

Description: From Sta.10+175, looking north at the upstream slope and the North Cell. The tailings beach is adequate.



Photograph B4-13 Stormwater Dike

Date: August 31, 2018

Photo Number: 282

Description: From Sta.10+500, looking west at the downstream slope.



Photograph B4-14 Stormwater Dike

Date: August 31, 2018

Photo Number: 283

Description: From Sta.10+500, looking east at the downstream slope.



Photograph B4-15 Stormwater Dike

Date: August 31, 2018

Photo Number: 284

Description: From Sta.10+500, looking east at the upstream slope.



Photograph B4-16 Stormwater Dike

Date: August 31, 2018

Photo Number: 285

Description: From Sta.10+500, looking west at the upstream slope.



Photograph B4-17 Stormwater Dike

Date: August 31, 2018

Photo Number: 276

Description: From Sta.10+975, looking southwest at the crest. View of the crackmeters and wire extensometers installed in the previous settlement zone active in the spring.

Client:	AEM	By:	Yves Boulianne
Project:	Meadowbank	Date:	August 31, 2018
Location:	Stormwater Dike	Reviewed:	Yves Boulianne

GENERAL INFORMATION

Dam Type:	Rockfill embankment, upstream filters and a bituminous geomembrane liner. Compacted till placed above liner at toe, prior to tailings deposition.		
Weather Conditions:	Sunny	Temperature:	13°C

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
1. DAM CREST		276, 281, 280, 284, 285 286, 287	
1.1 Crest elevation	150 m		Design 150 m
1.2 Reservoir level	140.93 – water (South Cell) 149.5 m tailings (North Cell)		
Current freeboard	9.07 m – water (South Cell) 0.5 m – tailings (North Cell)		Design 2 m in operation and 1 m at closure for water and 0.5 m for tailings.
1.3 Distance to tailings pond (if applicable)	Adequate (North Cell)		Adequate beach in place all along the dike on North Cell. Some shallow water ponding against dike in some places (from 10+550 to 10+950 approximately). Water has reached the toe of the structure in the South Cell.
1.4 Surface cracking	Yes	276	

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
1.5 Unexpected settlement	No		Tension cracks and unexpected movement were observed (oblique tension cracks extending side to side). They are concentrated from 10+700 to 11+000 and appeared in May before the freshet. They have since been filled with bentonite. No movement has been observed in the zone where a buttress was constructed at the toe in the South Cell. The buttress is covered by the pond.
1.6 Lateral movement	Yes		
1.7 Other unusual conditions			
2. UPSTREAM SLOPE		274, 288, 286, 287, 284, 285, 280, 281	
2.1 Slope angle	Approx. 3H:1V		Rockfill
2.2 Signs of erosion	None observed		
2.3 Signs of movement (deformation)	None observed		
2.4 Cracks	None observed		
2.5 Face liner condition (if applicable)	Good conditions.		
2.6 Other unusual conditions	None		
3. DOWNSTREAM SLOPE		282, 283, 279, 278, 277, 275	
3.1 Slope angle	Approx. 1.2H or 1.5 H:1V variable		Rockfill
3.2 Signs of erosion	None observed		
3.3 Signs of movement (deformation)	None observed		
3.4 Cracks	None observed		

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
3.5 Seepage or wet areas	None observed on slope		
3.6 Vegetation growth	None observed		
3.7 Other unusual conditions	None		
4. DOWNSTREAM TOE AREA	Not visible		Downstream toe and berm is submerged by the South Cell pond. The berm was constructed at the downstream toe to stabilise the movement and cracks observed in 2016.
4.1 Seepage from dam	Not visible		
4.2 Signs of erosion	Not visible		
4.3 Signs of turbidity in seepage water	Not visible		
4.4 Discoloration/staining	Not visible		
4.5 Outlet operating problem (if applicable)	Not applicable		
4.6 Other unusual conditions	Not visible		
5. ABUTMENTS			
5.1 Seepage at contact zone (abutment/embankment)	None observed		
5.2 Signs of erosion	None observed		
5.3 Excessive vegetation	No		
5.4 Presence of rodent burrows	None observed		
5.5 Other unusual conditions	None		

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
6. RESERVOIR		289, 287, 286, 280, 281, 284, 285, 273, 274	
6.1 Stability of slopes	Stable		
6.2 Distance to nearest slide (if applicable)	None observed		
6.3 Estimate of slide volume (if applicable)	Not applicable		
6.4 Floating debris	None observed		
6.5 Other unusual conditions	No		
7. EMERGENCY SPILLWAY/ OUTLET STRUCTURE	No spillway or outlet structure exists, only dewatering pump		
7.1 Surface condition			
7.2 Signs of erosion			
7.3 Signs of movement (deformation)			
7.4 Cracks			
7.5 Settlement			
7.6 Presence of debris or blockage			
7.7 Closure mechanism operational			
7.8 Slope protection			
7.9 Instability of side slopes			
7.10 Other unusual conditions			
8. INSTRUMENTATION			
8.1 Piezometers	Yes		See Section 4.0

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
8.2 Settlement cells	No		
8.3 Thermistors	Yes		See Section 4.0
8.4 Settlement monuments	Yes		See Section 4.0
8.5 Seismograph	No		
8.6 Inclinator	No		
8.7 Weirs and flow monitors	No		
8.8 Data logger(s)	No		
8.9 Other	None		
9. DOCUMENTATION			
9.1 Operation, Maintenance and Surveillance (OMS) Plan			
9.1.1 OMS Plan exists	Yes		
9.1.2 OMS Plan reflects current dam conditions	Yes		
9.1.3 Date of last revision	February 2018		
9.2 Emergency Preparedness Plan (EPP)			
9.2.1 EPP exists	Yes		Included within OMS and ERP.
9.2.2 EPP reflects current conditions	Yes		
9.2.3 Date of last revision	January 2017		
10. NOTES :			
Inspector's Signature	Yves Boulianne	Date:	August 31, 2018

APPENDIX B5

**Saddle Dam 3 Photographic Log
and Record of Inspection**



Photograph B5-1 Saddle Dam 3

Date: August 31, 2018

Photo Number: 305

Description: From approximately Sta. 20+550 looking southeast at the downstream slope.



Photograph B5-2 Saddle Dam 3

Date: August 31, 2018

Photo Number: 313

Description: From Sta. 20+750, looking northwest at the downstream slope and toe.



Photograph B5-3 Saddle Dam 3

Date: August 31, 2018

Photo Number: 314

Description: From Sta. 20+700, looking southeast at the crest and the upstream slope.



Photograph B5-4 Saddle Dam 3

Date: August 31, 2018

Photo Number: 315

Description: From Sta. 20+700, looking northwest at the crest and the upstream slope.



Photograph B5-5 Saddle Dam 3

Date: August 31, 2018

Photo Number: 316

Description: From Sta. 20+610, looking south at the upstream slope.

Client:	AEM	By:	Yves Boulianne
Project:	Meadowbank	Date:	August 31, 2018
Location:	Saddle Dam 3	Reviewed:	Yves Boulianne

GENERAL INFORMATION

Dam Type:	Rockfill embankment with inverted filter on base, upstream filters, a geomembrane liner tied in a toe till plug and upstream till blanket.		
Weather Conditions:	Sunny	Temperature:	13°C

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
1. DAM CREST		314, 315	
1.1 Crest elevation	145 m		Designed to be able to be raised up to El. 150 m
1.2 Reservoir Level	140.93 m - water 132 m – tailings (West extremity of the South Cell)		
Current Freeboard	4.1 (water)		Water now reaches the structure.
1.3 Distance To Tailings Pond (if applicable)	NA		Water now reaches the structure but no tailings are planned to be in contact with the structure.
1.4 Surface Cracking	None at time of inspection		
1.5 Unexpected Settlement	None observed		
1.6 Lateral Movement	Not apparent		
1.7 Other Unusual Conditions	None		

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
2. UPSTREAM SLOPE		316, 314, 315	
2.1 Slope angle	3H:1V		
2.2 Signs of Erosion	None observed		
2.3 Signs of Movement (Deformation)	None observed		
2.4 Cracks	None observed		
2.5 Face liner condition (if applicable)	Good		
2.6 Other Unusual Conditions	None		
3. DOWNSTREAM SLOPE		313, 305	
3.1 Slope angle	1.5H:1V		
3.2 Signs of Erosion	None observed		
3.3 Signs of Movement (Deformation)	None observed		
3.4 Cracks	None observed		
3.5 Seepage or Wet Areas	None observed on slope		
3.6 Vegetation Growth	None observed		
3.7 Other Unusual Conditions	None		
4. DOWNSTREAM TOE AREA		313, 305	
4.1 Seepage from Dam	No		
4.2 Signs of Erosion	None observed		
4.3 Signs of Turbidity in Seepage Water	Not applicable		
4.4 Discoloration/staining	No		

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
4.5 Outlet operating problem (if applicable)	Not applicable		
4.6 Other Conditions	Yes		A sump was constructed on the downstream side to collect the ponding water, so its level does not exceed the elevation of the granular layer of the upstream toe liner tie-in.
5. ABUTMENTS			
5.1 Seepage at contact zone (abutment/embankment)	None observed		
5.2 Signs of Erosion	None observed		
5.3 Excessive Vegetation	No		
5.4 Presence of Rodent Burrows	None observed		
5.5 Other Unusual Conditions	None		
6. RESERVOIR			
6.1 Stability of Slopes	Stable		
6.2 Distance to Nearest Slide (if applicable)	None observed		
6.3 Estimate of Slide Volume (if applicable)	Not applicable		
6.4 Floating debris	None observed		
6.5 Other Unusual Conditions	No		
7. EMERGENCY SPILLWAY/ OUTLET STRUCTURE	No spillway or outlet structure exists, only dewatering pump.		
7.1 Surface Condition	.		
7.2 Signs of Erosion			

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
7.3 Signs of Movement (Deformation)			
7.4 Cracks			
7.5 Settlement			
7.6 Presence of Debris or Blockage			
7.7 Closure mechanism operational			
7.8 Slope Protection			
7.9 Instability of Side Slopes			
7.10 Other Unusual Conditions			
8. INSTRUMENTATION			
8.1 Piezometers	No		
8.2 Settlement Cells	No		
8.3 Thermistors	Yes		See Section 4.0 of the report.
8.4 Settlement Monuments	No		
8.5 Seismograph	No		
8.6 Inclinator	No		
8.7 Weirs and Flow Monitors	No		
8.8 Data logger(s)	No		
8.9 Other			
9. DOCUMENTATION			
9.1 Operation, Maintenance and Surveillance (OMS) Plan			
9.1.1 OMS Plan exists	Yes		
9.1.2 OMS Plan reflects current dam conditions	Yes		

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
9.1.3 Date of last revision	February 2018		
9.2 Emergency Preparedness Plan (EPP)			
9.2.1 EPP exists	Yes		Included within the OMS and ERP plan.
9.2.2 EPP reflects current conditions	Yes		
9.2.3 Date of last revision	January 2017		
10. NOTES :			
Inspector's Signature	Yves Boulianne	Date:	August 31, 2018

APPENDIX B6

Saddle Dam 4 Photographic Log and Record of Inspection



Photograph B6-1 Saddle Dam 4

Date: August 31, 2018

Photo Number: 317

Description: From 40+150 approximately, looking southeast at the crest and the downstream slope.



Photograph B6-2 Saddle Dam 4

Date: August 31, 2018

Photo Number: 320

Description: From 40+250 approximately, looking northwest at the crest and the upstream slope.



Photograph B6-3 Saddle Dam 4

Date: August 31, 2018

Photo Number: 321

Description: From 40+250 approximately, looking southeast at the crest and the upstream slope.



Photograph B6-4 Saddle Dam 4

Date: August 31, 2018

Photo Number: 322

Description: From 40+400 approximately, looking southeast at the crest and the downstream slope.



Photograph B6-5 Saddle Dam 4

Date: August 31, 2018

Photo Number: 318

Description: From 40+100 approximately, looking northeast at the downstream toe and the South Cell.



Photograph B6-6 Saddle Dam 4

Date: August 31, 2018

Photo Number: 319

Description: From 40+100 approximately, looking southeast at the downstream slope and the downstream toe.

Client:	AEM	By:	Yves Boulianne
Project:	Meadowbank	Date:	August 31, 2018
Location:	Saddle Dam 4	Reviewed:	Yves Boulianne

GENERAL INFORMATION

Dam Type:	Rockfill embankment with inverted filter on base, upstream filters, a geomembrane liner tied in a toe till plug and upstream till blanket.		
Weather Conditions:	Sunny	Temperature:	13°C

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
1. DAM CREST		317, 320, 321, 322	
1.1 Crest elevation	145 m		Designed to be able to be raised to El. 150 m
1.2 Reservoir Level	140.93 m - water 142 m - tailings		
Current Freeboard	4.07 m (water) 3 m (tailings)		
1.3 Distance To Tailings Pond (if applicable)	Approx. 10 m		
1.4 Surface Cracking	None at time of inspection		
1.5 Unexpected Settlement	None observed		
1.6 Lateral Movement	Not apparent		
1.7 Other Unusual Conditions	None		

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
2. UPSTREAM SLOPE		318, 319, 320, 321	
2.1 Slope angle	3H:1V		
2.2 Signs of Erosion	None observed		
2.3 Signs of Movement (Deformation)	None observed		
2.4 Cracks	None observed		
2.5 Face liner condition (if applicable)	Good		
2.6 Other Unusual Conditions	None		
3. DOWNSTREAM SLOPE		317, 322	
3.1 Slope angle	1.5H:1V		
3.2 Signs of Erosion	None observed		
3.3 Signs of Movement (Deformation)	None observed		
3.4 Cracks	None observed		
3.5 Seepage or Wet Areas	None observed on slope		
3.6 Vegetation Growth	None observed		
3.7 Other Unusual Conditions	None		
4. DOWNSTREAM TOE AREA		317, 322	
4.1 Seepage from Dam	No		
4.2 Signs of Erosion	None observed		
4.3 Signs of Turbidity in Seepage Water	Not applicable		
4.4 Discoloration/staining	No		

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
4.5 Outlet operating problem (if applicable)	Not applicable		
4.6 Other Conditions	Yes		Runoff water accumulate at the downstream side of the structure. It is pumped out so that the water level does not exceed the elevation of the granular layer of the upstream toe liner tie-in.
5. ABUTMENTS		318	
5.1 Seepage at contact zone (abutment/embankment)	None observed		Highly fractured bedrock observed at the western abutment.
5.2 Signs of Erosion	None observed		
5.3 Excessive Vegetation	No		
5.4 Presence of Rodent Burrows	None observed		
5.5 Other Unusual Conditions	None		
6. RESERVOIR		318, 319, 320, 321	
6.1 Stability of Slopes	Stable		
6.2 Distance to Nearest Slide (if applicable)	None observed		
6.3 Estimate of Slide Volume (if applicable)	Not applicable		
6.4 Floating debris	None observed		
6.5 Other Unusual Conditions	None		
7. EMERGENCY SPILLWAY/ OUTLET STRUCTURE	No spillway or outlet structure exists, only dewatering pump.		
7.1 Surface Condition			
7.2 Signs of Erosion			

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
7.3 Signs of Movement (Deformation)			
7.4 Cracks			
7.5 Settlement			
7.6 Presence of Debris or Blockage			
7.7 Closure mechanism operational			
7.8 Slope Protection			
7.9 Instability of Side Slopes			
7.10 Other Unusual Conditions			
8. INSTRUMENTATION			
8.1 Piezometers	No		
8.2 Settlement Cells	No		
8.3 Thermistors	Yes		See Section 4.0 of the report
8.4 Settlement Monuments	No		
8.5 Seismograph	No		
8.6 Inclinator	No		
8.7 Weirs and Flow Monitors	No		Construction drawings indicate a seepage collection system is to be constructed.
8.8 Data logger(s)	No		
8.9 Other			
9. DOCUMENTATION			
9.1 Operation, Maintenance and Surveillance (OMS) Plan			
9.1.1 OMS Plan exists	Yes		

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
9.1.2 OMS Plan reflects current dam conditions	Yes		
9.1.3 Date of last revision	February 2018		
9.2 Emergency Preparedness Plan (EPP)			
9.2.1 EPP exists	Yes		Included within the OMS and ERP plan.
9.2.2 EPP reflects current conditions	Yes		
9.2.3 Date of last revision	January 2017		
10. NOTES :			
Inspector's Signature	Yves Boulianne	Date:	August 31, 2018

APPENDIX B7

Central Dike and Saddle Dam 5
Photographic Log and Record of
Inspection



Photograph B7-1 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 394

Description: From approximately Sta. 0+250 downstream, looking south at the downstream pond.



