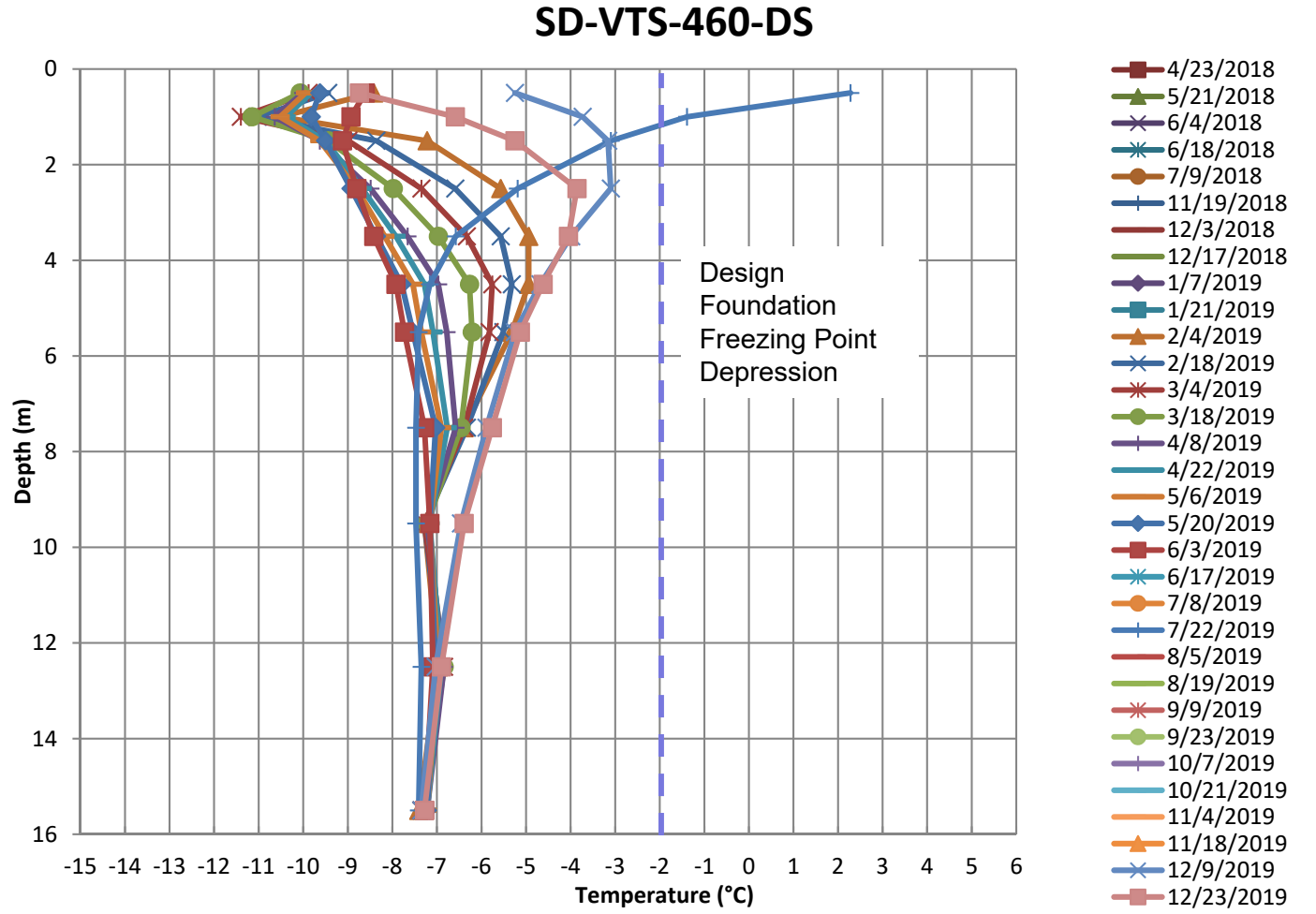
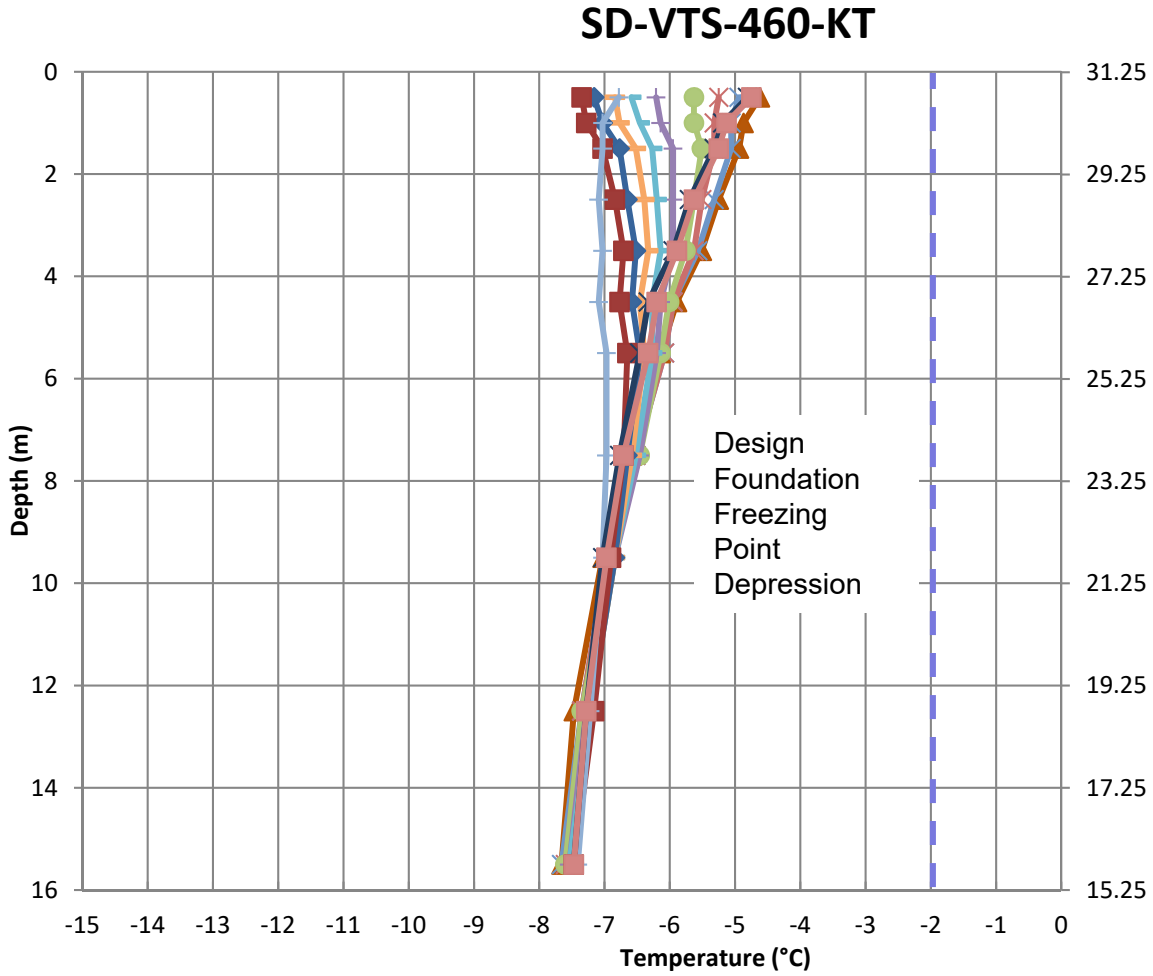
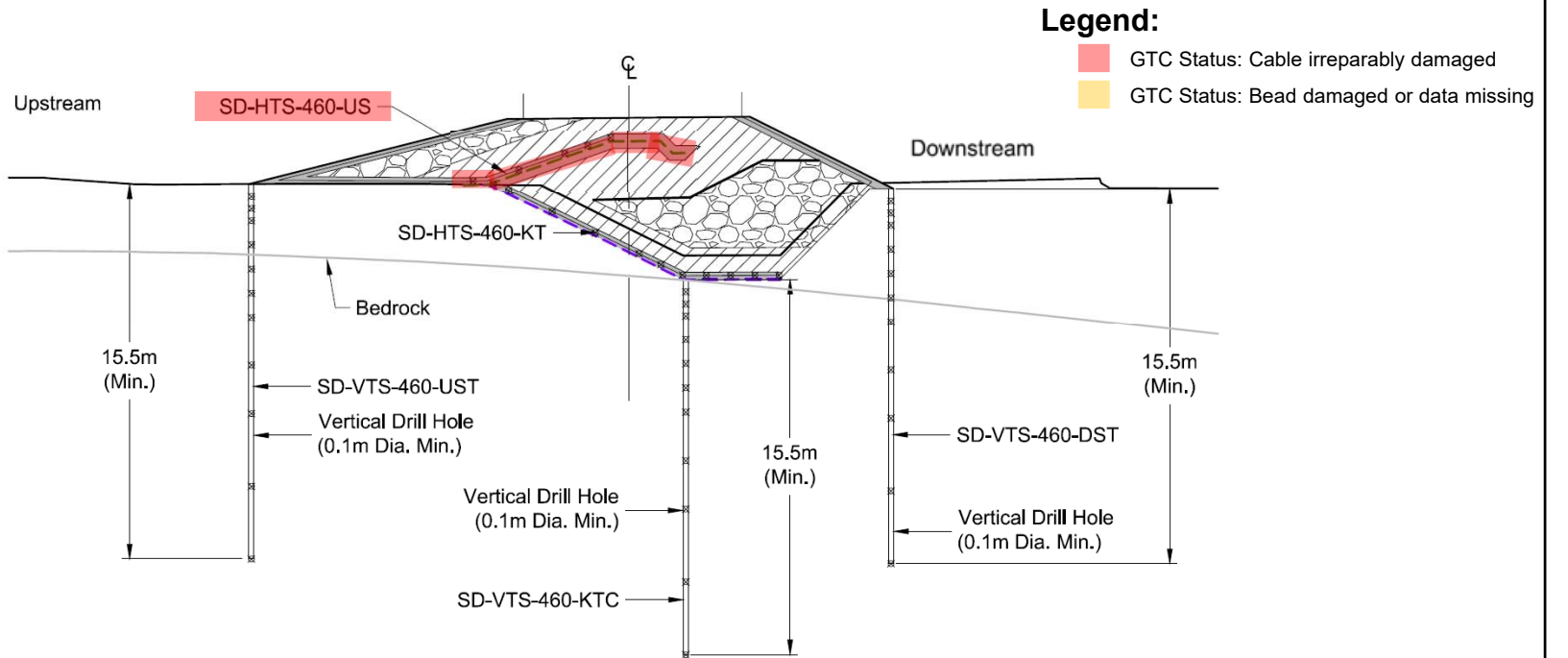
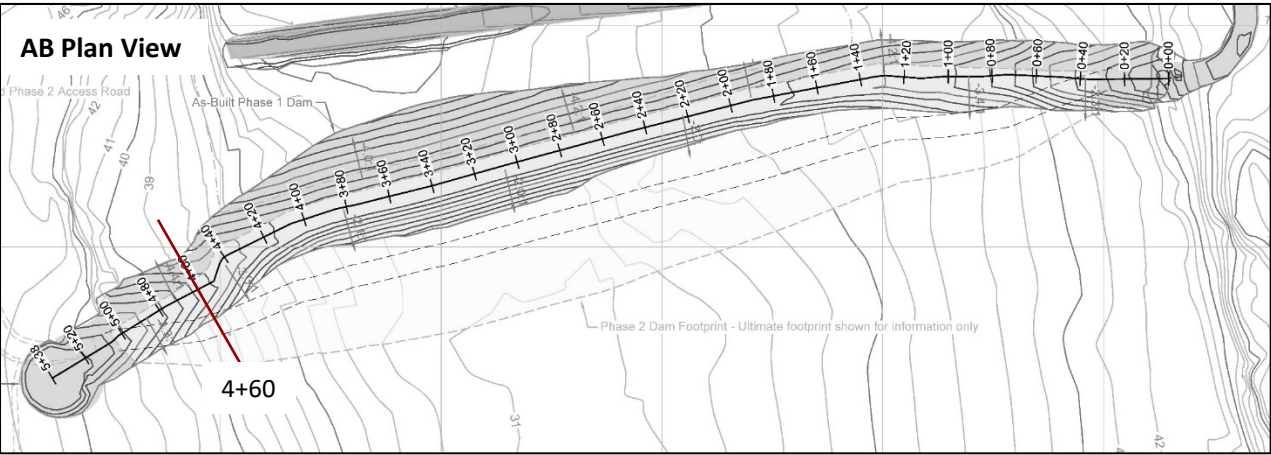


- Notes:**
- Bead numbers increase from upstream to downstream (horizontal) and top to bottom (vertical)
 - **(A)** Measurements collected between April and August 2018 were taken during construction
 - **(B)** No measurements were collected between September 2018 to November 2018 as the GTC's were extended and repaired, and the data loggers were set up on site.
 - **(C)** From November 2018 onwards, data loggers were installed and placed on site, providing higher resolution and more frequent data transmissions
 - **(D)** SD-VTS-460-US cable was damaged after construction but repaired, started transmitting late August 2019.



Note:

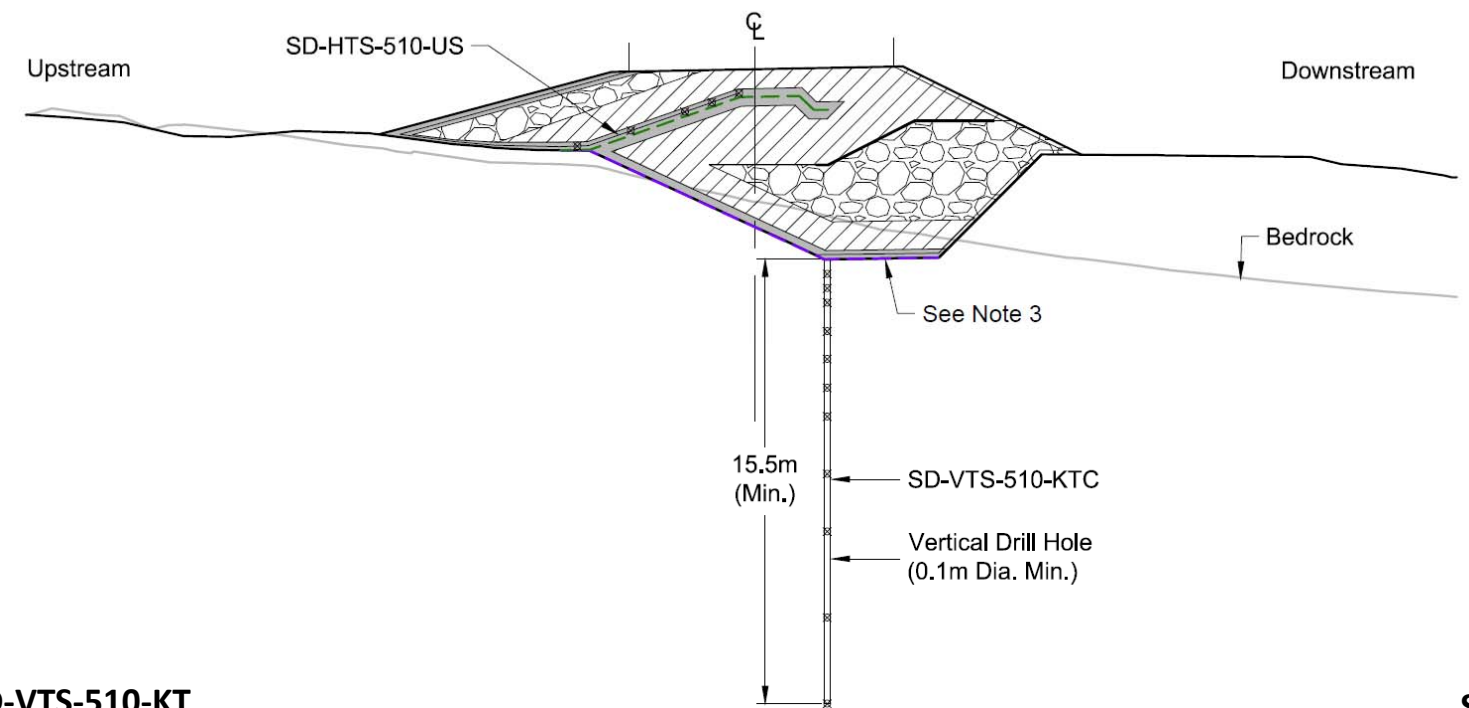
- Legend represents full monitoring year. Only dates with available data are shown on chart
- Bead offset from centerline for SD-HTS-460-US is approximate.
- No data collected between September 16, 2018 and November 6, 2018



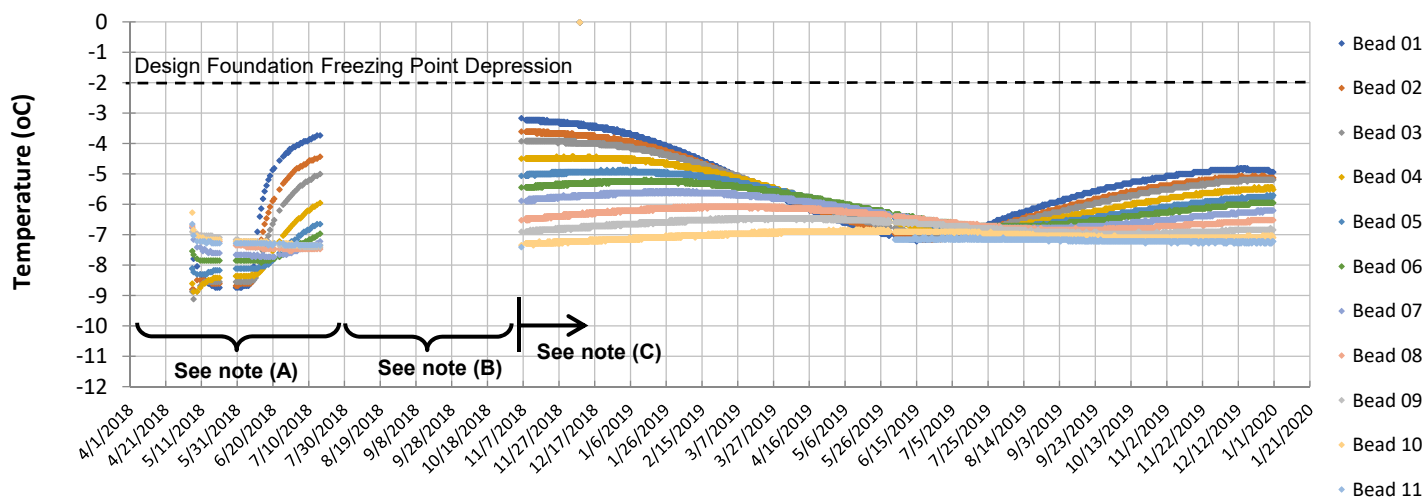
Note:

- Legend represents full monitoring year. Only dates with available data are shown on chart
- No data collected between September 16, 2018 and November 6, 2018

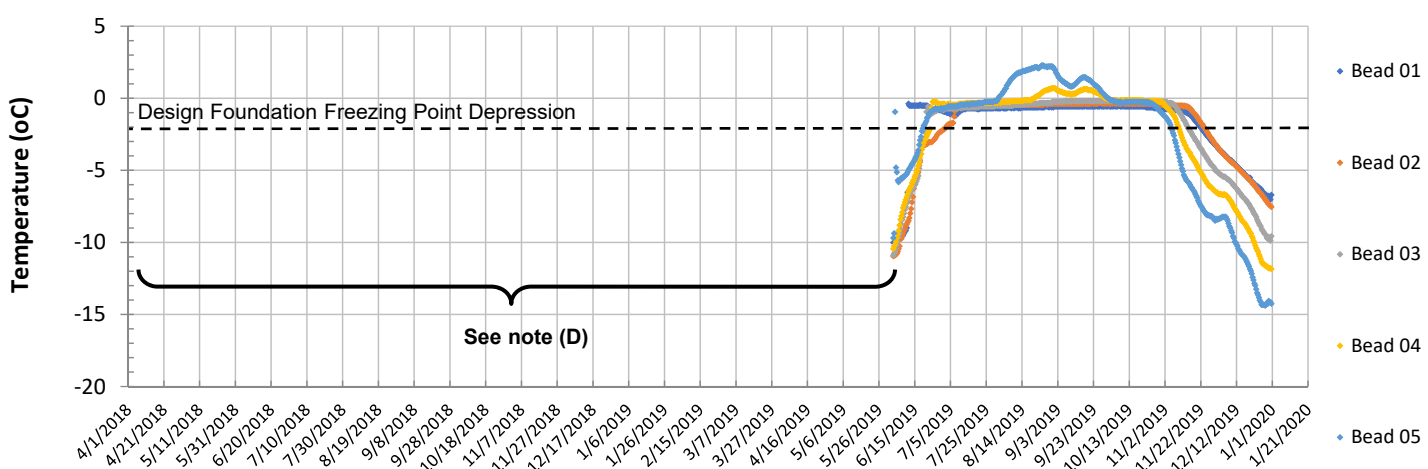
Legend:
GTC Status: Cable irreparably damaged
GTC Status: Bead damaged or data missing



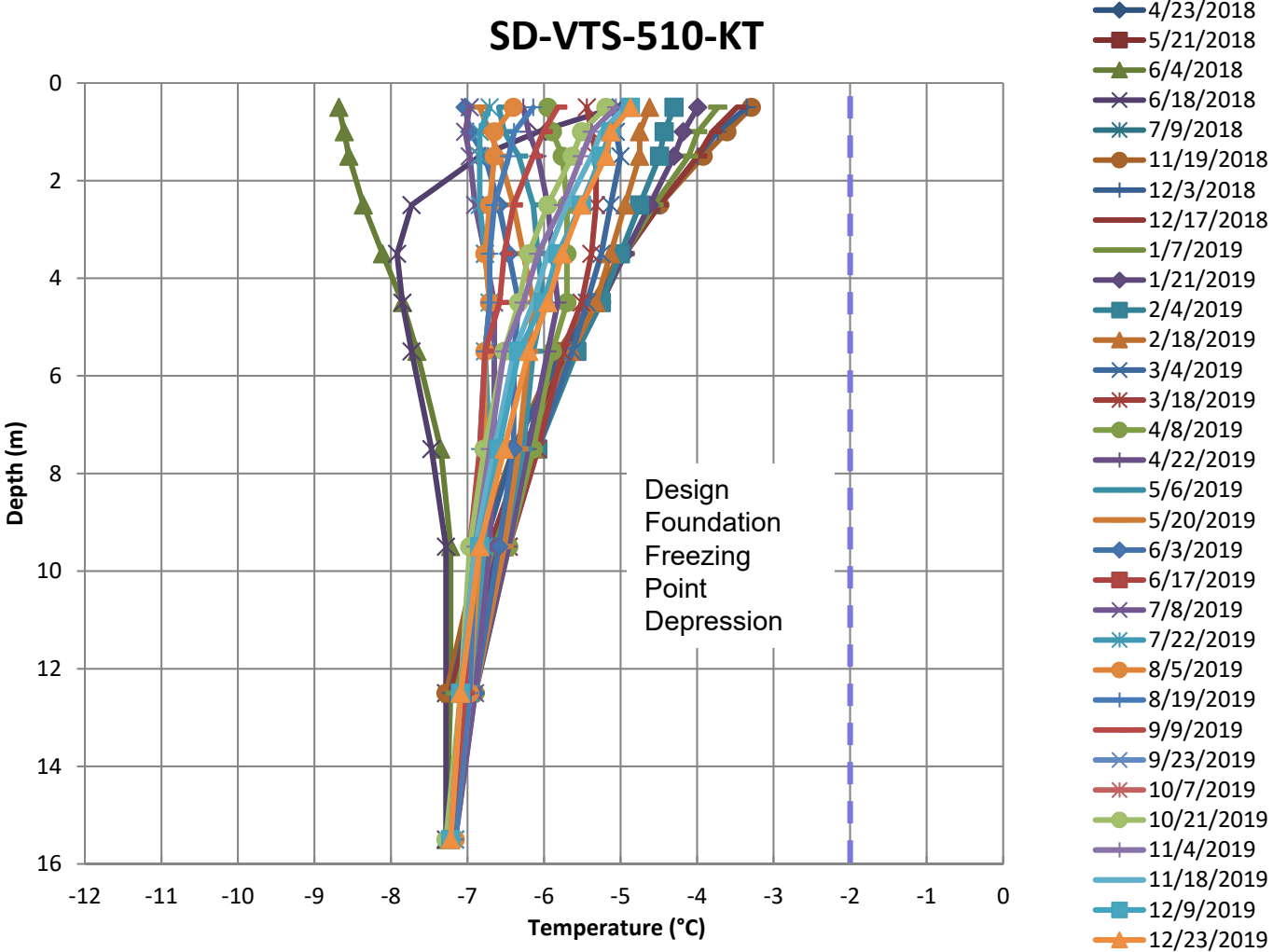
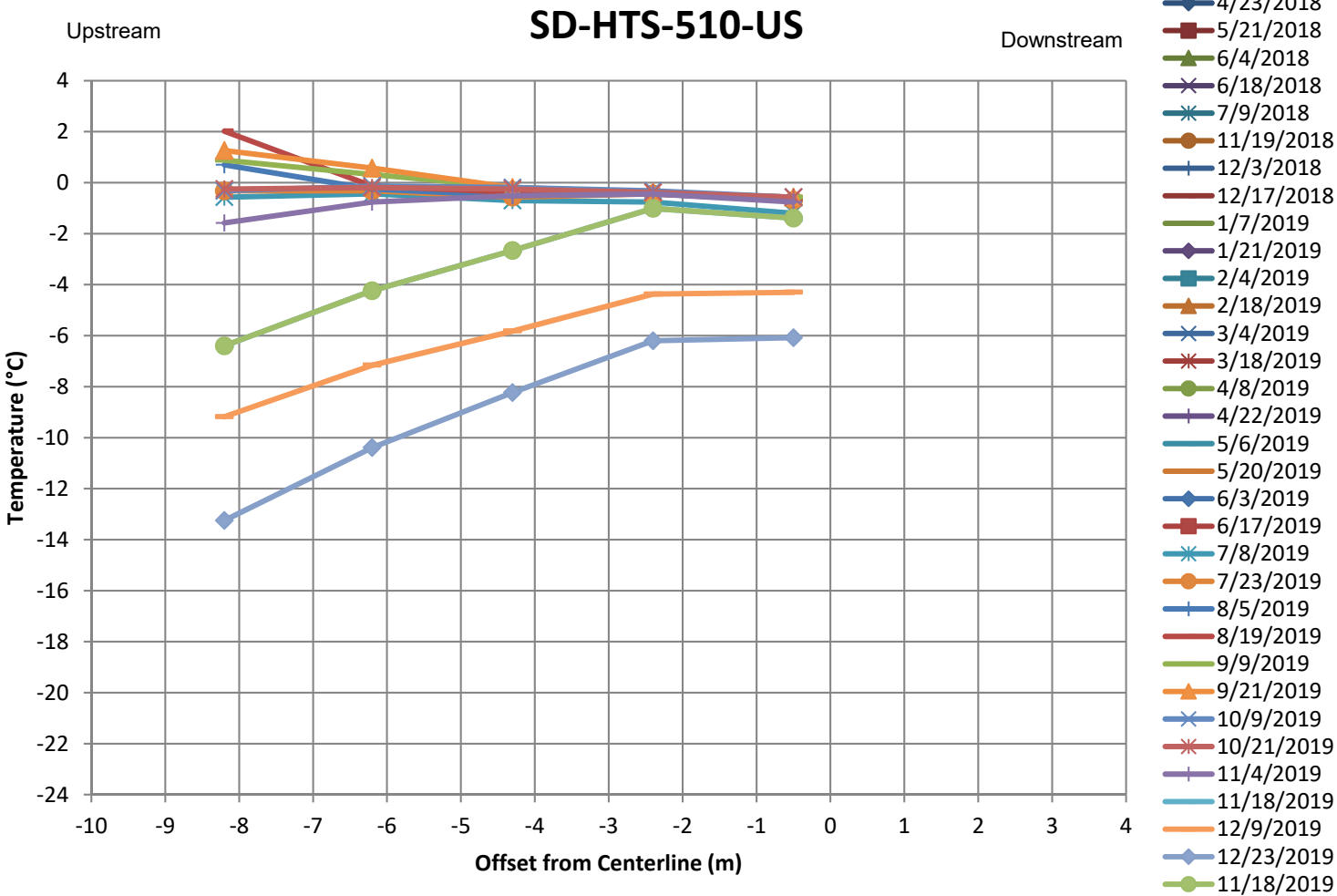
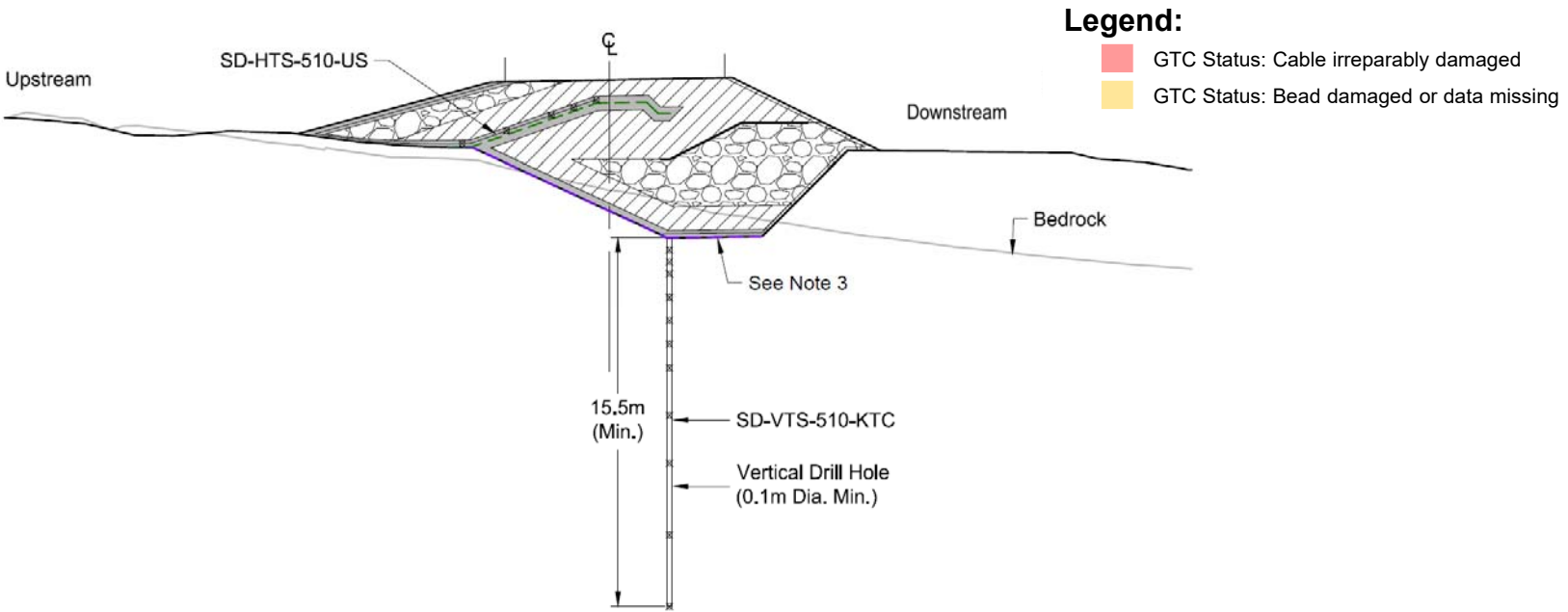
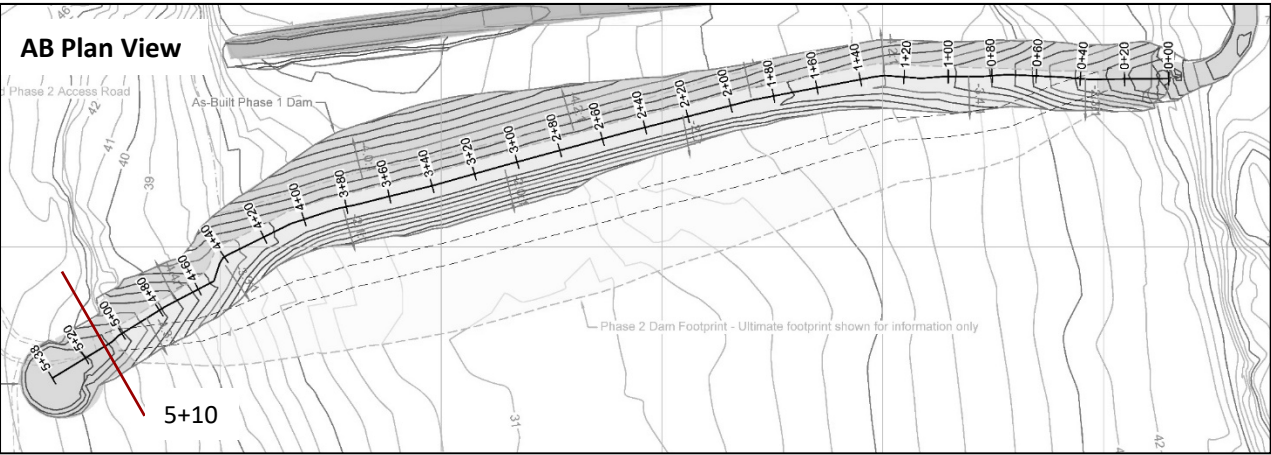
SD-VTS-510-KT



SD-VTS-510-KT



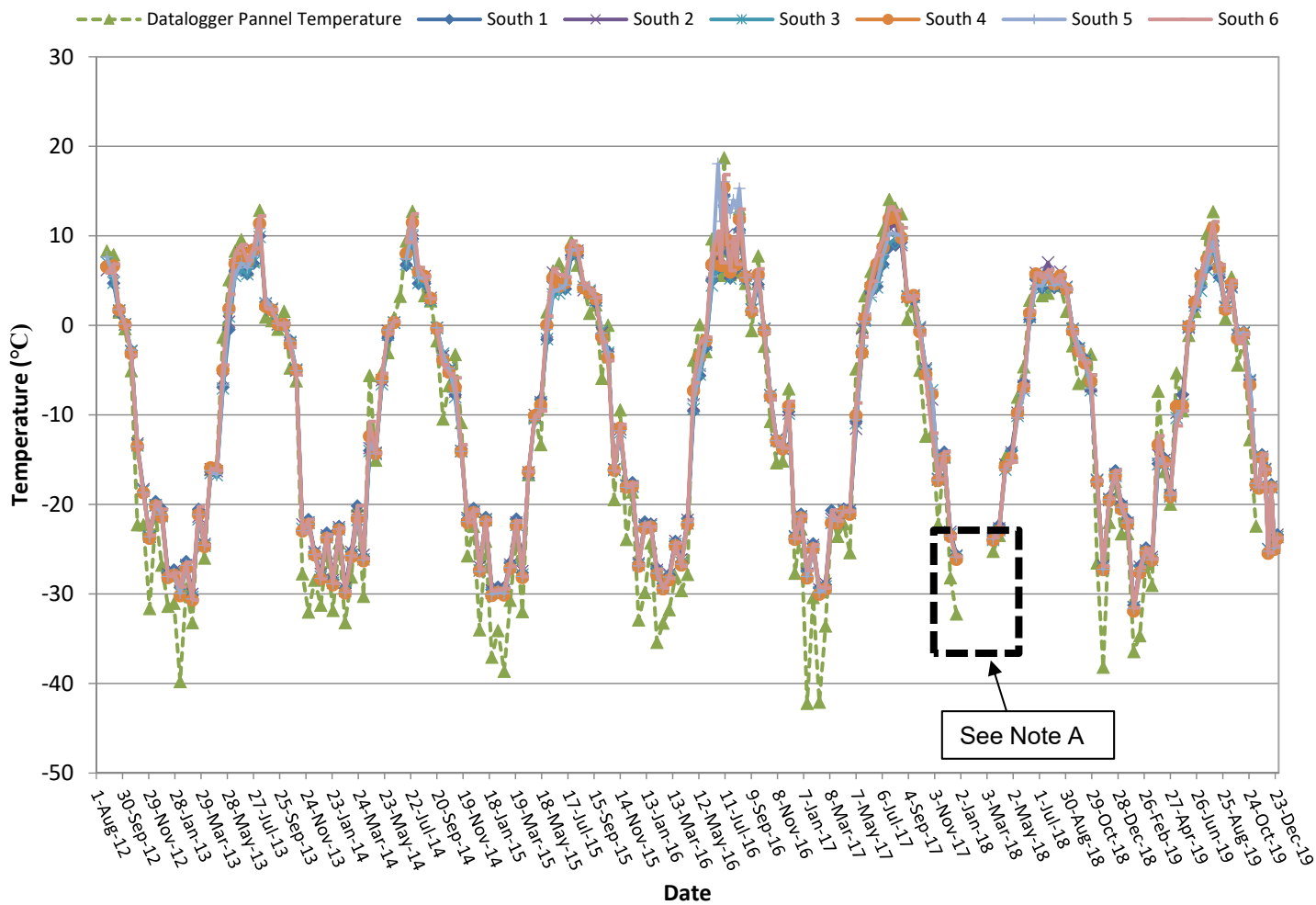
- Notes:
- Bead numbers increase from upstream to downstream (horizontal) and top to bottom (vertical)
 - (A) Measurements collected between April and August 2018 were taken during construction
 - (B) No measurements were collected between September 2018 to November 2018 as the GTC's were extended and repaired, and the data loggers were set up on site.
 - (C) From November 2018 onwards, data loggers were installed and placed on site, providing higher resolution and more frequent data transmissions
 - (D) SD-HTS-510-US cable was damaged after construction but repaired, started transmitting in May 2019



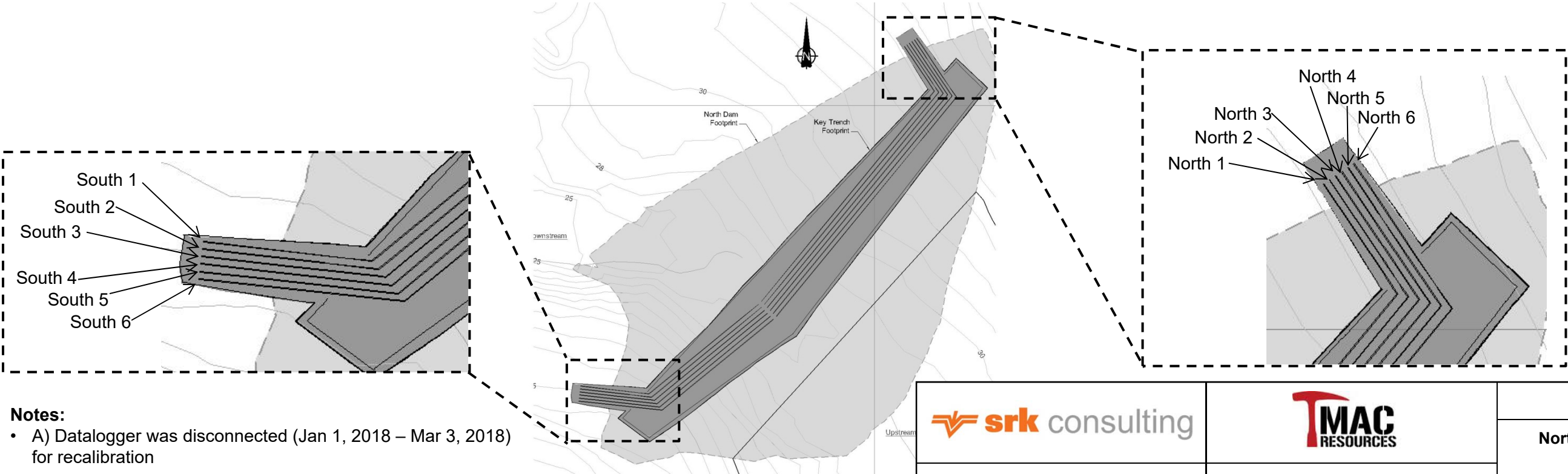
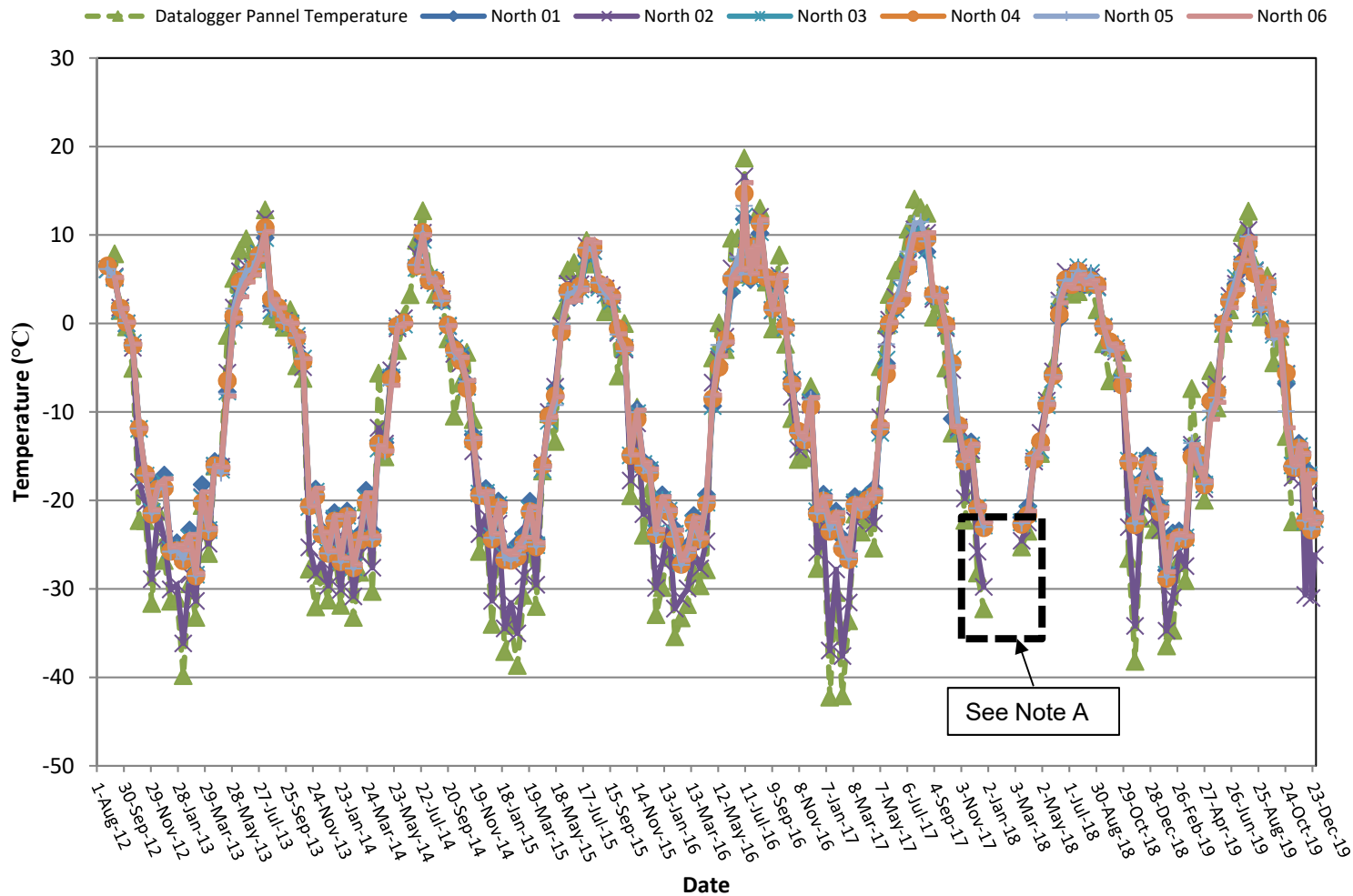
Note:

- Legend represents full monitoring year. Only dates with available data are shown on chart
- No data collected prior to May 2019 for SD-HTS-510-US
- No data collected between September 16, 2018 and November 6, 2018.