Photograph B7-2 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 391

Description: From approximately Sta. 0+525 looking northwest at the upstream slope. Adequate tailings beach against the south section of the structure.



Photograph B7-3 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 393

Description: From approximately Sta. 0+525 looking southwest at the upstream slope. Adequate tailings beach against the south section of the structure.



Photograph B7-4 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 392

Description: From approximately Sta. 0+525 looking at the deposition finger. The LLDPE liner is well protected and the tailing beach against the structure is adequate.



Photograph B7-5 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 387

Description: From approximately Sta. 0+720 looking southeast at the downstream slope and toe. View of the downstream pond and pumping system.



Photograph B7-6 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 388

Description: From approximately Sta. 0+720 looking northeast at the downstream slope and toe. View of the downstream pond and pumping system.



Photograph B7-7 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 390

Description: From approximately Sta. 0+720 looking south at the crest.



Photograph B7-8 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 389

Description: From approximately Sta. 0+720 looking north at the crest.



Photograph B7-9 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 386

Description: From approximately Sta. 0+800 on the crest, looking north at the upstream slope.



Photograph B7-10 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 385

Description: From approximately Sta. 0+800 on the crest, looking south at the upstream slope and a tailings deposition finger



Photograph B7-11 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 382

Description: From approximately Sta. 1+075 upstream. Presence of gravel on the LLDPE liner.



Photograph B7-12 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 395

Description: From approximately Sta. 0+900 downstream, looking north at the downstream pond.



Photograph B7-13 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 384

Description: From approximately Sta. 1+000 looking north at the upstream slope of Central Dike and SD5.



Photograph B7-14 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 383

Description: From approximately Sta. 1+000 looking southwest at the upstream slope of SD5.



Photograph B7-15 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 379

Description: From approximately Sta. 1+075 looking east at the upstream slope of SD5.



Photograph B7-16 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 380

Description: From approximately Sta. 1+075 looking west at the upstream slope of SD5.



Photograph B7-17 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 322

Description: From 40+400 approximately on Saddle Dam 4, looking southeast at the crest and the downstream slope.



Photograph B7-18 Central Dike and Saddle Dam 5

Date: September 2, 2018

Photo Number: 381

Description: From 40+620 upstream, looking southeast at the upstream toe area.

Client: AEM **By:** Yves Boulianne
Project: Meadowbank **Date:** September 2, 2018
Location: Central Dike and Saddle Dam 5 **Reviewed:** Yves Boulianne

GENERAL INFORMATION			
Dam Type:	Rockfill embankment with inverted filter on base, key trench, upstream filters, a geomembrane liner tied in a toe till plug and protective cover.		
Weather Conditions:	Overcast	Temperature:	14°C

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
1. DAM CREST		384, 386, 387, 388, 389, 390, 391, 393	
1.1 Crest Elevation	Cofferdam Crest = 110 m Rockfill crest = 145 m		
1.2 Reservoir Level	140.93 m - water 142 m - tailings		
Current Freeboard	3 m from the crest		
1.3 Distance To Tailings Pond (if applicable)	Variable		Adequate tailings beach against the whole length of the Central Dike and SD5.
1.4 Surface Cracking	None at time of inspection		
1.5 Unexpected Settlement	None observed		
1.6 Lateral Movement	Not apparent		
1.7 Other Unusual Conditions			

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
2. UPSTREAM SLOPE		382, 383, 384, 385, 386, 391, 392, 393	
2.1 Slope angle	3:1V up to El. 130 m and 2H:1V above		
2.2 Signs of Erosion	None observed		
2.3 Signs of Movement (Deformation)	None observed		
2.4 Cracks	None observed		
2.5 Face liner condition (if applicable)		382	Liner covered by a granular protection layer up to El. 128 m and well protected underneath deposition fingers. Presence of gravel on the liner on the sides of the deposition points.
2.6 Other Unusual Conditions	None		
3. DOWNSTREAM SLOPE		387, 388, 389, 390	
3.1 Slope angle	1.5H		
3.2 Signs of Erosion	None observed		
3.3 Signs of Movement (Deformation)	None observed		
3.4 Cracks	None observed		
3.5 Seepage or Wet Areas			
3.6 Vegetation Growth	None observed		
3.7 Other Unusual Conditions	None		
4. DOWNSTREAM TOE AREA		394, 395	

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
4.1 Seepage from Dam	Yes		Presence of a water pond formed by seepage on the downstream side between the downstream toe and West Road (0+300 to 0+830 approximately). The pond is pumped back to the South Cell and maintained at El. 115 m. The pumping rate was 263 m ³ /hr at the time of the inspection.
4.2 Signs of Erosion	None observed		
4.3 Signs of Turbidity in Seepage Water	Yes		High turbidity events observed in the pond and an orange coloration was observed periodically.
4.4 Discoloration/staining	No		
4.5 Outlet operating problem (if applicable)	Not applicable		
4.6 Other Unusual Conditions			
5. ABUTMENTS			
5.1 Seepage at contact zone (abutment/embankment)	None observed		
5.2 Signs of Erosion	None observed		
5.3 Excessive Vegetation	No		
5.4 Presence of Rodent Burrows	None observed		
5.5 Other Unusual Conditions	None		
6. RESERVOIR		383, 384, 385, 386, 391, 392, 393	

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
6.1 Stability of Slopes	Stable		
6.2 Distance to Nearest Slide	None observed		
6.3 Estimate of Slide Volume (if applicable)	Not applicable		
6.4 Floating debris	None observed		
6.5 Other Unusual Conditions	None		
7. EMERGENCY SPILLWAY/ OUTLET STRUCTURE	No spillway or outlet structure exists, only dewatering pump.		
7.1 Surface Condition			
7.2 Signs of Erosion			
7.3 Signs of Movement (Deformation)			
7.4 Cracks			
7.5 Settlement			
7.6 Presence of Debris or Blockage			
7.7 Closure mechanism operational			
7.8 Slope Protection			
7.9 Instability of Side Slopes			
7.10 Other Unusual Conditions			
8. INSTRUMENTATION			
8.1 Piezometers	Yes		See section 4.0

INSPECTION ITEM	OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
8.2 Settlement Cells	No		
8.3 Thermistors	Yes		See section 4.0
8.4 Settlement Monuments	No		
8.5 Seismograph	No		
8.6 Inclinator	No		
8.7 Weirs and Flow Monitors	No		
8.8 Data logger(s)	No		
8.9 Other			
9. DOCUMENTATION			
9.1 Operation, Maintenance and Surveillance (OMS) Plan			
9.1.1 OMS Plan exists	Yes		
9.1.2 OMS Plan reflects current dam conditions	Yes		
9.1.3 Date of last revision	February 2018		
9.2 Emergency Preparedness Plan (EPP)			
9.2.1 EPP exists	Yes		Included within the OMS and ERP plan.
9.2.2 EPP reflects current conditions	Yes		
9.2.3 Date of last revision	January 2017		
10. NOTES :			

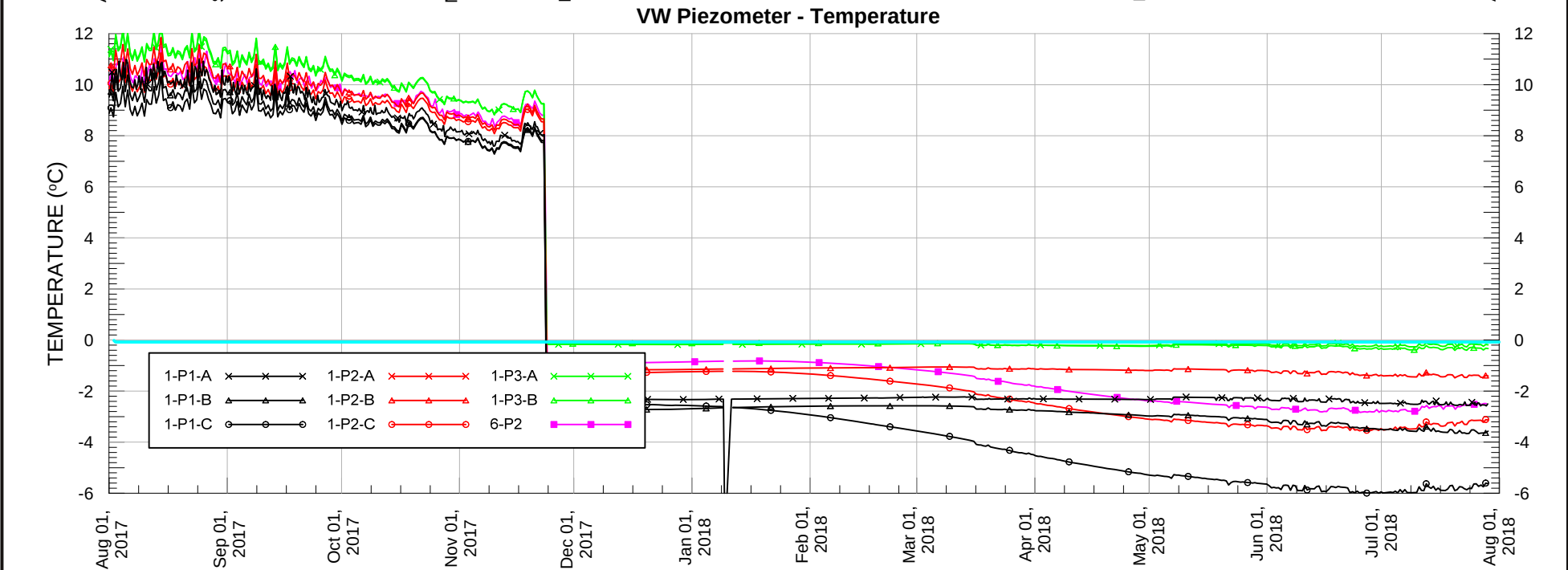
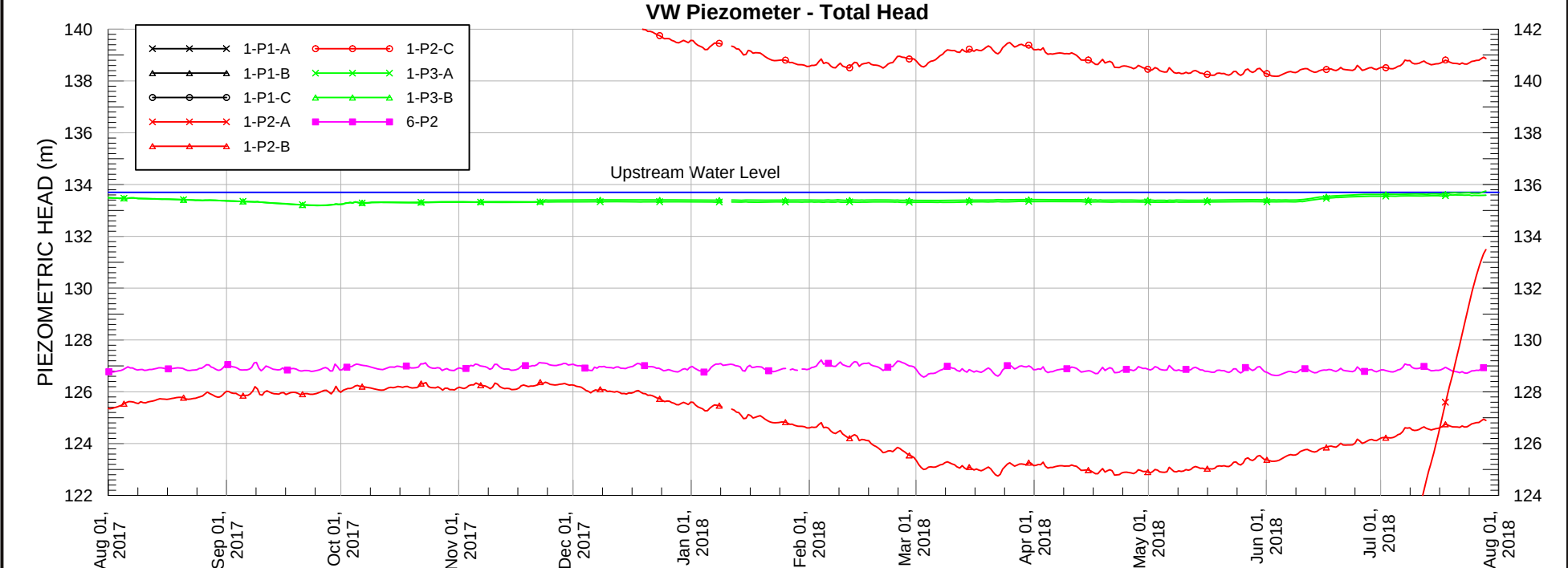
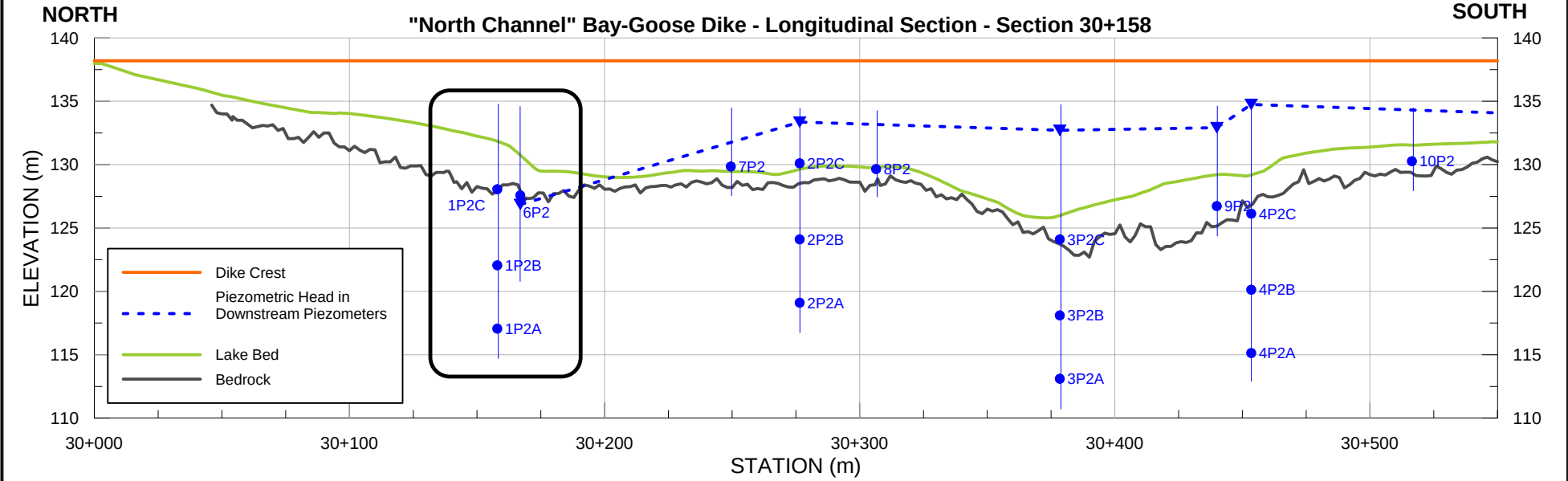
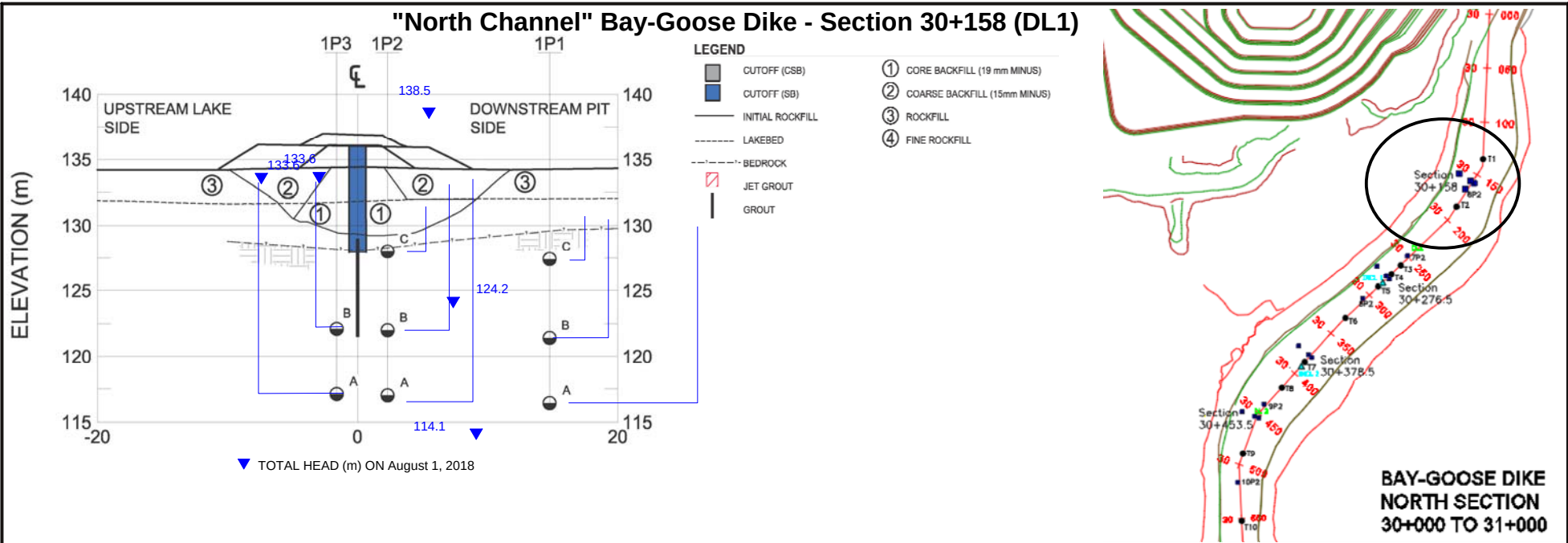
INSPECTION ITEM		OBSERVATIONS DATA	PHOTO	COMMENTS & OTHER DATA
Inspector's Signature	Yves Boulianne		Date:	September 2, 2018