South Thermosyphon Monitoring



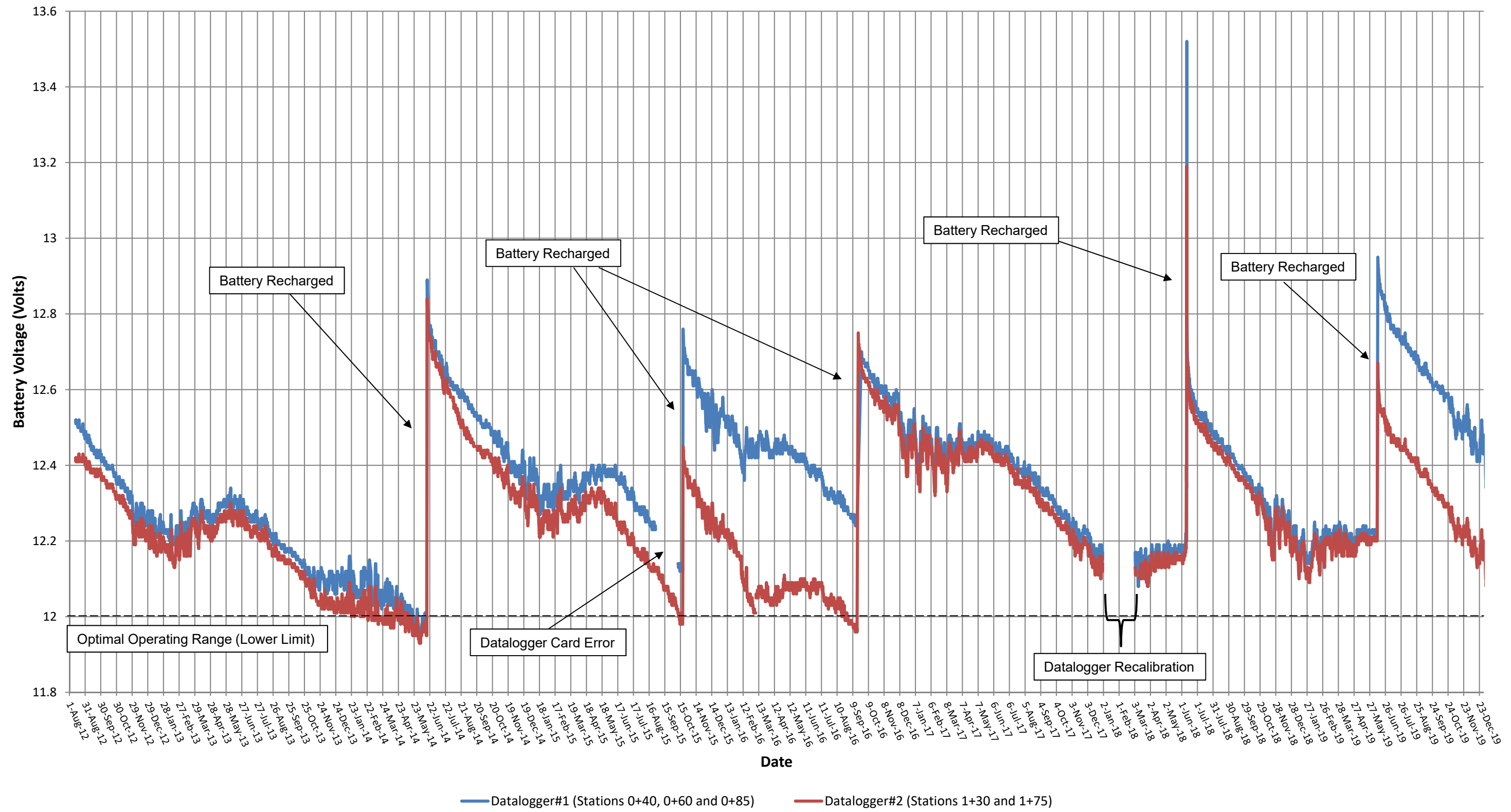
North Thermosyphon Monitoring



- Notes:**
- A) Datalogger was disconnected (Jan 1, 2018 – Mar 3, 2018) for recalibration

 Job No: 1CT022.038 Filename: AppendixC_Thermosyphons.pptx	 DORIS TIA	2019 AGI – North Dam		
		North Dam Thermosyphon Monitoring		
		Date: Feb. 2020	Approved: AB	Figure: C.1

Appendix D – Datalogger Battery Levels



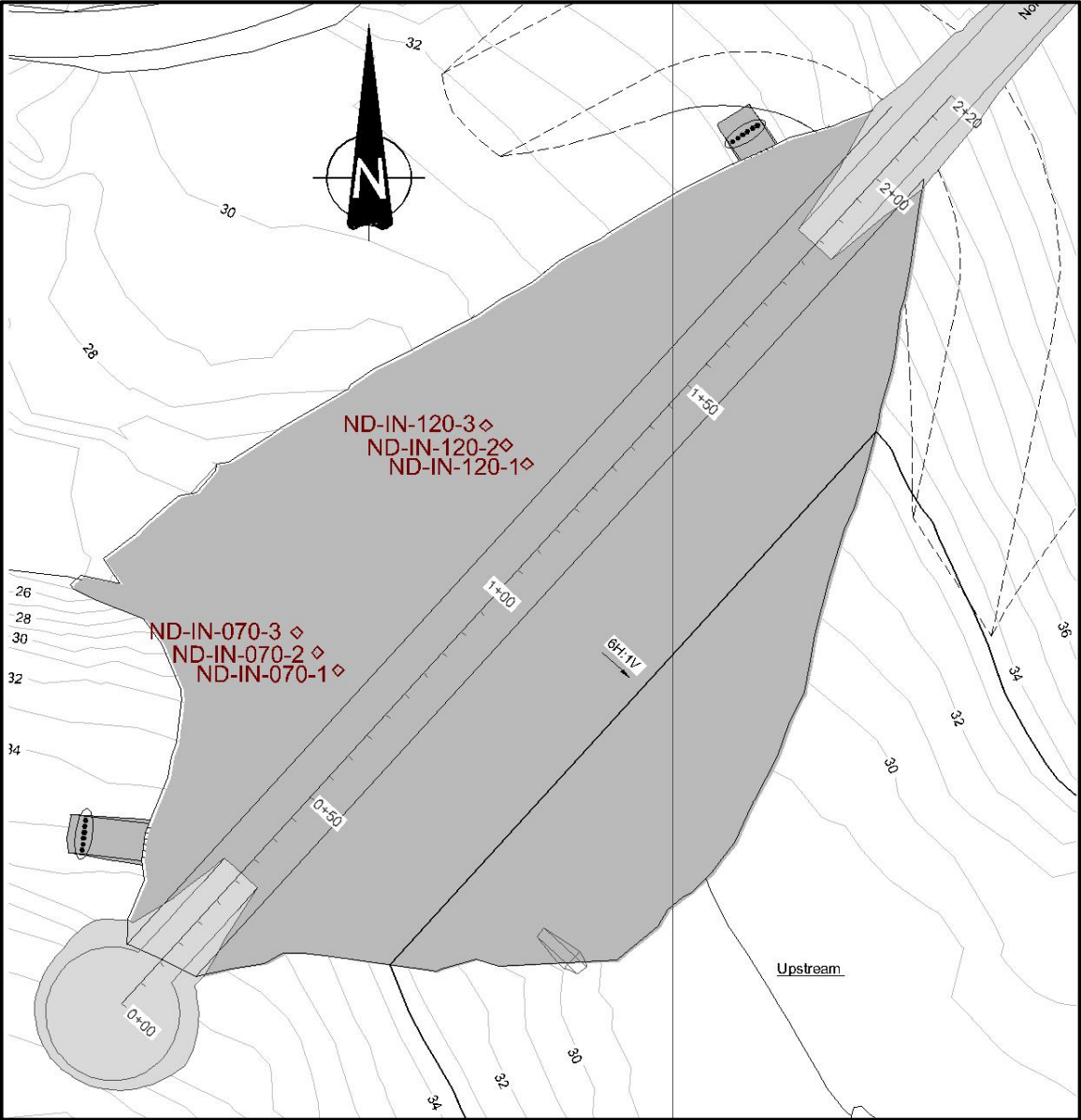
- Notes:**
1. Operating voltage range is 9.6 to 16 V
 2. Optimal operating voltage is 12 to 14 V
 3. Data logger will shut down if voltage drops below 9.6 V

		2019 AGI – North Dam		
		North Dam Datalogger Battery Voltage with Time		
Job No: 1CT022.038 Filename: AppendixD_1CT022.038_Batteries.pptx	DORIS TIA	Date: Feb. 2020	Approved: AB	Figure: D.1

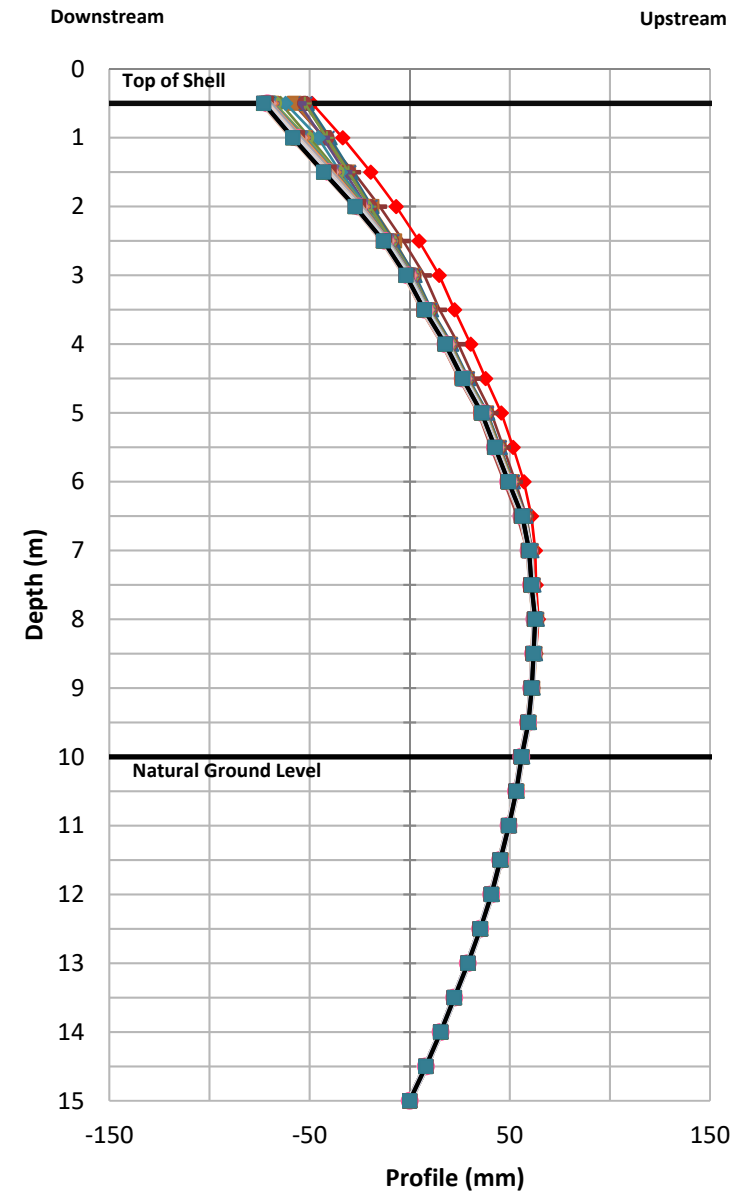
Date	Inclinometers Measured						Data Quality
	070-1	070-2	070-3	120-1	120-2	120-3	
10-Nov-18	x	x	x	x	x	x	
1-Jan-19	x	x	x	x	x	x	
25-Jan-19	x	x	x	x	x	x	
14-Feb-19	x	x	x	x	x	x	February survey performed over two days. 070-2 has readings for Feb 14/19 and Feb 16/19
16-Feb-19	x	x	x	x	x	x	070-2 Severed "B" wire, incorrect values; 120-1, 120-2 and 120-3 Blank/incorrect values for "B" wires
14-Apr-19	x	x	x	x	x	x	070-2 Severed "B" wire repaired
10-May-19	x	x	x	x	x	x	
11-Jun-19	x	x	x	x	x	x	
27-Jul-19	x	x	x	x	x	x	
25-Aug-19	x	x	x	x	x	x	
28-Sep-19	x	x	x	x	x	x	
26-Oct-19	x	x	x	x	x	x	120-1 Multiple duplicate readings, excluded from graph
23-Nov-19	x	x	x	x	x	x	
14-Dec-19	x	x	x	x	x	x	

Notes:

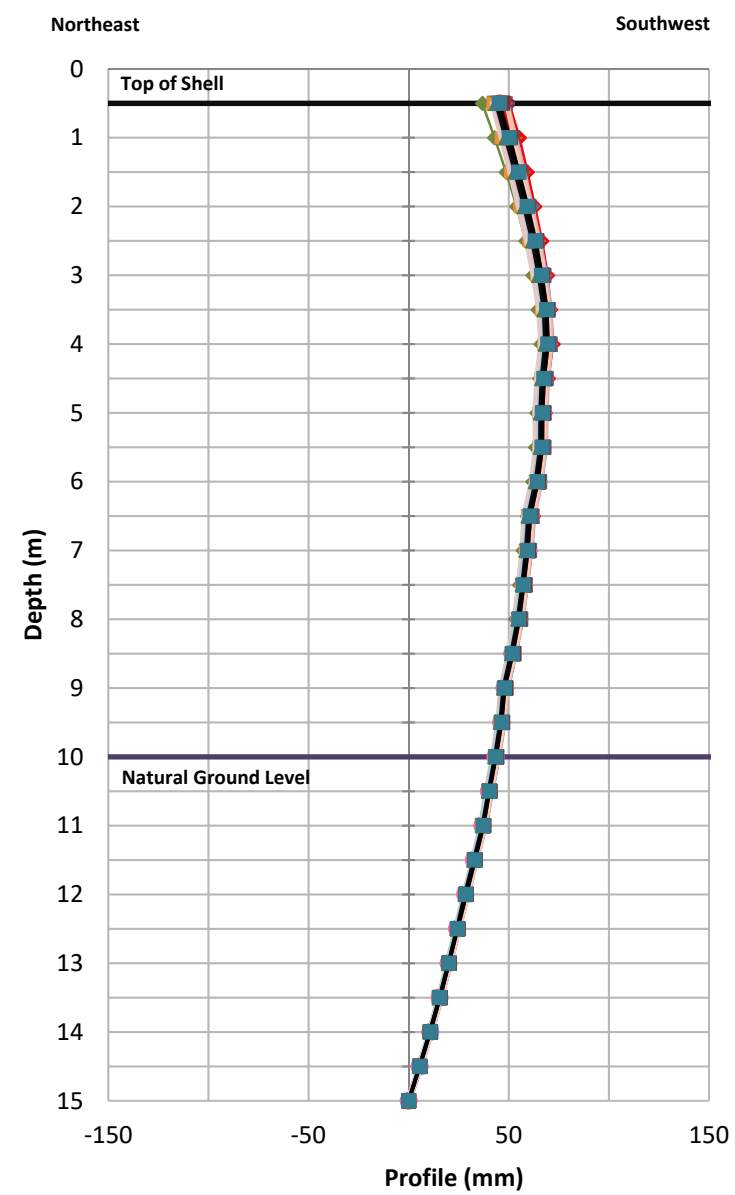
1.
- Green marks good quality survey data
2.
- Orange marks poor quality survey data (excluded from graphs or modified)
3.
- Grey indicates that no survey data was collected



Profile Perpendicular to Centerline

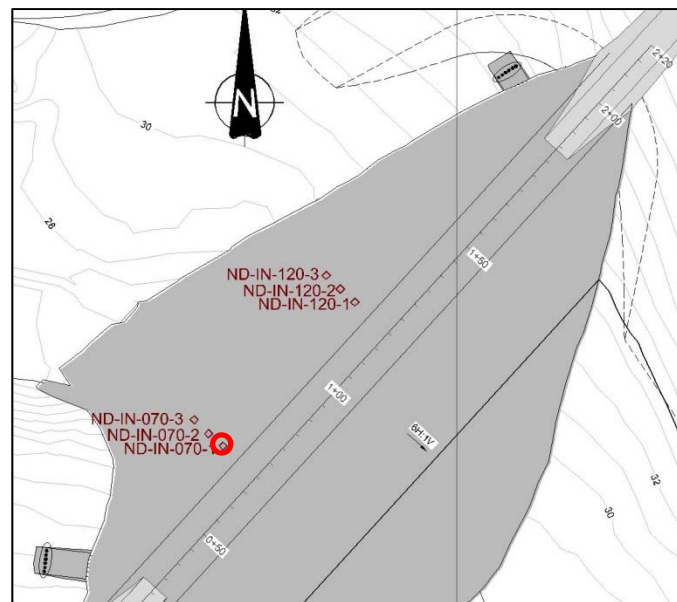


Profile Parallel to Centerline



LEGEND:

Initial Reading (9/8/2012)	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	3/7/2016
4/11/2016	7/2/2016
8/14/2016	9/25/2016
11/26/2016	12/24/2016
1/26/2017	2/23/2017
3/23/2017	4/15/2017
5/20/2017	6/25/2017
7/16/2017	8/9/2017
9/14/2017	10/14/2017
11/16/2017	12/16/2017
1/16/2018	2/16/2018
3/21/2018	4/20/2018
5/19/2018	6/8/2018
7/7/2018	8/3/2018
9/29/2018	10/21/2018
11/10/2018	1/1/2019
1/25/2019	2/14/2019
4/14/2019	5/10/2019
6/11/2019	7/27/2019
8/25/2019	9/28/2019
10/26/2019	11/23/2019
1/16/2020	2/18/2020



Notes:

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



Job No: 1CT022.038
Filename: AppE_1CT022.038_Inclinometers.pptx



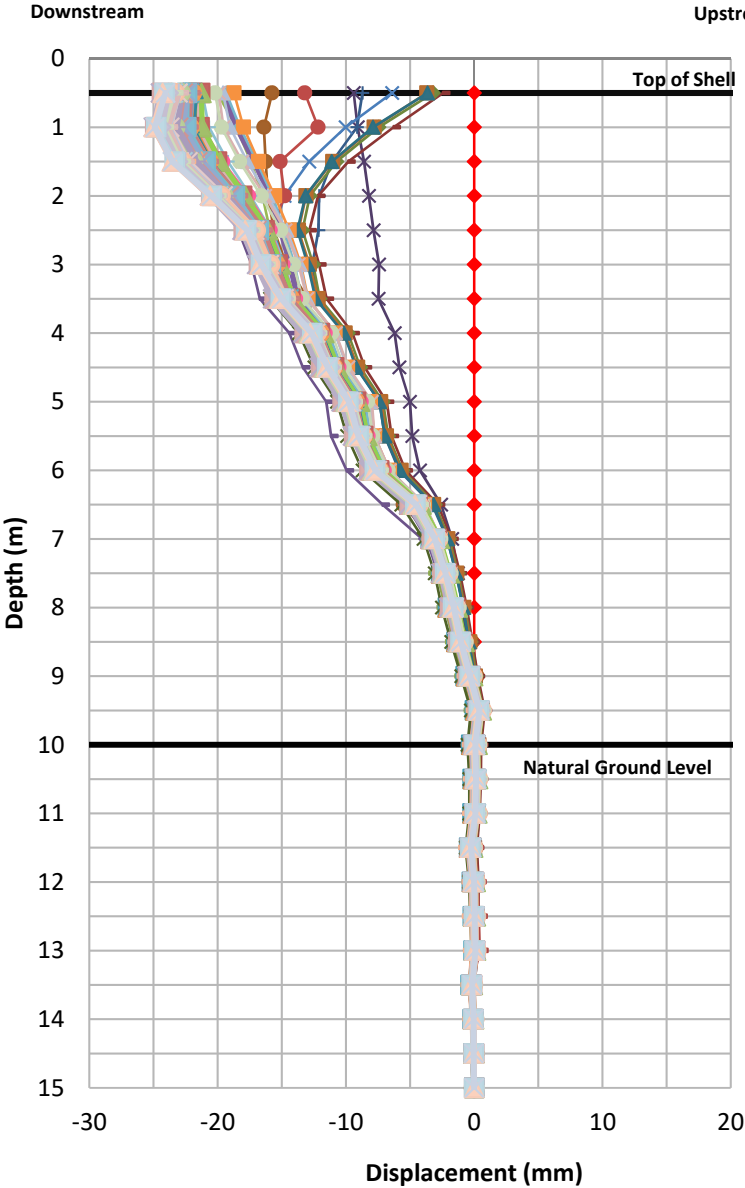
DORIS TIA

2019 AGI - North Dam

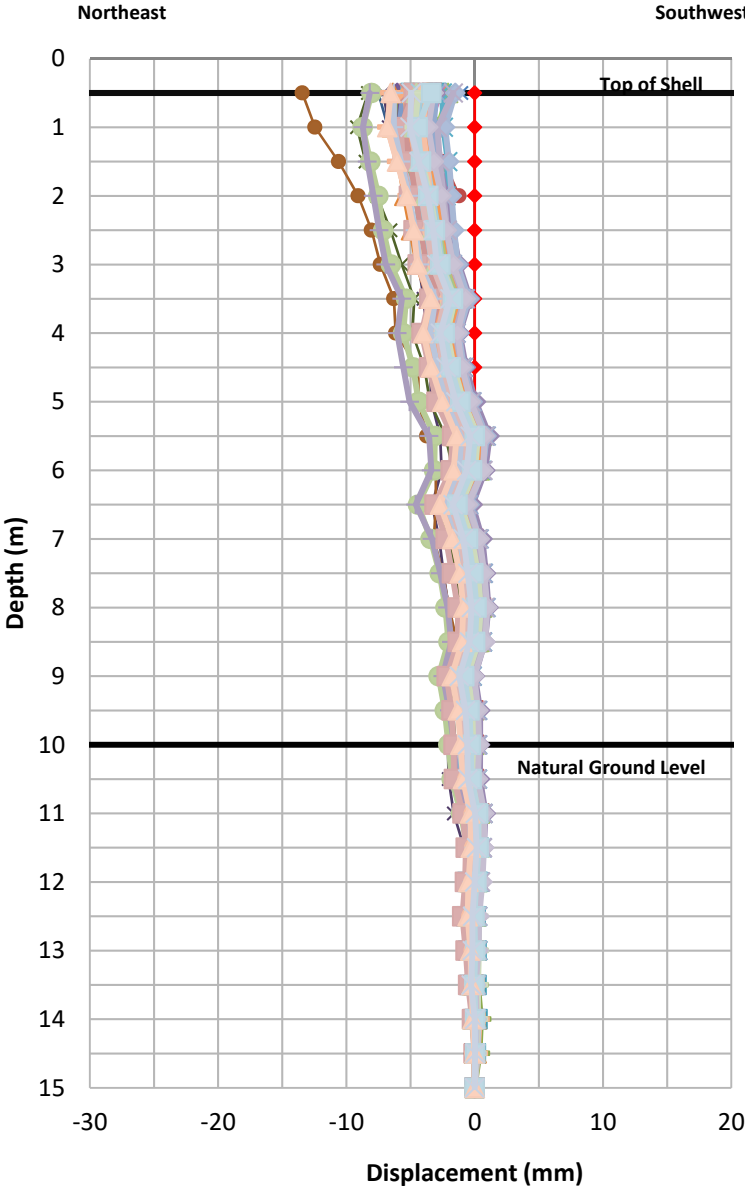
Inclinometer 070-1 Profiles

Date: Feb. 2020
Approved: AB
Figure: E.2

Displacement Perpendicular to Centerline

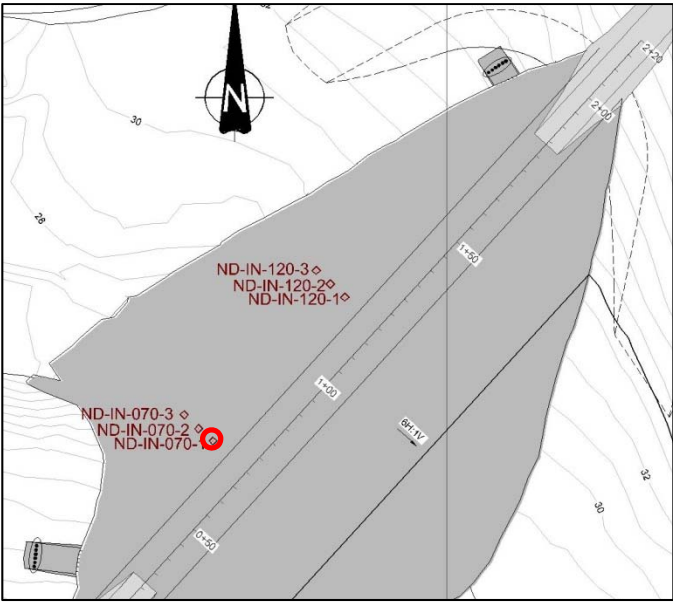


Displacement Parallel to Centerline



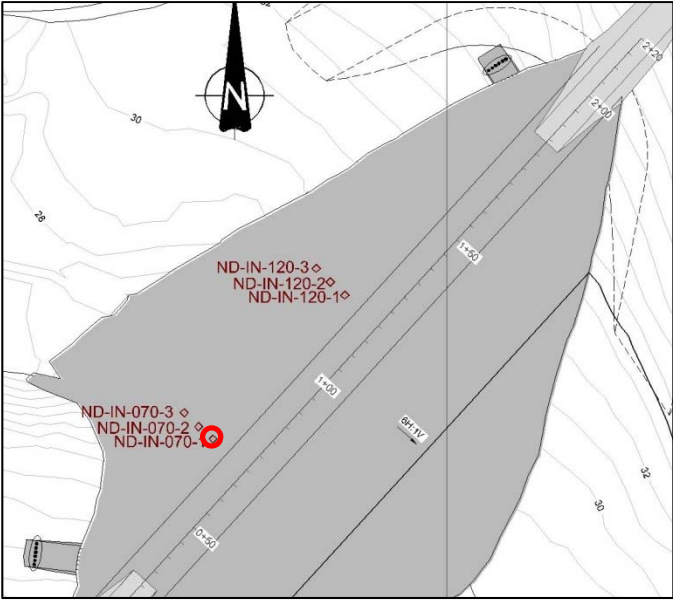
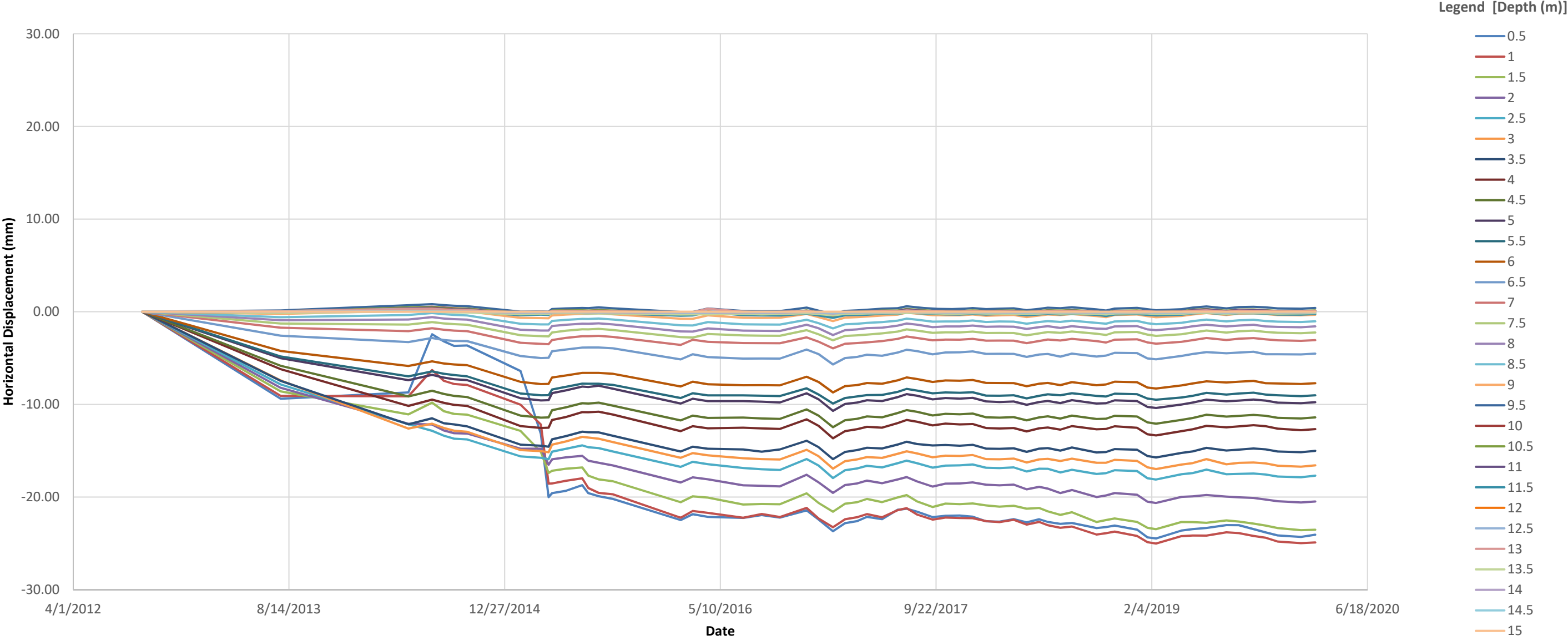
LEGEND:

- Initial Reading (9/8/2012)
- 10/1/2013
- 7/12/2014
- 9/1/2014
- 2/2/2015
- 4/8/2015
- 5/18/2015
- 7/9/2015
- 9/4/2015
- 11/25/2015
- 2/8/2016
- 4/11/2016
- 8/14/2016
- 11/26/2016
- 1/26/2017
- 3/23/2017
- 5/20/2017
- 7/16/2017
- 9/14/2017
- 11/16/2017
- 1/16/2018
- 3/21/2018
- 5/19/2018
- 7/7/2018
- 9/29/2018
- 11/10/2018
- 1/25/2019
- 4/14/2019
- 6/11/2019
- 8/25/2019
- 10/26/2019
- 1/16/2020
- 7/26/2013
- 5/18/2014
- 8/8/2014
- 10/1/2014
- 3/21/2015
- 4/16/2015
- 6/25/2015
- 8/2/2015
- 10/9/2015
- 12/30/2015
- 3/7/2016
- 7/2/2016
- 9/25/2016
- 12/24/2016
- 2/23/2017
- 4/15/2017
- 8/9/2017
- 10/14/2017
- 12/16/2017
- 2/16/2018
- 4/20/2018
- 6/8/2018
- 8/3/2018
- 10/21/2018
- 1/1/2019
- 2/14/2019
- 5/10/2019
- 7/27/2019
- 9/28/2019
- 11/23/2019
- 2/18/2020



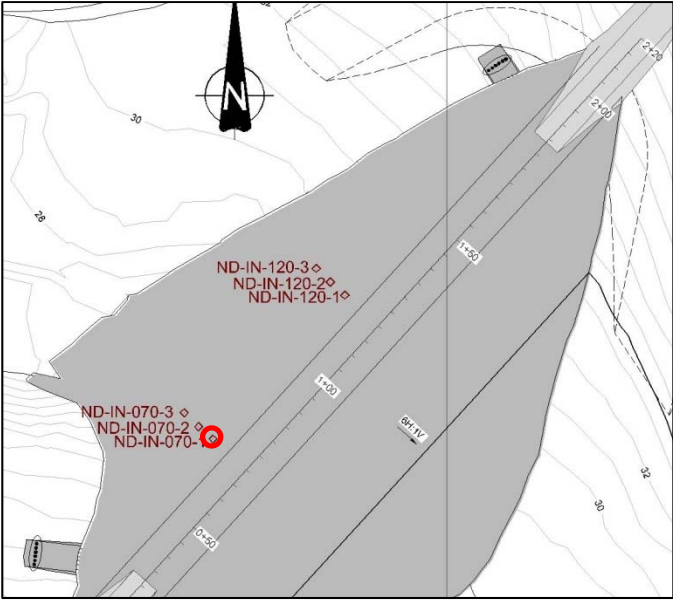
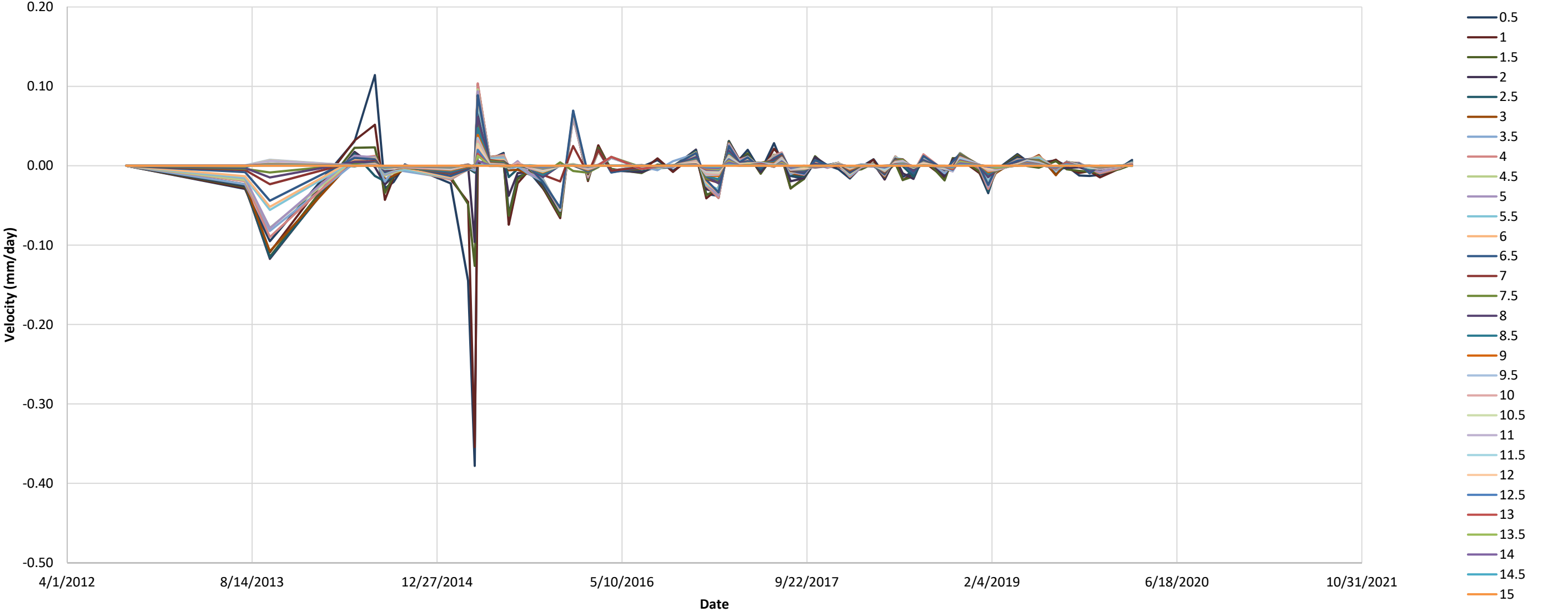
- Notes:
1. Manufacture's accuracy is +/- 0.25 mm per location
 2. Survey data excluded from the charts is noted on Figure E.1

Inclinometer 070-1A Timeseries



- Notes:**
- 1. Manufacture's accuracy is +/- 0.25 mm per location
 - 2. Survey data excluded from the charts is noted on Figure E.1
 - 3. Dashed lines represent depths at or below the natural ground surface

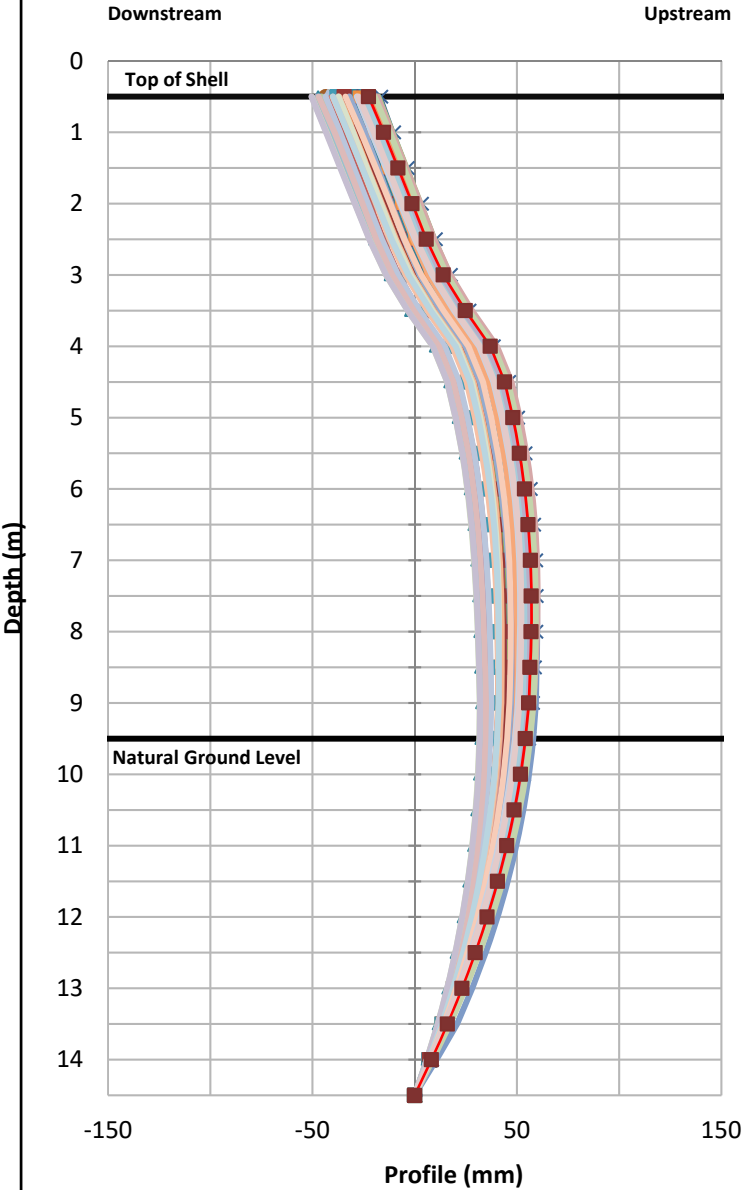
Inclinometer 070-1A Timeseries



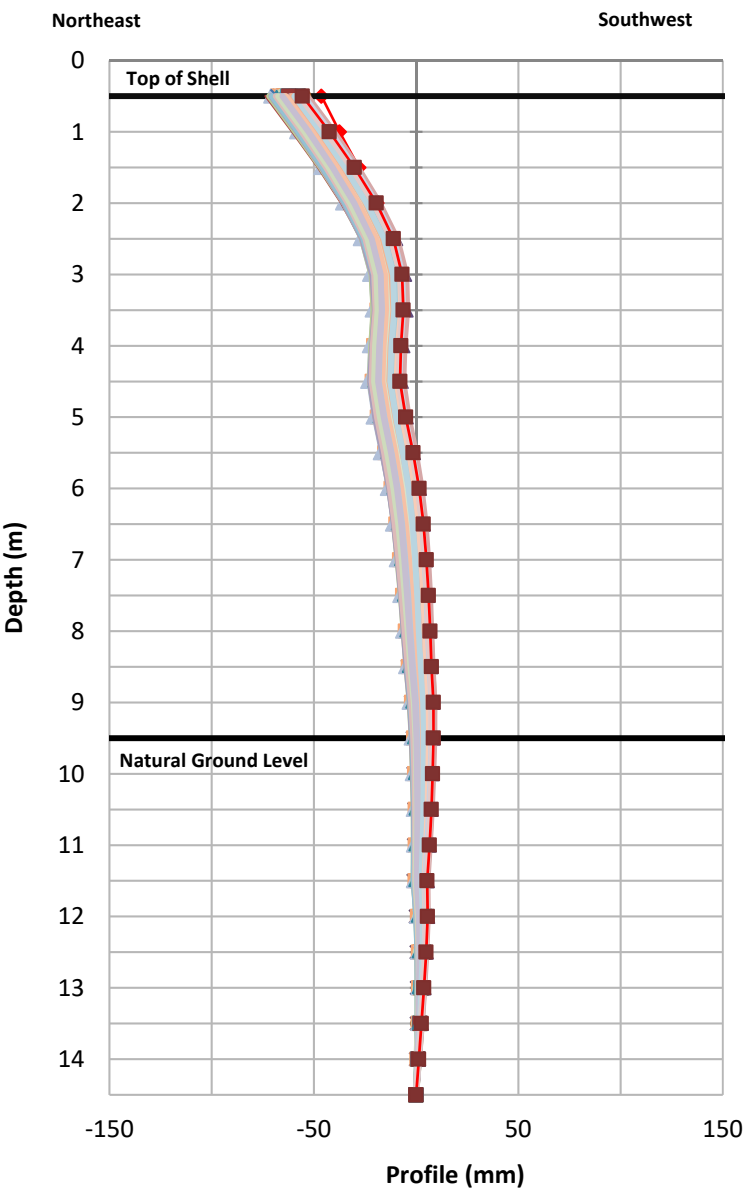
- Notes:**
1. Manufacture's accuracy is +/- 0.25 mm per location
 2. Survey data excluded from the charts is noted on Figure E.1
 3. Dashed lines represent depths at or below the natural ground surface

	2019 AGI - North Dam	
	Inclinometer 070-1A Velocity Time Series	
Job No: 1CT022.038 Filename: AppE_1CT022.038_Inclinometers.pptx	 DORIS TIA	Date: Feb. 2020 Approved: AB Figure: E.5

Profile Perpendicular to Centerline

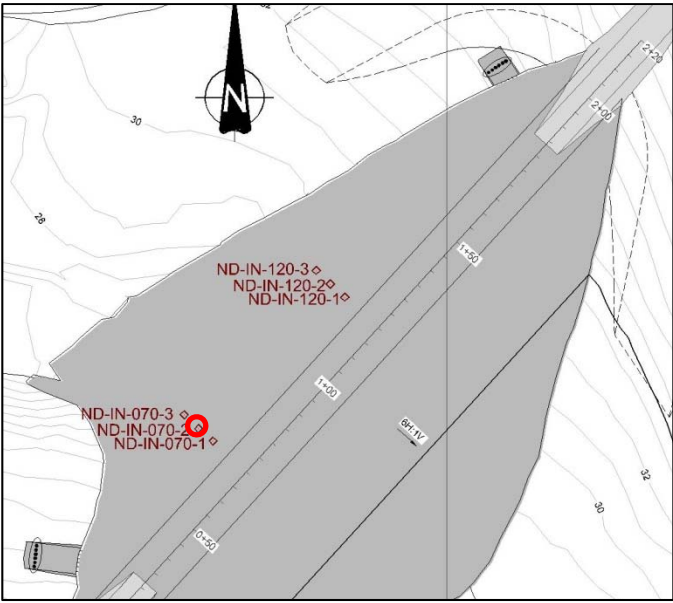


Profile Parallel to Centerline



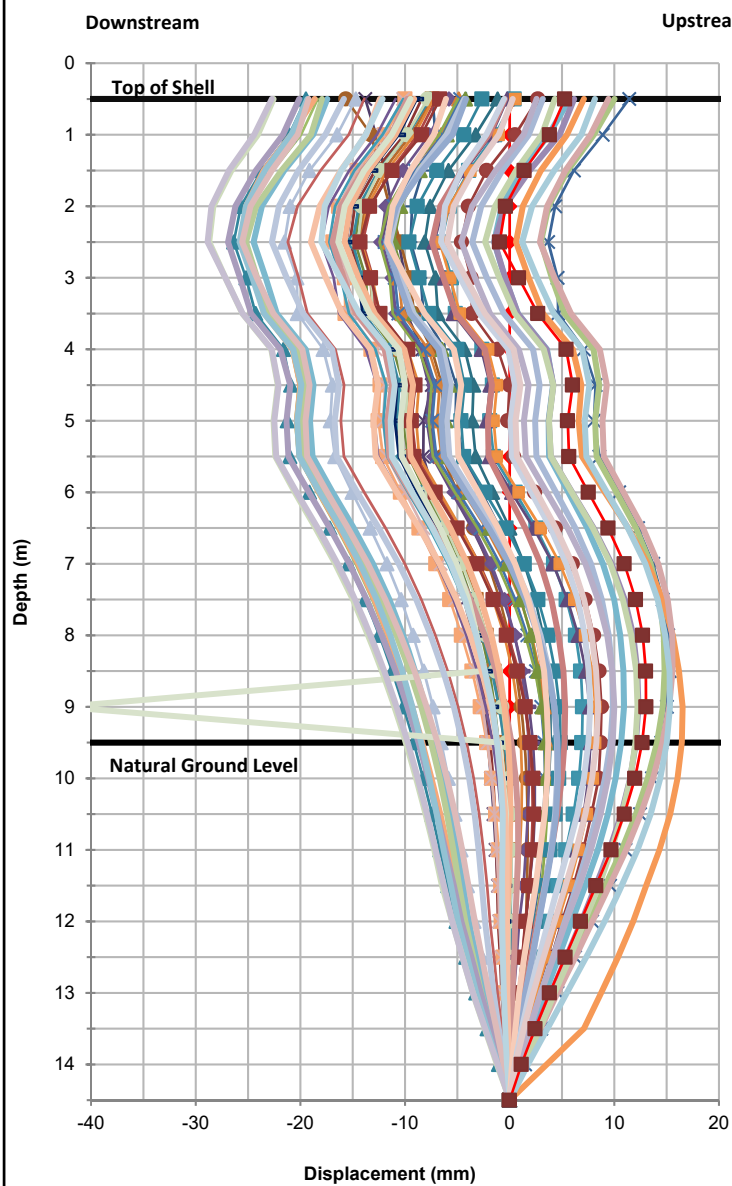
LEGEND:

Initial Reading (9/8/2012)	7/26/2013
10/1/2013	5/20/2014
7/12/2014	8/8/2014
9/1/2014	10/1/2014
2/1/2015	3/21/2015
4/16/2015	5/18/2015
6/25/2015	7/9/2015
8/2/2015	8/8/2015
9/4/2015	10/9/2015
11/25/2015	12/30/2015
2/8/2016	3/7/2016
4/11/2016	7/2/2016
8/14/2016	9/26/2016
11/26/2016	12/24/2016
2/23/2017	3/23/2017
4/15/2017	5/20/2017
6/25/2017	7/16/2017
8/9/2017	9/14/2017
10/14/2017	11/16/2017
12/16/2017	1/16/2018
2/16/2018	3/21/2018
4/20/2018	5/19/2018
6/8/2018	7/7/2018
8/3/2018	9/29/2018
10/21/2018	11/10/2018
1/1/2019	1/28/2019
2/14/2019	2/16/2019
4/14/2019	5/10/2019
6/11/2019	7/27/2019
8/25/2019	9/28/2019
10/26/2019	11/23/2019
1/16/2020	2/18/2020

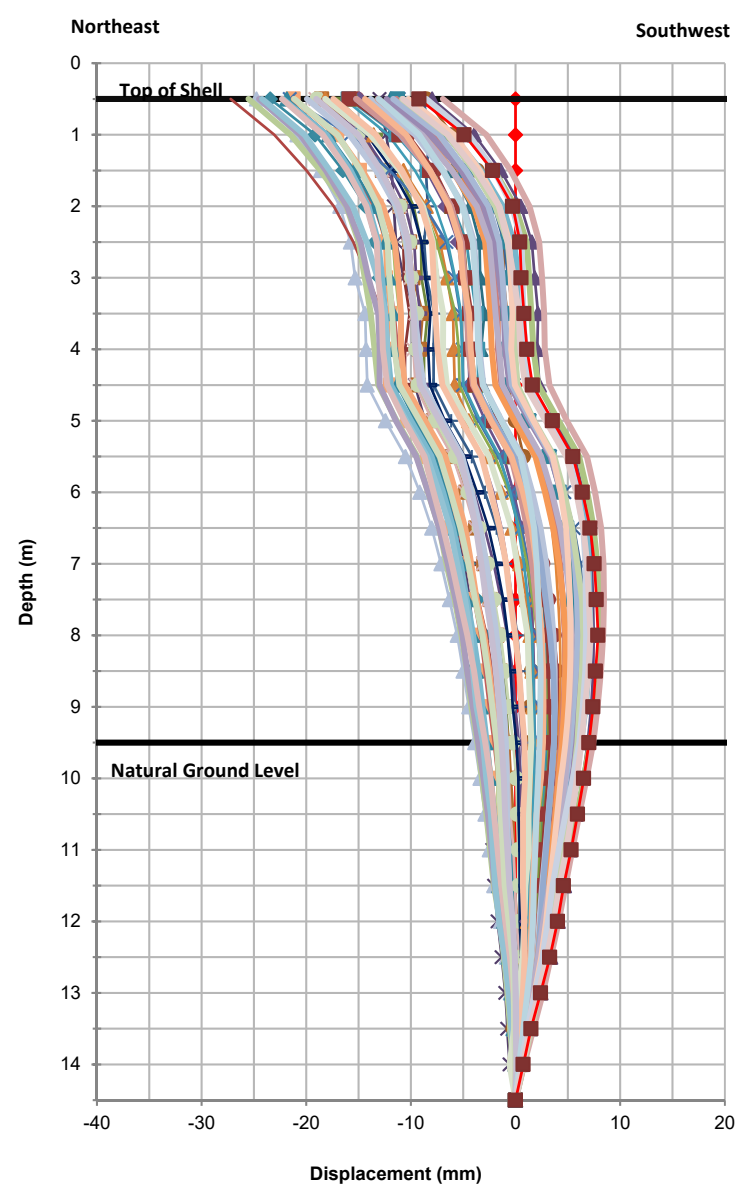


- Notes:
1. Manufacture's accuracy is +/- 0.25 mm per location
 2. Survey data excluded from the charts is noted on Figure E.1

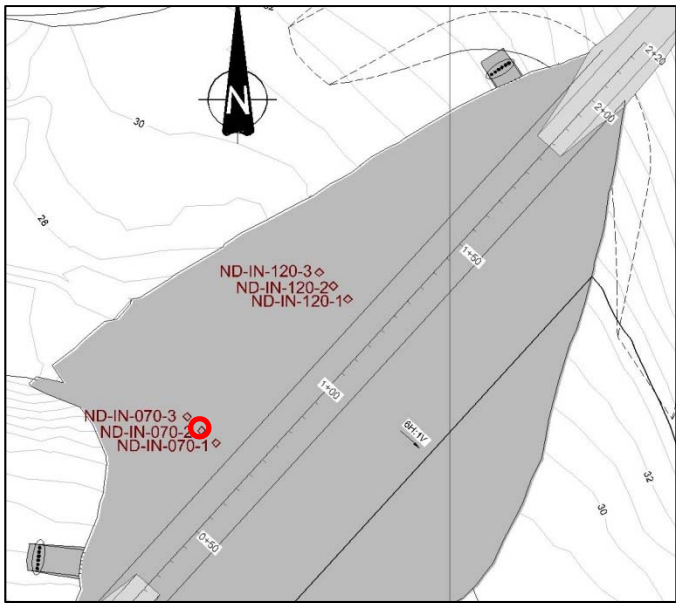
Displacement Perpendicular to Centerline



Displacement Parallel to Centerline



LEGEND:



Notes:

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

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Job No: 1CT022.038
Filename: AppE_1CT022.038_Inclinometers.pptx

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RESOURCES

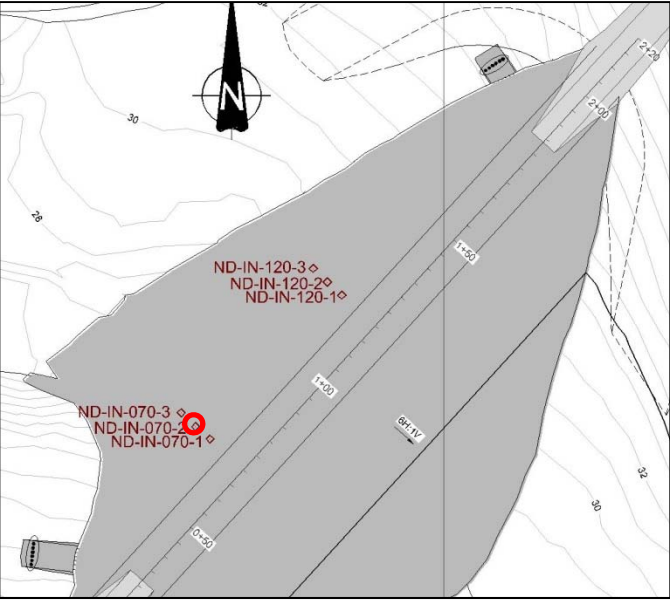
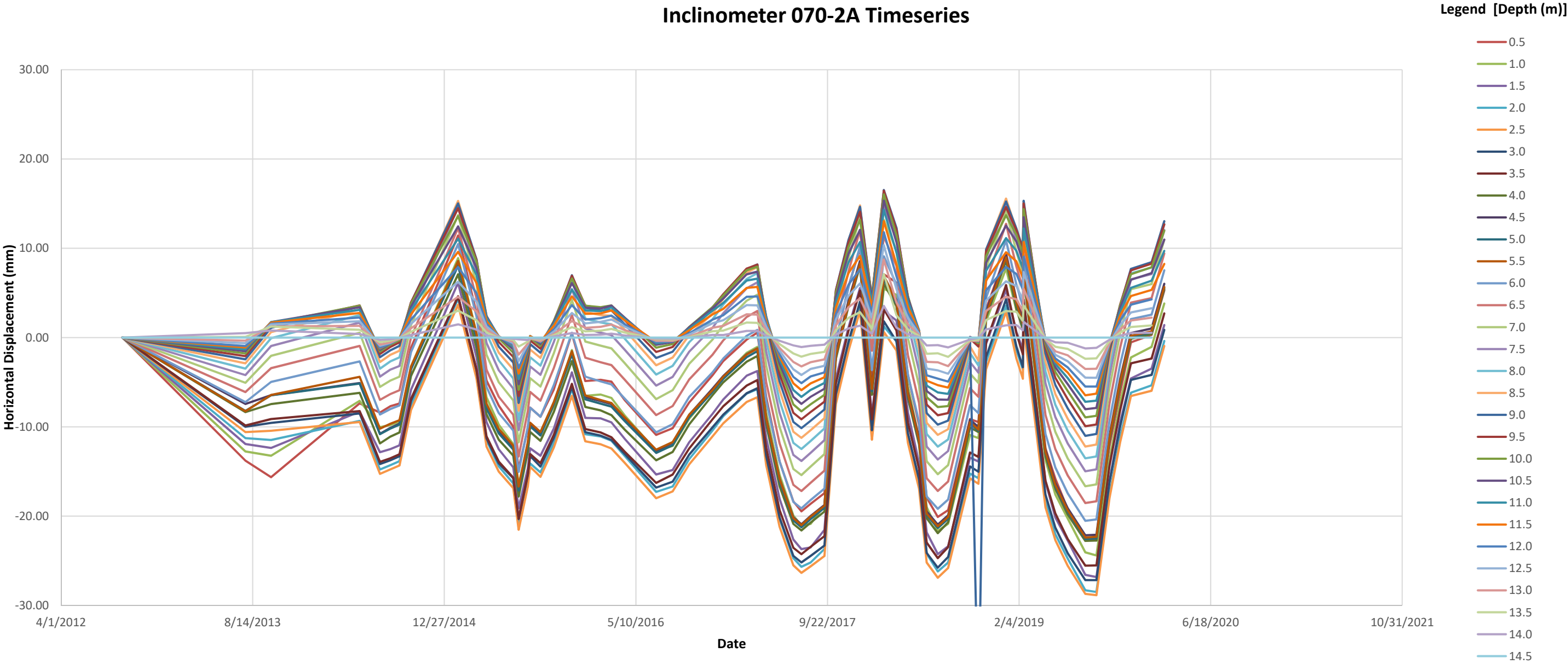
DORIS TIA

2019 AGI - North Dam

**Inclinometer 070-2
Displacements**

Date: Feb. 2020	Approved: AB	Figure: E.7
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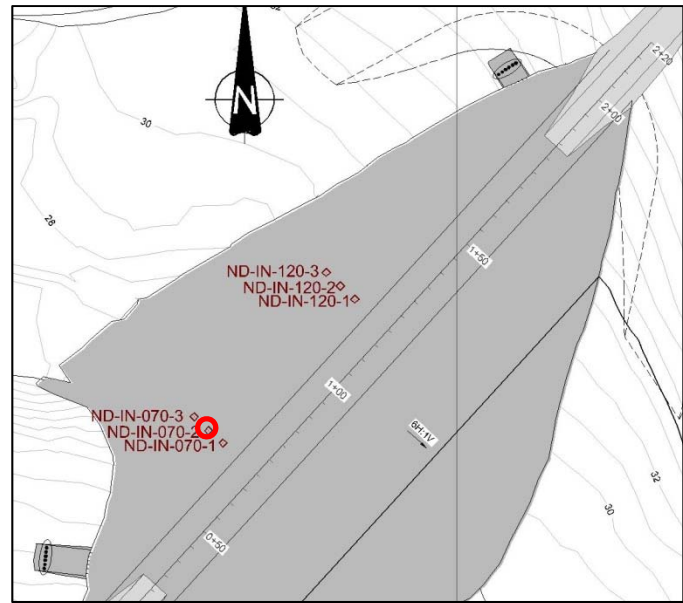
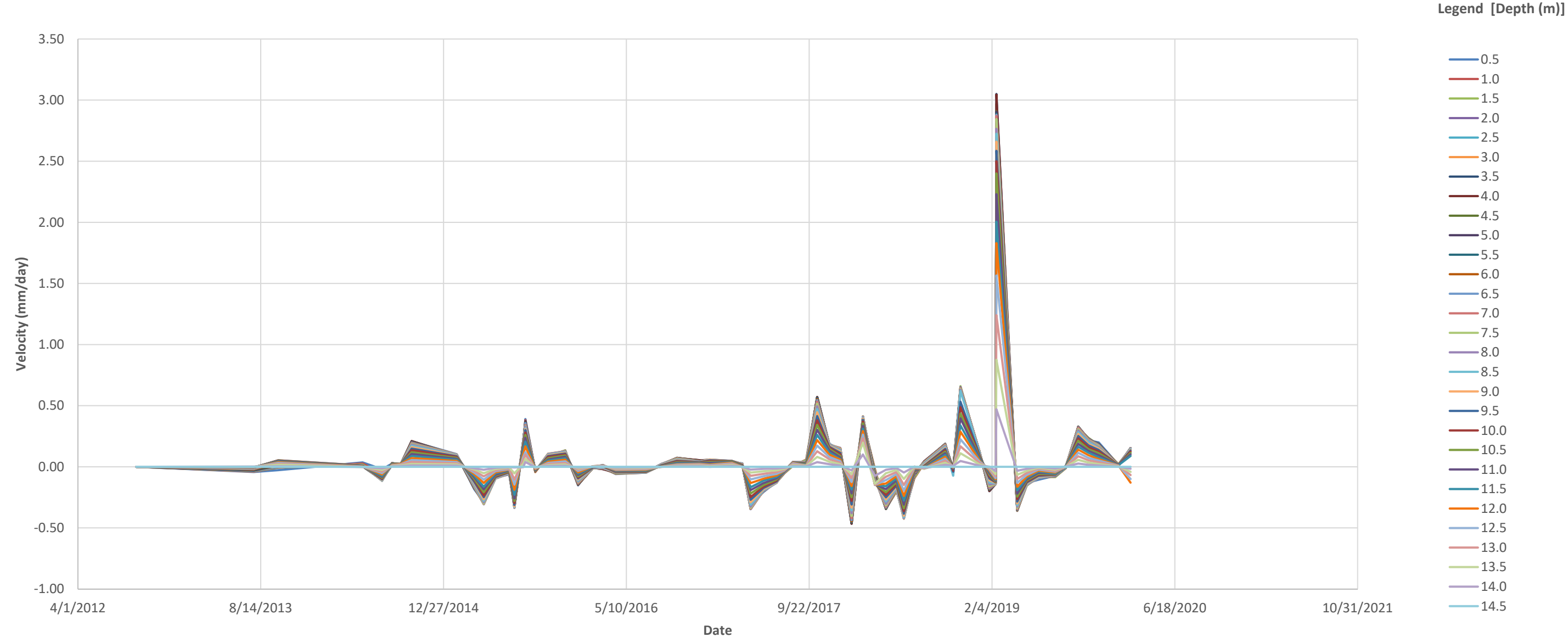
Inclinometer 070-2A Timeseries



- Notes:**
1. Manufacture's accuracy is +/- 0.25 mm per location
 2. Survey data excluded from the charts is noted on Figure E.1
 3. Dashed lines represent depths at or below the natural ground surface

		2019 AGI - North Dam		
		Inclinometer 070-2A Displacement Time Series		
Job No: 1CT022.038 Filename: AppE_1CT022.038_Inclinometers.pptx	DORIS TIA	Date: Feb. 2020	Approved: AB	Figure: E.8

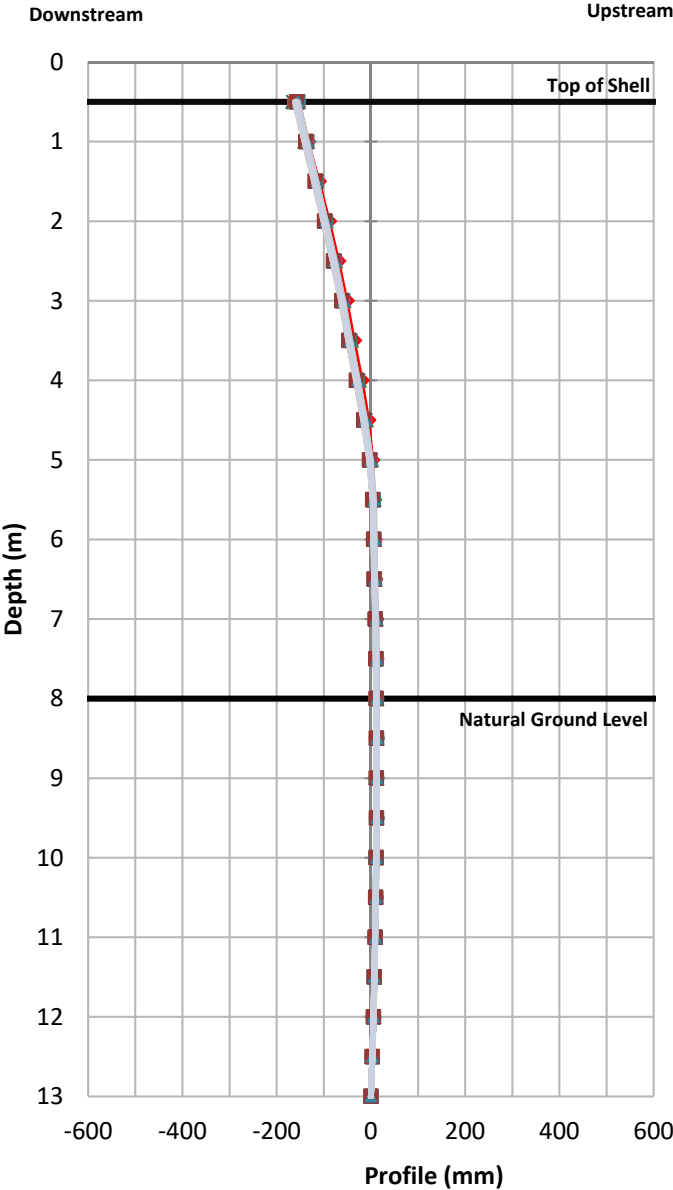
Inclinometer 070-2A Velocity Timeseries



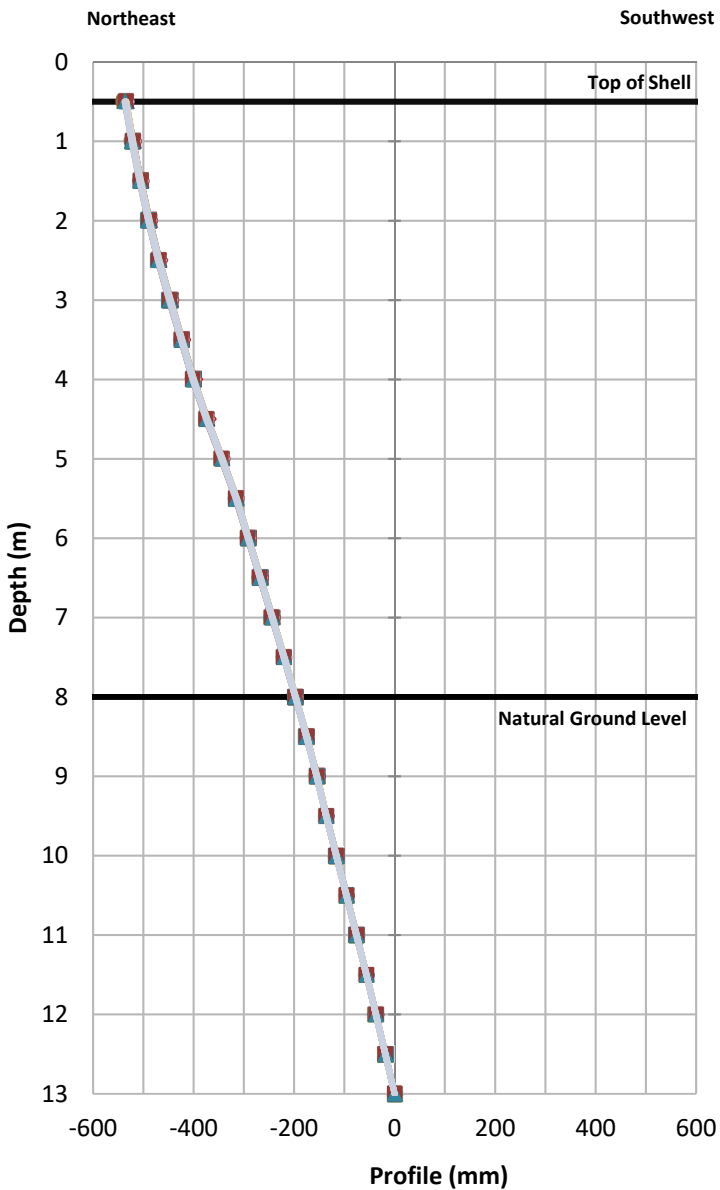
- Notes:**
- 1. Manufacture's accuracy is +/- 0.25 mm per location
 - 2. Survey data excluded from the charts is noted on Figure E.1
 - 3. Dashed lines represent depths at or below the natural ground surface

		2019 AGI - North Dam		
		Inclinometer 070-2A Velocity Time Series		
Job No: 1CT022.038 Filename: AppE_1CT022.038_Inclinometers.pptx	DORIS TIA	Date: Feb. 2020	Approved: AB	Figure: E.9

Profile Perpendicular to Centerline

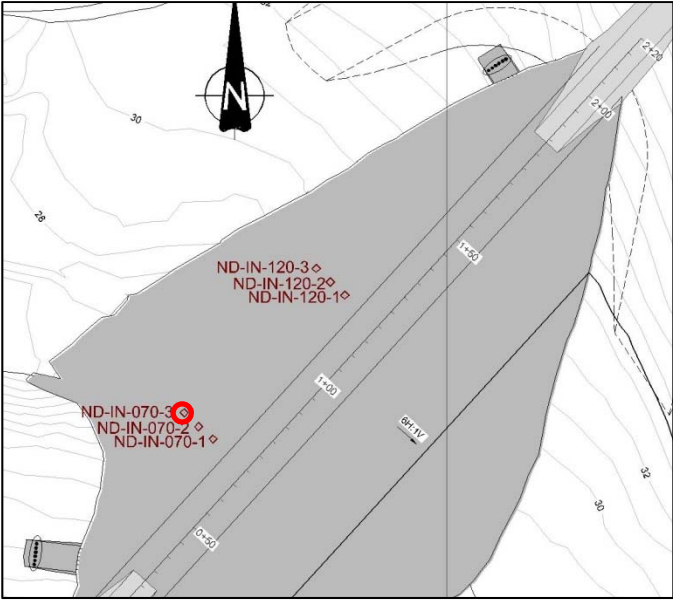


Profile Parallel to Centerline



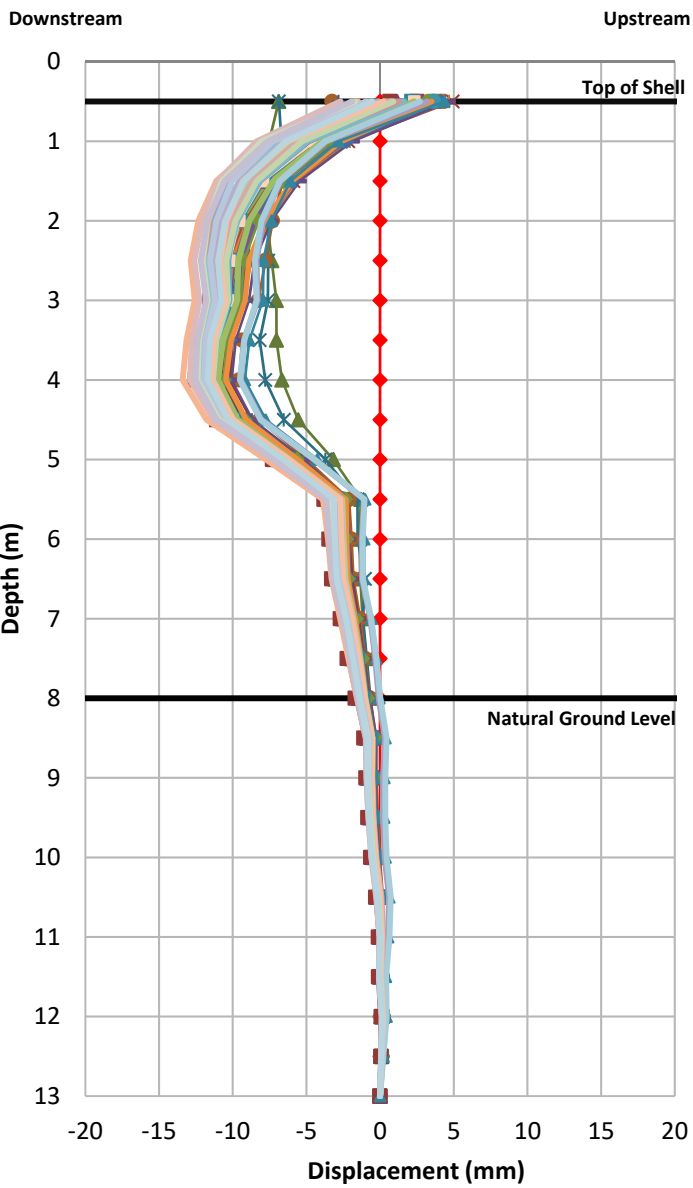
LEGEND:

Initial Reading (9/9/2012)	7/26/2013
10/1/2013	5/20/2014
7/12/2014	8/8/2014
9/1/2014	10/1/2014
2/1/2015	3/21/2015
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
3/7/2016	4/11/2016
7/2/2016	8/14/2016
9/25/2016	11/26/2016
12/24/2016	2/23/2017
3/23/2017	4/15/2017
5/20/2017	6/25/2017
7/16/2017	8/9/2017
9/14/2017	10/14/2017
11/17/2017	12/16/2017
1/16/2018	2/16/2018
3/21/2018	4/20/2018
5/19/2018	6/8/2018
7/7/2018	8/3/2018
9/29/2018	10/21/2018
11/10/2018	1/1/2019
1/25/2019	2/14/2019
4/15/2019	5/10/2019
6/12/2019	7/27/2019
8/25/2019	9/28/2019
10/26/2019	11/23/2019
1/16/2020	2/18/2020

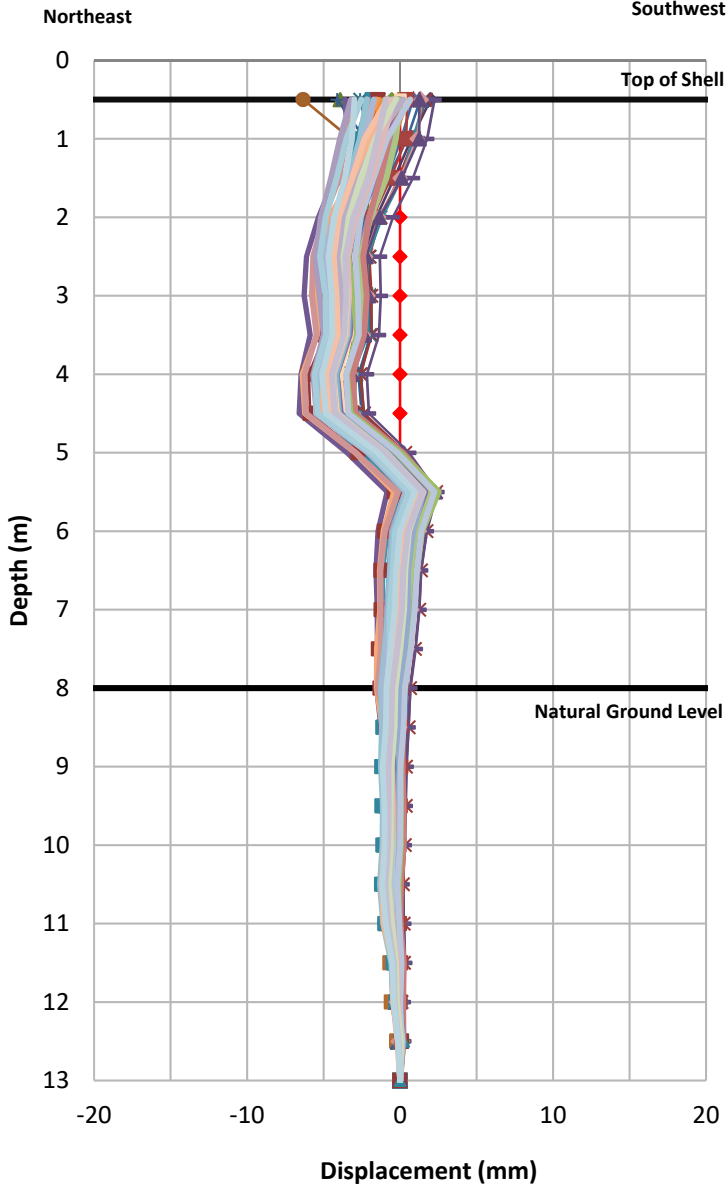


- Notes:
1. Manufacture's accuracy is +/- 0.25 mm per location
 2. Survey data excluded from the charts is noted on Figure E.1

Displacement Perpendicular to Centerline

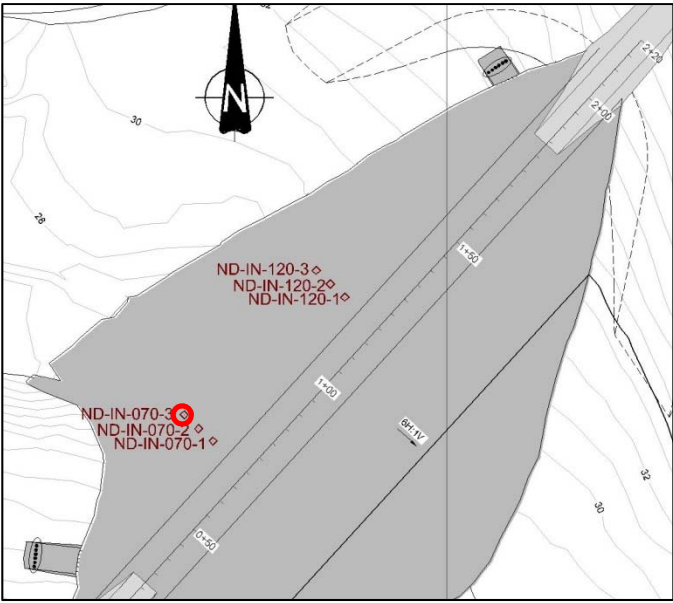


Displacement Parallel to Centerline



LEGEND:

- Initial Reading (9/9/2012)
- 7/26/2013
- 10/1/2013
- 5/20/2014
- 7/12/2014
- 8/8/2014
- 9/1/2014
- 10/1/2014
- 2/1/2015
- 3/21/2015
- 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
- 3/7/2016
- 4/11/2016
- 7/2/2016
- 8/14/2016
- 9/25/2016
- 11/26/2016
- 12/24/2016
- 2/23/2017
- 3/23/2017
- 4/15/2017
- 5/20/2017
- 6/25/2017
- 7/16/2017
- 8/9/2017
- 9/14/2017
- 10/14/2017
- 11/17/2017
- 12/16/2017
- 1/16/2018
- 2/16/2018
- 3/21/2018
- 4/20/2018
- 5/19/2018
- 6/8/2018
- 7/7/2018
- 8/3/2018
- 9/29/2018
- 10/21/2018
- 11/10/2018
- 1/1/2019
- 1/25/2019
- 2/14/2019
- 4/15/2019
- 5/10/2019
- 6/12/2019
- 7/27/2019
- 8/25/2019
- 9/28/2019
- 10/26/2019
- 11/23/2019
- 1/16/2020
- 2/18/2020