APPENDIX C

Geotechnical Instrumentation Data

APPENDIX C1

Dewatering Dikes Instrumentation Data

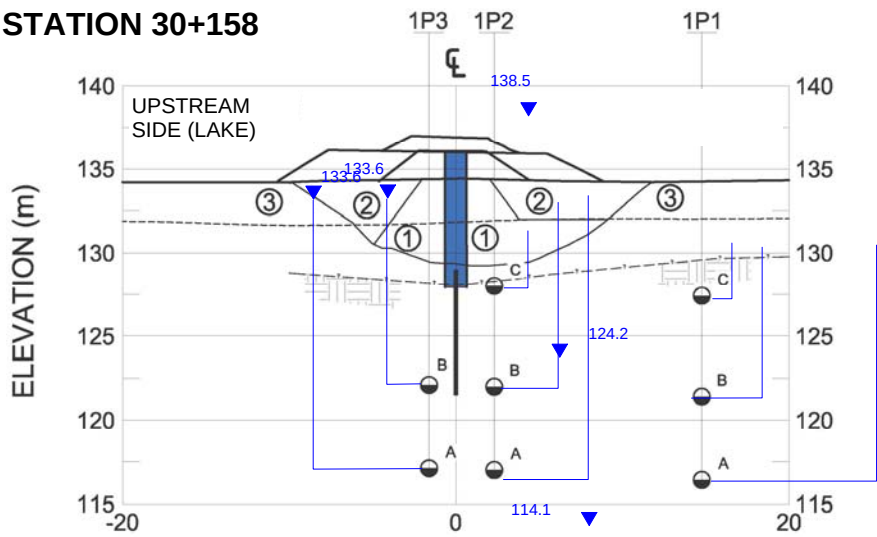


NOTES:

- 1-P1-A, 1-P2-B, 1-P1-C, 1-P2-A and 6P2 are assumed to be frozen and not giving good data. The PWP not reliable.
- GKM investigated the large jump in the temperature and changed the multiplexer as this turned out to be the issue. Old one is being fixed to have spare. Readings have since stabilized.

PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE		BAYGOOSE DIKE Section 30+158 - PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
	PROJECT No.	30/8/14		PHASE No.	
	DESIGN	TD	30/8/14	SCALE	AS SHOWN
	CADD	TD	30/8/14	REV.	
	CHECK	PG	31/8/14	FIGURE 1	
REVIEW					

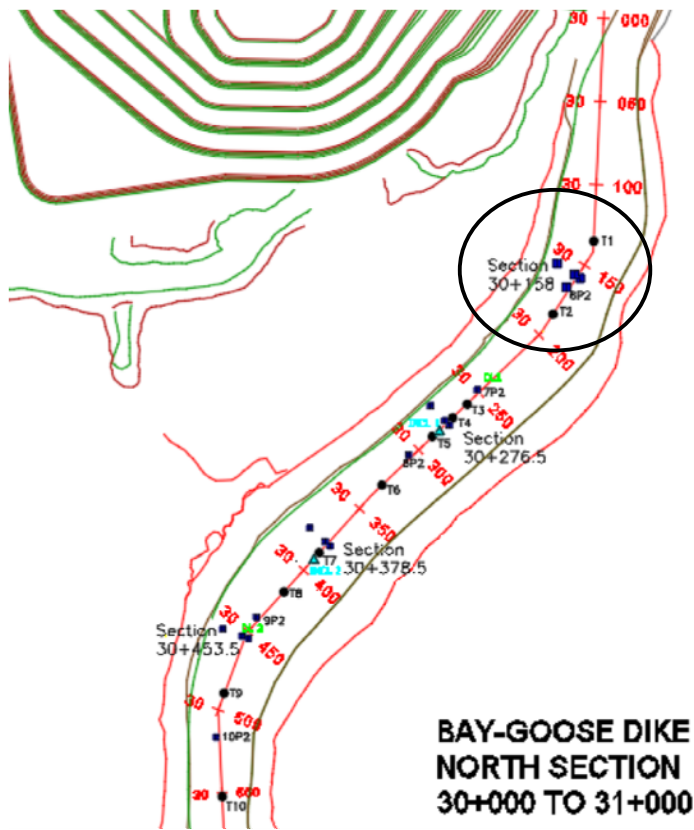
STATION 30+158



LEGEND

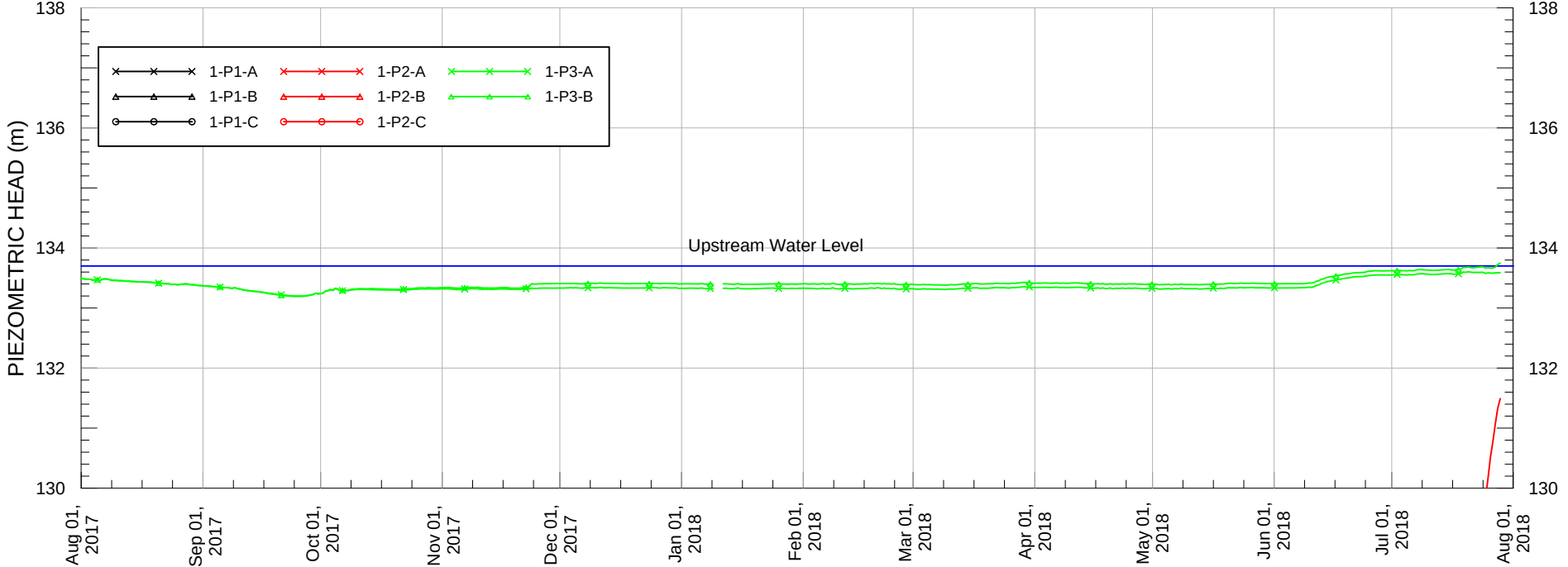
- CUTOFF (CSB)
- CUTOFF (SB)
- INITIAL ROCKFILL
- LAKEBED
- BEDROCK
- JET GROUT
- GROUT
- ① CORE BACKFILL (19 mm MINUS)
- ② COARSE BACKFILL (15mm MINUS)
- ③ ROCKFILL
- ④ FINE ROCKFILL

▼ TOTAL HEAD (m) ON ON August 1,2018

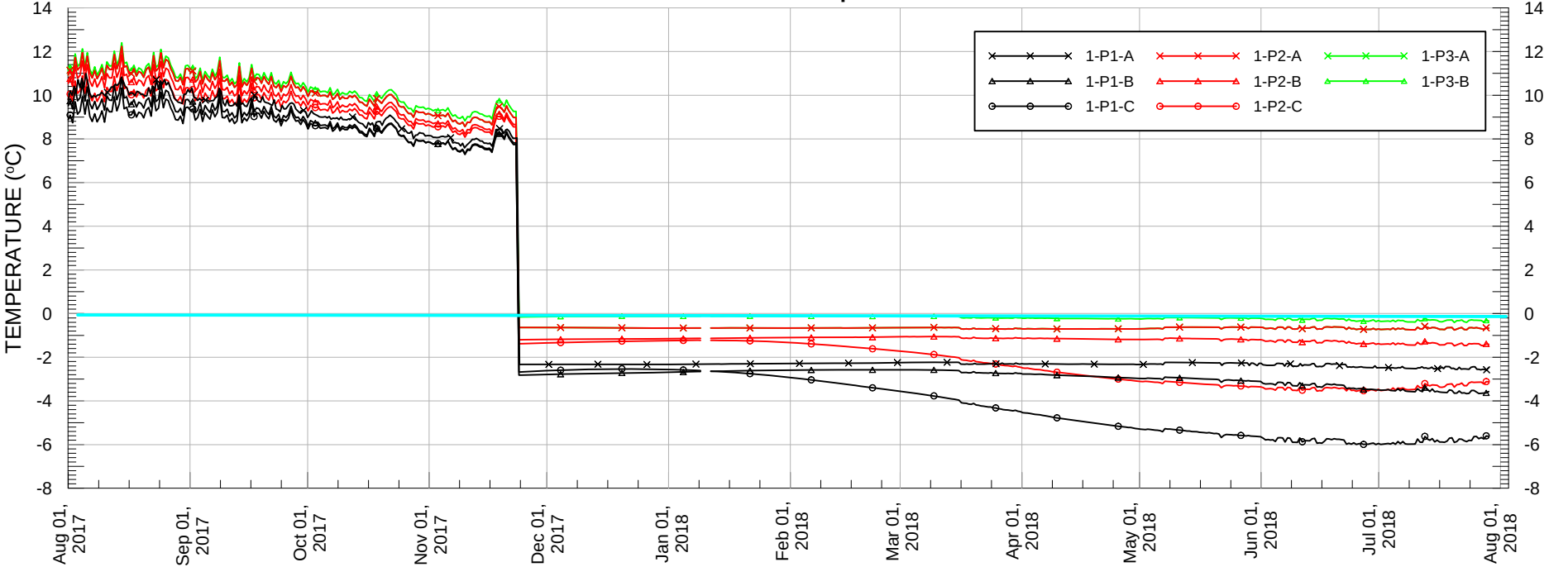


BAY-GOOSE DIKE
NORTH SECTION
30+000 TO 31+000

VW Piezometer - Total Head



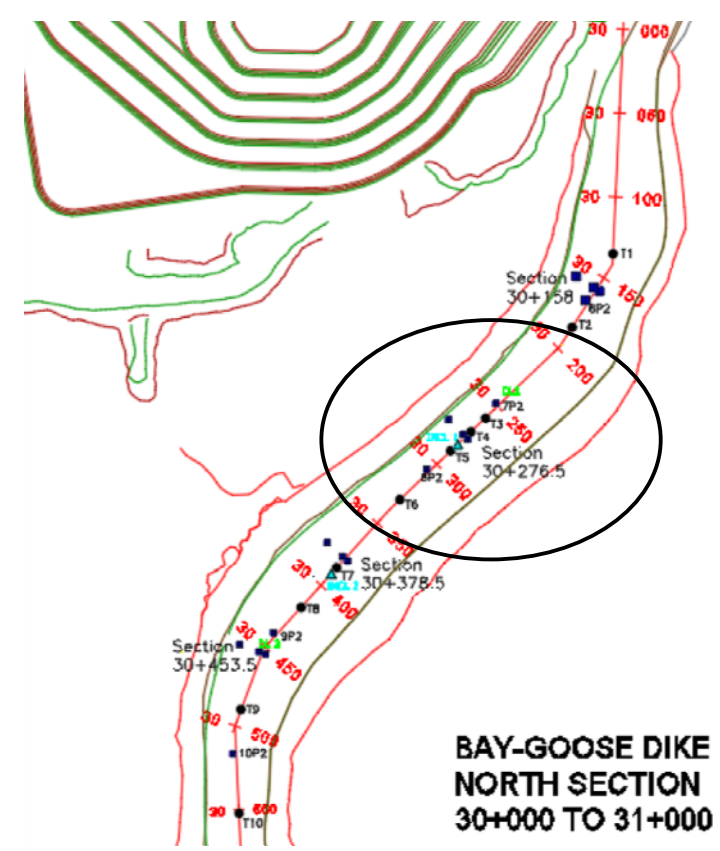
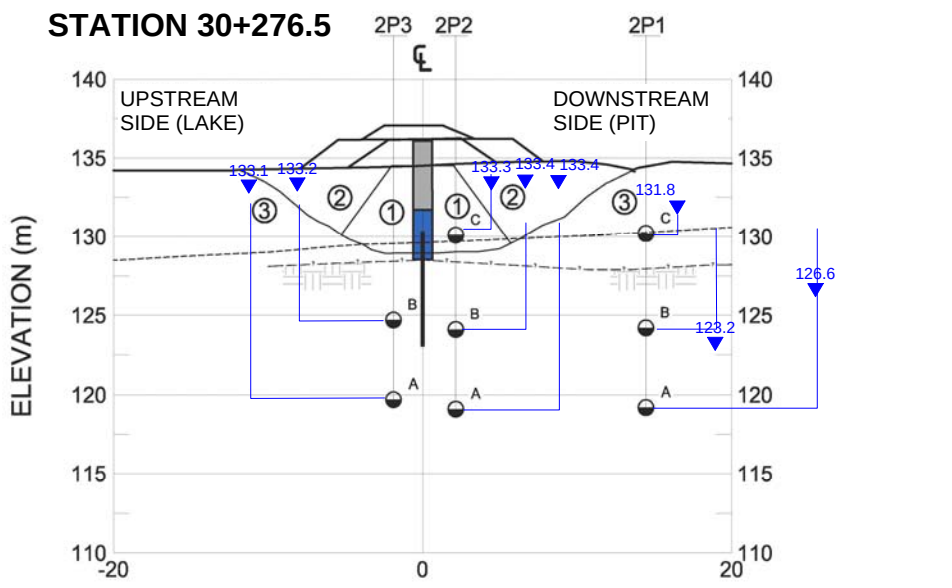
VW Piezometer - Temperature