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



Job No: 1CT022.038
Filename: AppE_1CT022.038_Inclinometers.pptx



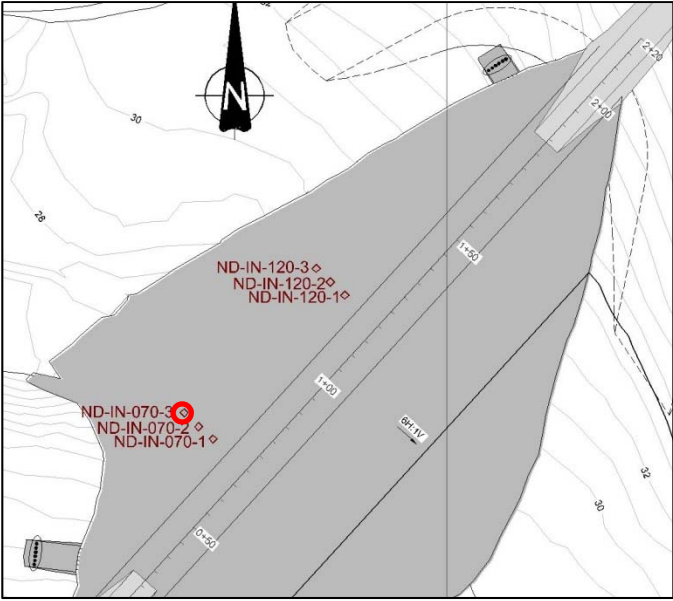
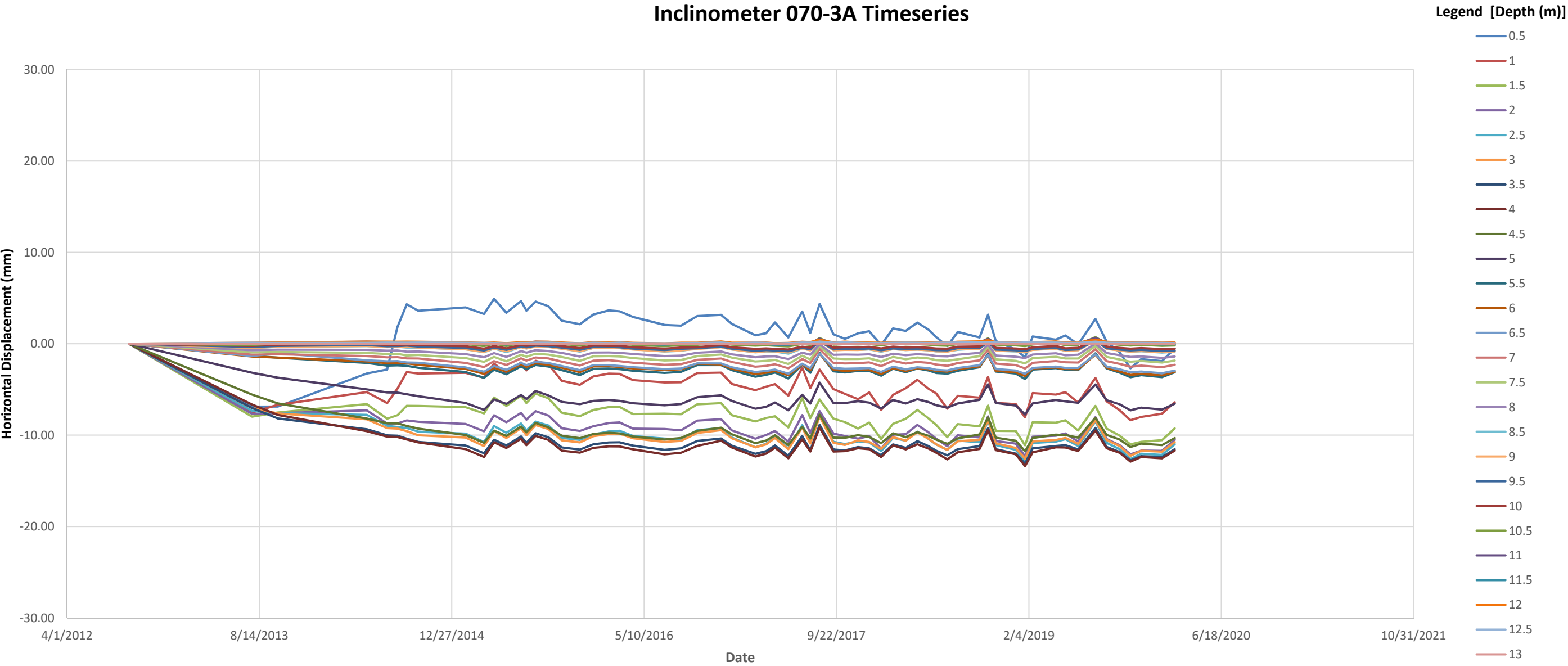
DORIS TIA

2019 AGI - North Dam

Inclinometer 070-3
Displacements

Date: Feb. 2020
Approved: AB
Figure: E.11

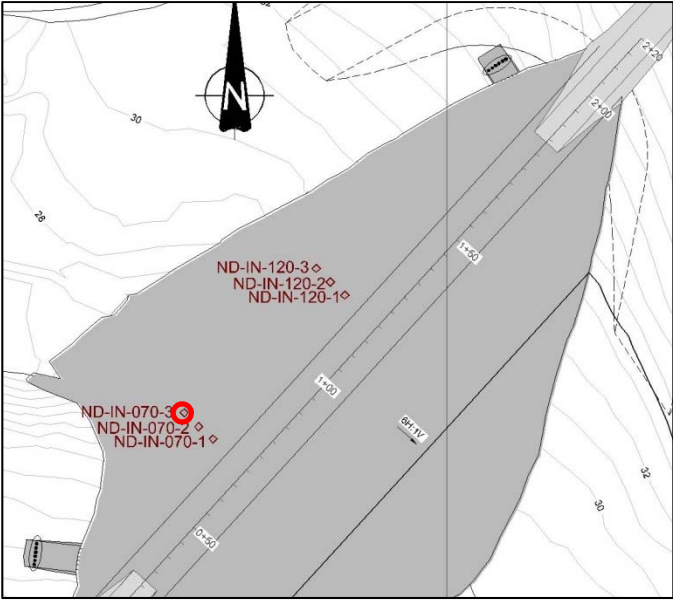
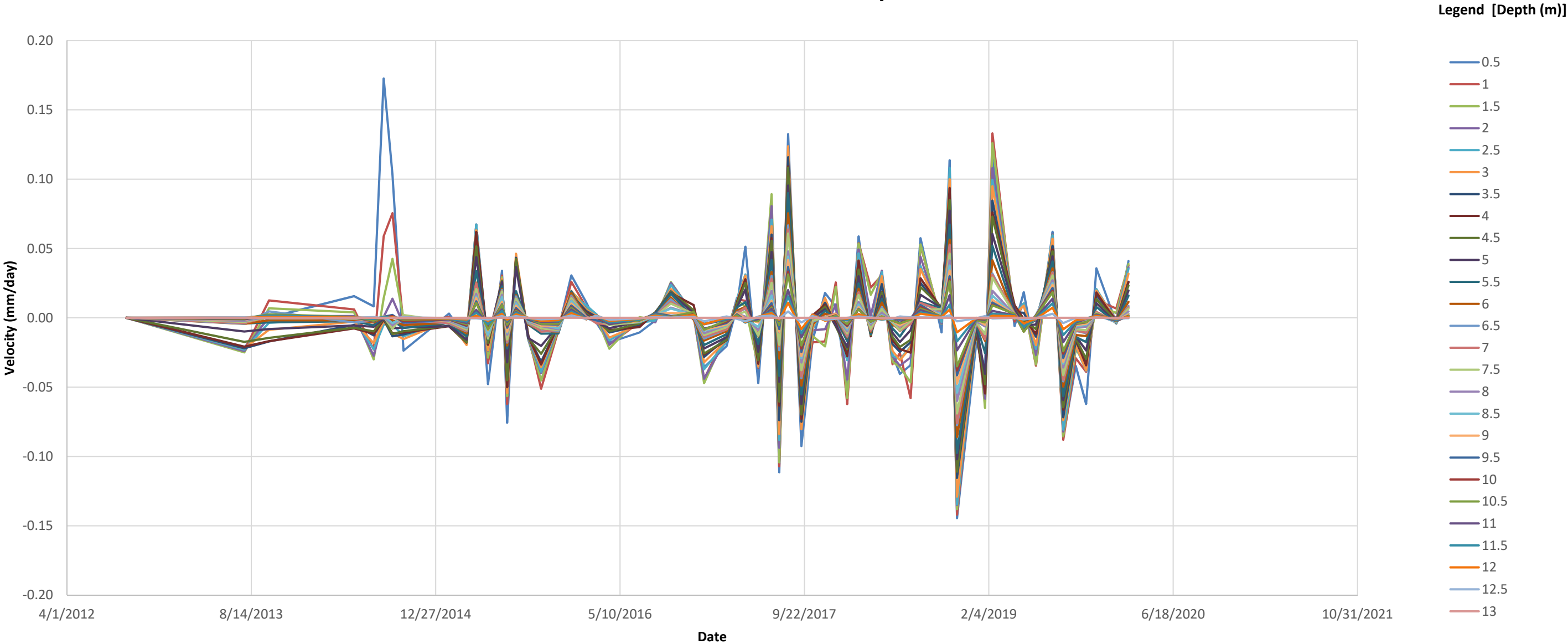
Inclinometer 070-3A Timeseries



- Notes:
- 1. Manufacture's accuracy is +/- 0.25 mm per location
 - 2. Survey data excluded from the charts is noted on Figure E.1
 - 3. Dashed lines represent depths at or below the natural ground surface

		2019 AGI - North Dam		
		Inclinometer 070-3A Displacement Time Series		
Job No: 1CT022.038 Filename: AppE_1CT022.038_Inclinometers.pptx	DORIS TIA	Date: Feb. 2020	Approved: AB	Figure: E.12

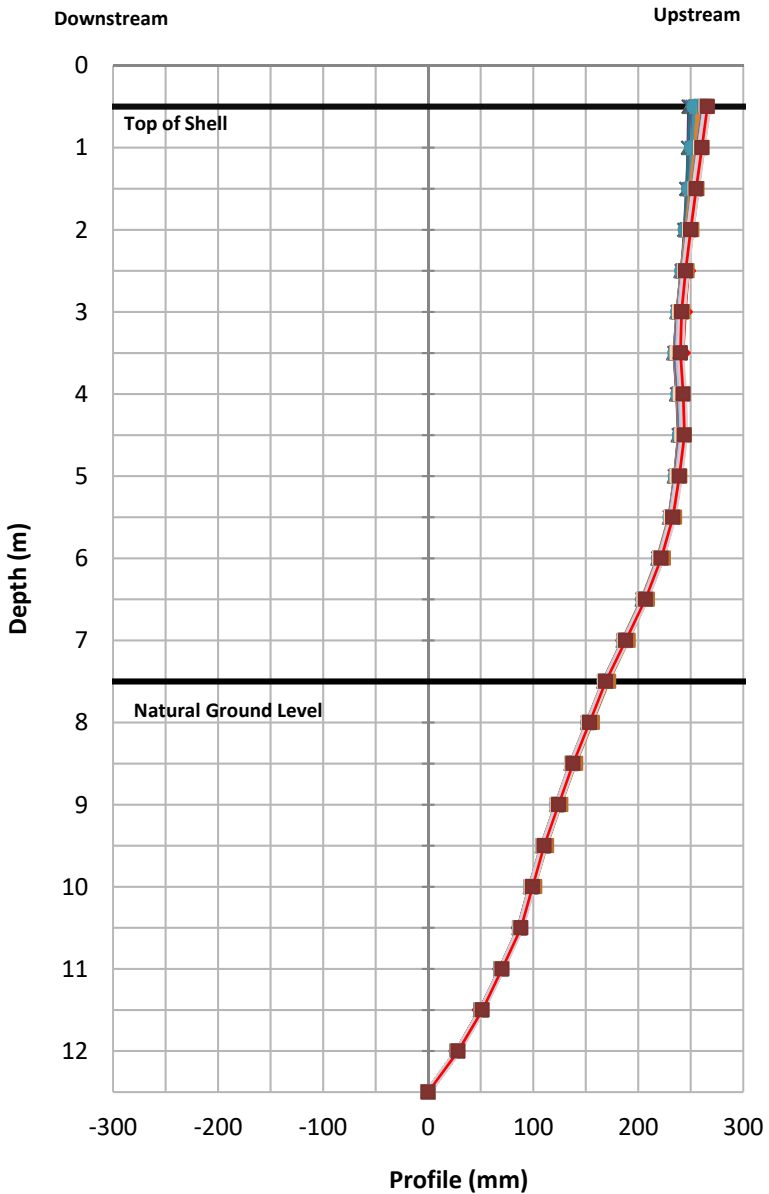
Inclinometer 070-3A Velocity Timeseries



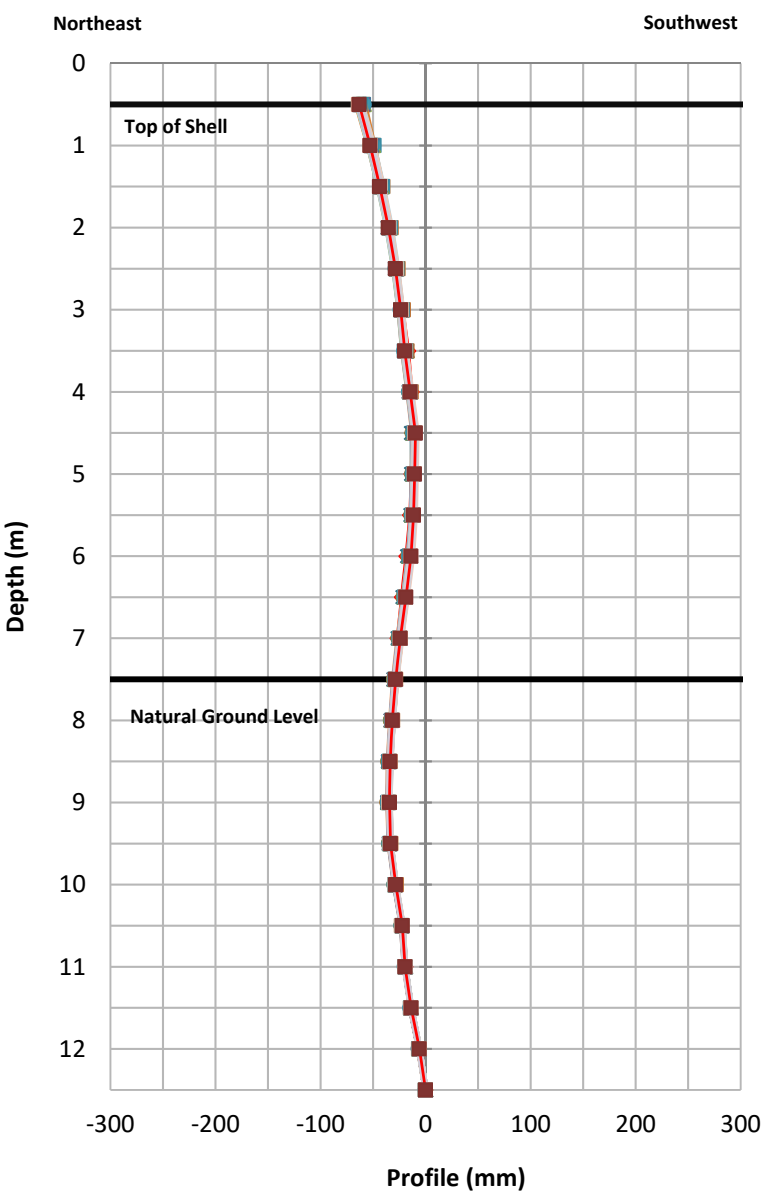
- Notes:**
- 1. Manufacture's accuracy is +/- 0.25 mm per location
 - 2. Survey data excluded from the charts is noted on Figure E.1
 - 3. Dashed lines represent depths at or below the natural ground surface

		2019 AGI - North Dam		
		Inclinometer 070-3A Velocity Time Series		
		Date: Feb. 2020	Approved: AB	Figure: E.13
Job No: 1CT022.038 Filename: AppE_1CT022.038_Inclinometers.pptx	DORIS TIA			

Profile Perpendicular to Centerline

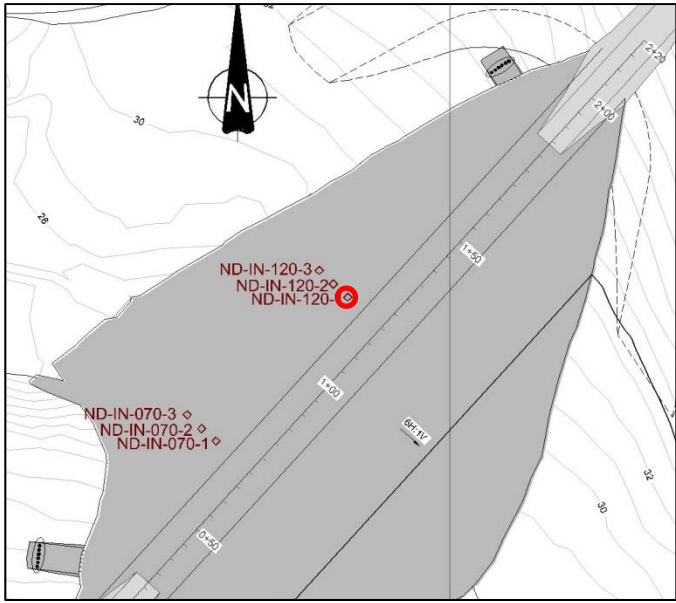


Profile Parallel to Centerline



LEGEND:

- Initial Reading (9/8/2012)
- 8/28/2013
- 5/20/2014
- 8/8/2014
- 10/1/2014
- 3/21/2015
- 5/18/2015
- 7/9/2015
- 9/4/2015
- 11/25/2015
- 3/7/2016
- 7/2/2016
- 9/25/2016
- 12/24/2016
- 3/23/2017
- 5/20/2017
- 7/16/2017
- 9/14/2017
- 11/17/2017
- 1/16/2018
- 3/21/2018
- 5/19/2018
- 7/7/2018
- 9/29/2018
- 11/10/2018
- 1/28/2019
- 4/15/2019
- 6/12/2019
- 8/25/2019
- 11/24/2019
- 2/18/2020
- 7/26/2013
- 10/1/2013
- 7/12/2014
- 9/1/2014
- 2/2/2015
- 4/16/2015
- 6/25/2015
- 8/2/2015
- 10/9/2015
- 12/30/2015
- 4/11/2016
- 8/14/2016
- 11/26/2016
- 2/23/2017
- 4/15/2017
- 6/25/2017
- 8/9/2017
- 10/14/2017
- 12/16/2017
- 2/16/2018
- 4/20/2018
- 6/8/2018
- 8/3/2018
- 10/21/2018
- 1/1/2019
- 2/16/2019
- 5/10/2019
- 7/27/2019
- 9/28/2019
- 1/20/2020



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



2019 AGI - North Dam

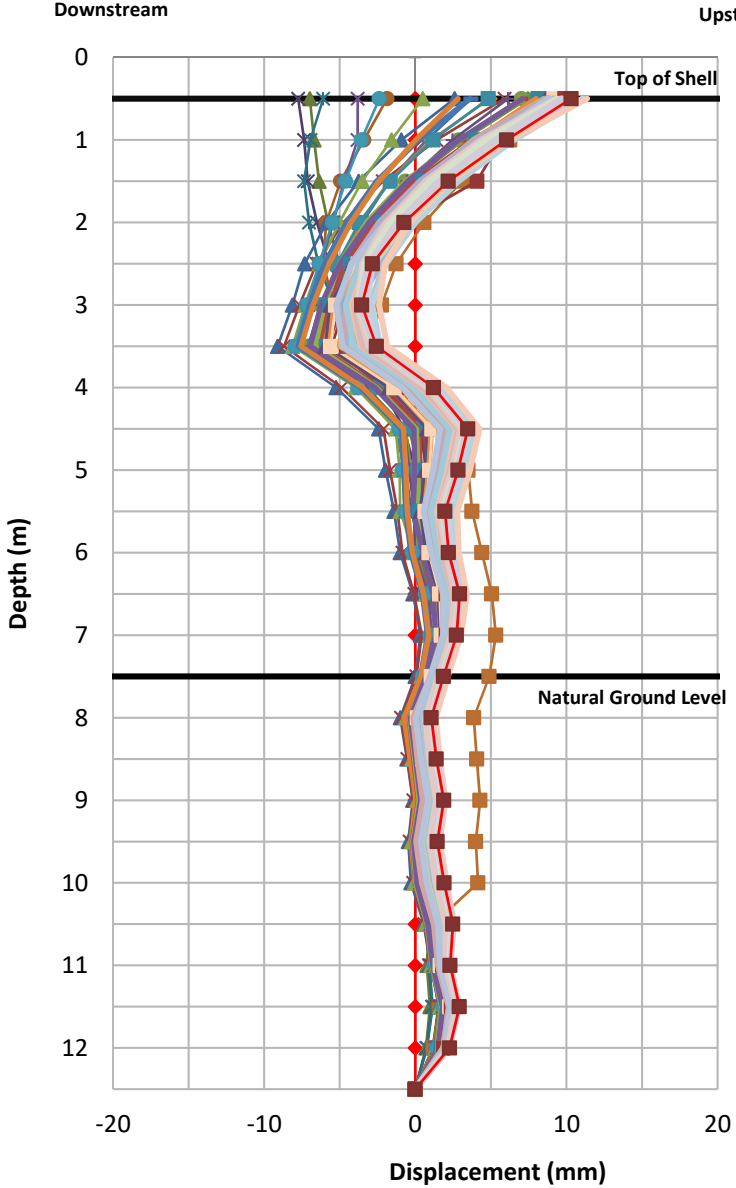
Inclinometer 120-1 Profiles

Job No: 1CT022.038
Filename: AppE_1CT022.038_Inclinometers.pptx

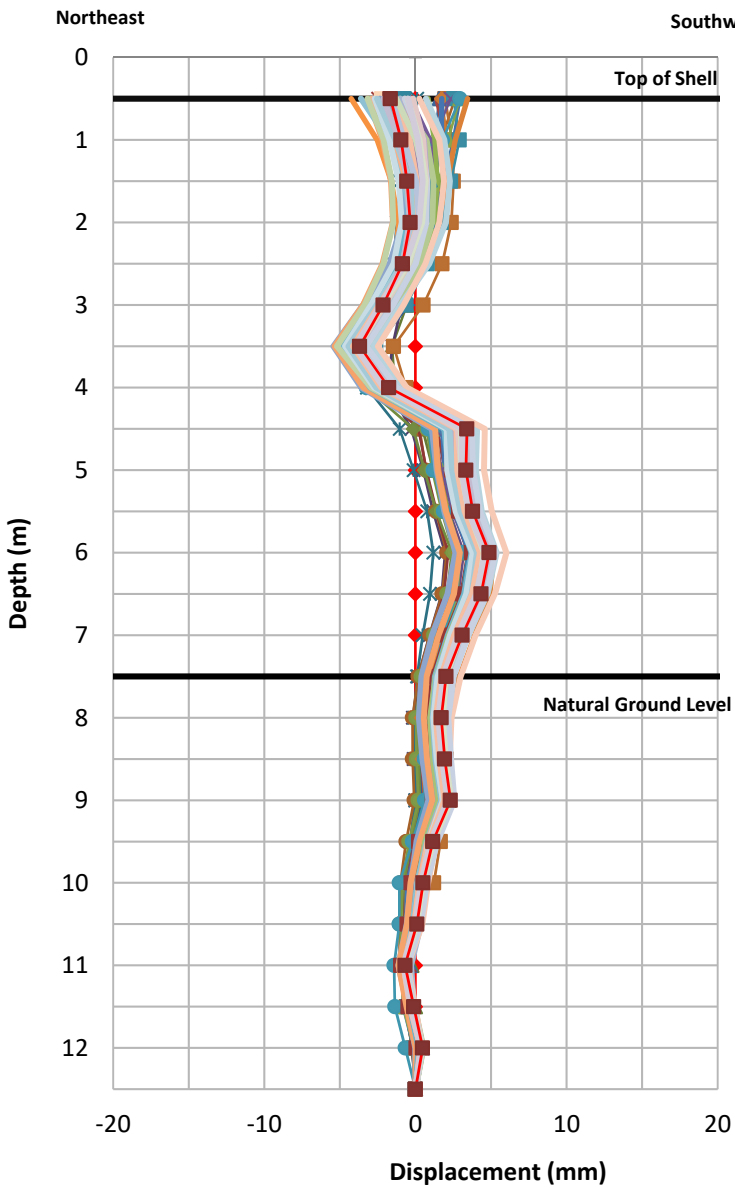
DORIS TIA

Date: Feb. 2020
Approved: AB
Figure: E.14

Displacement Perpendicular to Centerline

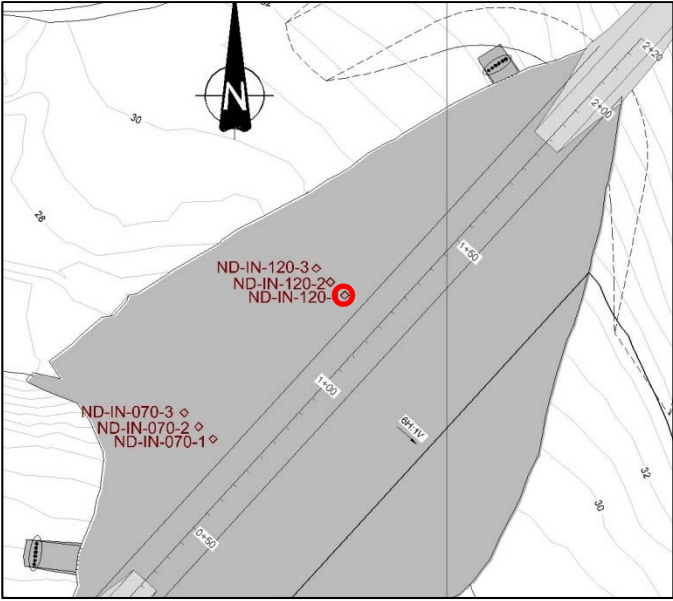


Displacement Parallel to Centerline



LEGEND:

- Initial Reading (9/8/2012)
- 8/28/2013
- 5/20/2014
- 8/8/2014
- 10/1/2014
- 3/21/2015
- 5/18/2015
- 7/9/2015
- 9/4/2015
- 11/25/2015
- 3/7/2016
- 7/2/2016
- 9/25/2016
- 12/24/2016
- 3/23/2017
- 5/20/2017
- 7/16/2017
- 9/14/2017
- 11/17/2017
- 1/16/2018
- 3/21/2018
- 5/19/2018
- 7/7/2018
- 9/29/2018
- 11/10/2018
- 1/28/2019
- 4/15/2019
- 6/12/2019
- 8/25/2019
- 11/24/2019
- 2/18/2020
- 7/26/2013
- 10/1/2013
- 7/12/2014
- 9/1/2014
- 2/2/2015
- 4/16/2015
- 6/25/2015
- 8/2/2015
- 10/9/2015
- 12/30/2015
- 4/11/2016
- 8/14/2016
- 11/26/2016
- 2/23/2017
- 4/15/2017
- 6/25/2017
- 8/9/2017
- 10/14/2017
- 12/16/2017
- 2/16/2018
- 4/20/2018
- 6/8/2018
- 8/3/2018
- 10/21/2018
- 1/1/2019
- 2/16/2019
- 5/10/2019
- 7/27/2019
- 9/28/2019
- 1/20/2020



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



Job No: 1CT022.038
Filename: AppE_1CT022.038_Inclinometers.pptx



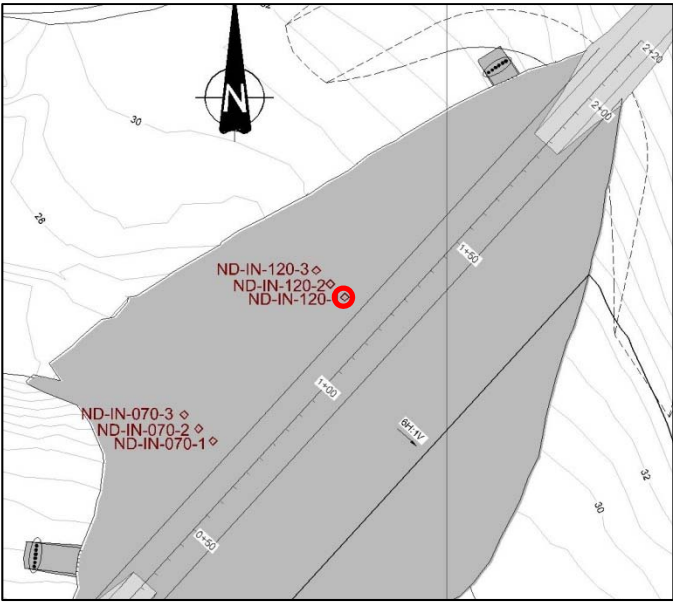
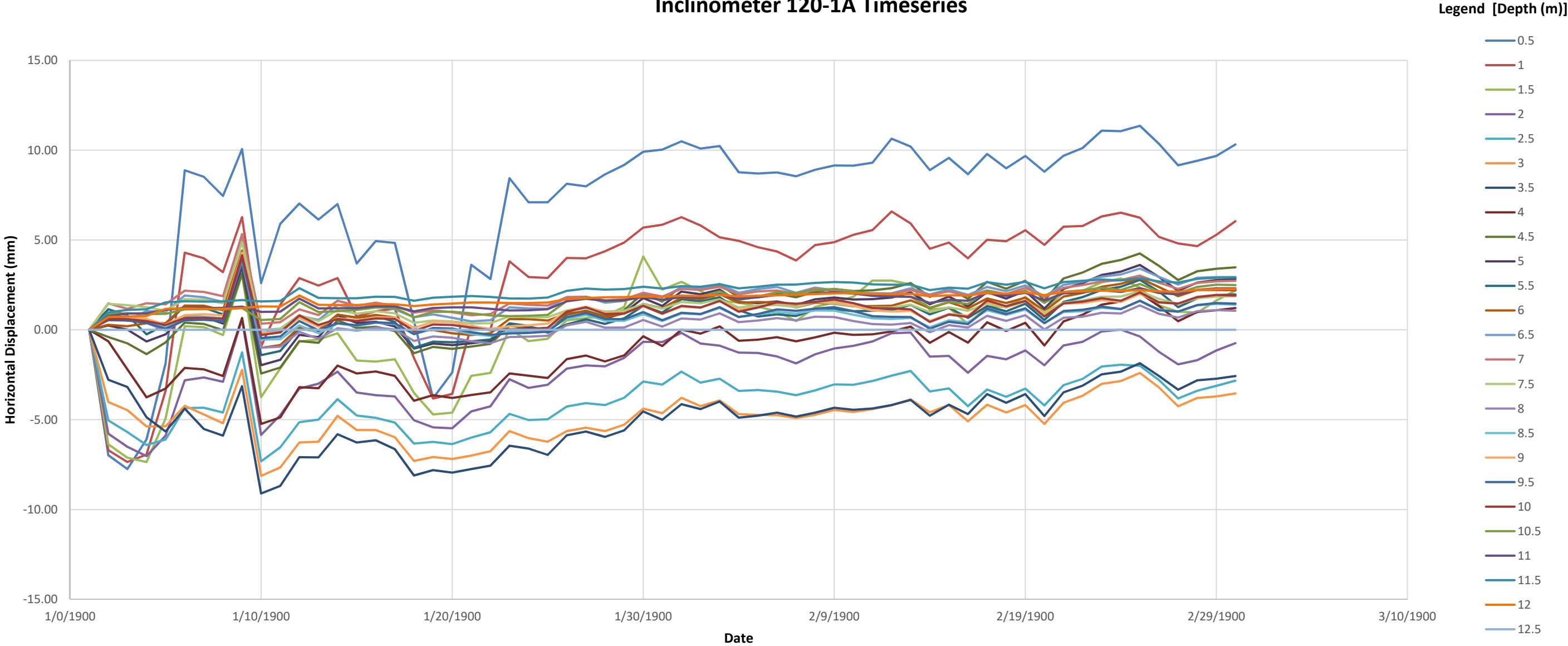
DORIS TIA

2019 AGI - North Dam

Inclinometer 120-1
Displacements

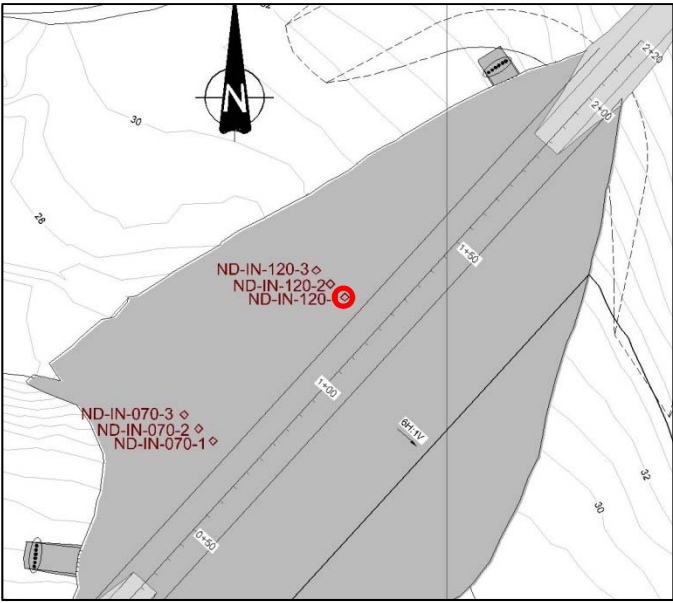
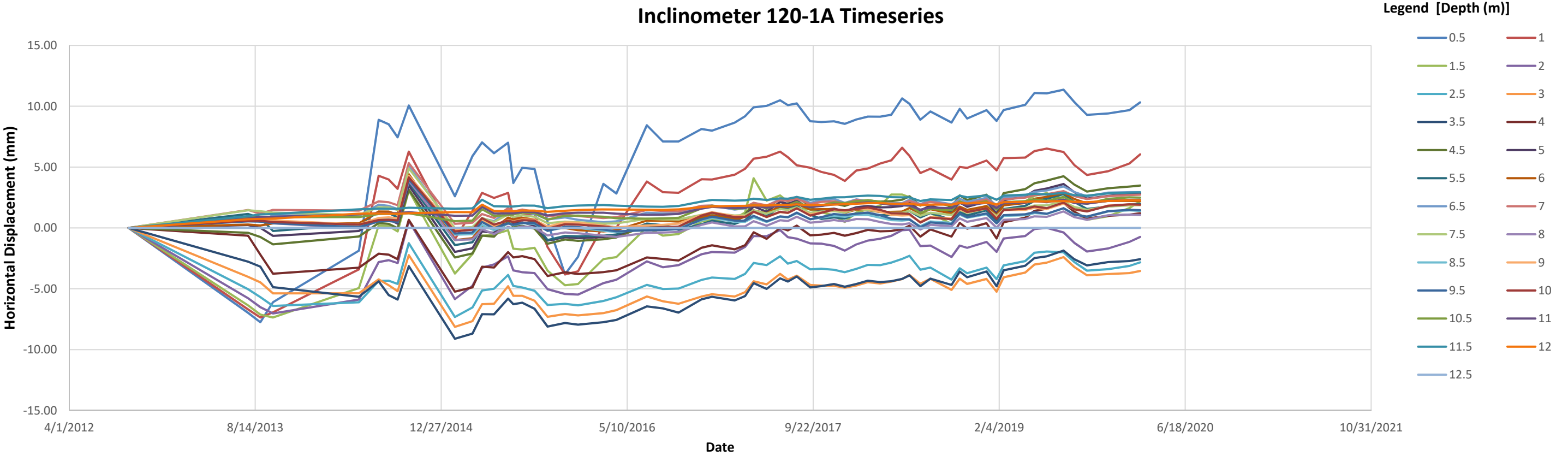
Date: Feb. 2020
Approved: AB
Figure: E.15

Inclinometer 120-1A Timeseries



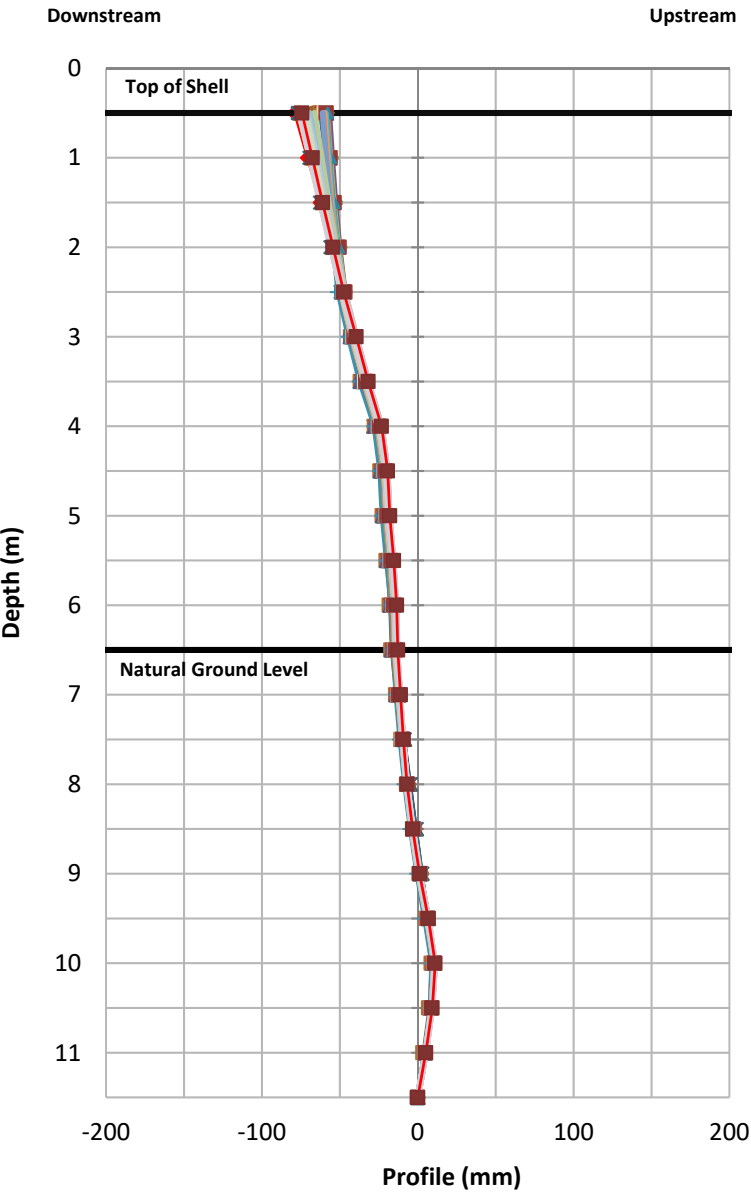
- Notes:**
1. Manufacture's accuracy is +/- 0.25 mm per location
 2. Survey data excluded from the charts is noted on Figure E.1
 3. Dashed lines represent depths at or below the natural ground surface

		2019 AGI - North Dam		
		Inclinometer 120-1A Displacement Time Series		
		Date: Feb. 2020	Approved: AB	Figure: E.16
Job No: 1CT022.038 Filename: AppE_1CT022.038_Inclinometers.pptx	DORIS TIA			

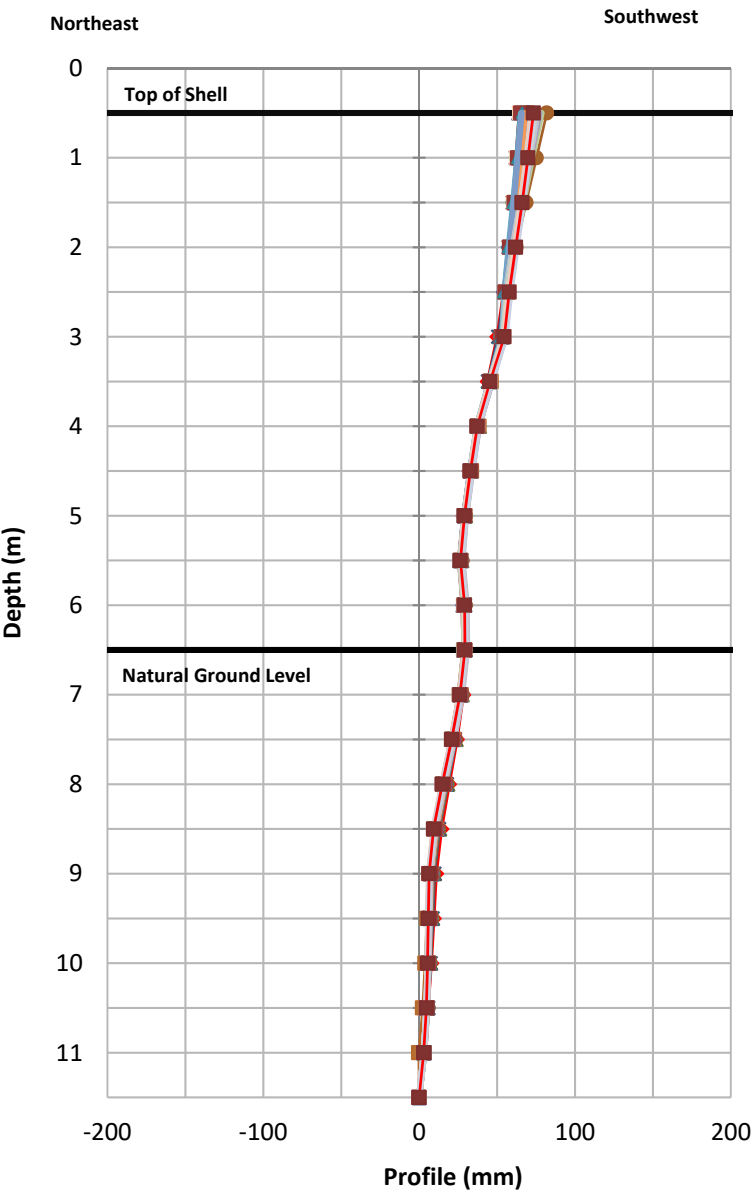


- Notes:**
1. Manufacture's accuracy is +/- 0.25 mm per location
 2. Survey data excluded from the charts is noted on Figure E.1
 3. Dashed lines represent depths at or below the natural ground surface

Profile Perpendicular to Centerline

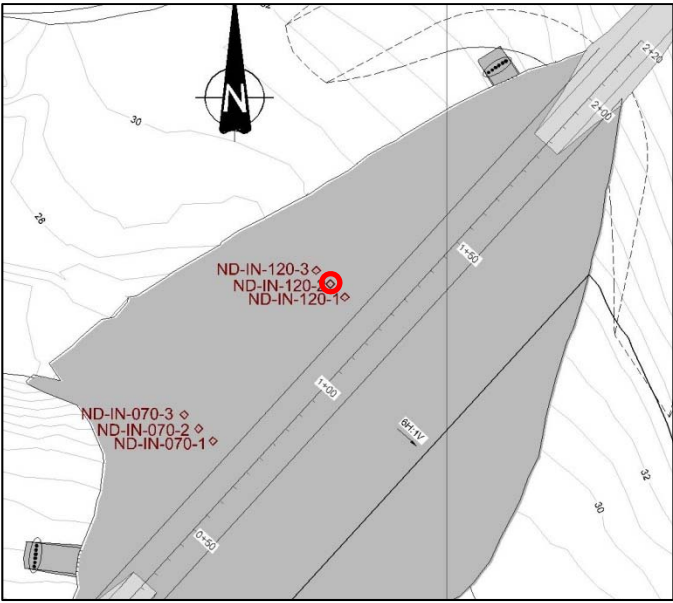


Profile Parallel to Centerline



LEGEND:

- Initial Reading (9/8/2012)
- 7/26/2013
- 8/28/2013
- 10/1/2013
- 5/20/2014
- 7/12/2014
- 8/8/2014
- 9/1/2014
- 10/1/2014
- 2/2/2015
- 3/21/2015
- 4/16/2015
- 4/20/2015
- 5/19/2015
- 6/26/2015
- 7/9/2015
- 8/2/2015
- 9/4/2015
- 10/9/2015
- 11/25/2015
- 12/30/2015
- 2/8/2016
- 3/7/2016
- 4/11/2016
- 7/2/2016
- 8/14/2016
- 9/25/2016
- 12/24/2016
- 11/26/2016
- 2/23/2017
- 3/23/2017
- 4/15/2017
- 5/20/2017
- 6/25/2017
- 7/16/2017
- 8/9/2017
- 9/14/2017
- 10/14/2017
- 11/17/2017
- 12/16/2017
- 1/16/2018
- 2/17/2018
- 3/21/2018
- 4/20/2018
- 5/19/2018
- 6/8/2018
- 7/7/2018
- 8/3/2018
- 9/30/2018
- 10/21/2018
- 11/10/2018
- 1/1/2019
- 1/25/2019
- 2/16/2019
- 4/15/2019
- 5/10/2019
- 6/12/2019
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- 9/28/2019
- 10/26/2019
- 11/24/2019
- 1/20/2020
- 2/18/2020

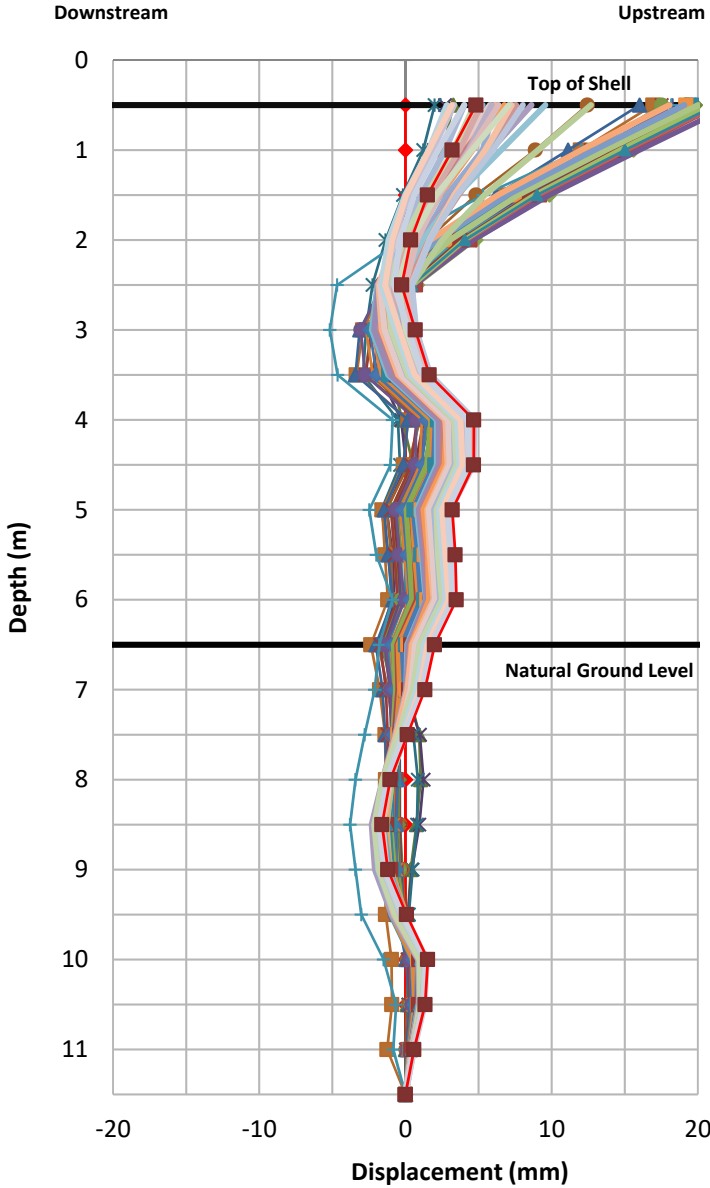


- Notes:
1. Manufacture's accuracy is +/- 0.25 mm per location
 2. Survey data excluded from the charts is noted on Figure E.1

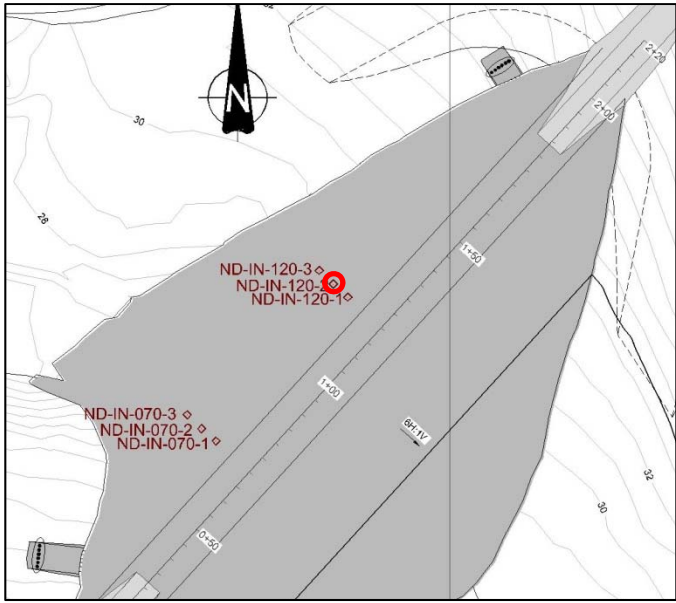
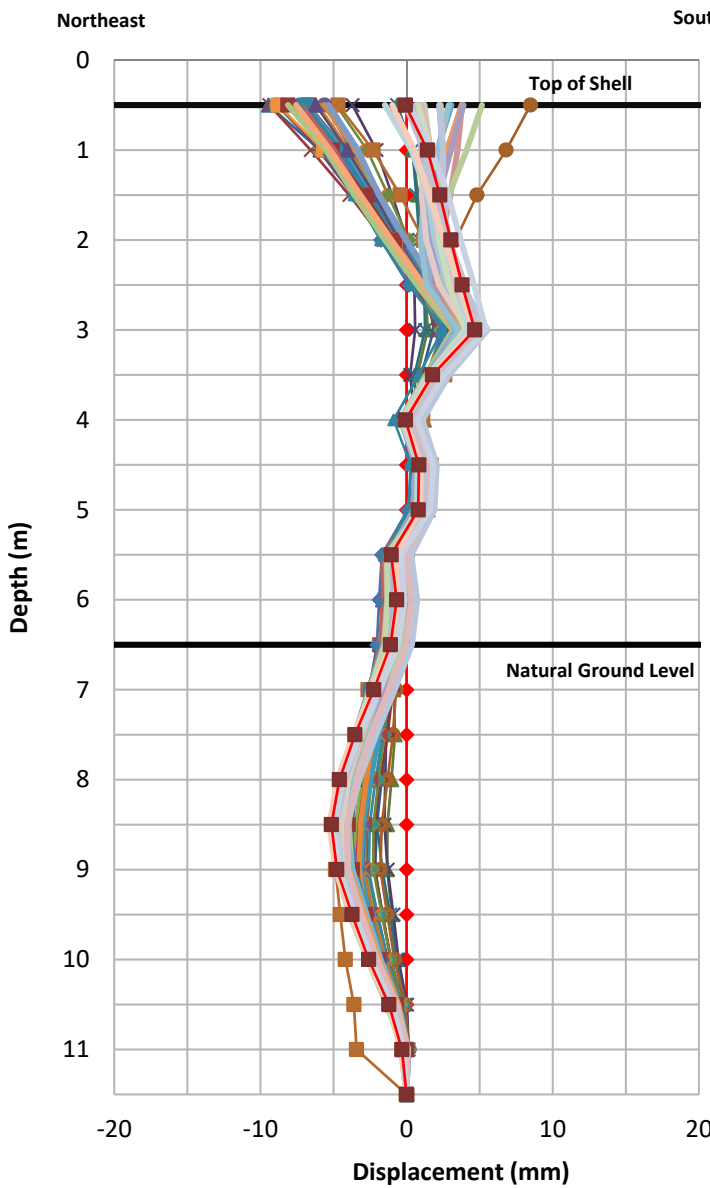
LEGEND:



Displacement Perpendicular to Centerline



Displacement Parallel to Centerline



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



Job No: 1CT022.038
Filename: AppE_1CT022.038_Inclinometers.pptx



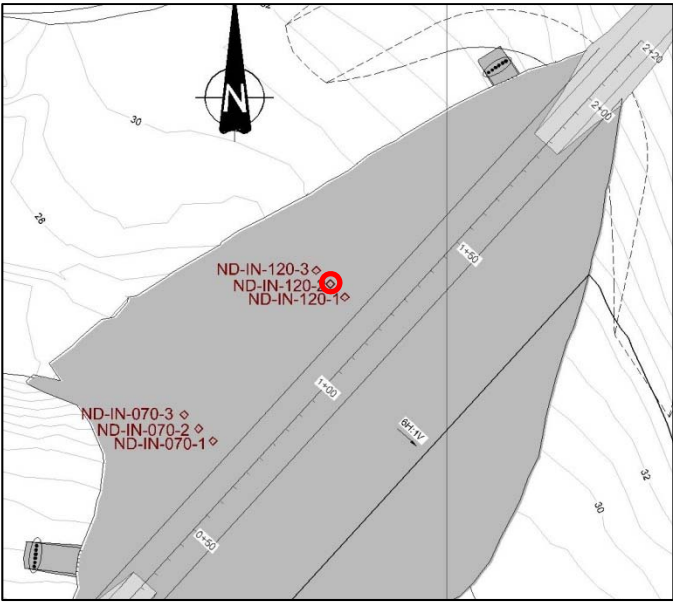
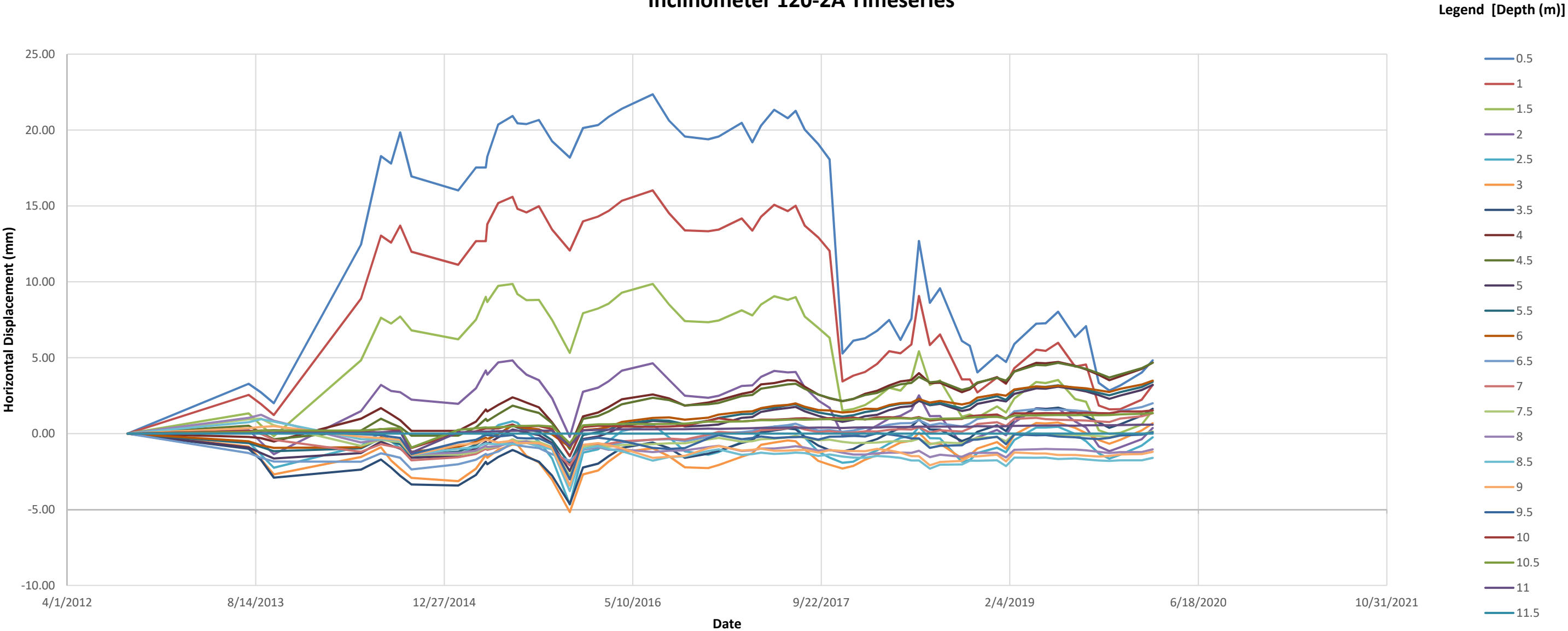
DORIS TIA

2019 AGI - North Dam

Inclinometer 120-2
Displacements

Date: Feb. 2020
Approved: AB
Figure: E.19

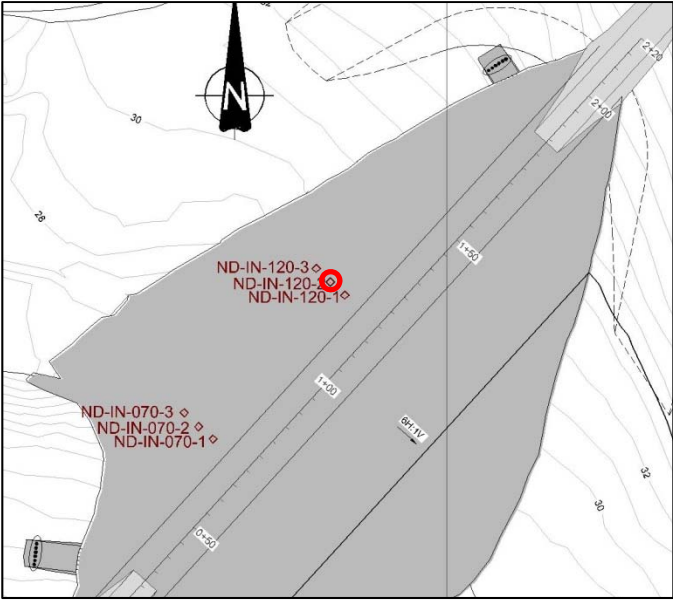
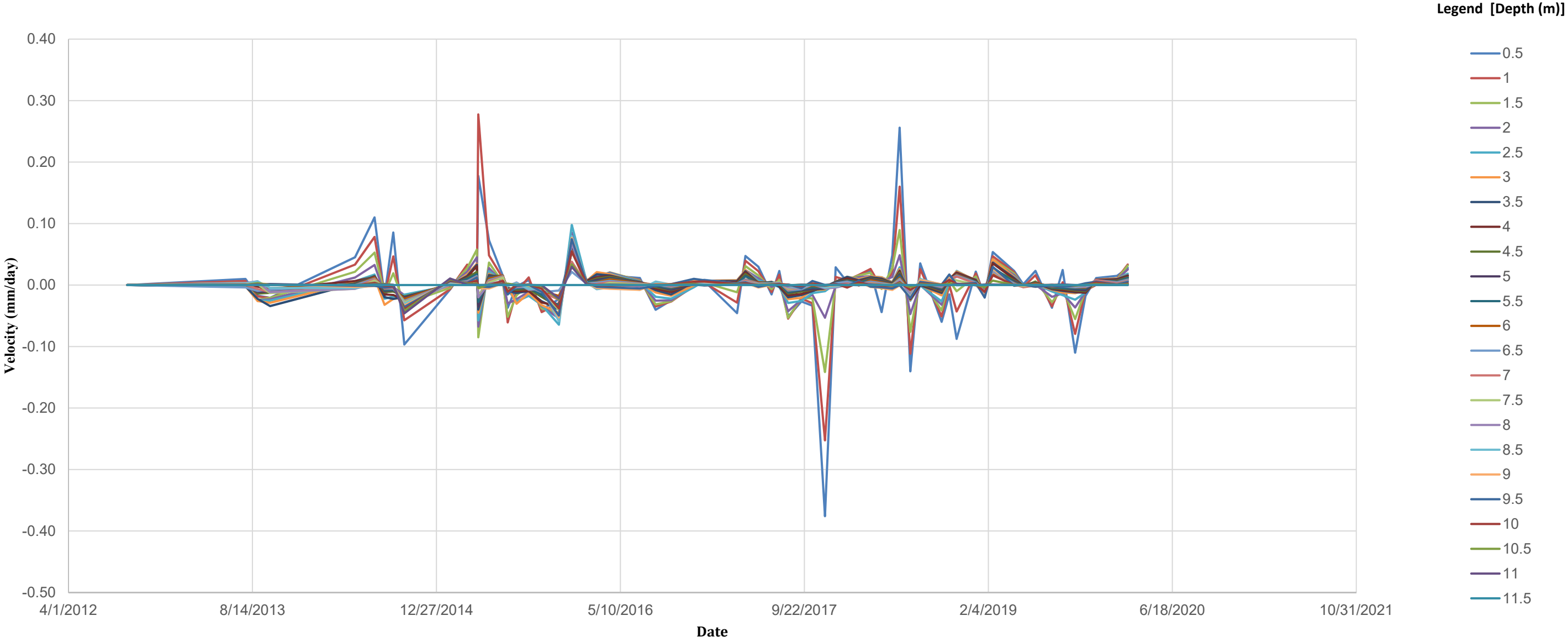
Inclinometer 120-2A Timeseries



- Notes:
- 1. Manufacture's accuracy is +/- 0.25 mm per location
 - 2. Survey data excluded from the charts is noted on Figure E.1
 - 3. Dashed lines represent depths at or below the natural ground surface

	2019 AGI - North Dam	
	Inclinometer 120-2A Displacement Time Series	
Job No: 1CT022.038 Filename: AppE_1CT022.038_Inclinometers.pptx	DORIS TIA	Date: Feb. 2020 Approved: AB Figure: E.20

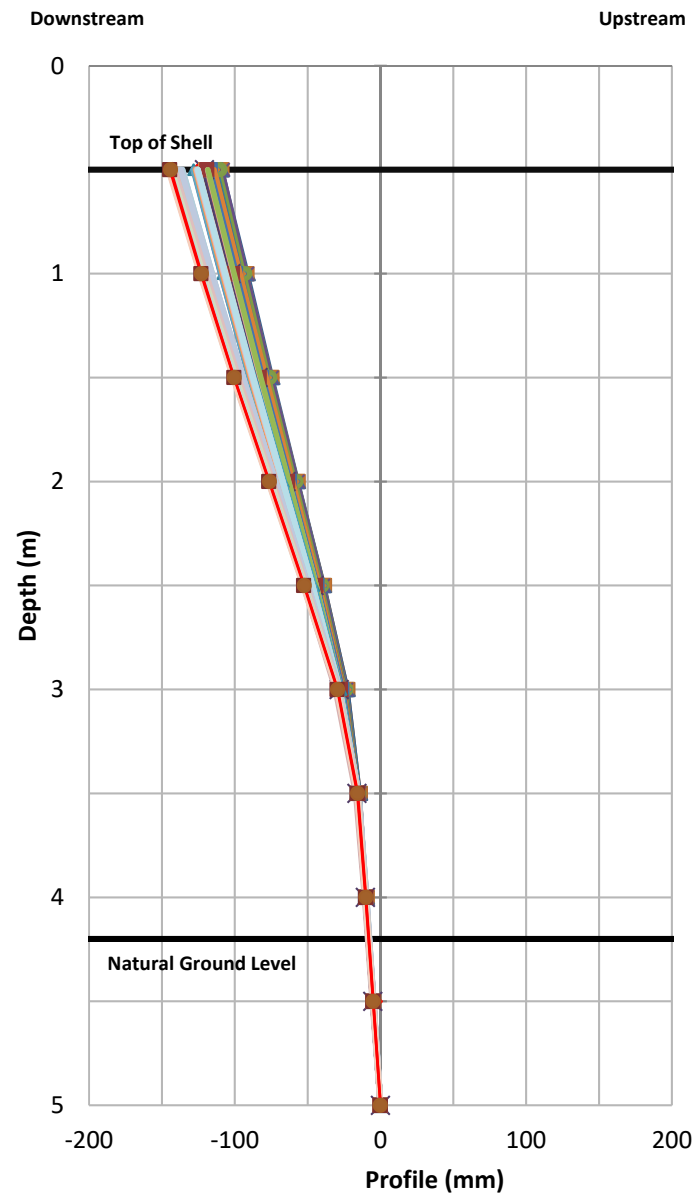
Inclinometer 120-2A Velocity Timeseries



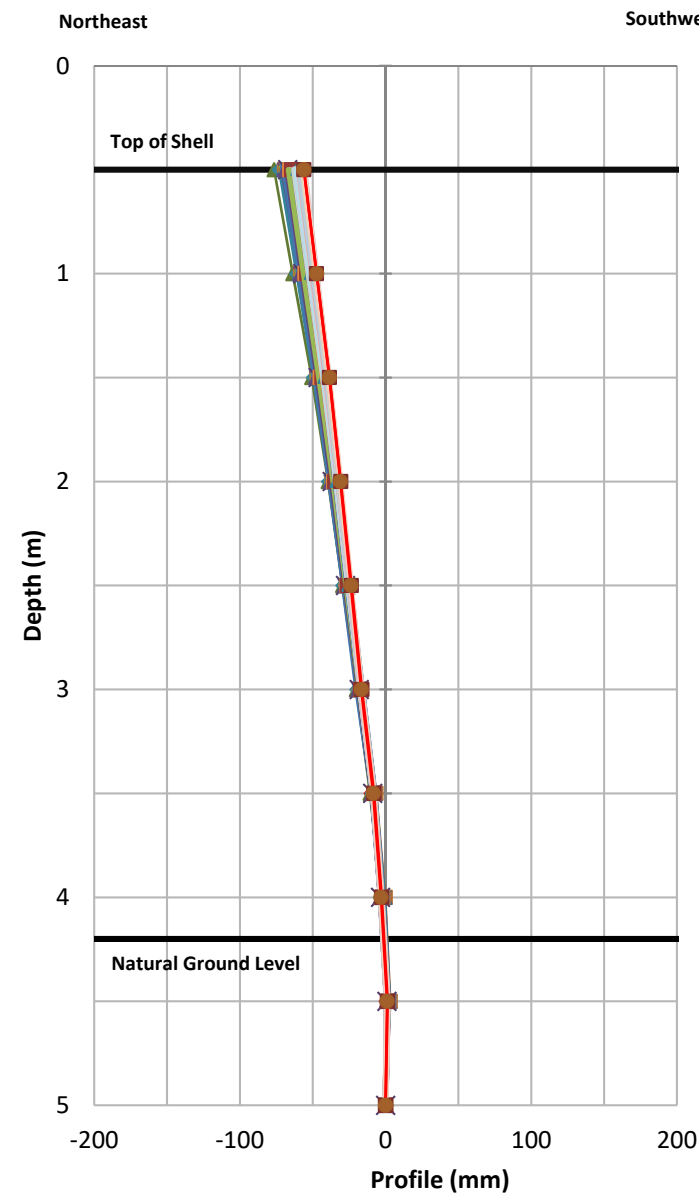
- Notes:**
- 1. Manufacture's accuracy is +/- 0.25 mm per location
 - 2. Survey data excluded from the charts is noted on Figure E.1
 - 3. Dashed lines represent depths at or below the natural ground surface

 Job No: 1CT022.038 Filename: AppE_1CT022.038_Inclinometers.pptx	 DORIS TIA	2019 AGI - North Dam		
		Inclinometer 120-2A Velocity Time Series		
		Date: Feb. 2020	Approved: AB	Figure: E.21

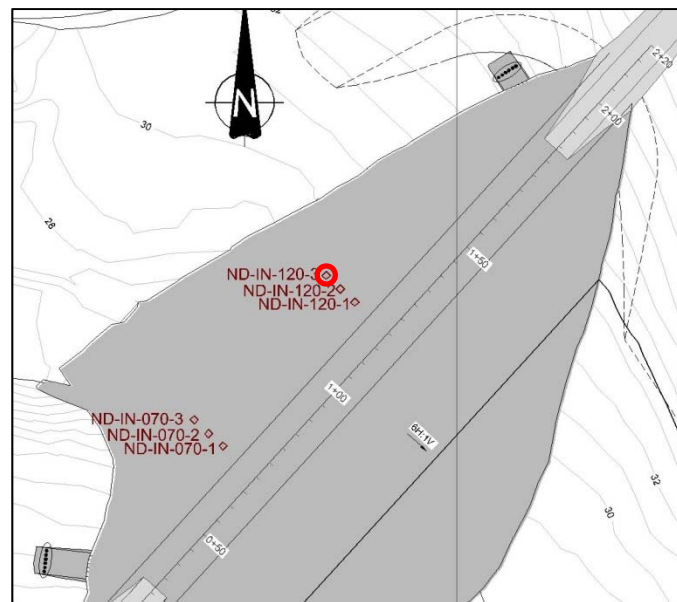
Profile Perpendicular to Centerline



Profile Parallel to Centerline



LEGEND:



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



Job No: 1CT022.038
Filename: AppE_1CT022.038_Inclinometers.pptx



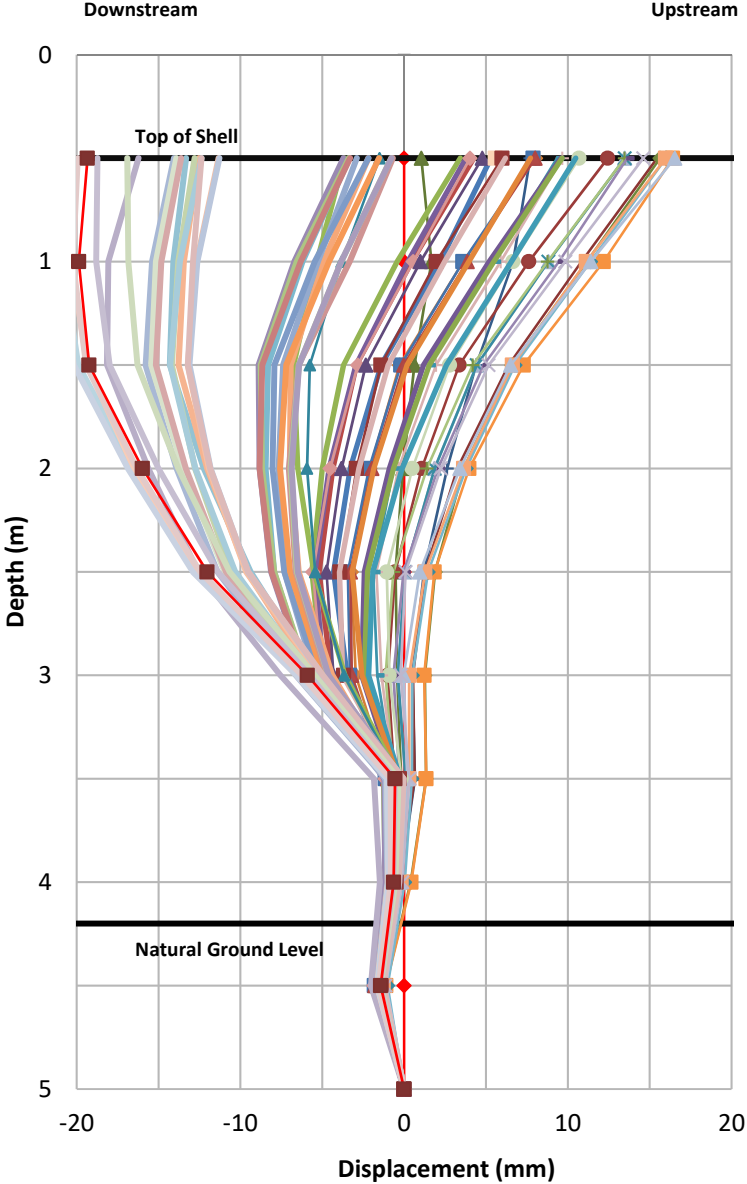
DORIS TIA

2019 AGI - North Dam

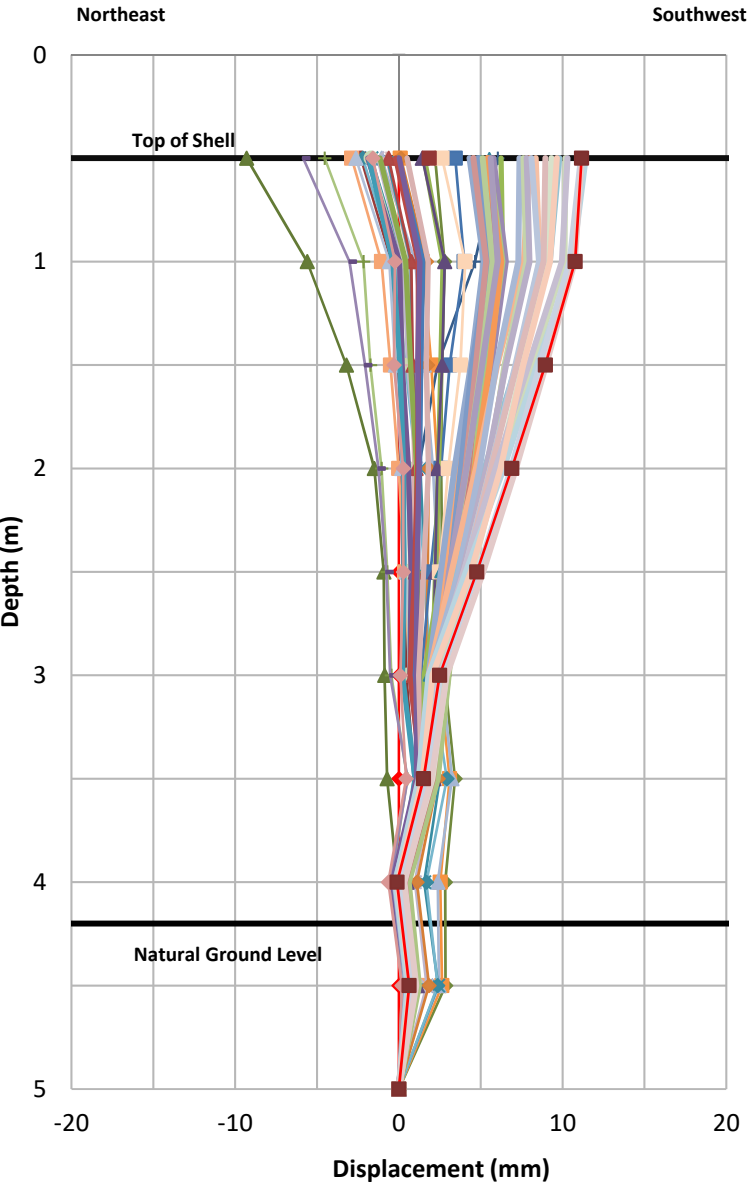
Inclinometer 120-3 Profiles

Date: Feb. 2020
Approved: AB
Figure: E.22

Displacement Perpendicular to Centerline

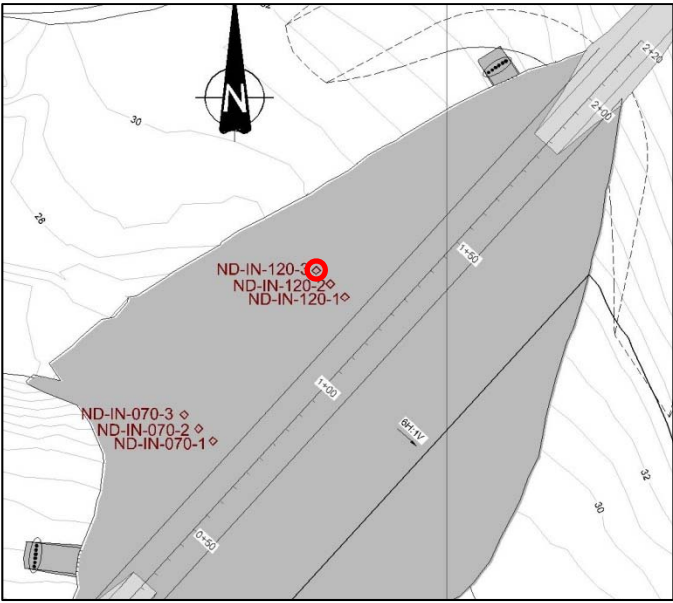


Displacement Parallel to Centerline



LEGEND:

- Initial Reading (9/8/2012)
- 5/20/2014
- 7/6/2014
- 8/8/2014
- 10/1/2014
- 3/21/2015
- 5/20/2015
- 7/9/2015
- 8/28/2015
- 10/9/2015
- 12/30/2015
- 3/7/2016
- 7/2/2016
- 9/25/2016
- 1/3/2017
- 2/23/2017
- 4/15/2017
- 6/25/2017
- 8/9/2017
- 10/14/2017
- 12/16/2017
- 2/17/2018
- 4/20/2018
- 6/8/2018
- 8/3/2018
- 10/21/2018
- 1/1/2019
- 2/16/2019
- 5/10/2019
- 7/27/2019
- 9/28/2019
- 11/24/2019
- 2/18/2020
- 7/26/2013
- 6/18/2014
- 7/12/2014
- 9/1/2014
- 2/2/2015
- 4/20/2015
- 6/26/2015
- 8/2/2015
- 9/4/2015
- 11/25/2015
- 2/8/2016
- 4/11/2016
- 8/14/2016
- 11/26/2016
- 1/26/2017
- 3/23/2017
- 5/20/2017
- 7/16/2017
- 9/14/2017
- 11/17/2017
- 1/17/2018
- 3/21/2018
- 5/19/2018
- 7/7/2018
- 9/29/2018
- 11/10/2018
- 1/25/2019
- 4/15/2019
- 6/12/2019
- 8/25/2019
- 10/26/2019
- 1/20/2020



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



Job No: 1CT022.038
Filename: AppE_1CT022.038_Inclinometers.pptx



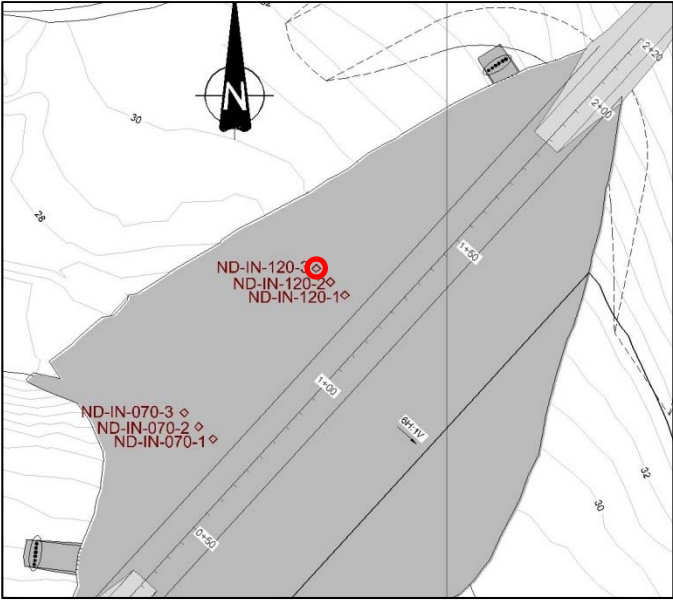
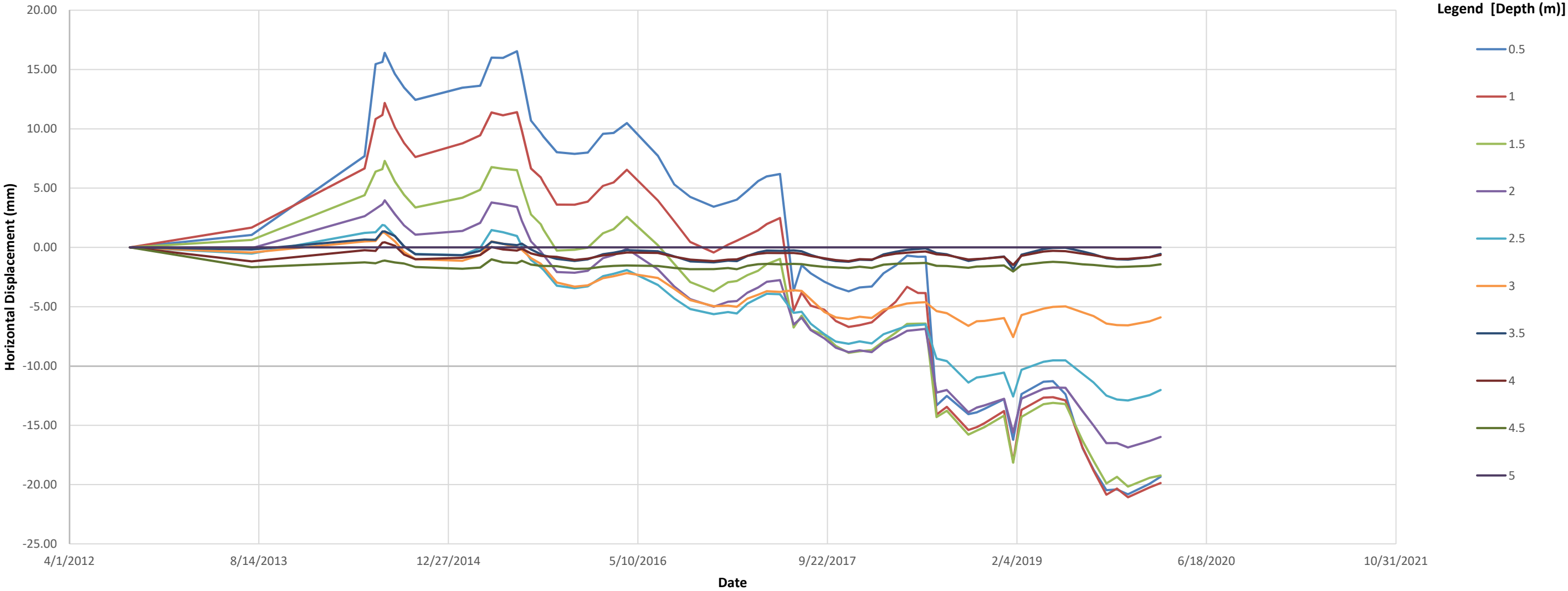
DORIS TIA