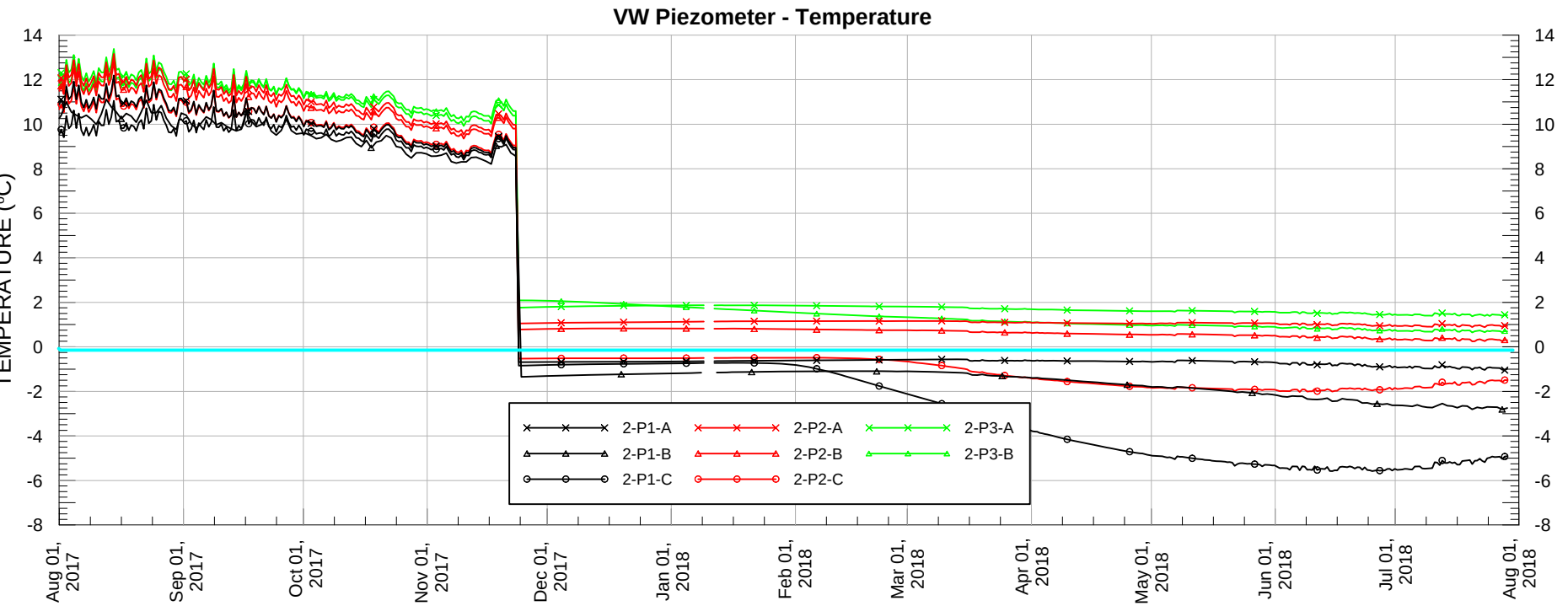
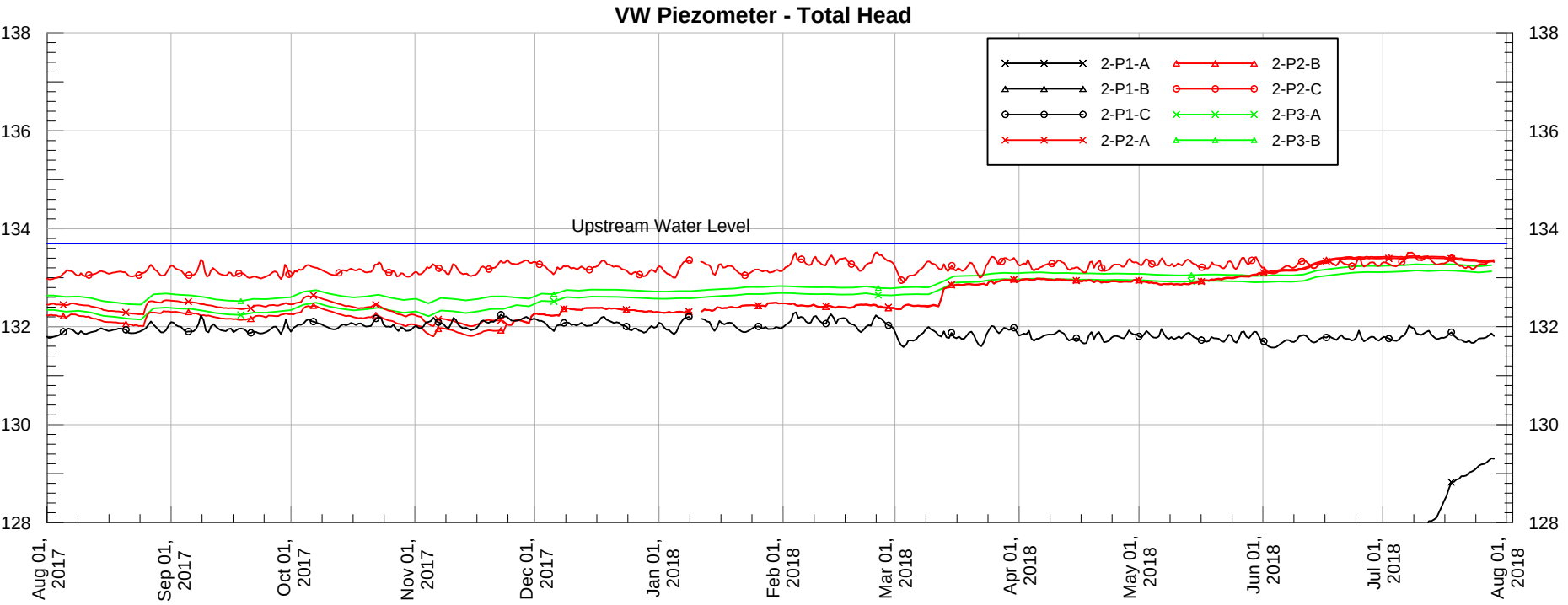
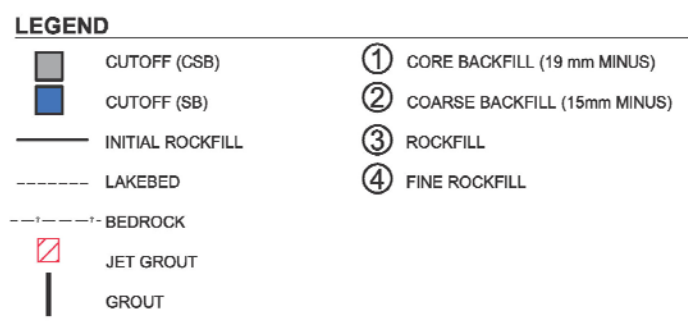
NOTES:

- 1-P1-A, 1-P2-B, 1-P1-C, 1-P2-A and 6P2 are assumed to be frozen and not giving good data. The PWP not reliable.
- GKM investigated the large jump in the temperature and changed the multiplexer as this turned out to be the issue. Old one is being fixed to have spare. Readings have since stabilized.
- Gap in data in January is due to low battery. Battery was changed the following day.

PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE	BAYGOOSE DIKE - SECTION 30+158 PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
	PROJECT No.	PHASE No.		
	DESIGN	TD	31AUG14	SCALE AS SHOWN
	CADD	TD	31AUG14	REV.
	CHECK	PG	28AUG14	
REVIEW				FIGURE 2



▼ TOTAL HEAD (m) ON August 1, 2018

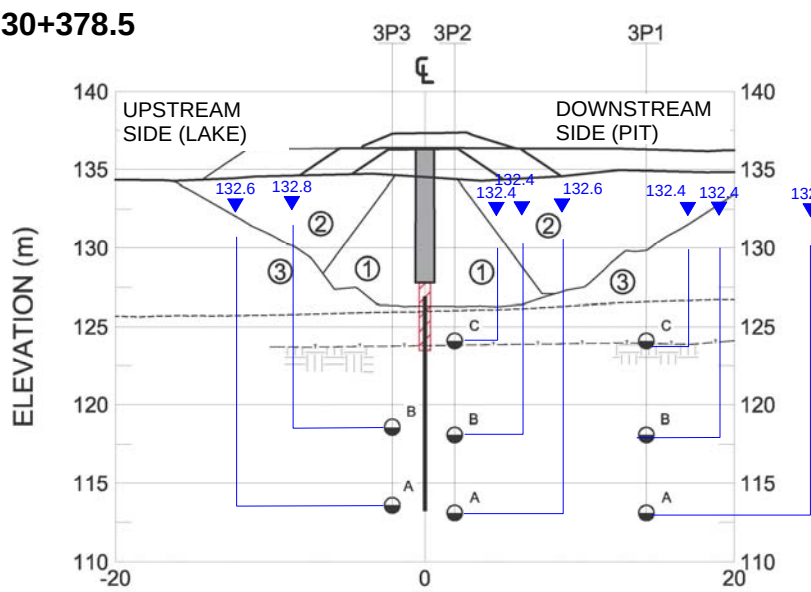


NOTES:

- 1: 2P1A, 2P1B and 2P2C are assumed to be frozen. 7P2 is also frozen therefore the data is considered not feasible as the previous trend shows.
2. GKM investigated the large jump in the temperature and changed the multiplexer as this turned out to be the issue. Readings have since stabilized.
3. Gap in data in January is due to low battery. Battery was changed the following day.

PROJECT				AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE				BAY GOOSE DIKE - SECTION 30+276.5 PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
		PROJECT No.		PHASE No.			
		DESIGN	TD	28AUG14	SCALE	AS SHOWN	REV.
		CADD	TD	28AUG14	Figure 4		
		CHECK	PG	28AUG14			
		REVIEW					

STATION 30+378.5



LEGEND

- CUTOFF (CSB)

CUTOFF (SB)

INITIAL ROCKFILL

LAKEBED

BEDROCK

JET GROUT

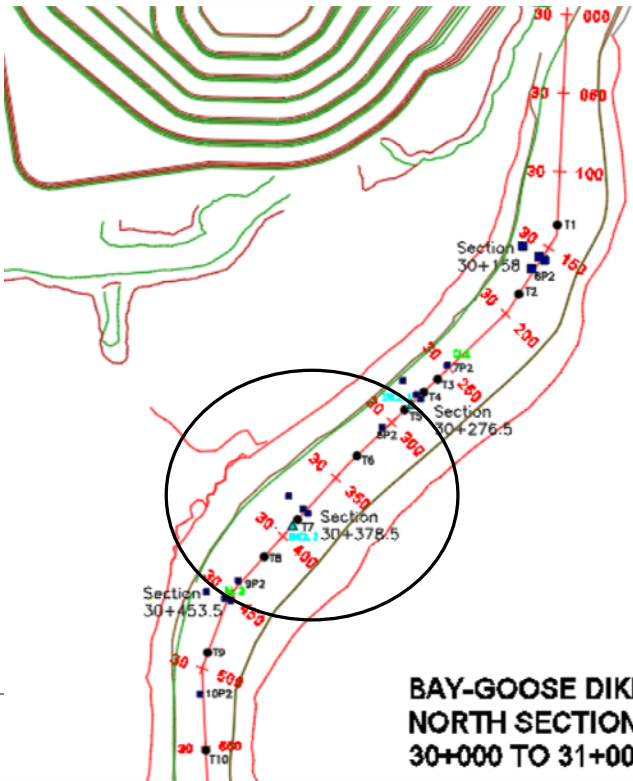
GROUT
- ① CORE BACKFILL (19 mm MINUS)

② COARSE BACKFILL (15mm MINUS)

③ ROCKFILL

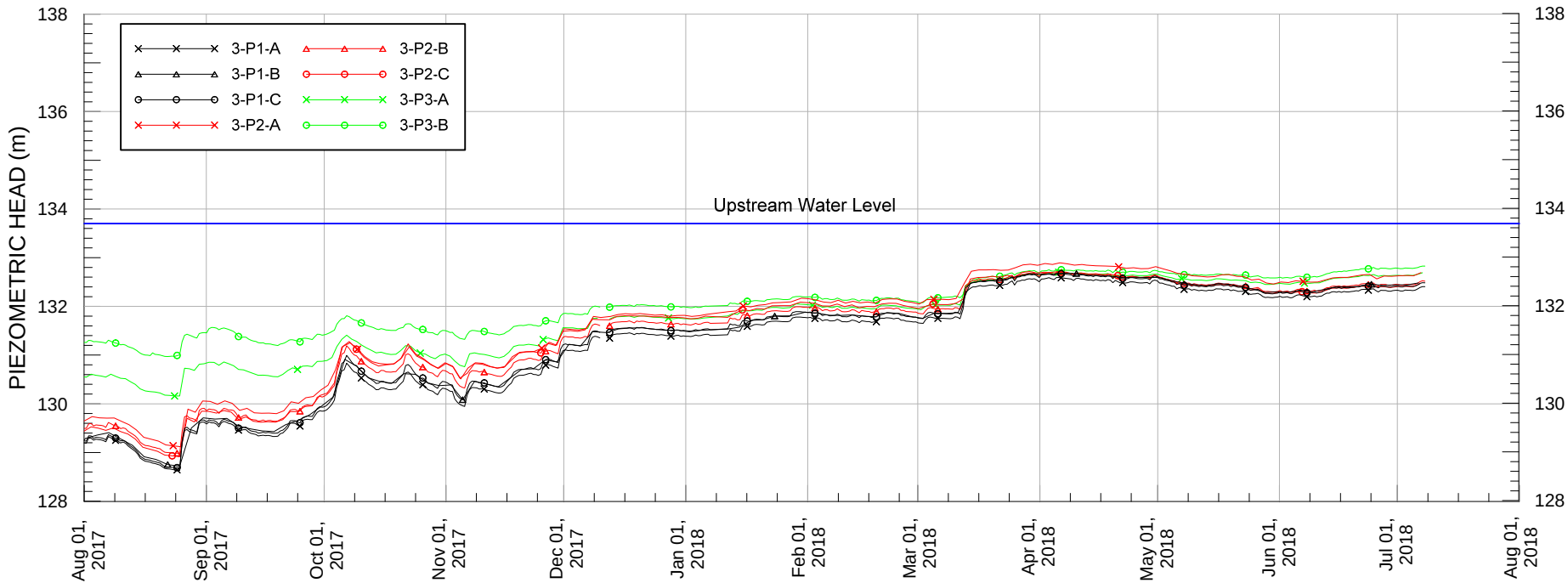
④ FINE ROCKFILL

▼ TOTAL HEAD (m) ON August 1, 2018

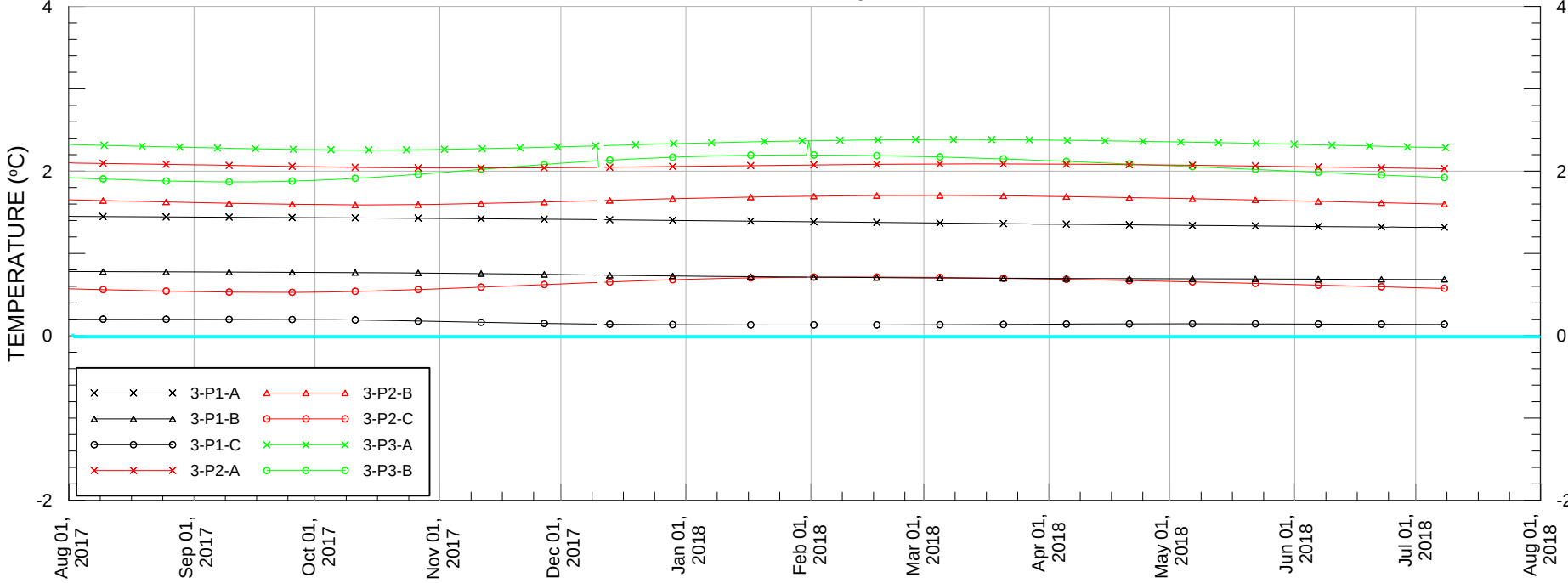


BAY-GOOSE DIKE
NORTH SECTION
30+000 TO 31+000

VW Piezometer - Total Head



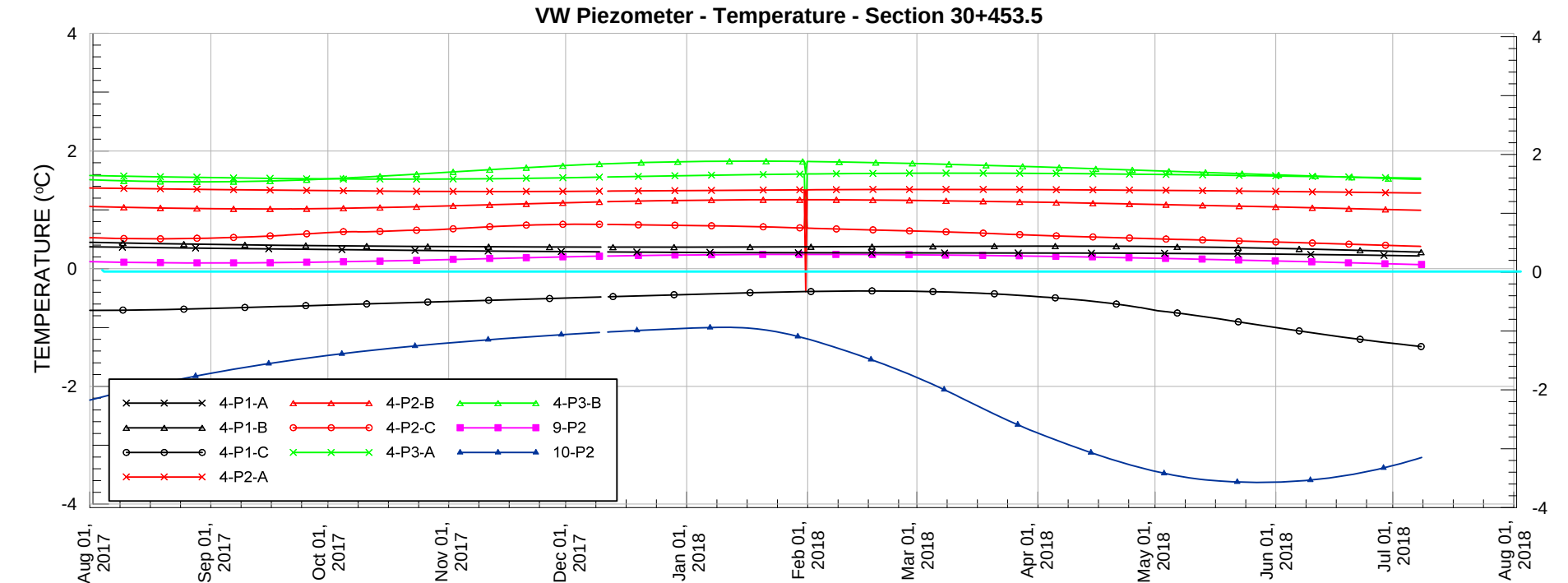
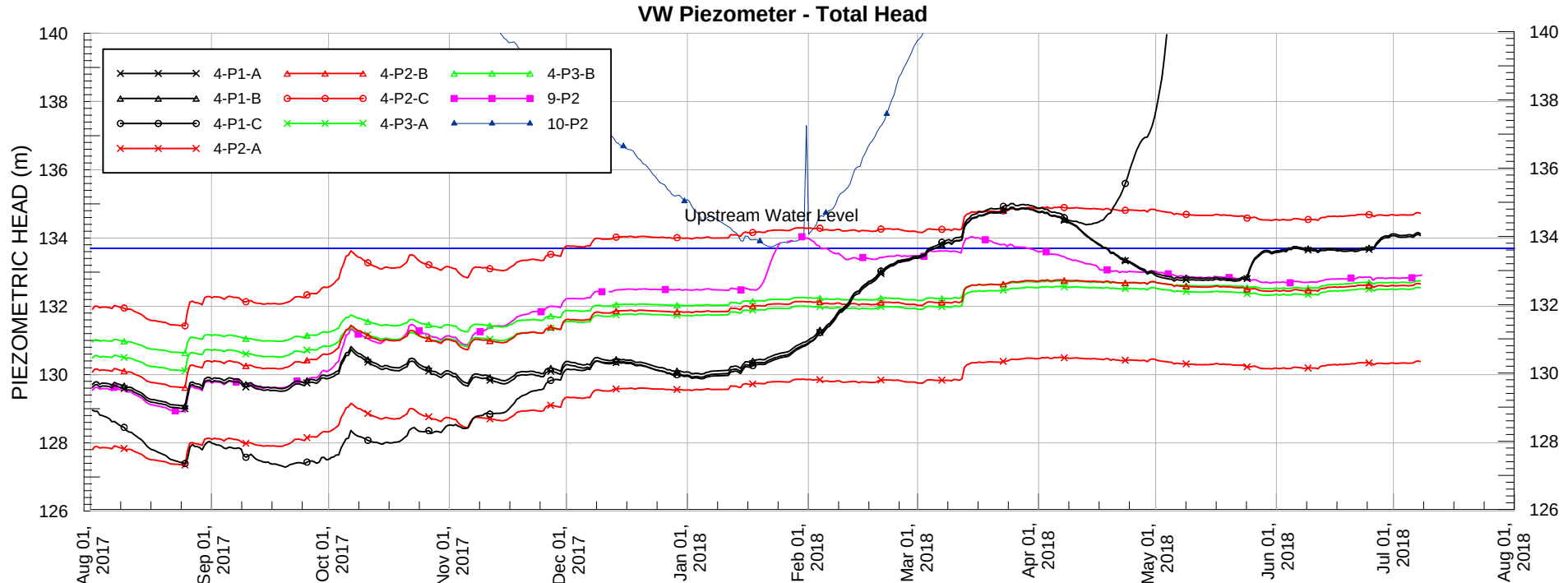
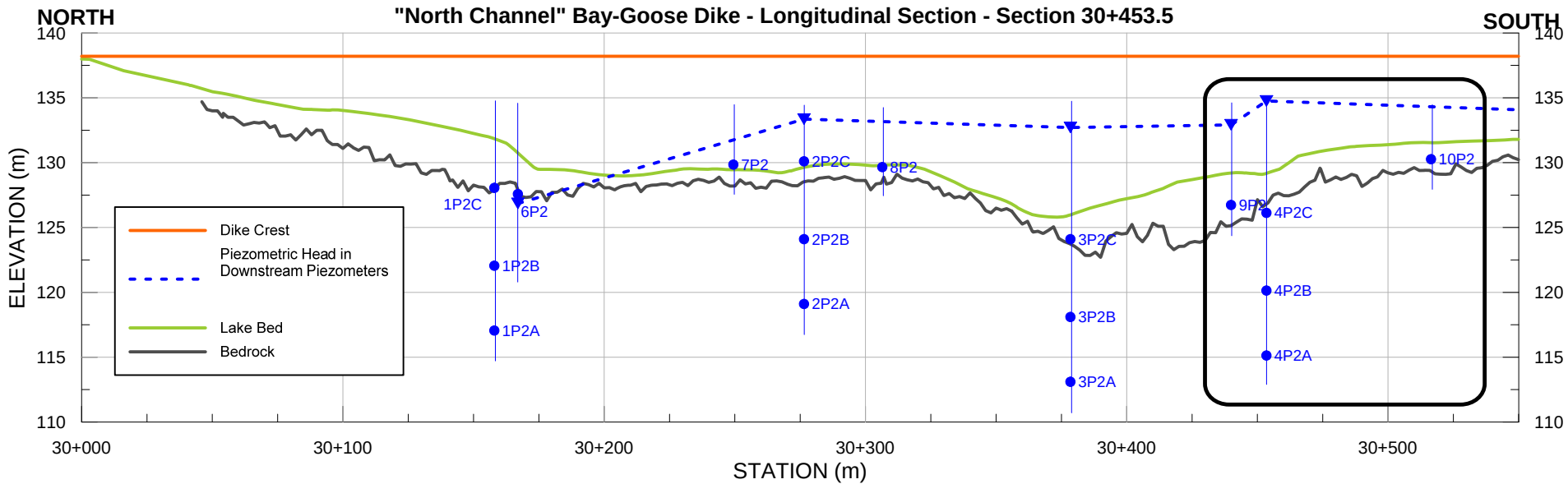
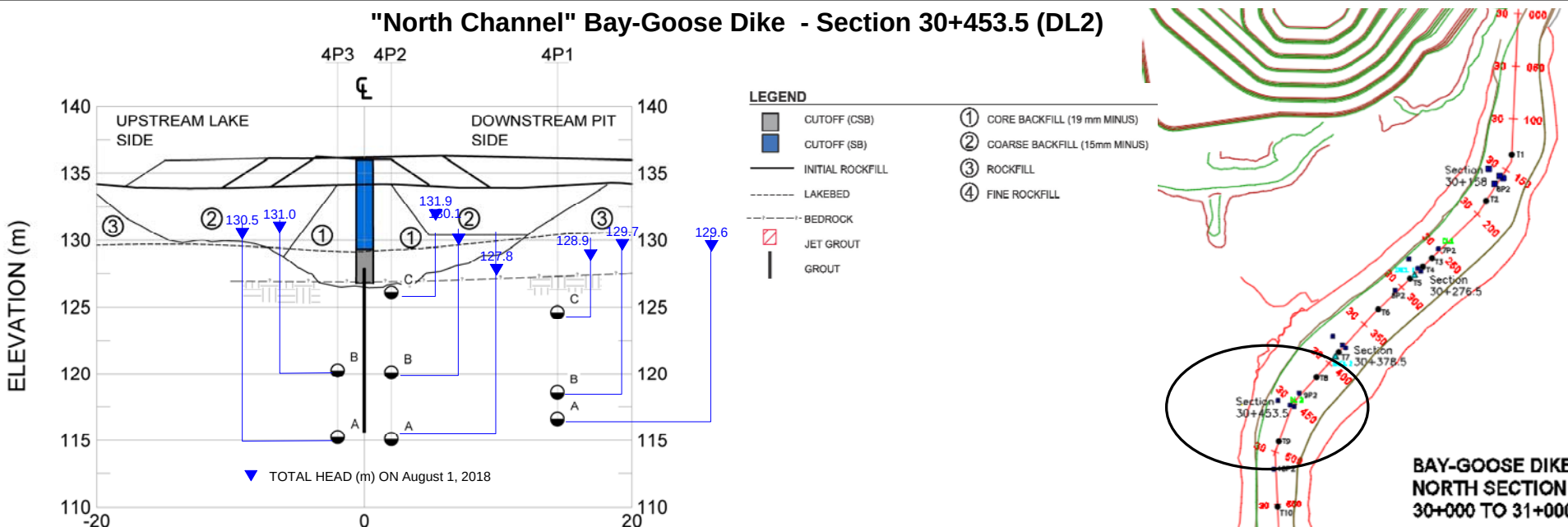
VW Piezometer - Temperature



NOTES:

1. The gap in data from Dec. 10 to Dec. 11 was due to low battery. Battery was changed the following day.
2. Changes in PWP pressure are directly related to the drill and blasting that is currently ongoing in Portage Pit E5. Ice buildup is also a factor.

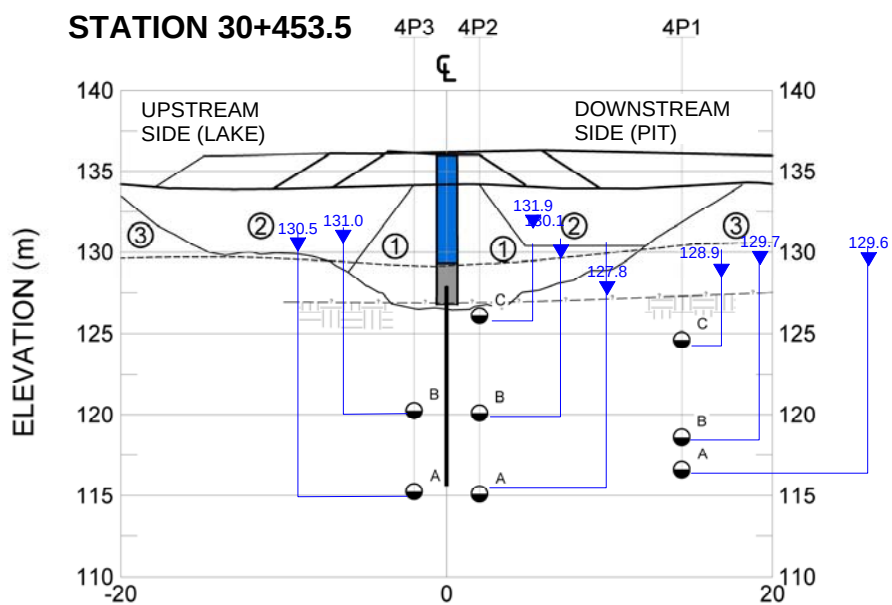
PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
	TITLE BAYGOOSE DIKE - SECTION 30+378.5 PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
	PROJECT No.		PHASE No.	
	DESIGN		SCALE	REV.
	CADD	TD	28AUG1	AS SHOWN
	CHECK	TD	28AUG1	
REVIEW		PG	28AUG1	
FIGURE 6				



NOTES:

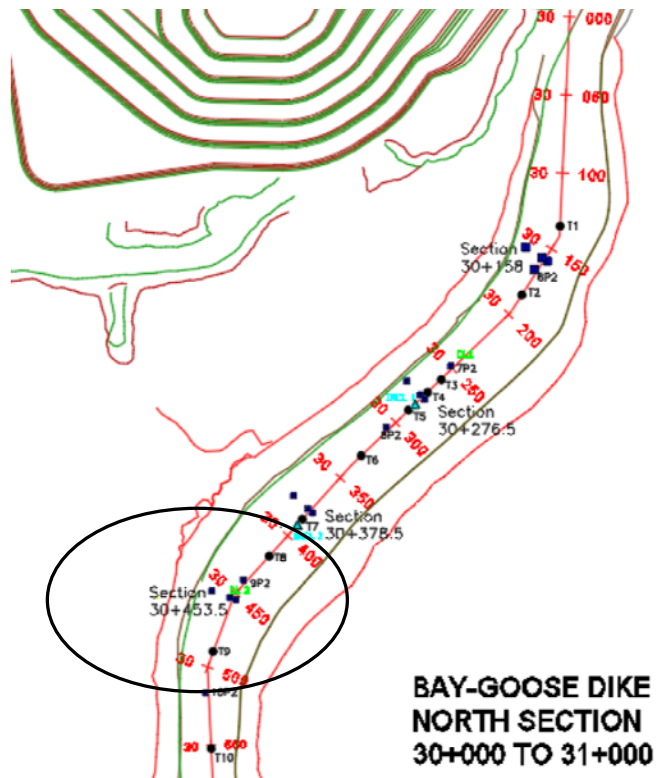
- All 4P1, 4P2C and 10P2 is given unstable readings and since the temperature either shows a negative reading or is close to a negative reading it is assumed to be frozen.
- Pressure changes are attributed to the drill and blast in Portage Pit E5 along with ice buildup that occurs.
- Some of the PWP that are over the Upstream Water Level can be attributed to having a negative temperature and assumed frozen.
- Gap in data in December is due to a low battery. Battery was changed the following day.

PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE		BAYGOOSE DIKE Section 30+453.5 - PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
		PROJECT No.		PHASE No.	
		DESIGN	TD	28AUG14	SCALE AS SHOWN
		CADD	TD	28AUG14	REV.
		CHECK	PG	28AUG14	
		REVIEW			
		FIGURE 7			

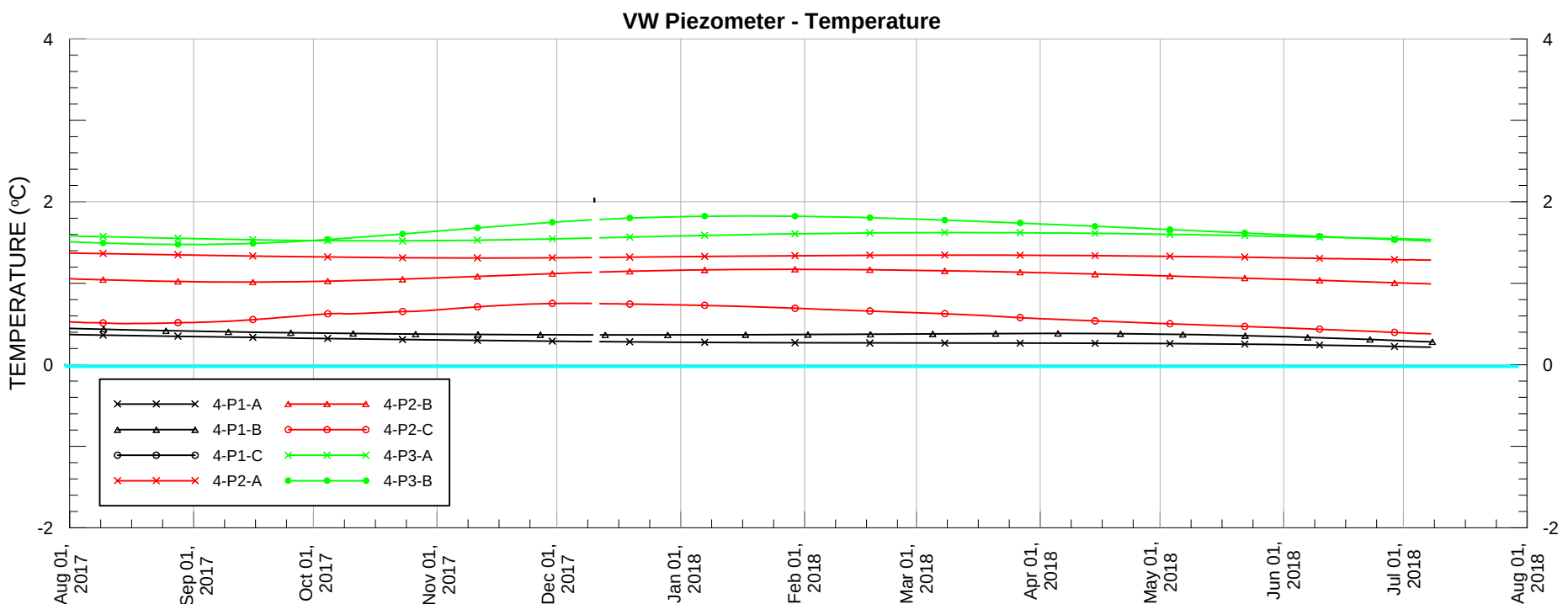
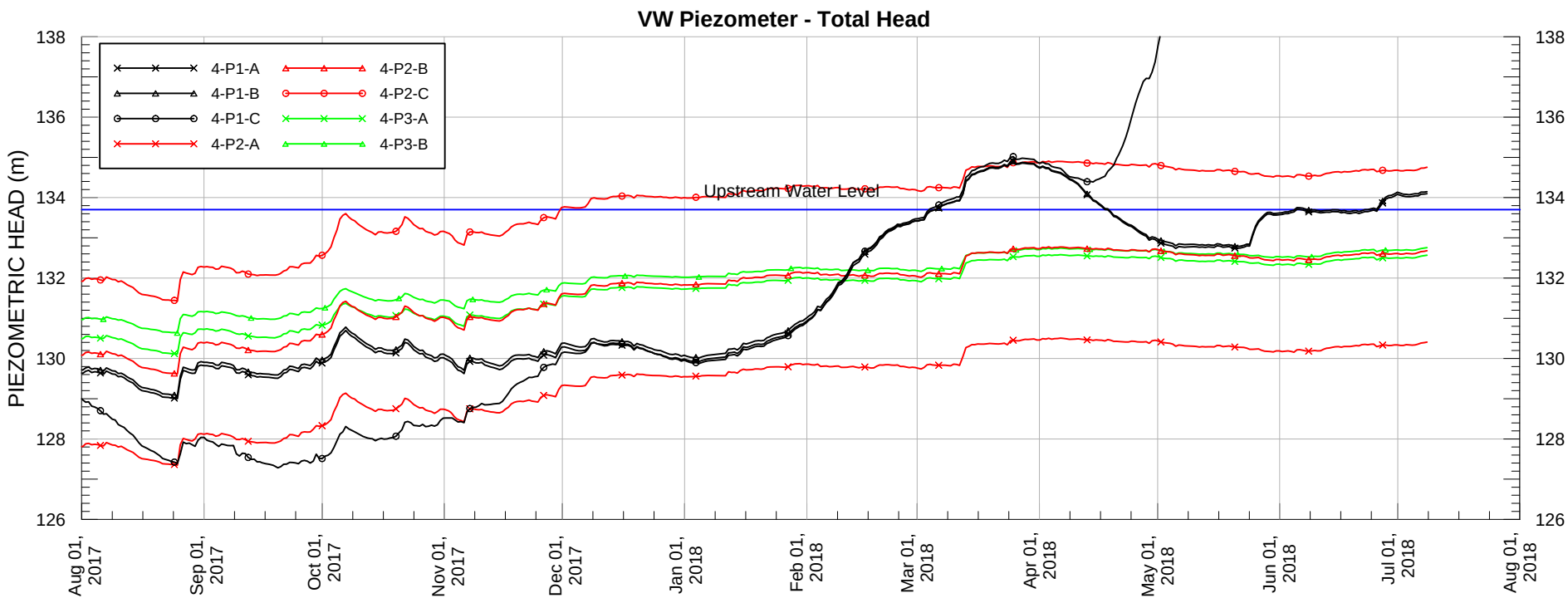


LEGEND

- | | |
|------------------|--------------------------------|
| CUTOFF (CSB) | ① CORE BACKFILL (19 mm MINUS) |
| CUTOFF (SB) | ② COARSE BACKFILL (15mm MINUS) |
| INITIAL ROCKFILL | ③ ROCKFILL |
| LAKEBED | ④ FINE ROCKFILL |
| BEDROCK | |
| JET GROUT | |
| GROUT | |



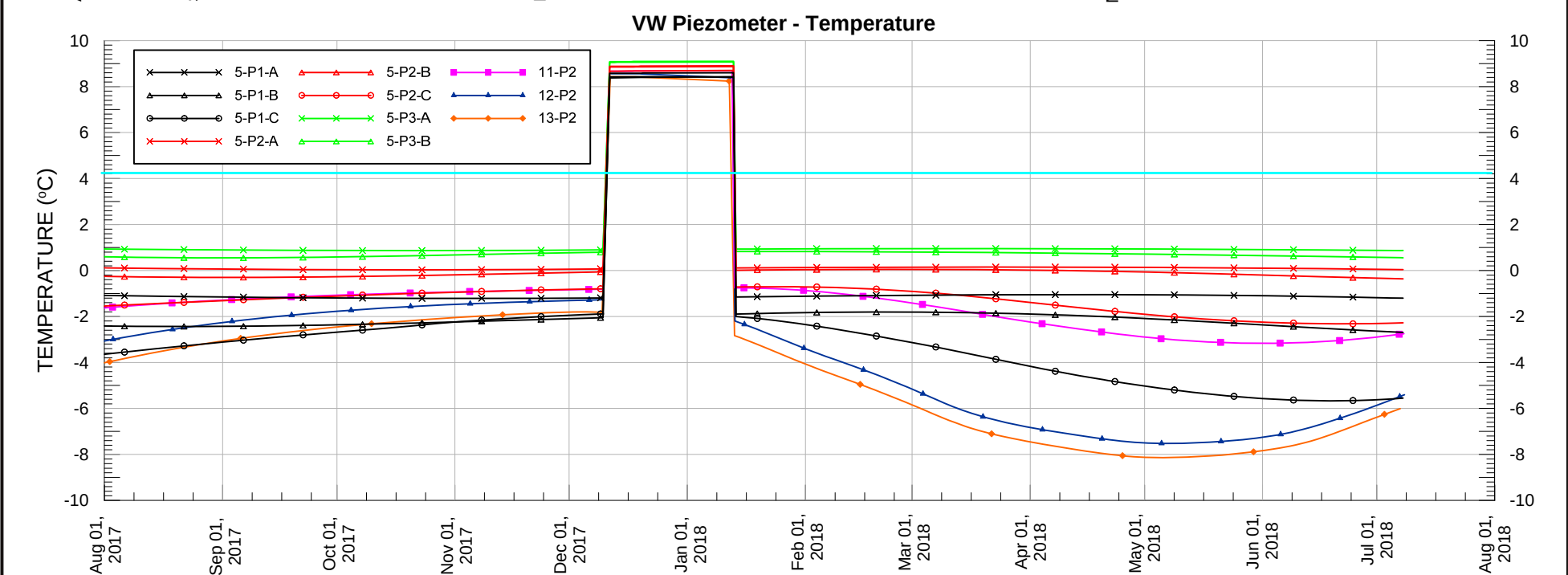
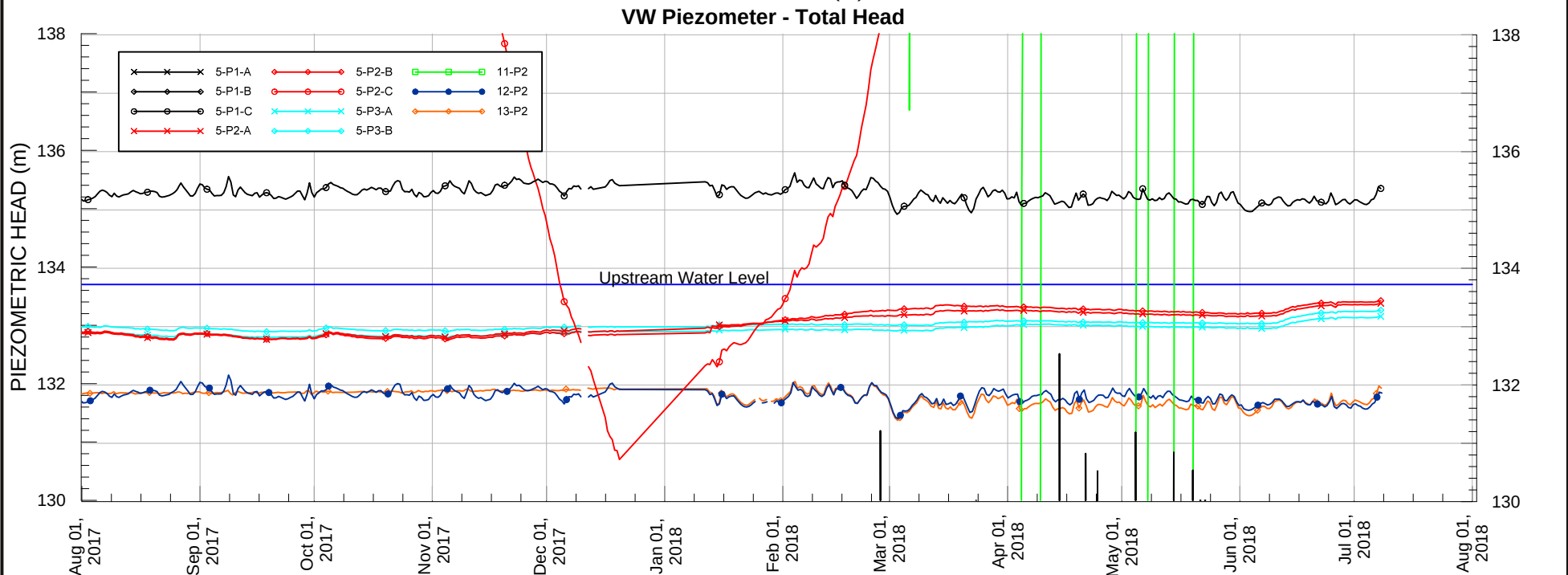
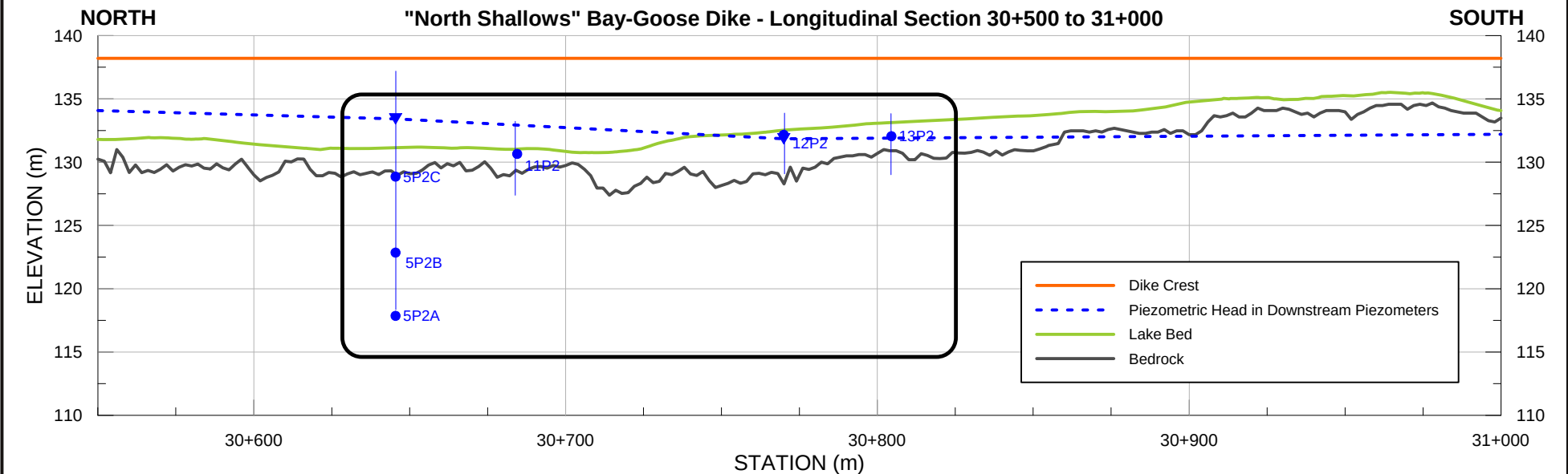
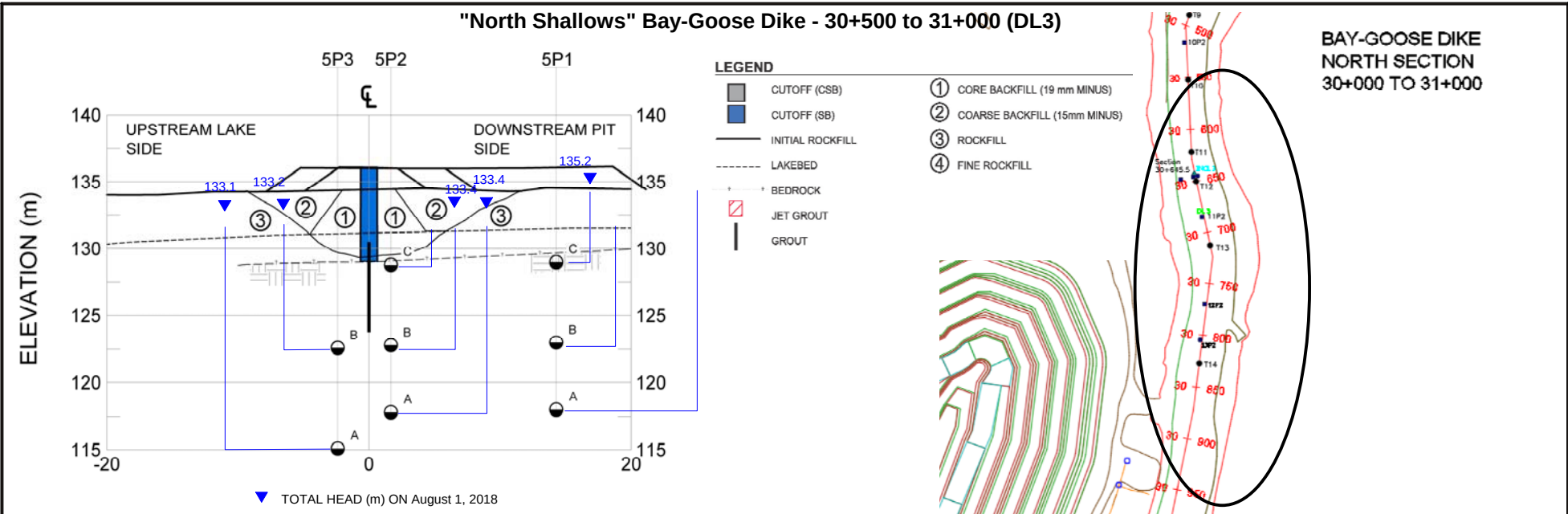
**BAY-GOOSE DIKE
NORTH SECTION
30+000 TO 31+000**



NOTES:

1. 4P1 and 4P2CPWP is given unstable readings and since the temperature is close to a freezing temperature it is assumed to be frozen.
2. Pressure changes are attributed to the drill and blast in Portage Pit E5 along with ice buildup that occurs.
3. Some of the PWP that are over the Upstream Water Level can be attributed to having a negative temperature and assumed frozen.
4. Data gap in December is due to low battery. Battery was changed the following day.