2019 AGI - North Dam

Inclinometer 120-3
Displacements

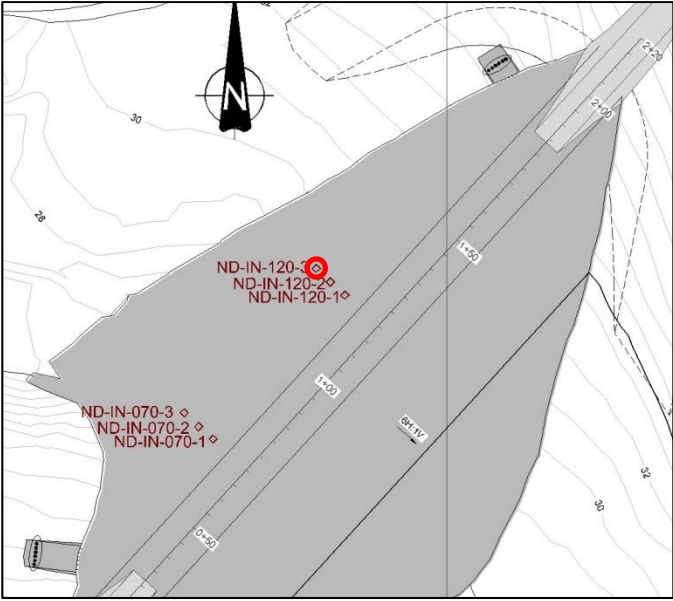
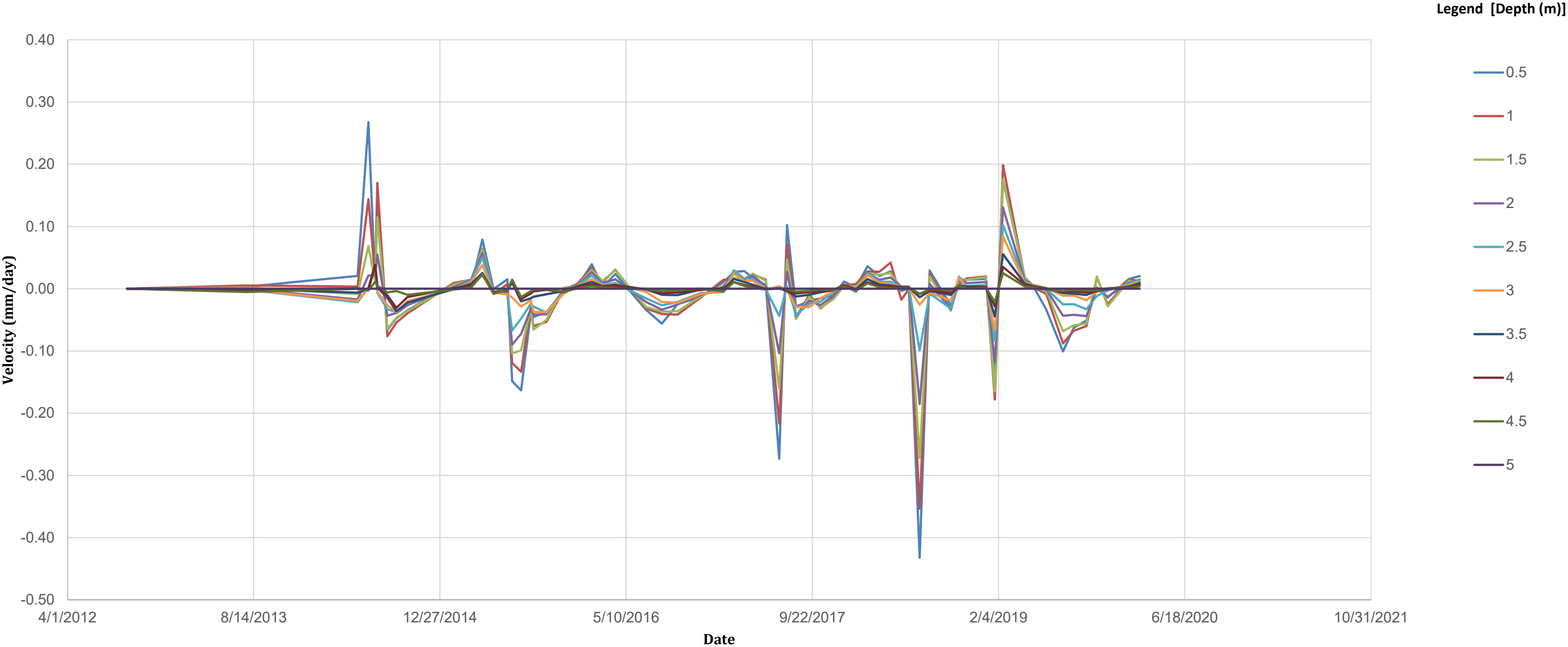
Date: Feb. 2020
Approved: AB
Figure: E.23

Inclinometer 120-3A Timeseries



- Notes:**
- 1. Manufacture's accuracy is +/- 0.25 mm per location
 - 2. Survey data excluded from the charts is noted on Figure E.1
 - 3. Dashed lines represent depths at or below the natural ground surface

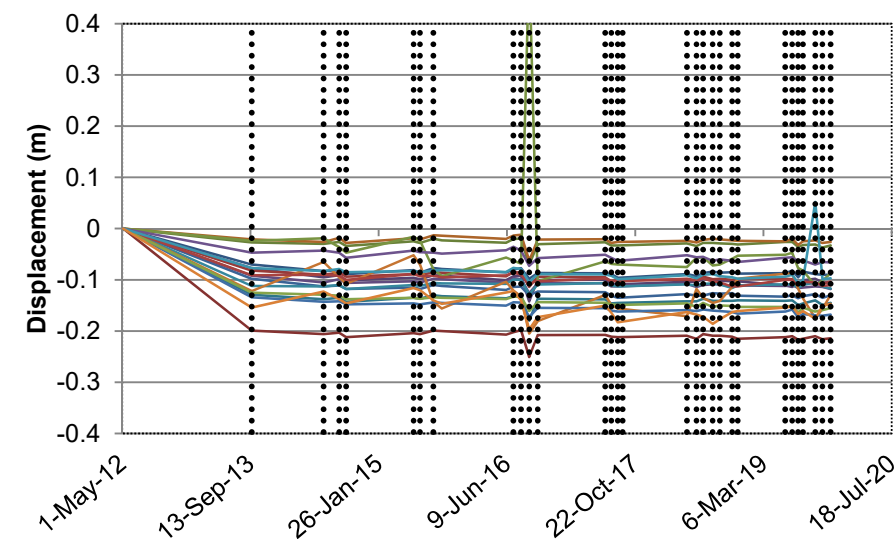
Inclinometer 120-3A Velocity Timeseries



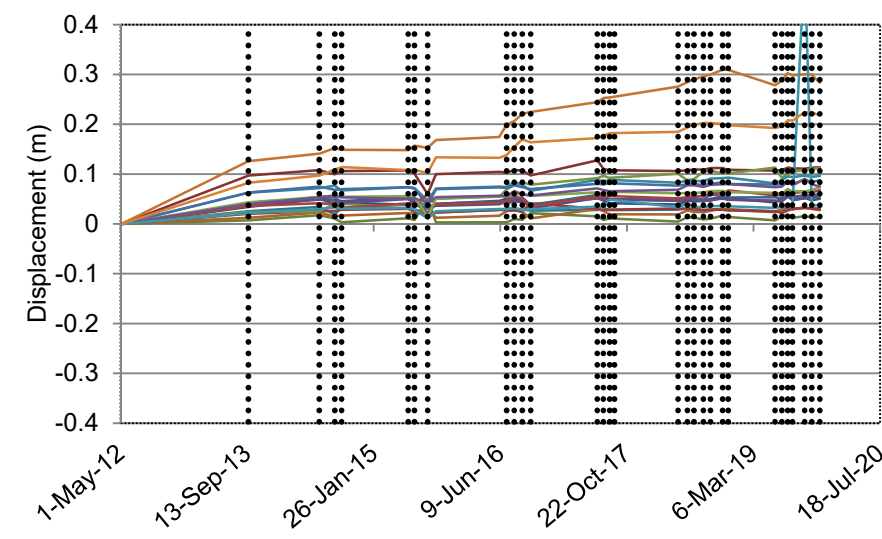
- Notes:**
- 1. Manufacture's accuracy is +/- 0.25 mm per location
 - 2. Survey data excluded from the charts is noted on Figure E.1
 - 3. Dashed lines represent depths at or below the natural ground surface

 Job No: 1CT022.038 Filename: AppE_1CT022.038_Inclinometers.pptx	 DORIS TIA	2019 AGI - North Dam		
		Inclinometer 120-3A Velocity Time Series		
		Date: Feb. 2020	Approved: AB	Figure: E.25

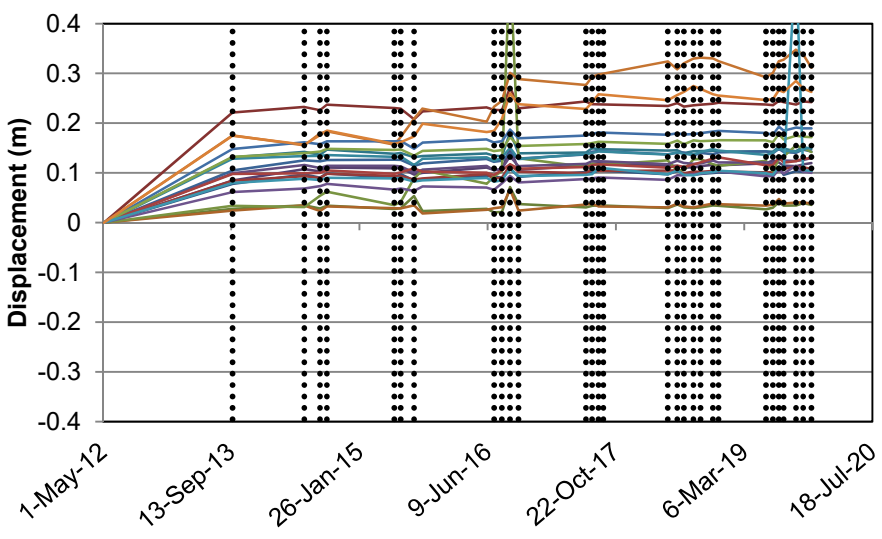
Vertical Displacement



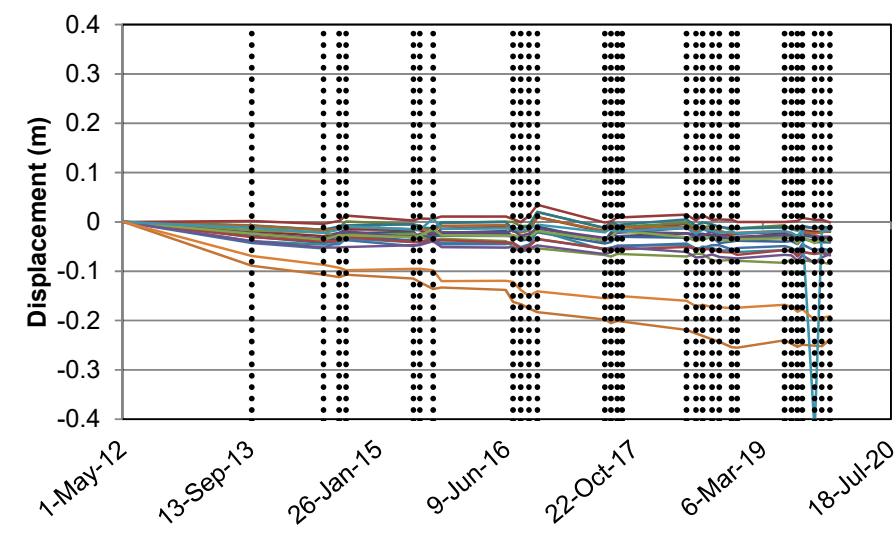
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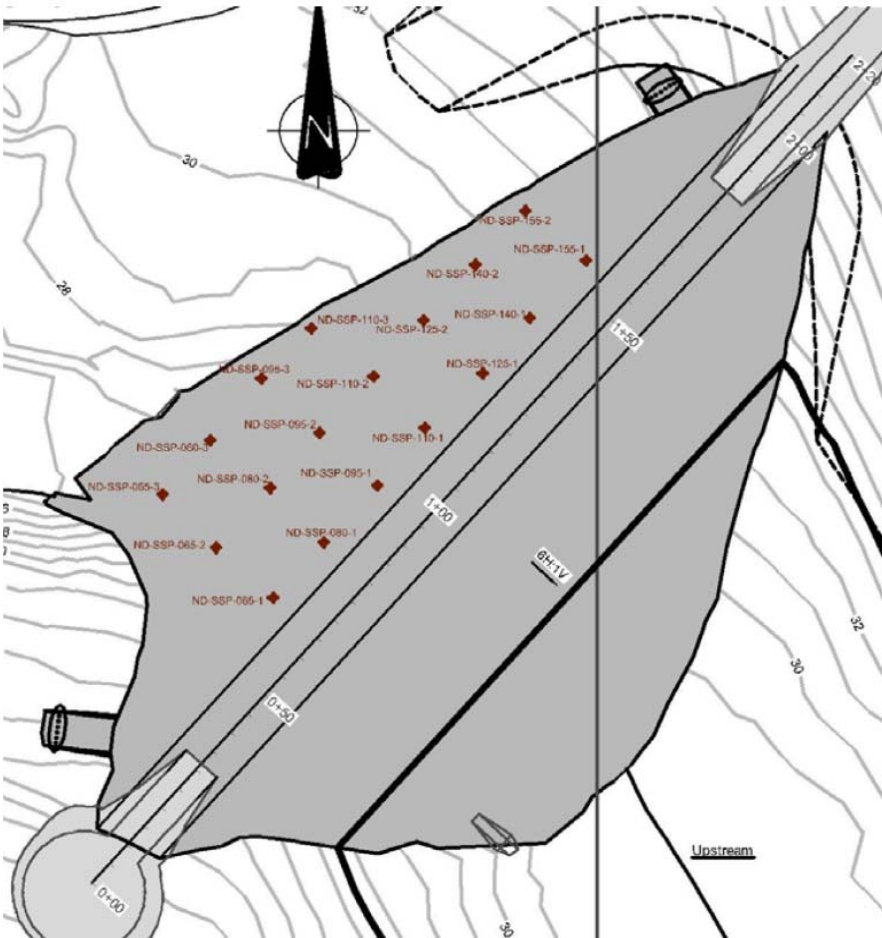
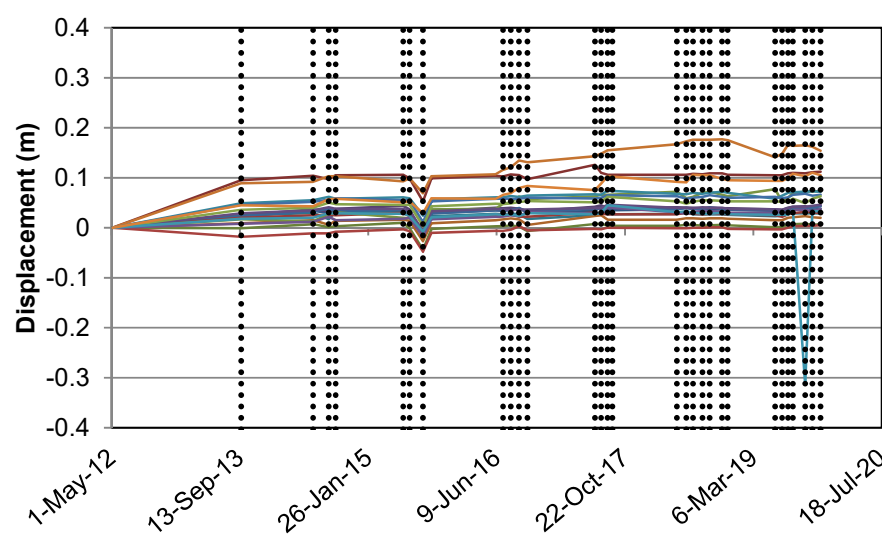
Total Displacement



Change in Easting



Change in Northing



LEGEND

ND-SSP-065-1	ND-SSP-065-2
ND-SSP-065-3	ND-SSP-080-1
ND-SSP-080-2	ND-SSP-080-3
ND-SSP-095-1	ND-SSP-095-2
ND-SSP-095-3	ND-SSP-110-1
ND-SSP-110-2	ND-SSP-110-3
ND-SSP-125-1	ND-SSP-125-2
ND-SSP-140-1	ND-SSP-140-2
ND-SSP-155-1	ND-SSP-155-2
.....	Survey Date

NOTES:

1. The anomalous horizontal displacement observed are Settlement point ND-SSP-110-3 and ND-SSP-155-1 near the downstream toe of the dam and ND-SSP-155-2 near the crest of the dam



2019 AGI - North Dam

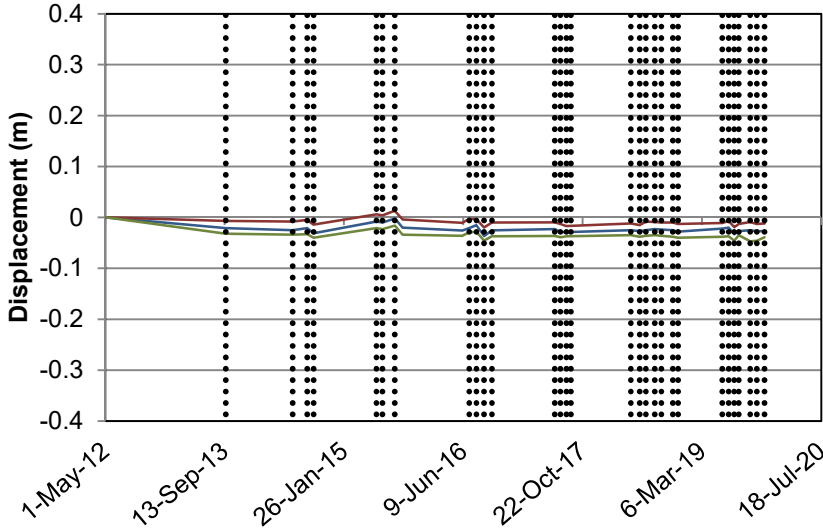
Surface Survey Monitoring Points
Displacement Timeseries

Job No: 1CT022.038
Filename: AppA_1CT022038_ND_GTC_20200226

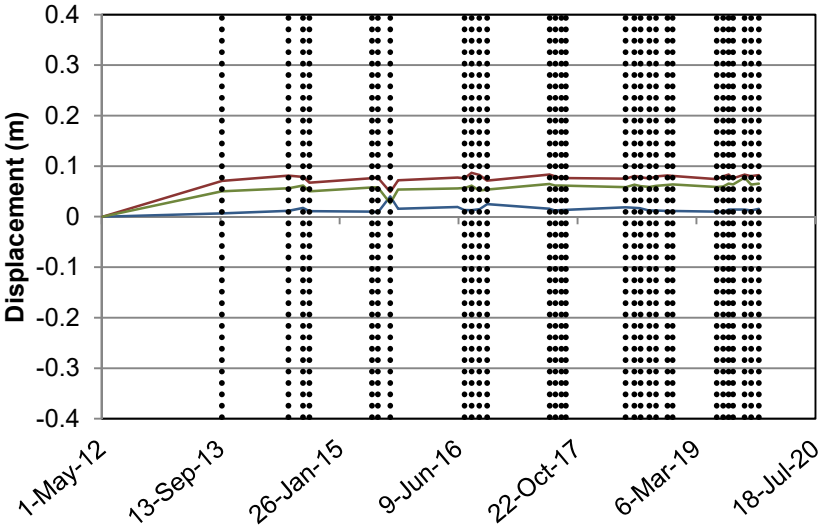
DORIS TIA

Date: Feb, 2020
Approved: PL
Figure: F.1

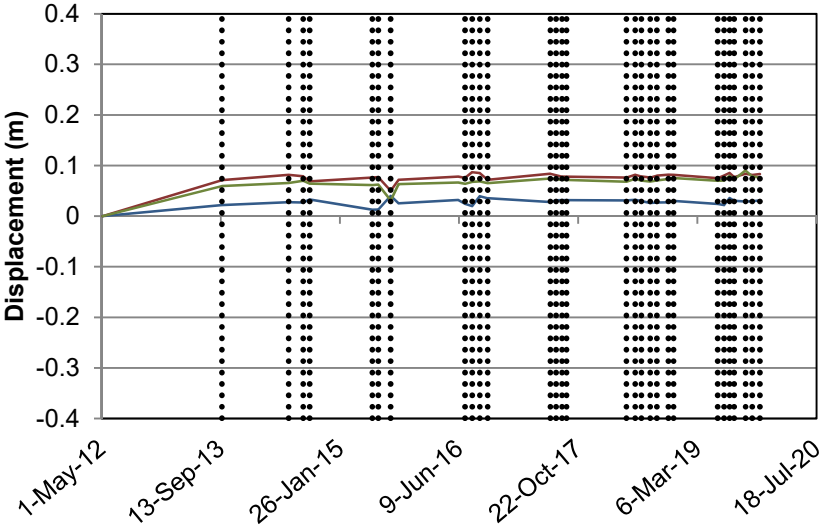
Vertical Displacement



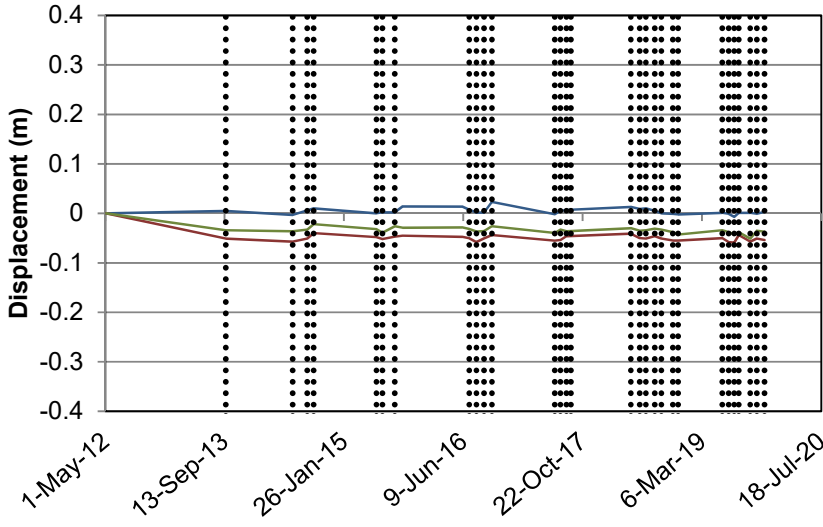
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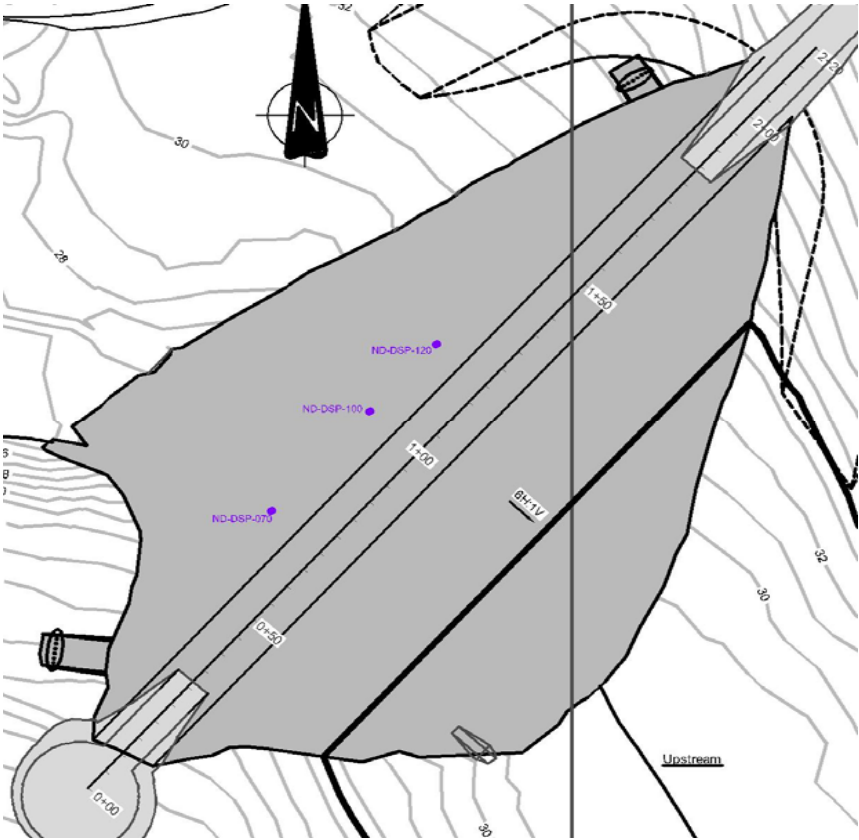
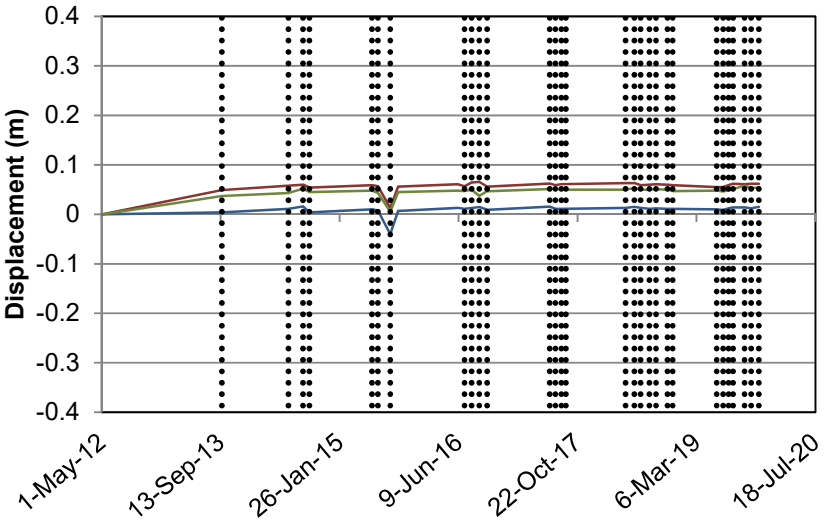
Total Displacement



Change in Easting



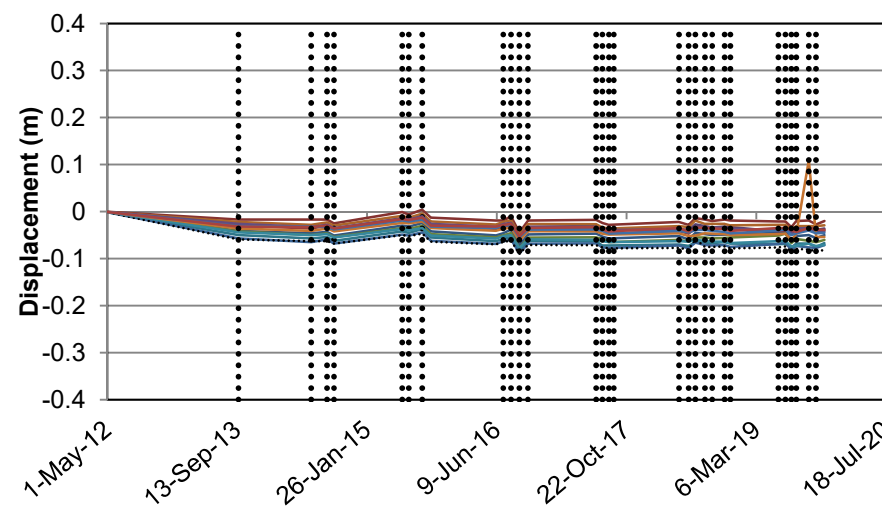
Change in Northing



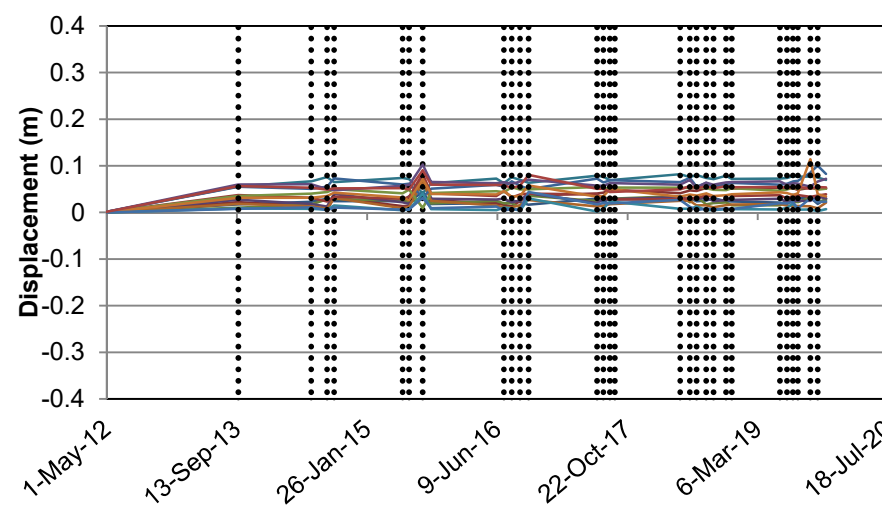
LEGEND

- ND-DSP-070
- ND-DSP-100
- ND-DSP-120
- Survey Date

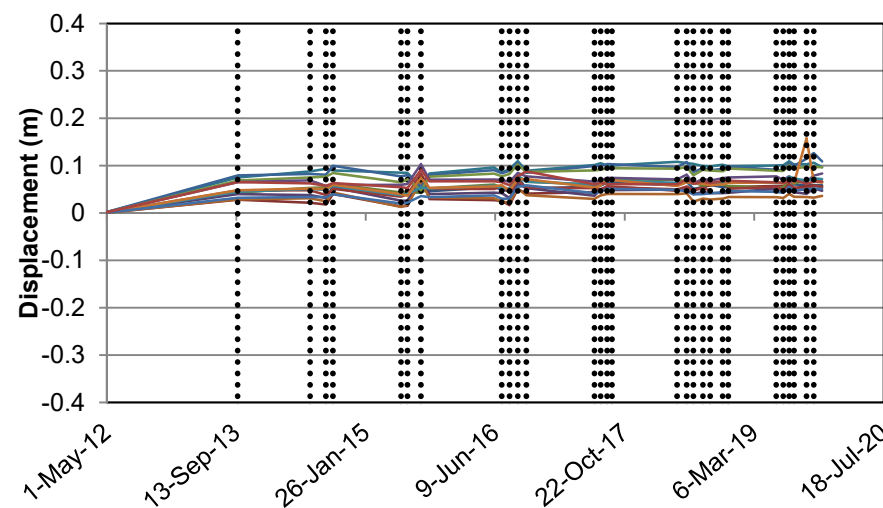
Vertical Displacement



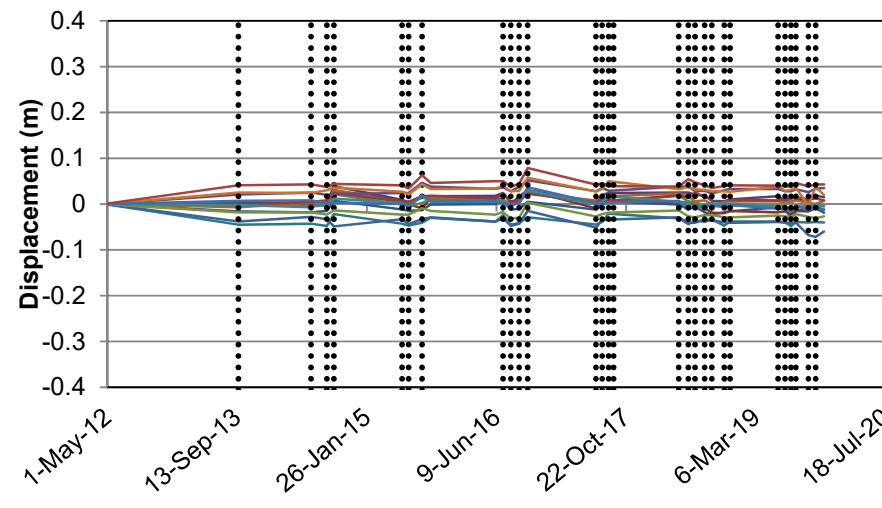
Horizontal Displacement



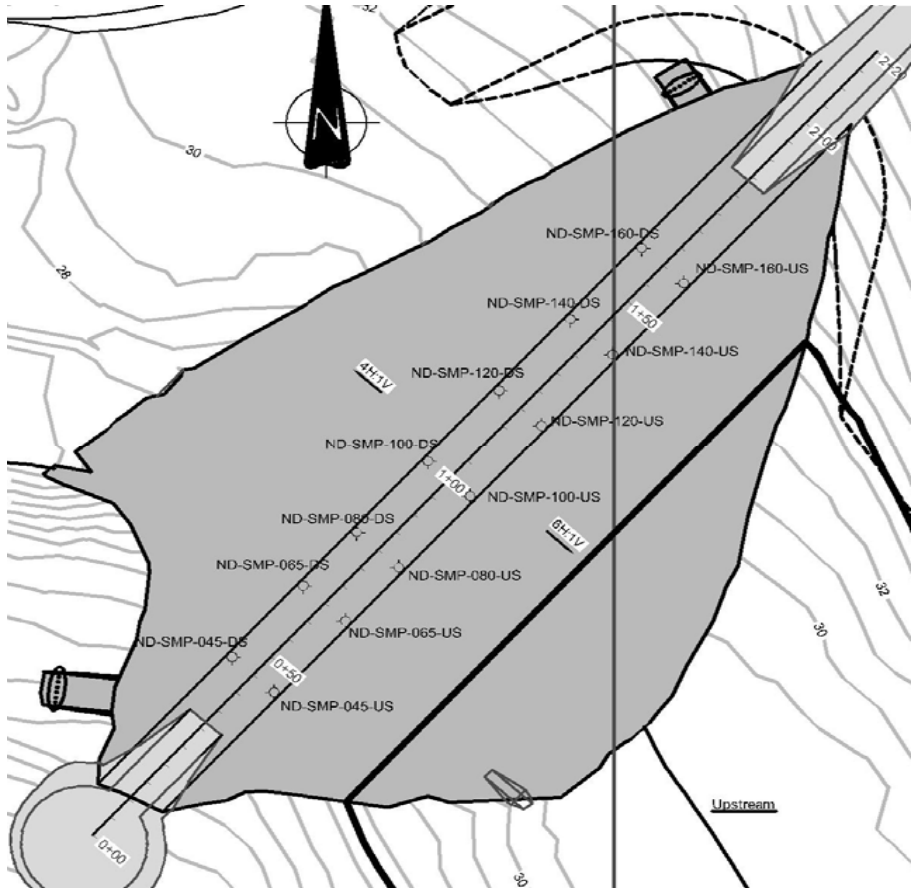
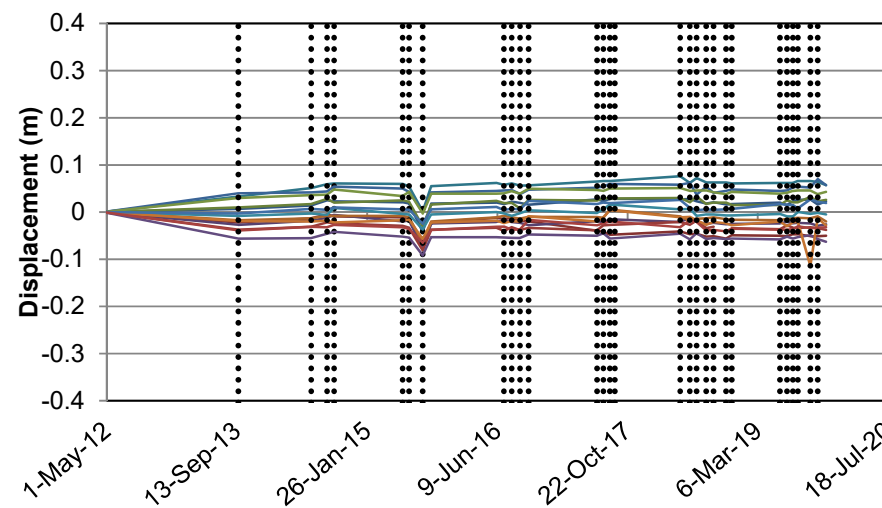
Total Displacement



Change in Easting



Change in Northing

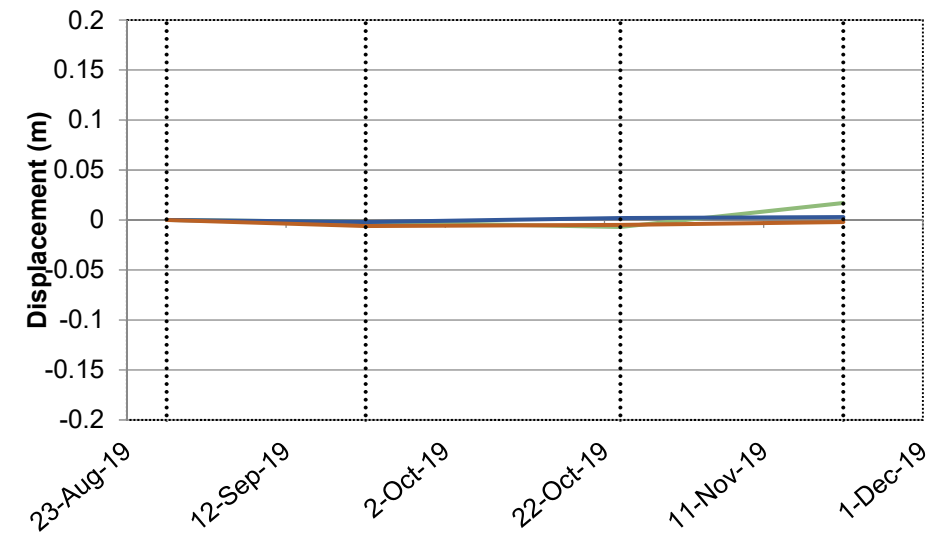


LEGEND

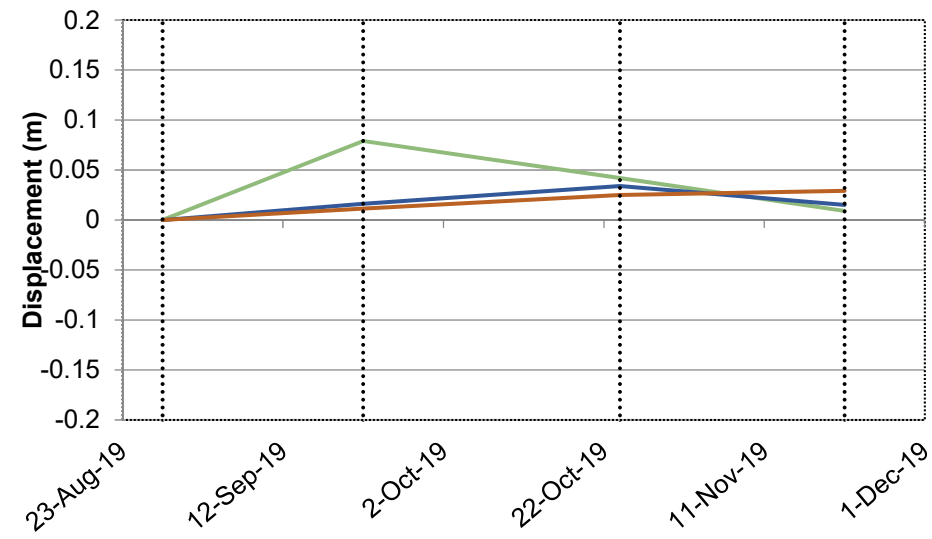
ND-SMP-045-DS	ND-SMP-045-US
ND-SMP-065-DS	ND-SMP-065-US
ND-SMP-080-DS	ND-SMP-080-US
ND-SMP-100-DS	ND-SMP-100-US
ND-SMP-120-DS	ND-SMP-120-US
ND-SMP-140-DS	ND-SMP-140-US
ND-SMP-160-DS	ND-SMP-160-US