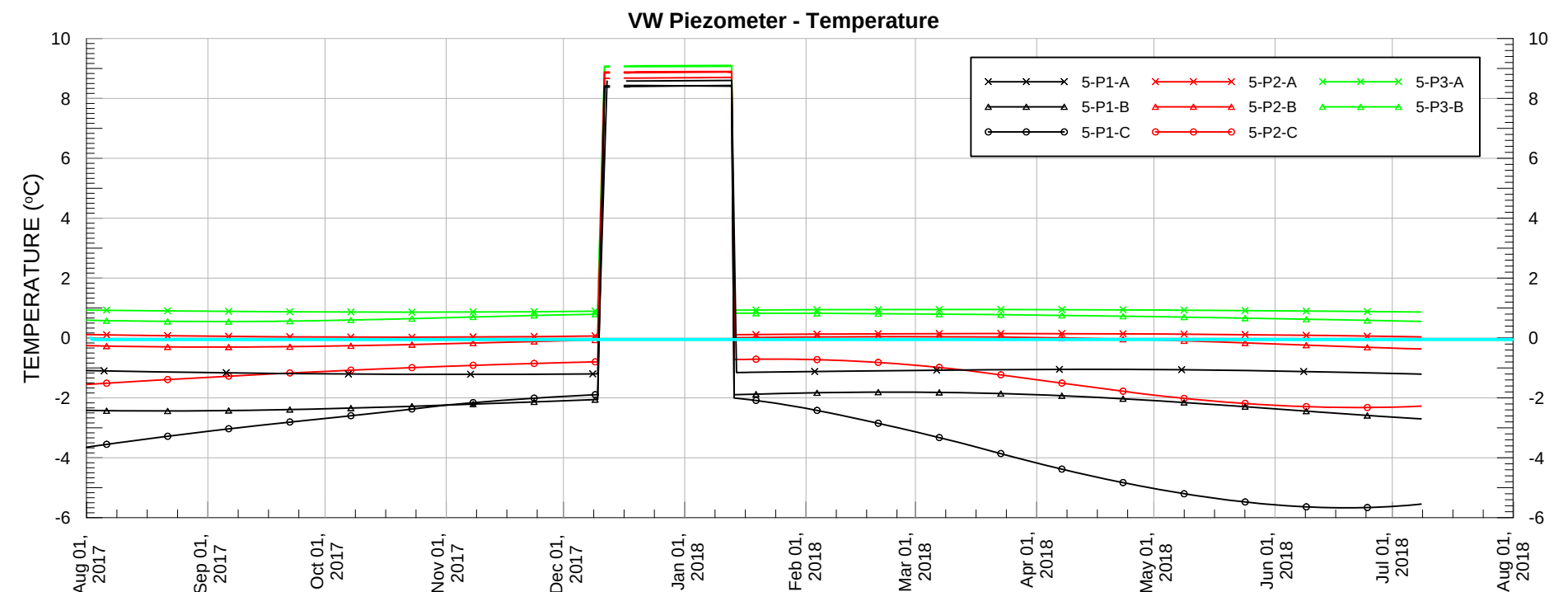
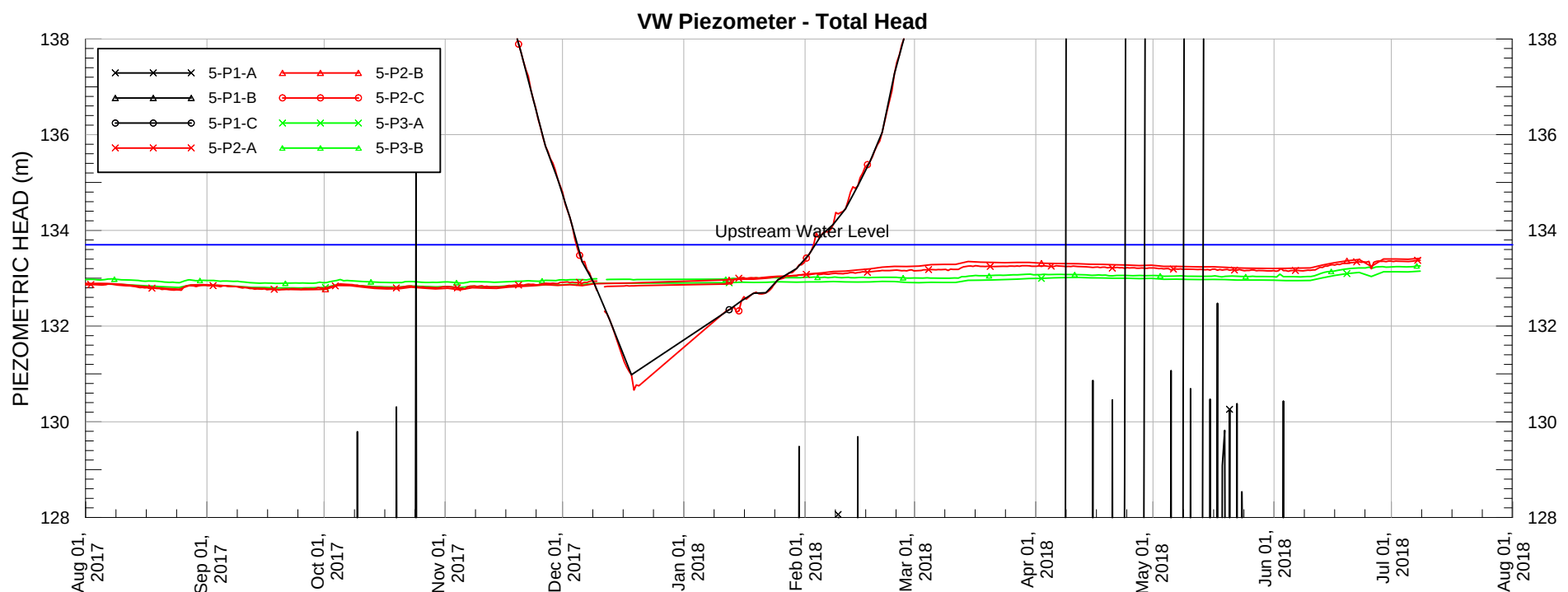
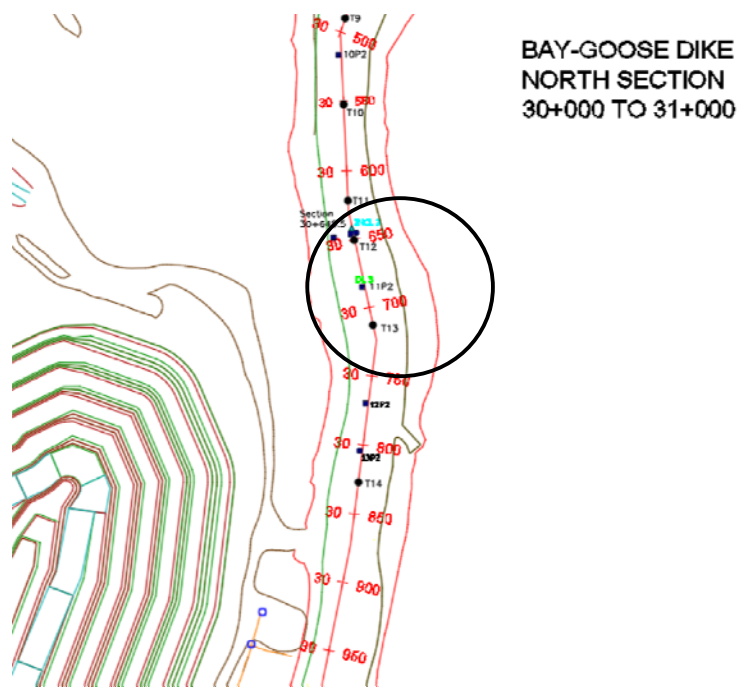
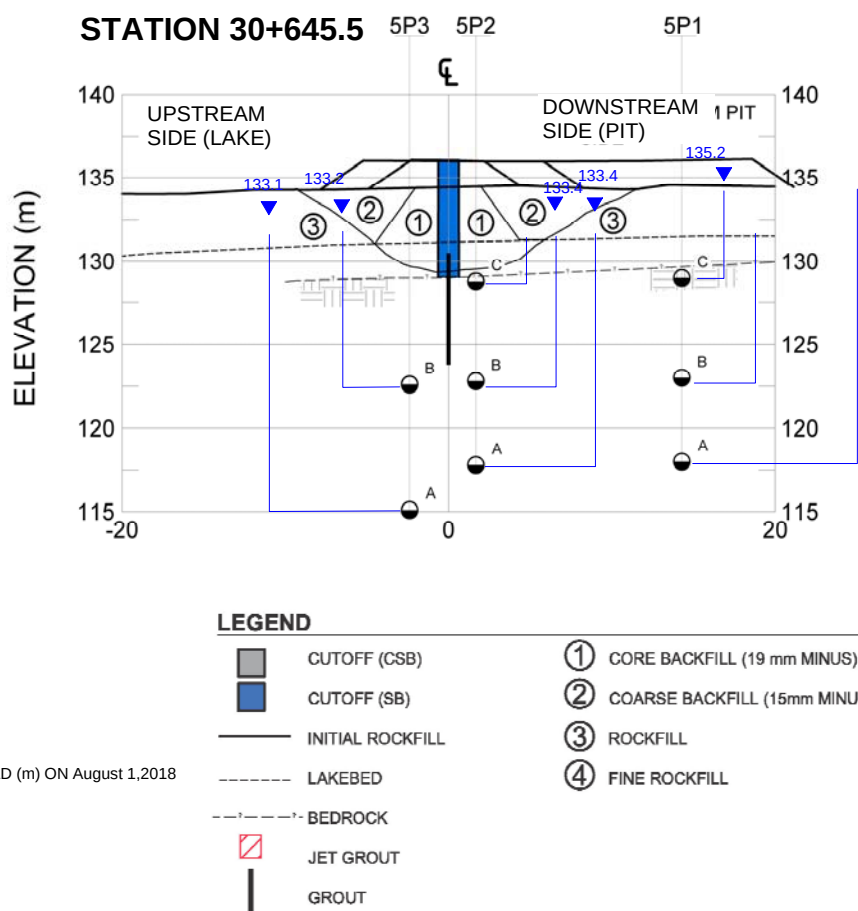
PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE		BAYGOOSE DIKE - SECTION 30+453.5 PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
	PROJECT No.			PHASE No.	
	DESIGN	TD	28AUG14	SCALE	AS SHOWN
	CADD	TD	28AUG14	REV.	
	CHECK	PG	28AUG14	FIGURE 8	
	REVIEW				



NOTES:

- 5P1A, 5P1B, 5P1C, 5P2C and 11P2 are giving unstable readings and since the temperature shows a negative reading it is assumed to be frozen.
- A spike in temperature also has been corrected and stabilized due to a faulty MUX board.
- Gap in data in December was due to a low battery. Battery was changed the following day.