..... Survey Date

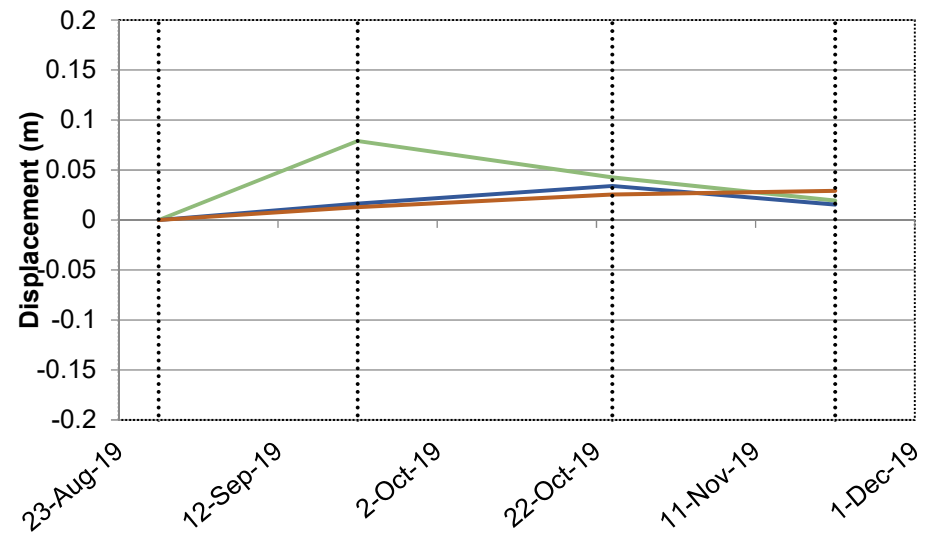
Vertical Displacement



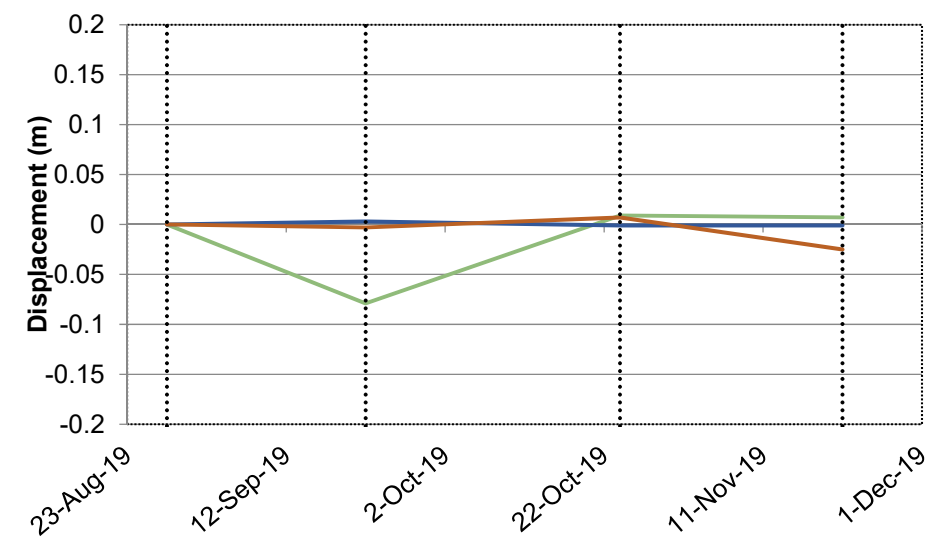
Horizontal Displacement



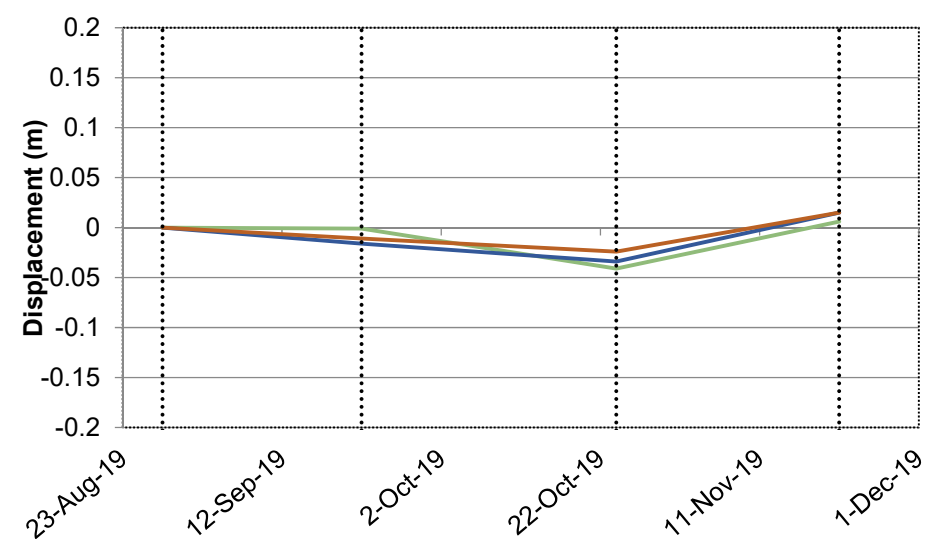
Total Displacement



Change in Easting



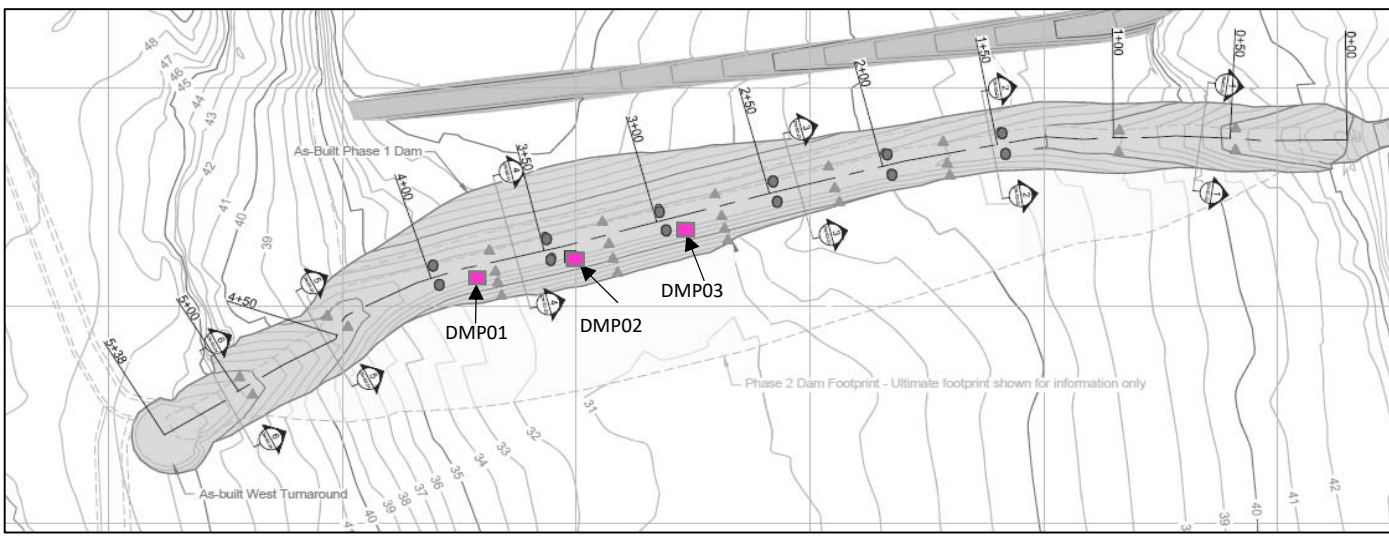
Change in Northing



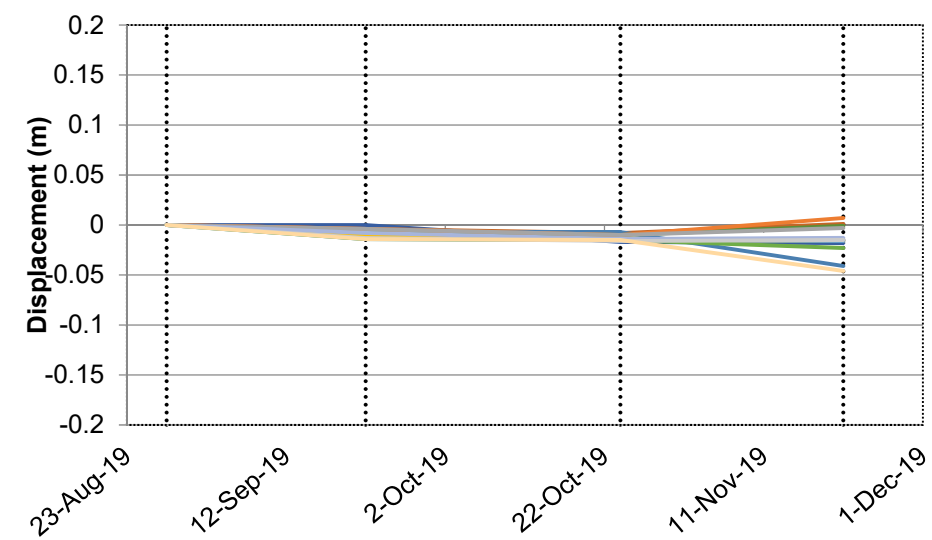
LEGEND:

- SD-DMP-01
- SD-DMP-02
- SD-DMP-03

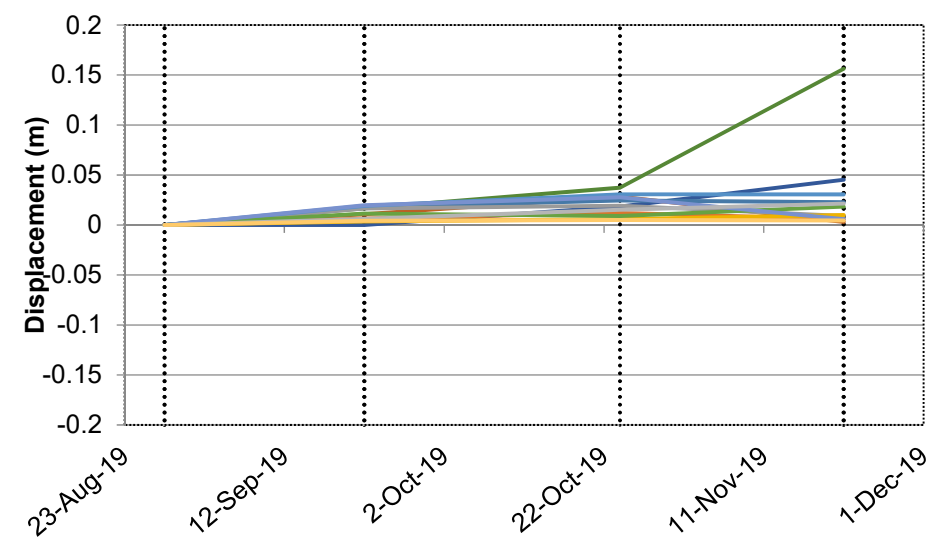
NOTES:



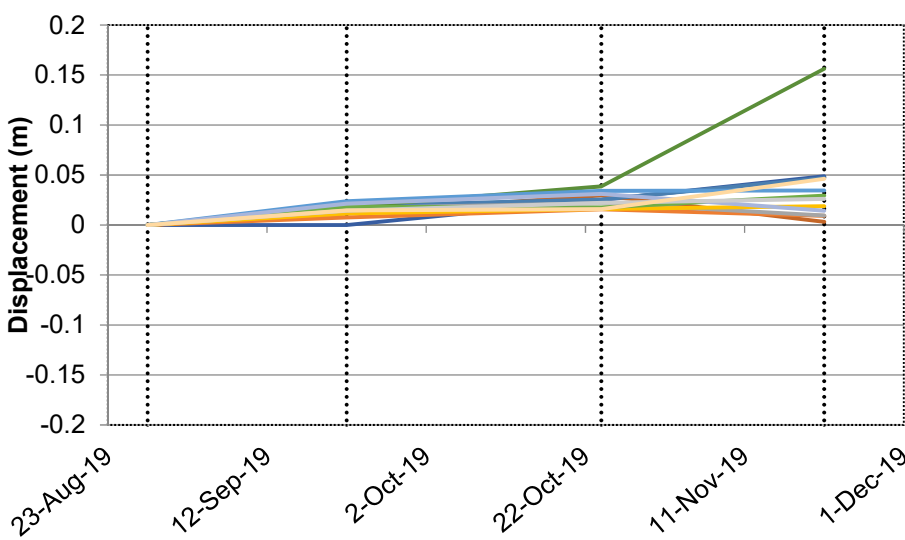
Vertical Displacement



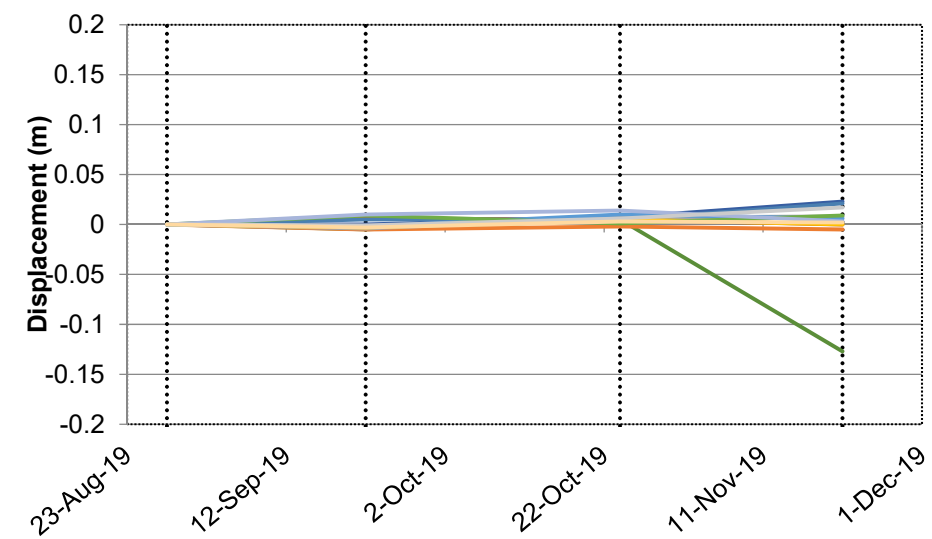
Horizontal Displacement



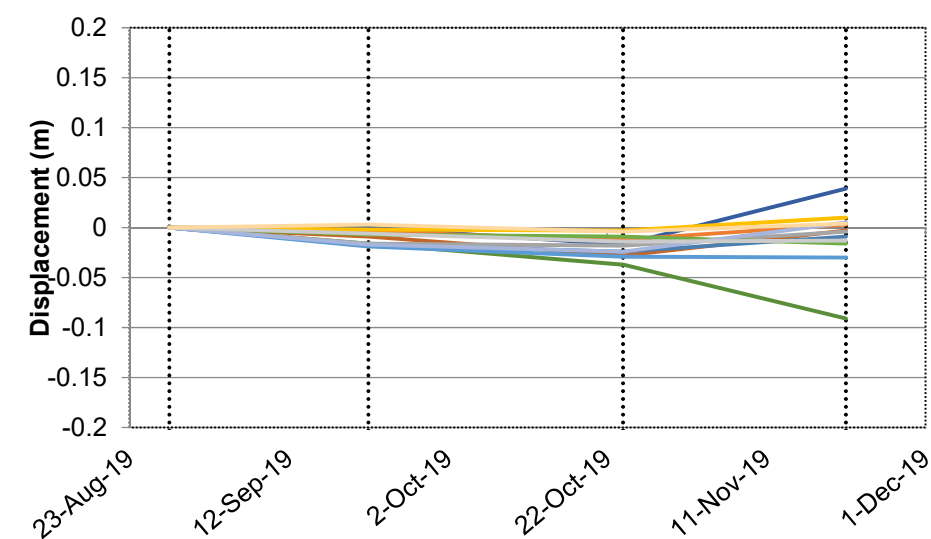
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Change in Easting



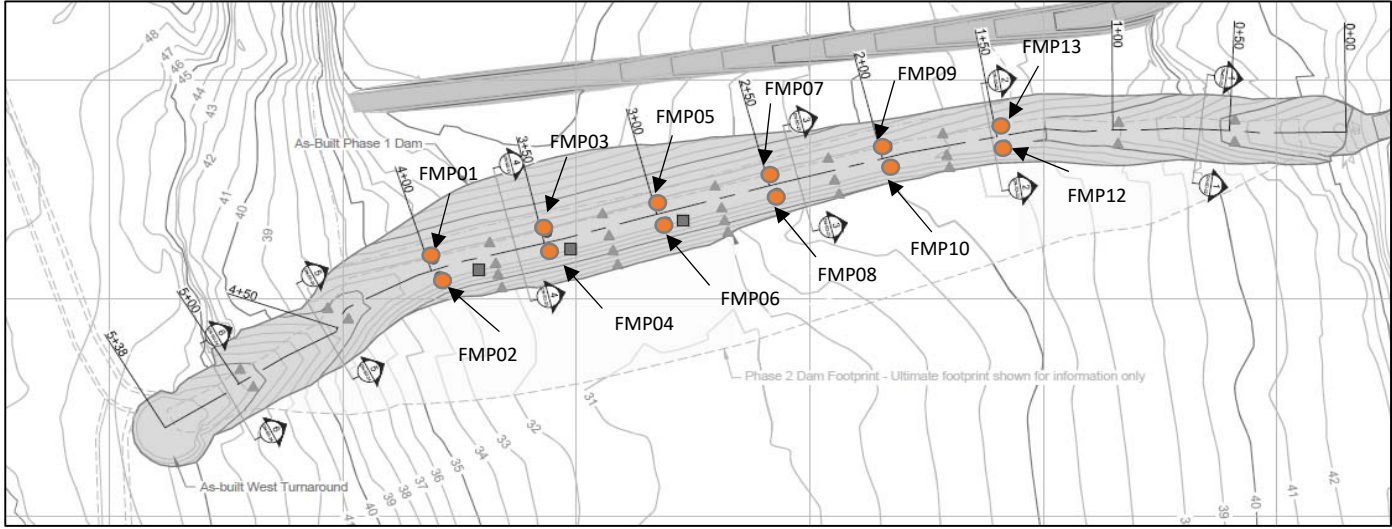
Change in Northing



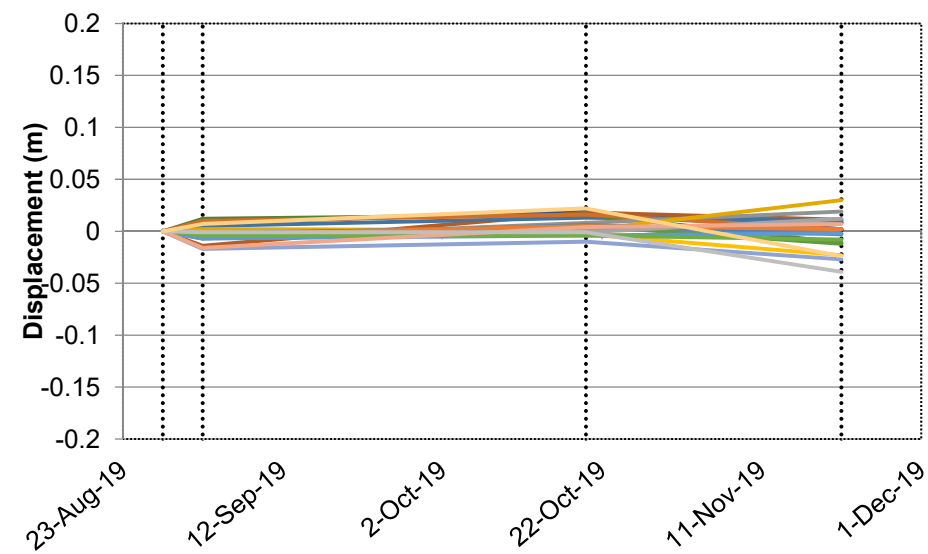
LEGEND:

- SD-FMP-01
- SD-FMP-02
- SD-FMP-03
- SD-FMP-04
- SD-FMP-05
- SD-FMP-06
- SD-FMP-07
- SD-FMP-08
- SD-FMP-09
- SD-FMP-10
- SD-FMP-12
- SD-FMP-13

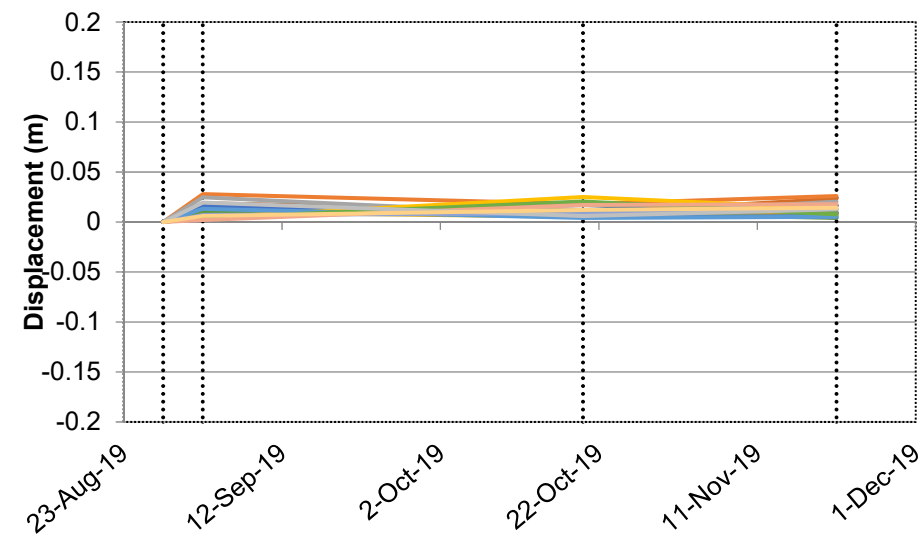
NOTES:



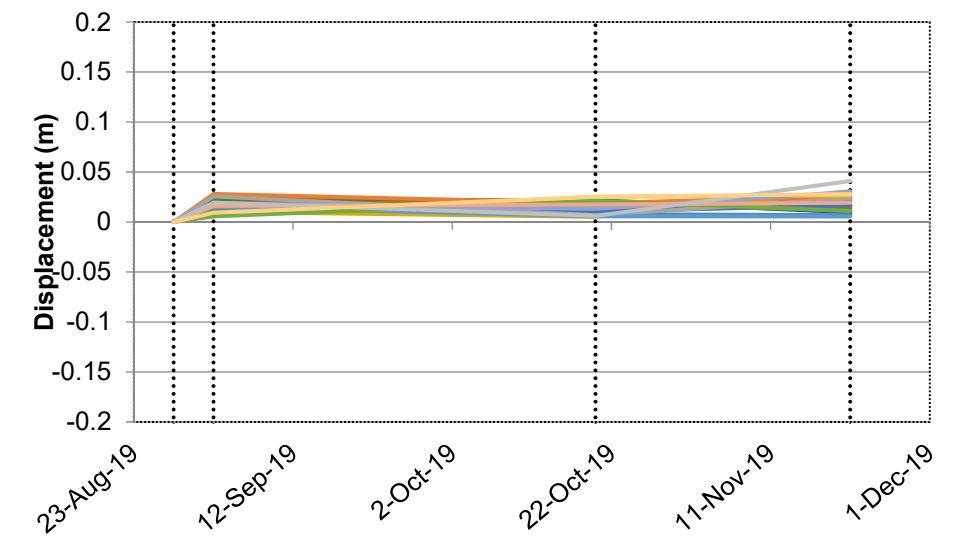
Vertical Displacement



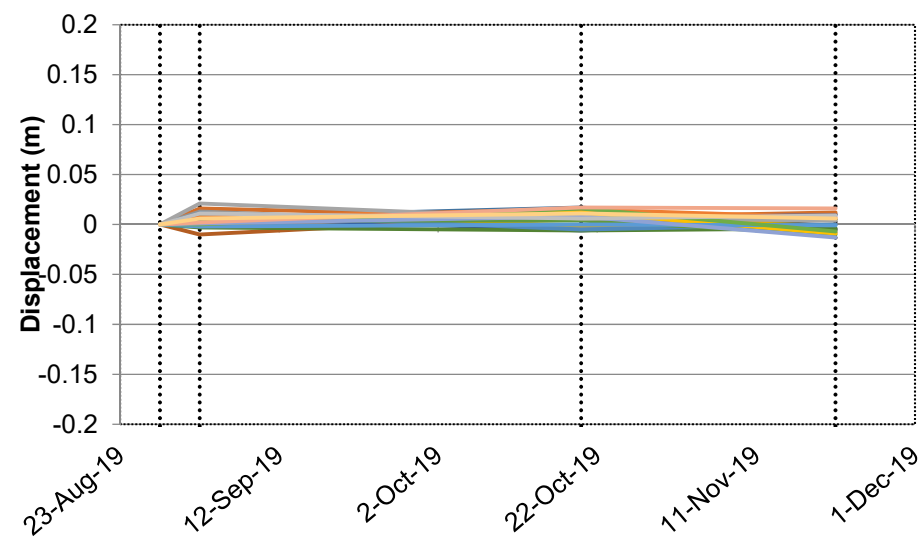
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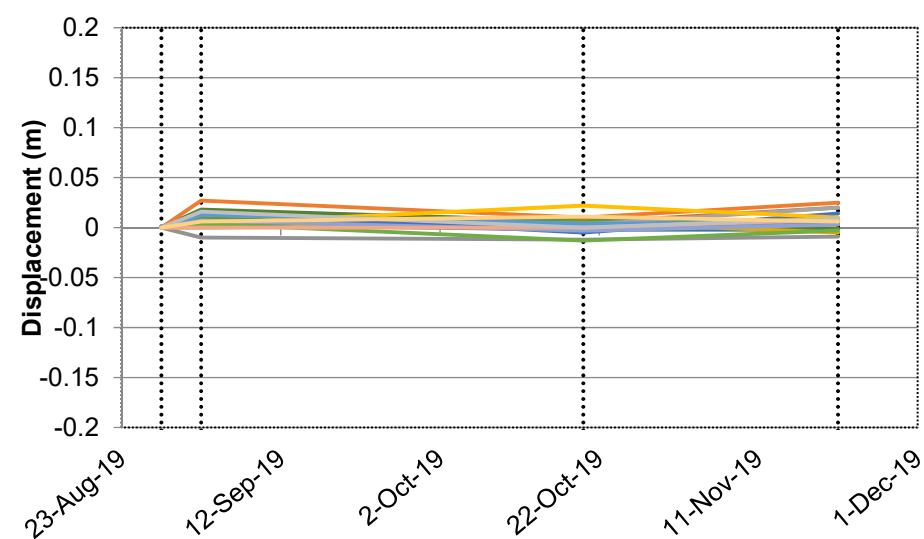
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Change in Easting



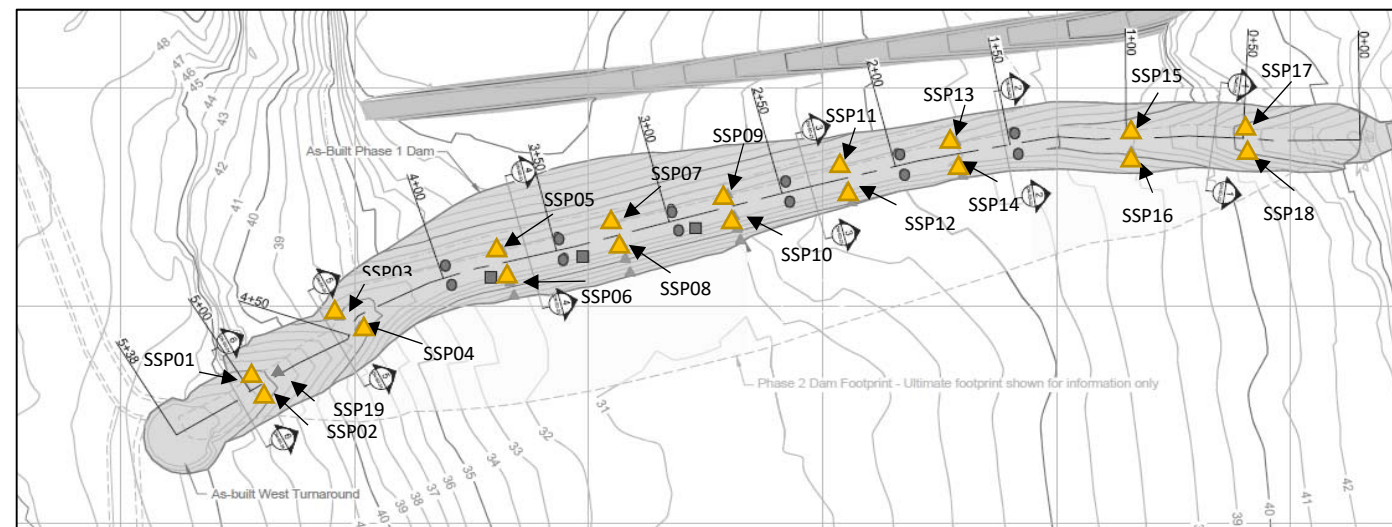
Change in Northing



LEGEND:

- | | |
|-----------|-----------|
| SD-SSP-01 | SD-SSP-02 |
| SD-SSP-03 | SD-SSP-04 |
| SD-SSP-05 | SD-SSP-06 |
| SD-SSP-07 | SD-SSP-08 |
| SD-SSP-09 | SD-SSP-10 |
| SD-SSP-11 | SD-SSP-12 |
| SD-SSP-13 | SD-SSP-14 |
| SD-SSP-15 | SD-SSP-16 |
| SD-SSP-17 | SD-SSP-18 |
| SD-SSP-19 | |

NOTES:



2019 AGI - South Dam

Surficial Survey Monitoring Points
Displacement Timeseries

Job No: 1CT022.038
Filename: AppA_1CT022038_ND_GTC_20200226

DORIS TIA

Date:
Mar, 2020

Approved:
PL

Figure:
F.1

Appendix G – Walk Over Surveys



North Dam Weekly Walkover Survey Report

Date:	Nov. 03, 2018
Inspected By:	Jian Chen, Mike Tanasa
Conditions:	(ie. snow on ground, clear) Snow on ground

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)	Yes	No
<p>If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.</p> <p>All covered in frozen snow</p>		







North Dam Weekly Walkover Survey Report

Date:	NOV. 12 118
Inspected By:	Jiam chen.
Conditions:	(ie. snow on ground, clear) snow covered all Dam

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No <input checked="" type="checkbox"/>
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	No <input checked="" type="checkbox"/>
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No <input checked="" type="checkbox"/>
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No <input checked="" type="checkbox"/>
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No <input checked="" type="checkbox"/>
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	No <input checked="" type="checkbox"/>
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	No <input checked="" type="checkbox"/>
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)	Yes	No <input checked="" type="checkbox"/> Can't see
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		



North Dam Weekly Walkover Survey Report

Date:	Nov 14, 2018
Inspected By:	Tech Fris.
Conditions:	(ie. snow on ground, clear) Snow covered

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Thermosyphons North Side Minor Rust		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Thermosyphons South Side Minor rust		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North - North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)		
	Yes	No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		







North Dam Weekly Walkover Survey Report

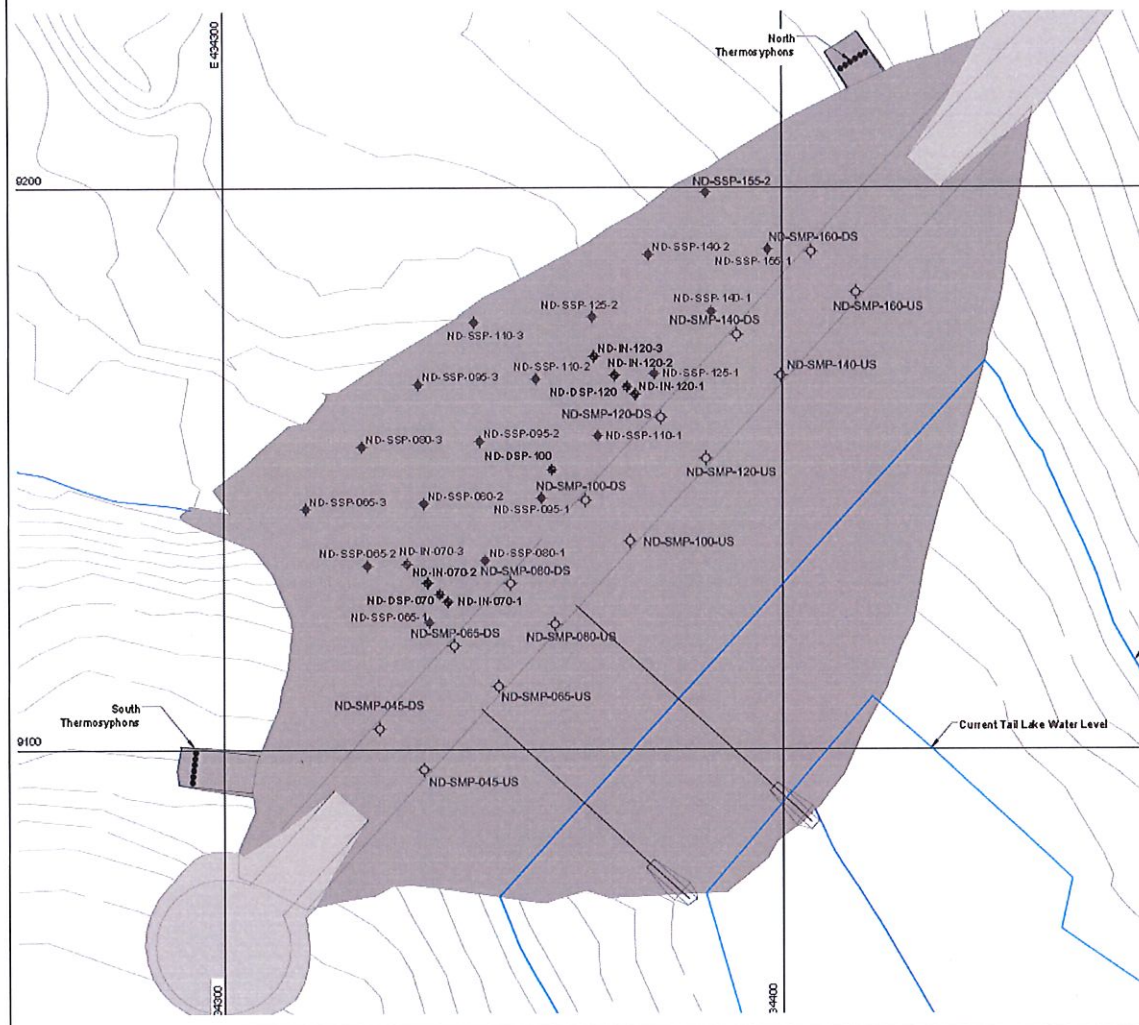
Date:	Nov 21, 2018
Inspected By:	Josh Fris
Conditions:	(ie. snow on ground, clear) Snow

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Thermosyphons North Side Minor Rust		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Thermosyphons South Side Minor Rust		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)		
	Yes	No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		

Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:

Photo from north end looking south along the dam

Photo from south end looking north along the dam

Other photos, please describe – Photos taken







North Dam Weekly Walkover Survey Report

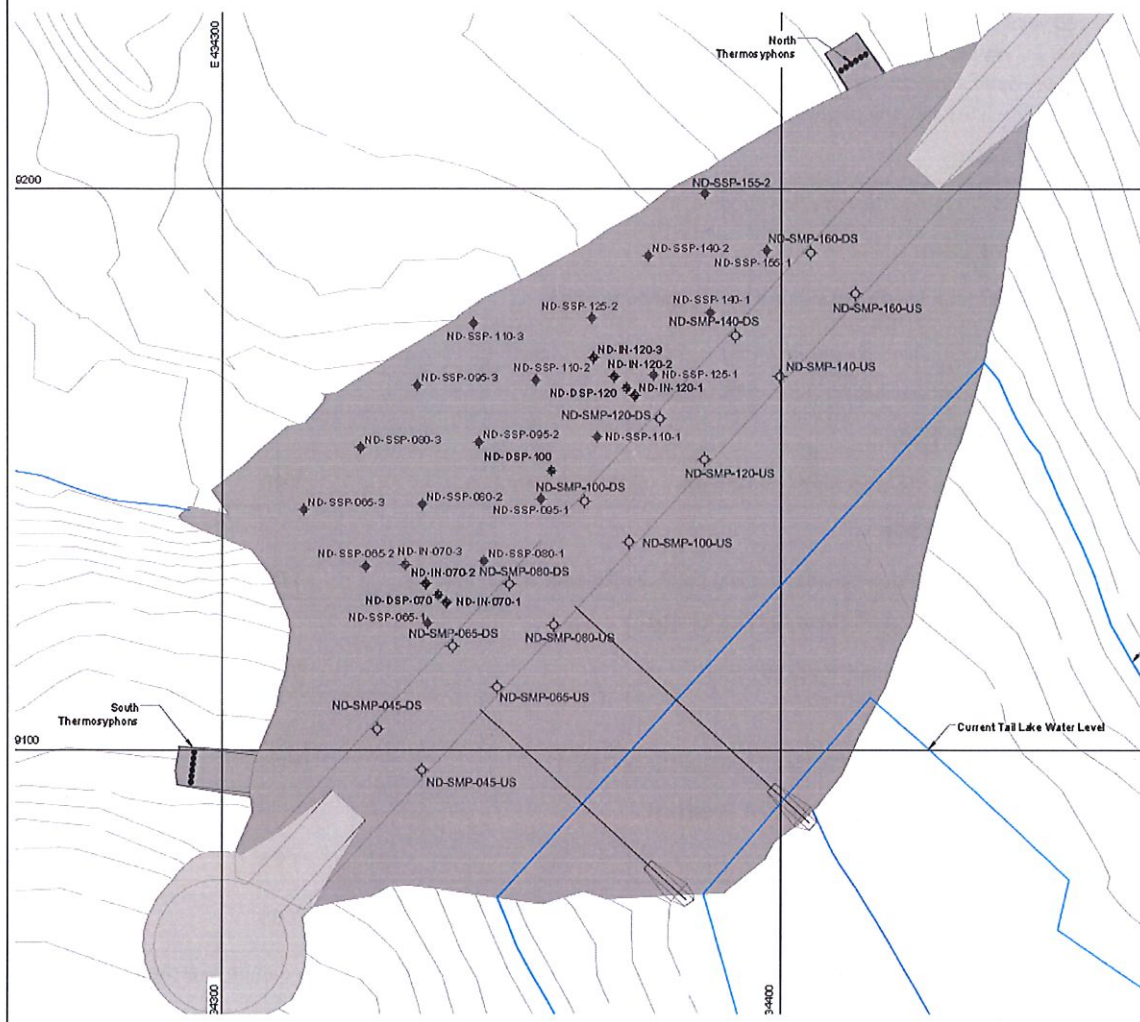
Date:	Nov 28, 2018
Inspected By:	[Signature]
Conditions:	(ie. snow on ground, clear) Snow.

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)	Yes	No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		

Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:

Photo from north end looking south along the dam

Photo from south end looking north along the dam



Other photos, please describe – Photos taken





North Dam Weekly Walkover Survey Report

Date:	Dec 09, 2018
Inspected By:	MIKE TAMASA JIAN Chen
Conditions:	(ie. snow on ground, clear) SNOW

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<u>No</u>
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	<u>No</u>
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<u>No</u>
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<u>No</u>
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<u>No</u>
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	<u>No</u>
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	<u>No</u>
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)		
	Yes	<u>No</u>
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		





North Dam Weekly Walkover Survey Report

Date:	December 17, 2018
Inspected By:	Mike Tanasa, Jian Chen
Conditions:	(ie. snow on ground, clear) Snow

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<input checked="" type="radio"/> No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	<input checked="" type="radio"/> No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<input checked="" type="radio"/> No
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<input checked="" type="radio"/> No
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<input checked="" type="radio"/> No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	<input checked="" type="radio"/> No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	<input checked="" type="radio"/> No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)	Yes	<input checked="" type="radio"/> No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		



North Dam Weekly Walkover Survey Report

Date:	December 20 / 2018
Inspected By:	MIKE TAMASA, JIAN CHEN
Conditions:	(ie. snow on ground, clear) FROZEN SNOW

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<u>No</u>
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	<u>No</u>
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<u>No</u>
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<u>No</u>
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<u>No</u>
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	<u>No</u>
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	<u>No</u>
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)	Yes	<u>No</u>
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		



North Dam Weekly Walkover Survey Report

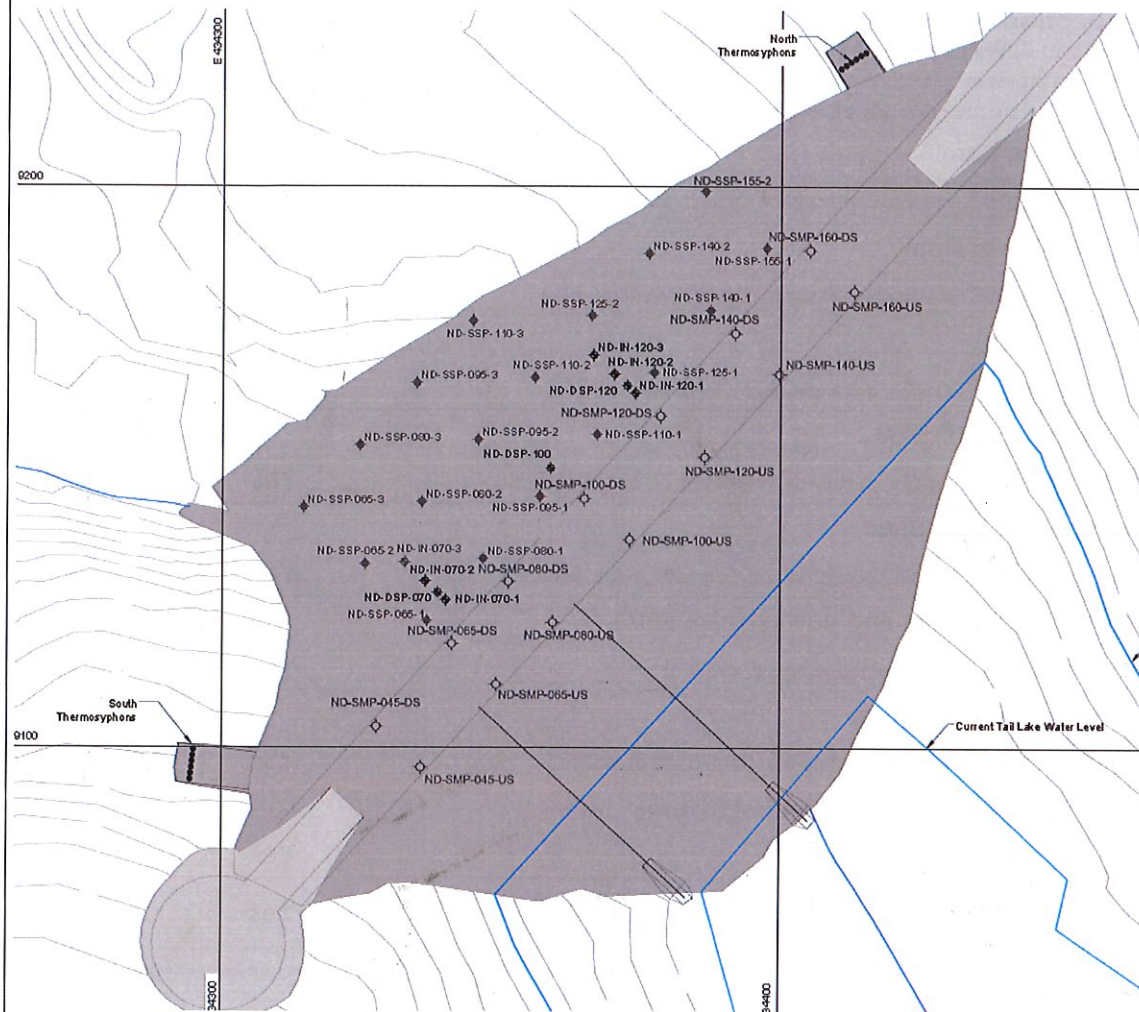
Date:	Jan 2, 2019.
Inspected By:	Dan Fries
Conditions:	(ie. snow on ground, clear) Snow

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<input checked="" type="radio"/> No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	<input checked="" type="radio"/> No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<input checked="" type="radio"/> No
Thermosyphons North Side Minor rust		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<input checked="" type="radio"/> No
Thermosyphons South Side Minor rust		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<input checked="" type="radio"/> No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	<input checked="" type="radio"/> No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	<input checked="" type="radio"/> No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	<input checked="" type="radio"/> No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)		
	Yes	<input checked="" type="radio"/> No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		

Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:

Photo from north end looking south along the dam

Photo from south end looking north along the dam



Other photos, please describe – Photos taken





North Dam Weekly Walkover Survey Report

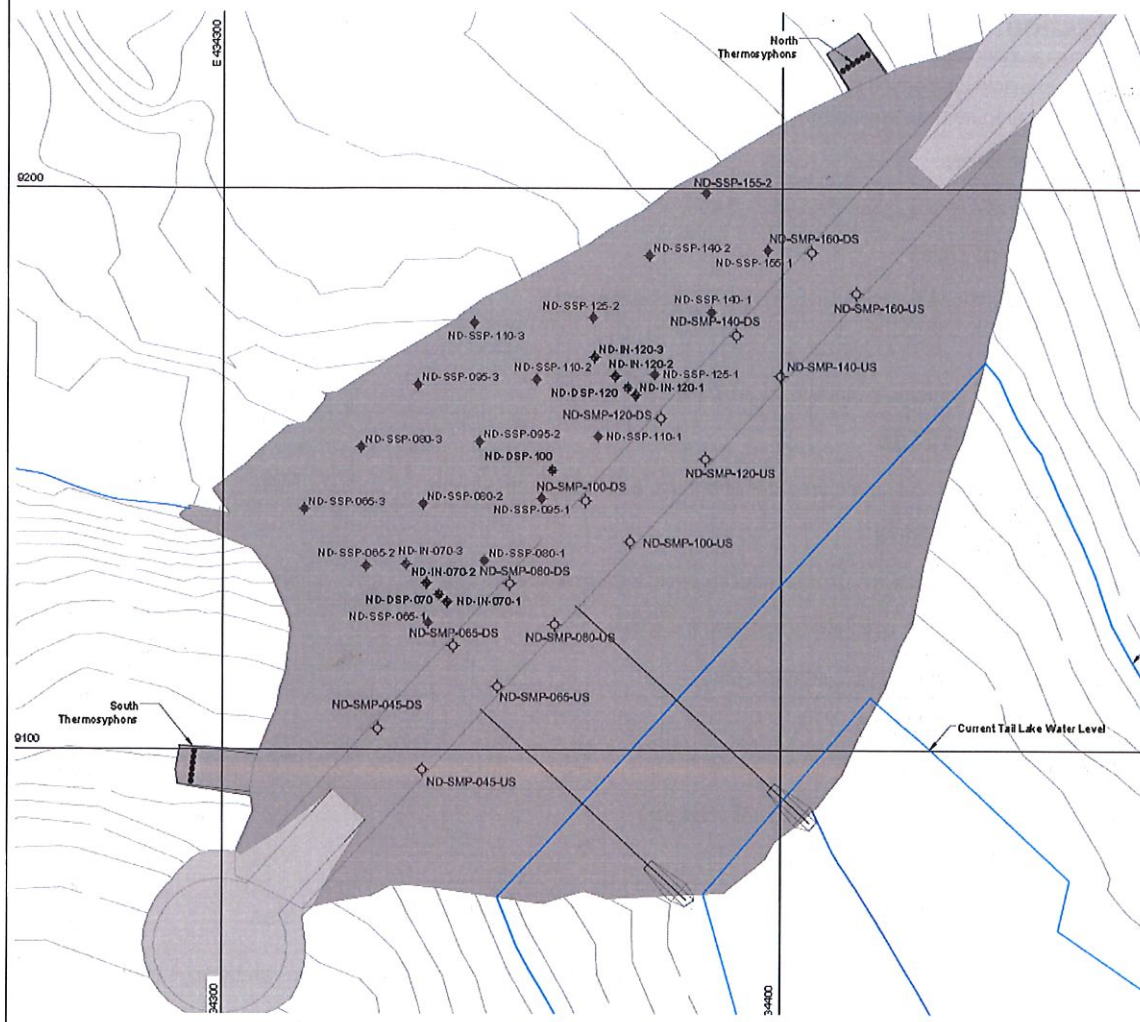
Date:	Jan 9, 2019
Inspected By:	Gosh R.R.S
Conditions:	(ie. snow on ground, clear) Snow

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<input checked="" type="radio"/> No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	<input checked="" type="radio"/> No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<input checked="" type="radio"/> No
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<input checked="" type="radio"/> No
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<input checked="" type="radio"/> No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	<input checked="" type="radio"/> No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	<input checked="" type="radio"/> No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	<input checked="" type="radio"/> No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)	Yes	<input checked="" type="radio"/> No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		

Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:

Photo from north end looking south along the dam

Photo from south end looking north along the dam

Other photos, please describe – Photos taken





North Dam Weekly Walkover Survey Report

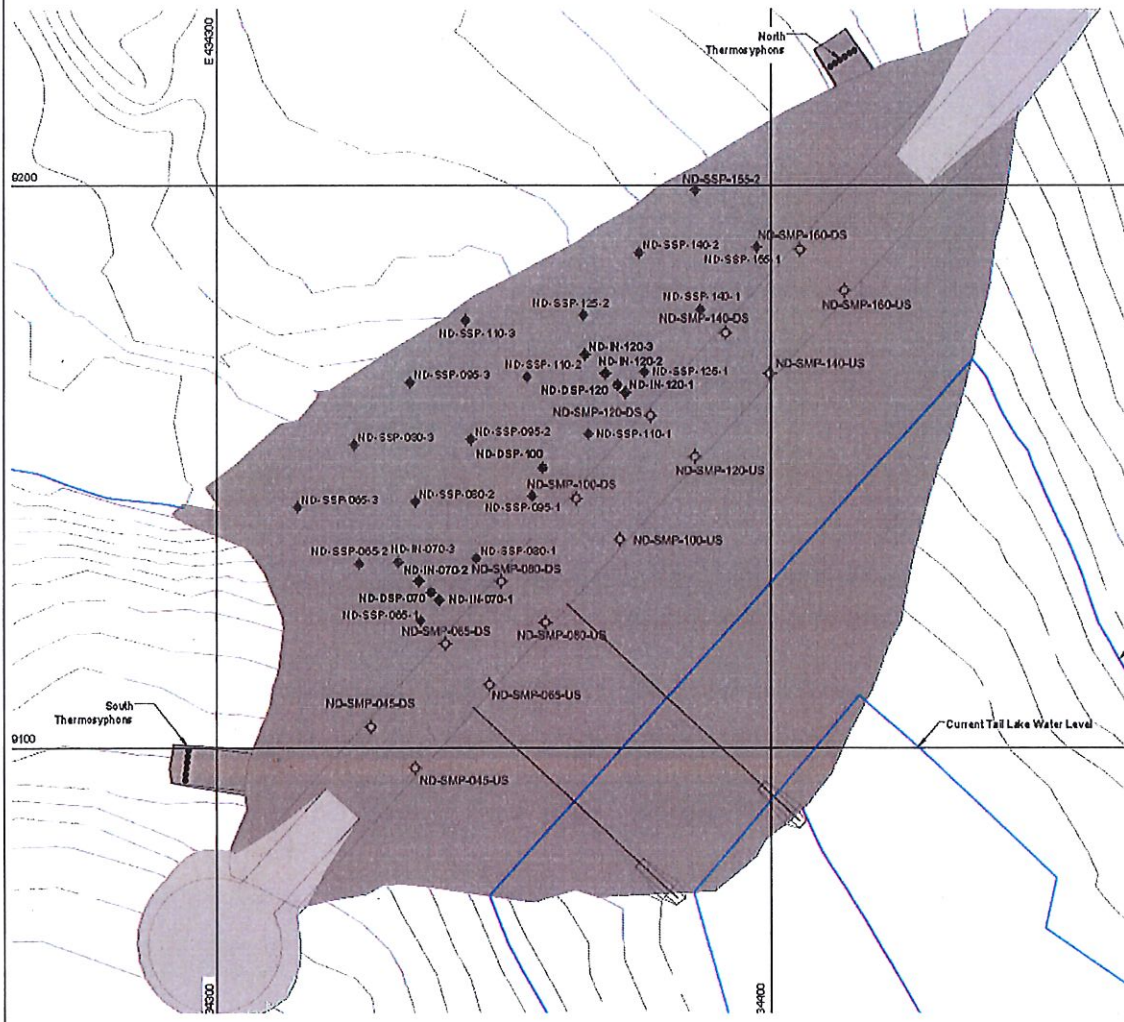
Date:	January 22, 2018
Inspected By:	Mike Tanaka
Conditions:	(ie. snow on ground, clear) Snow

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<u>No</u>
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	<u>No</u>
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<u>No</u>
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<u>No</u>
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<u>No</u>
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	<u>No</u>
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	<u>No</u>
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	<u>No</u>
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)	Yes	<u>No</u>
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		

Please provide any other observations you have made or items that did not fit in the space above



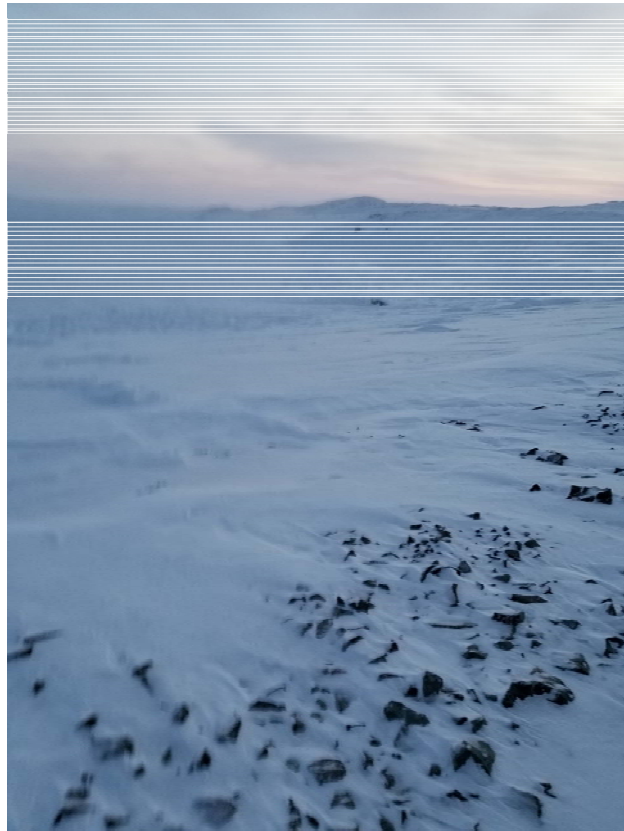
Photos:

Please collect the following photos:

Photo from north end looking south along the dam
Photo from south end looking north along the dam



Other photos, please describe – Photos taken





North Dam Weekly Walkover Survey Report

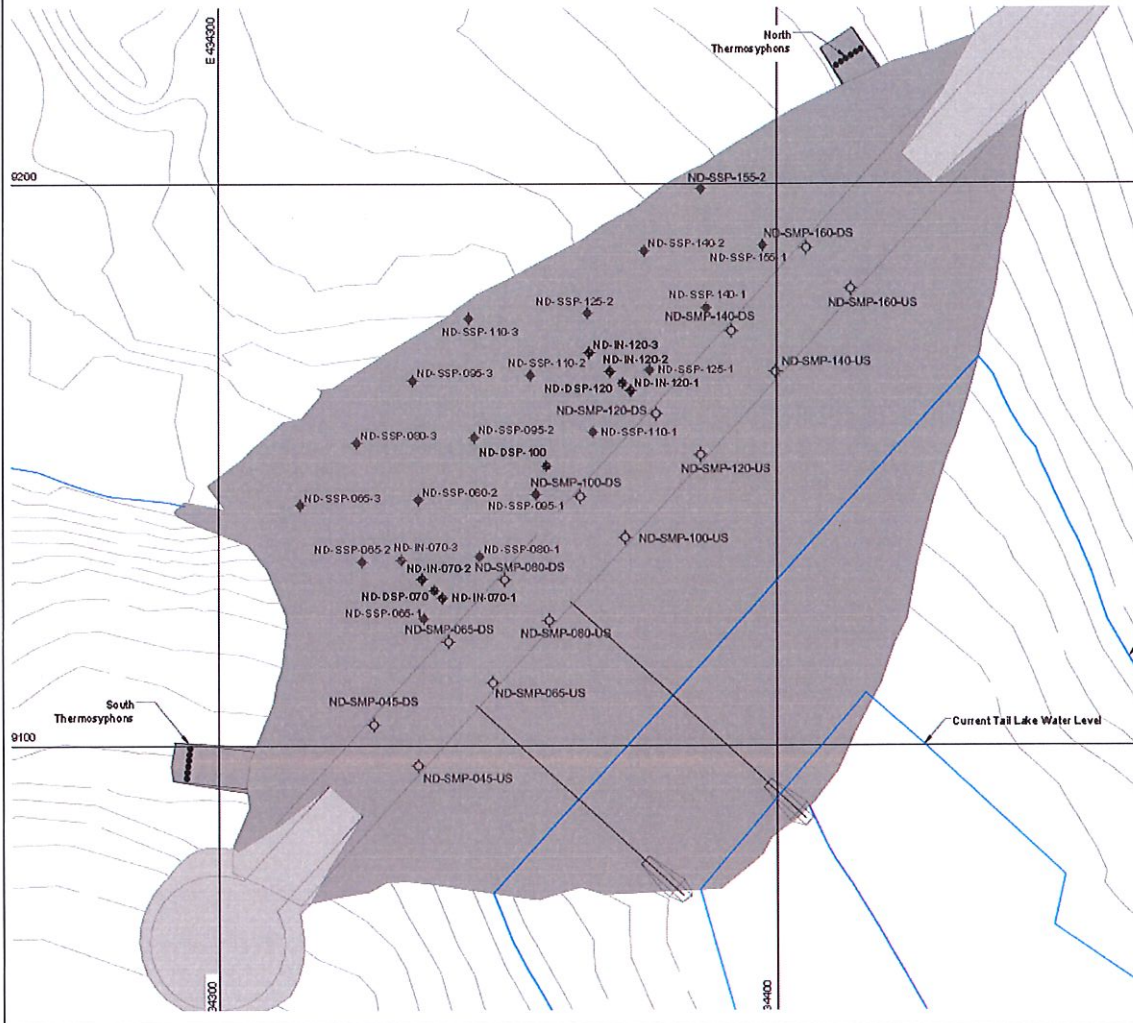
Date:	February 1st 2019
Inspected By:	MIKE TANASA
Conditions:	(ie. snow on ground, clear) SNOW

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<input checked="" type="radio"/> No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	<input checked="" type="radio"/> No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<input checked="" type="radio"/> No
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<input checked="" type="radio"/> No
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<input checked="" type="radio"/> No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	<input checked="" type="radio"/> No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	<input checked="" type="radio"/> No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	<input checked="" type="radio"/> No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)		
Yes <input checked="" type="radio"/> No		
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		

Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:

Photo from north end looking south along the dam

☐

Photo from south end looking north along the dam

☐

Other photos, please describe – Photos taken





North Dam Weekly Walkover Survey Report

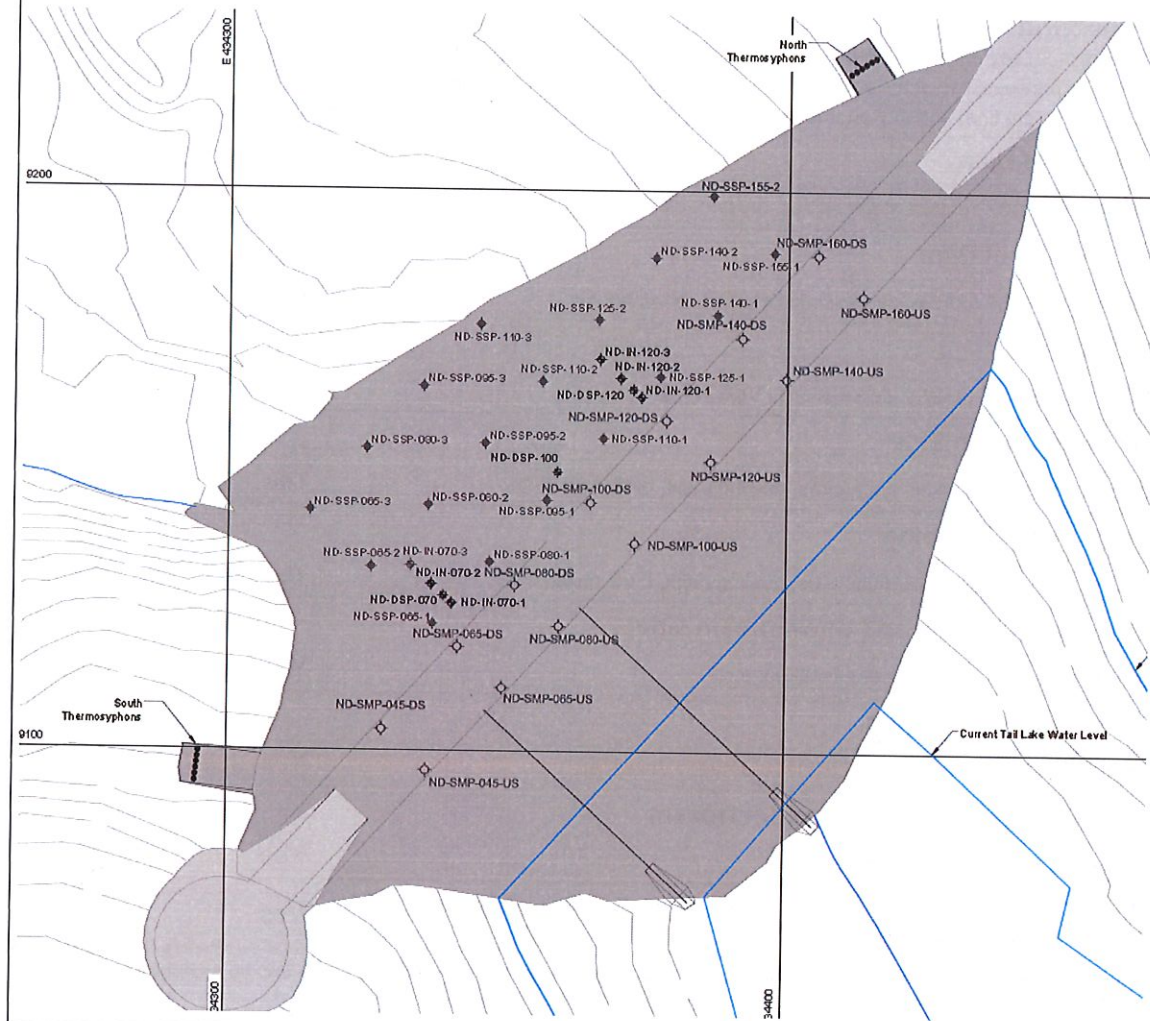
Date:	Feb 6, 2019
Inspected By:	Josh Reis
Conditions:	(ie. snow on ground, clear) Snow

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)		
Yes		
<p>If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.</p>		

Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:

Photo from north end looking south along the dam

Photo from south end looking north along the dam



Other photos, please describe – Photos taken





North Dam Weekly Walkover Survey Report

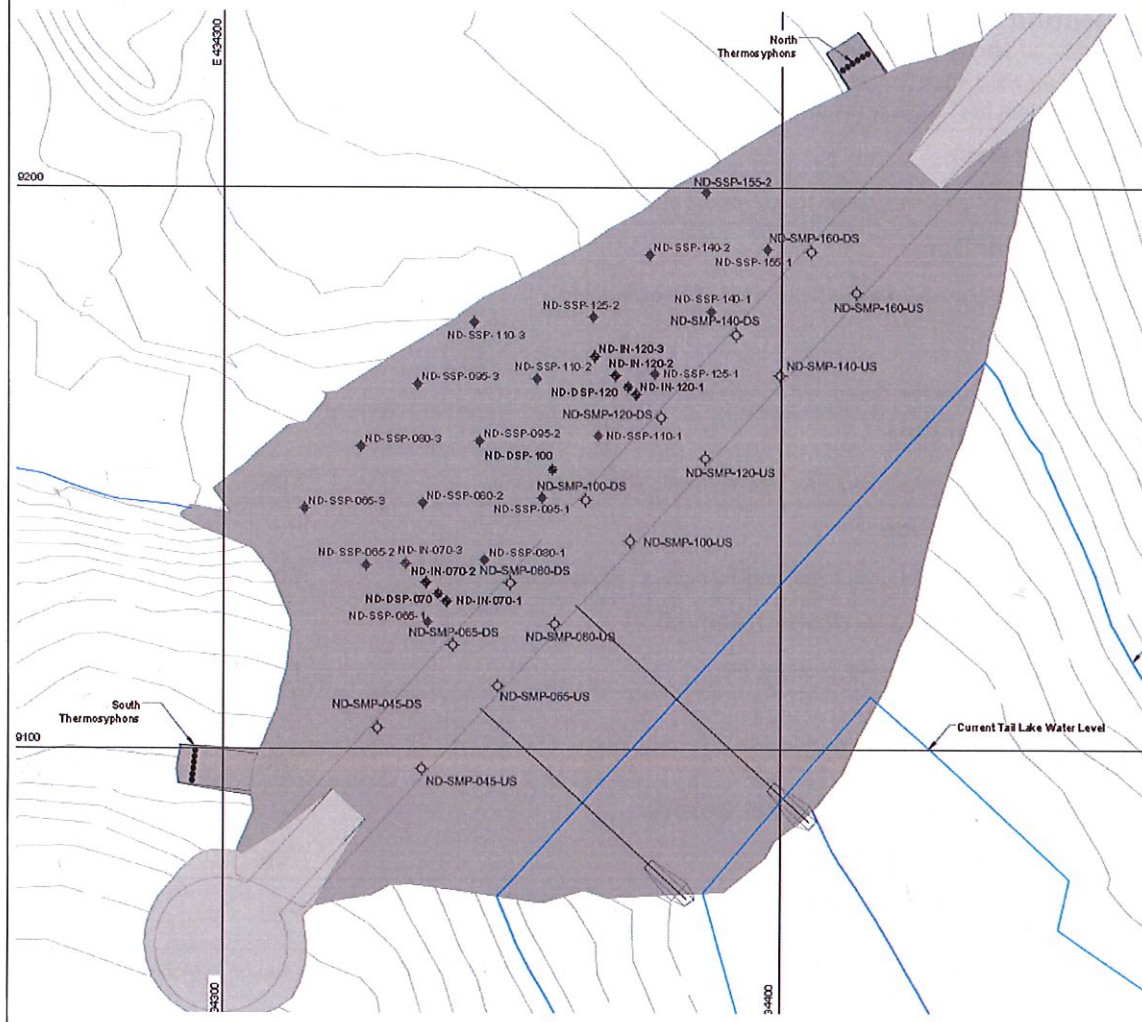
Date:	Feb 14, 2019
Inspected By:	Seth Fris
Conditions:	(ie. snow on ground, clear)

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Thermosyphons North Side Minor Rust		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Thermosyphons South Side Minor Rust		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)		
	Yes	No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		

Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:

Photo from north end looking south along the dam

Photo from south end looking north along the dam



Other photos, please describe – Photos taken





North Dam Weekly Walkover Survey Report

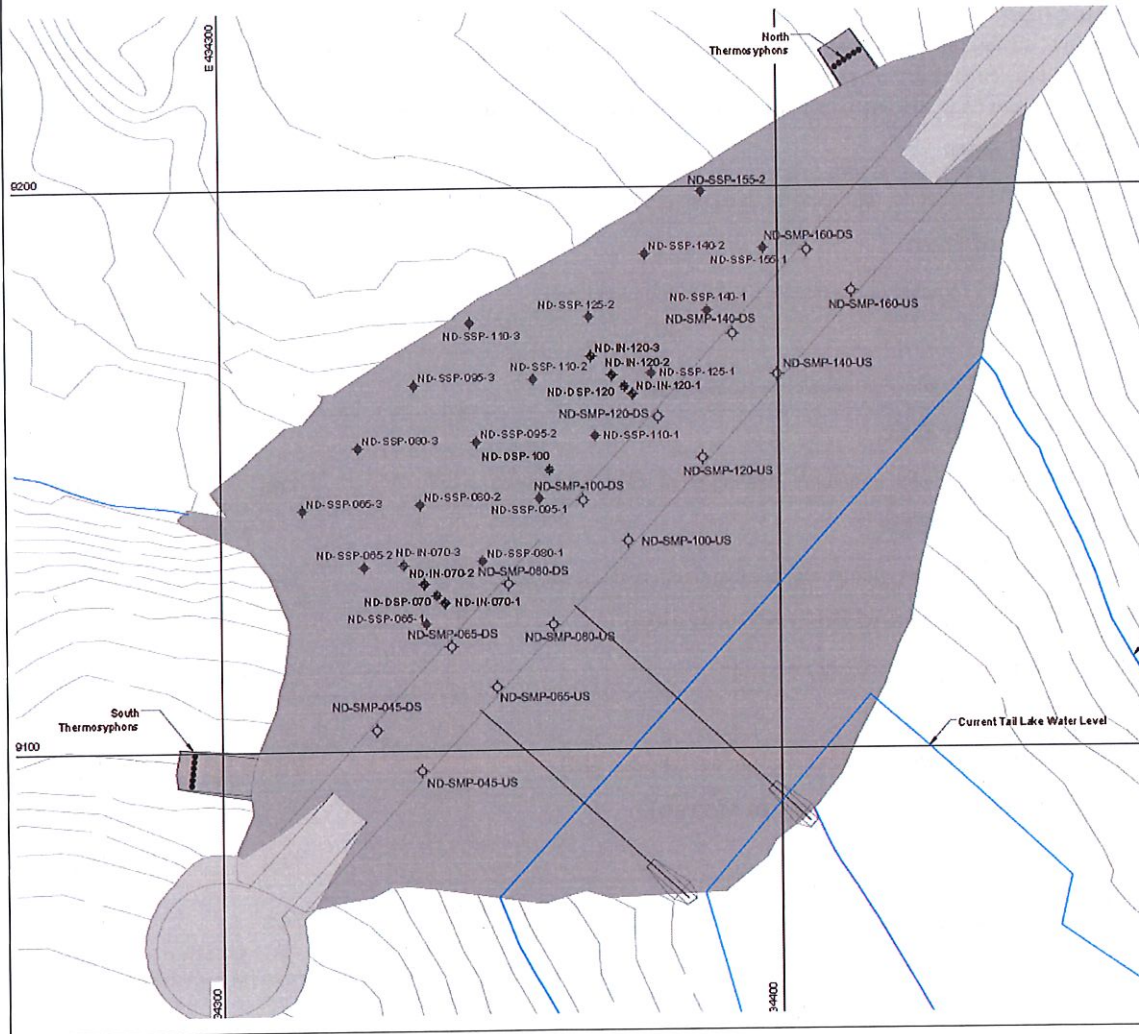
Date:	Feb 20, 2019
Inspected By:	Josh Fries
Conditions:	(ie. snow on ground, clear) Snow

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com.

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)	Yes	No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		

Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:
 Photo from north end looking south along the dam
 Photo from south end looking north along the dam



Other photos, please describe – Photos taken





North Dam Weekly Walkover Survey Report

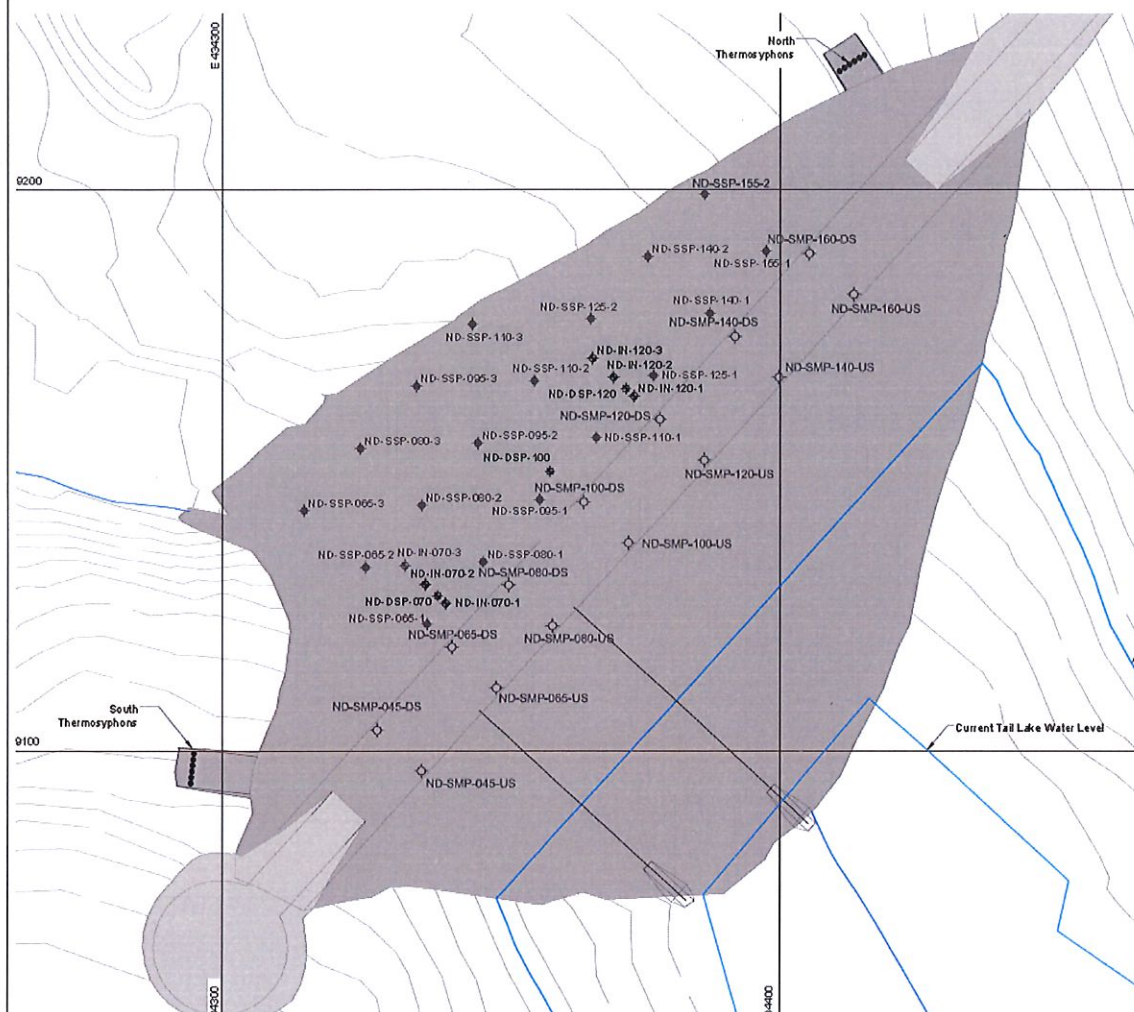
Date:	March 09/2019
Inspected By:	Jian Chen, Mike Tanosa
Conditions:	(ie. snow on ground, clear) Snow

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<input checked="" type="radio"/> No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	<input checked="" type="radio"/> No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	<input checked="" type="radio"/> No
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<input checked="" type="radio"/> No
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	<input checked="" type="radio"/> No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	<input checked="" type="radio"/> No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	<input checked="" type="radio"/> No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	<input checked="" type="radio"/> No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)		
	Yes	<input checked="" type="radio"/> No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		

Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:

Photo from north end looking south along the dam

7

Photo from south end looking north along the dam

7

Other photos, please describe – Photos taken





North Dam Weekly Walkover Survey Report

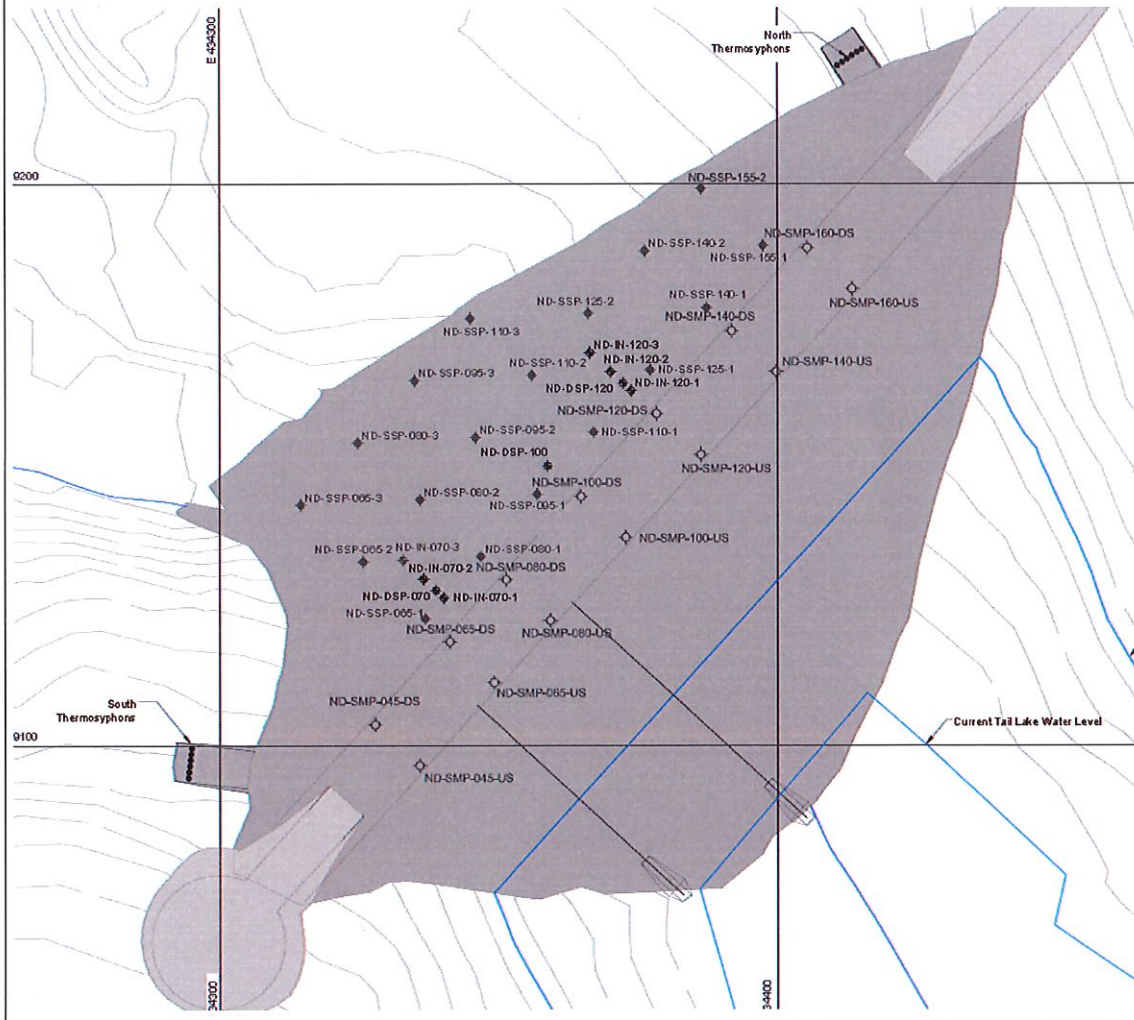
Date:	March 18, 2019
Inspected By:	MIKE TANAKA
Conditions:	(ie. snow on ground, clear) SNOW

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)		
Yes	Yes	No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		

Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:

Photo from north end looking south along the dam

☐

Photo from south end looking north along the dam

☐

Other photos, please describe – Photos taken





North Dam Weekly Walkover Survey Report

Date:	March 29, 2019
Inspected By:	Josh P. S.
Conditions:	(ie. snow on ground, clear) Snow

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)		
Yes	Yes	No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		





North Dam Weekly Walkover Survey Report

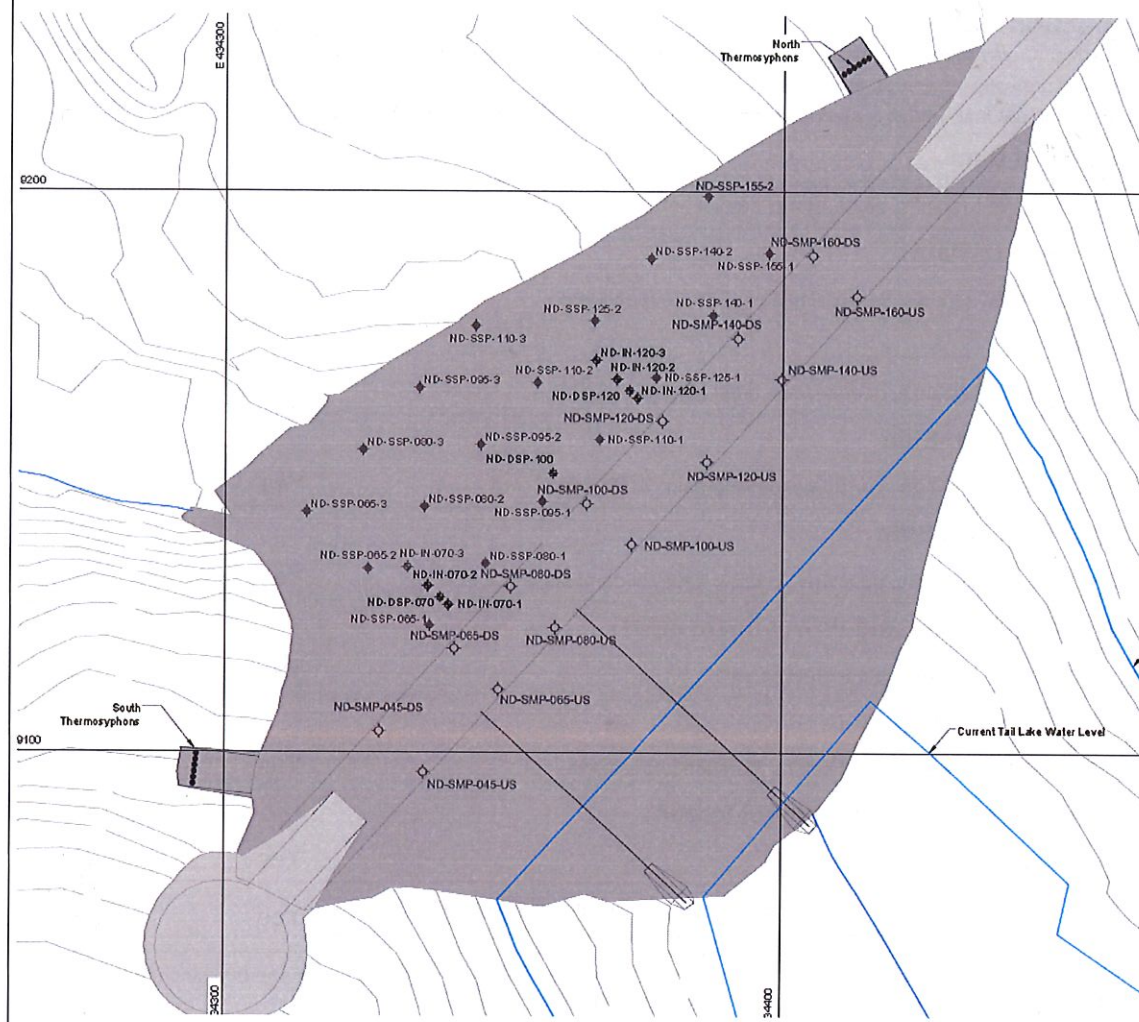
Date:	Apr 3, 2019
Inspected By:	Sash F. 3
Conditions:	(ie. snow on ground, clear) Snow

Visual Inspection:

This weekly walkover survey report is a means to track the condition on the North Dam, please provide details on changes that have developed since the previous inspection and/or any observations of particular concern. All photos are appreciated. Please send the completed form (scans are fine) and any photos to hopebaymonitoring@srk.com and pluedke@srk.com

Upstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Downstream Side of Dam		
Any visible concerns? (cracks, depressions, erosion, seepage, etc.)	Yes	No
Crest of Dam		
Any visible concerns? (cracks, depressions, erosion, etc.)	Yes	No
Thermosyphons North Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Thermosyphons South Side		
Any visible concerns? (cracks, punctures, peeling paint, birds nests, etc.)	Yes	No
Instrumentation (on crest and downstream side)		
Any visible concerns? (bent, rusted, cracked, etc.)	Yes	No
Thermistors and Dataloggers		
Any visible concerns? (frayed or cut cables, damaged boxes, etc.)	Yes	No
Suspended Sediment in TIA (When not frozen)		
Any suspended sediment in Tail Lake?	Yes	No
Water at the Toe of the Downstream Side of the Dam (If yes refer to Doris North – North Dam and Tail Lake Outflow Seepage Monitoring Work Plan 2015)		
Yes	Yes	No
If you answered yes to any of the questions above please provide details and photos. Observations can be sketched on the figure provided on the next page. If seepage has been noted please estimate the flow.		

Please provide any other observations you have made or items that did not fit in the space above



Photos:

Please collect the following photos:

Photo from north end looking south along the dam



Photo from south end looking north along the dam



Other photos, please describe – Photos taken