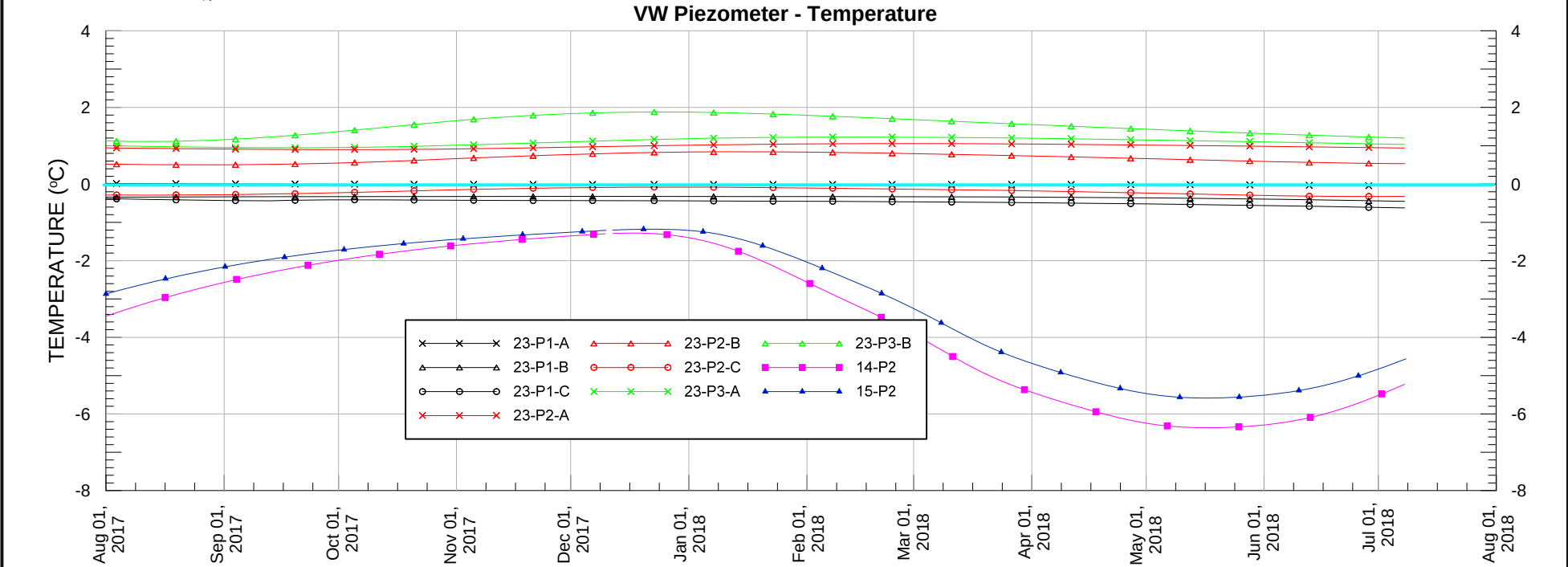
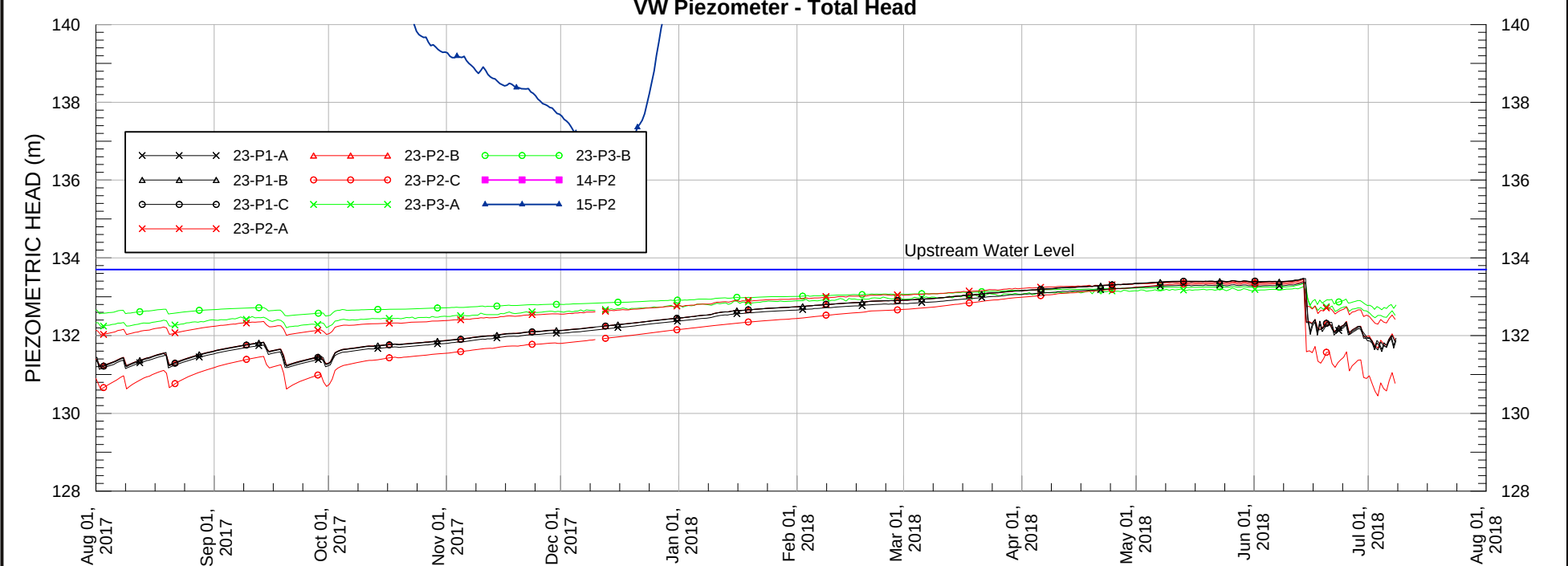
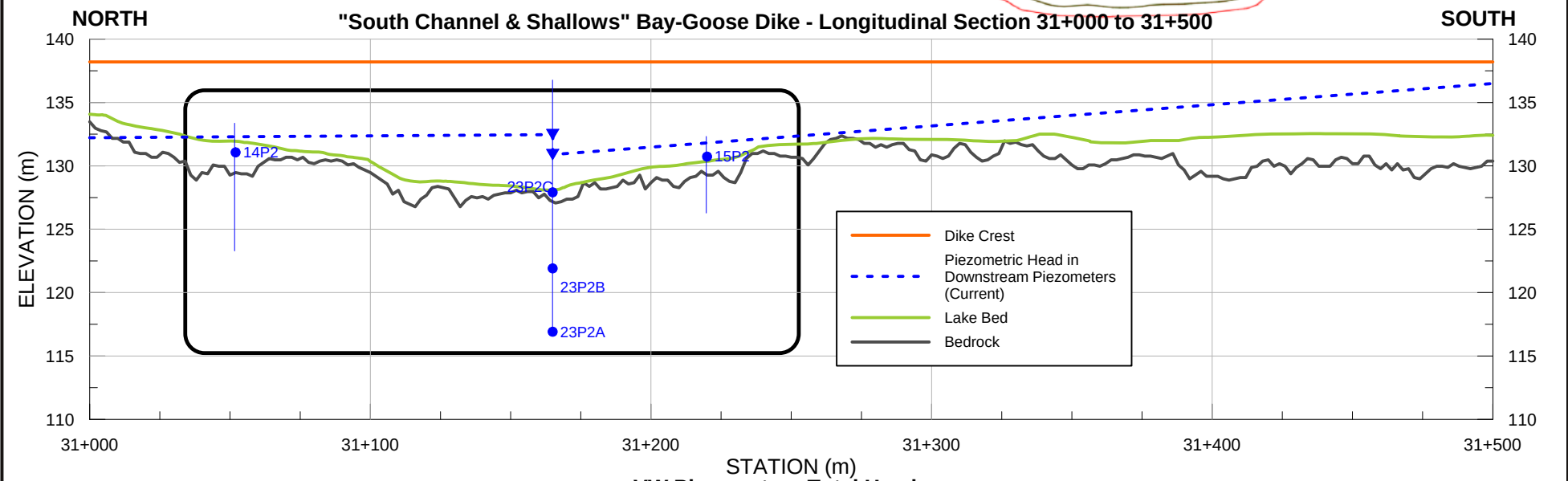
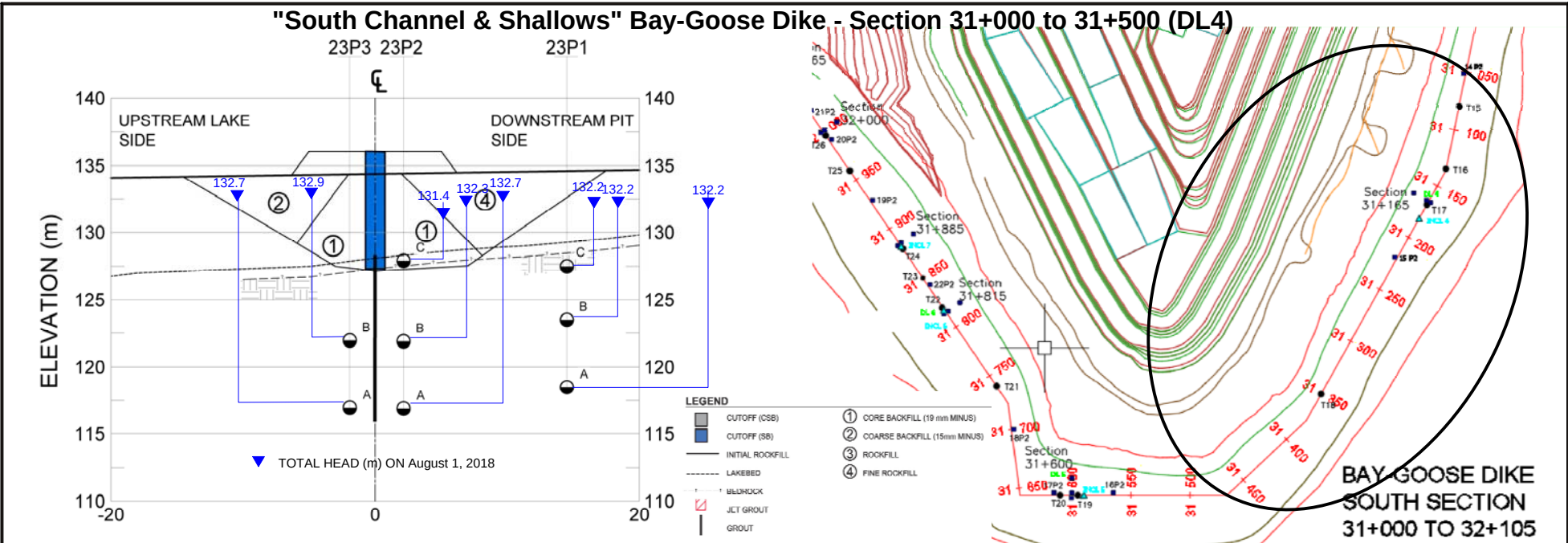
PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE	BAYGOOSE DIKE 30+550 to 31+000 - PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
	PROJECT No.	09-1428-5007	PHASE No.	4000
	DESIGN	TD	28AUG14	SCALE AS SHOWN
	CADD	TD	28AUG14	REV.
	CHECK	PG	28AUG14	
REVIEW				
				FIGURE 9



NOTES:

- 5P1A, 5P1B, 5P1C, 5P2C are giving unstable readings and since the temperature shows a negative reading it is assumed to be frozen.
- A spike in temperature also has been corrected and stabilized due to a faulty MUX board.
- Gap in data in December was due to a low battery. Battery was changed the following day.

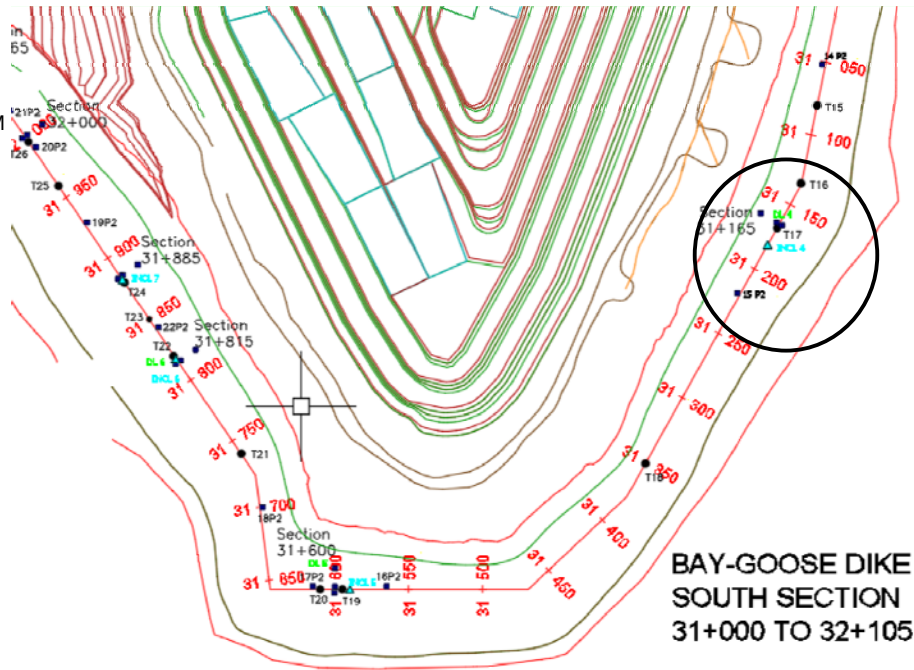
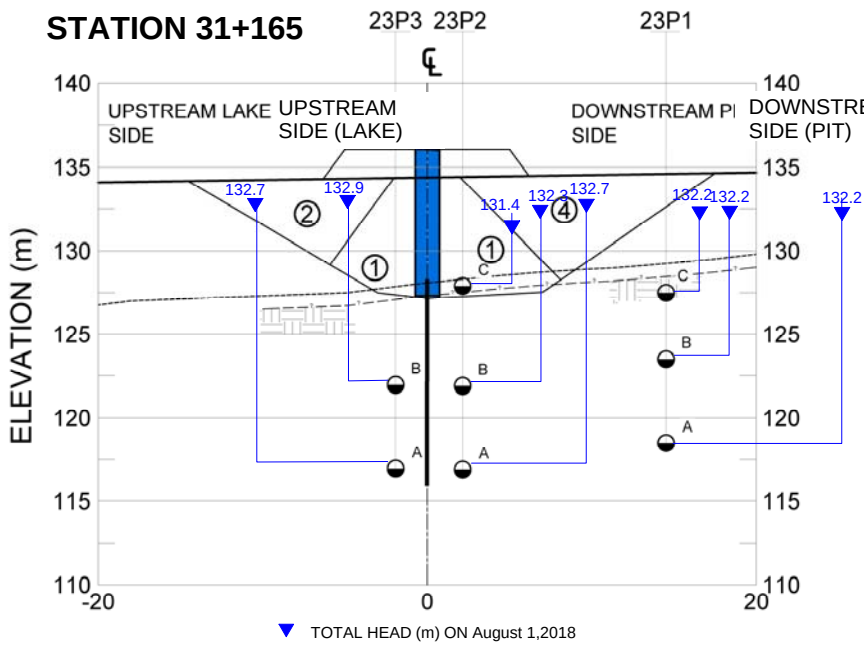
PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE		BAYGOOSE DIKE - SECTION 30+645.5 PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
		PROJECT No.		PHASE No.	
		DESIGN	TD	17JAN14	SCALE AS SHOWN
		CADD	TD	17JAN14	REV.
		CHECK			
		REVIEW			
					FIGURE 10



NOTES:

1. 14P2 and 15P2 are given unstable readings and since the temperature shows a negative reading it is assumed to be frozen.
2. PWP rises and falls due to ponding in the area and continuous pumping, and allowing the ponding to raise. The steady increase is when the ponding area freezes, and no pumping is done till the thawing of the area.
3. Gap in data in December is due to low battery. Battery was changed the following day.

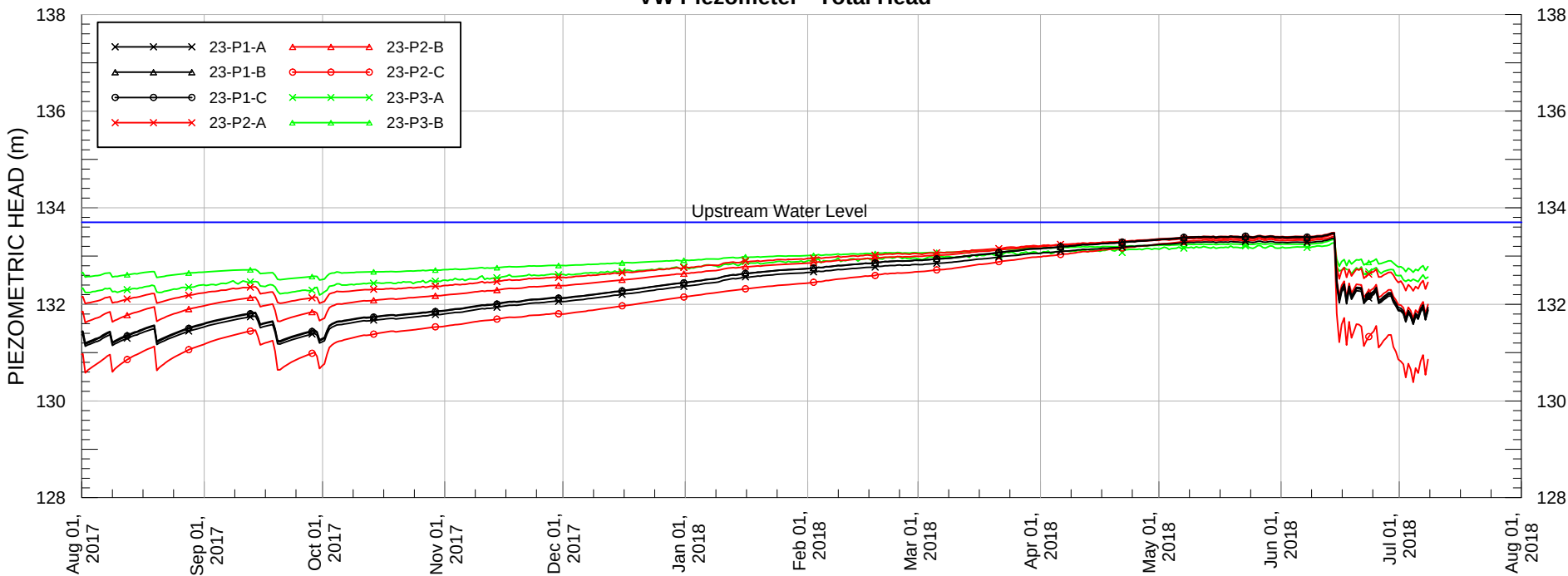
PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT		
TITLE	BAYGOOSE DIKE 31+000 to 31+500 - PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)		
	PROJECT No.	PHASE No.	
	DESIGN TD	28AUG14	SCALE AS SHOWN
	CADD TD	28AUG14	REV.
	CHECK PG	28AUG14	
REVIEW		FIGURE 11	



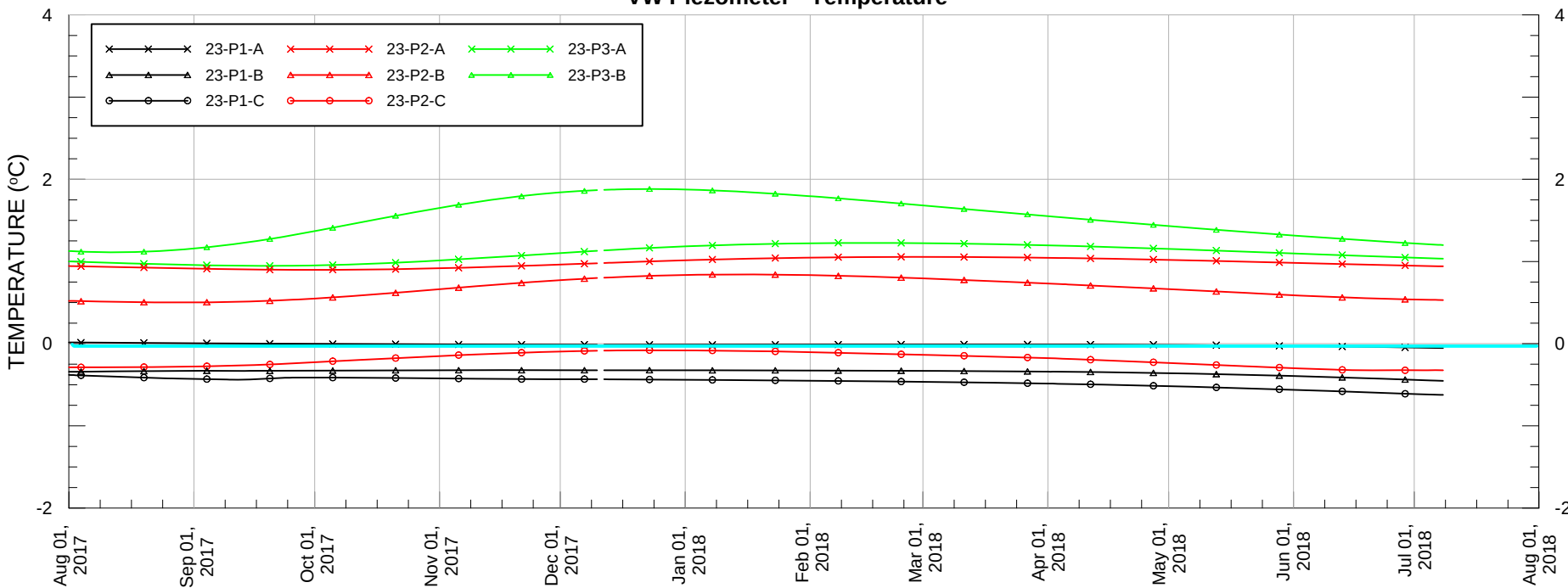
LEGEND

- CUTOFF (CSB)
CUTOFF (SB)
INITIAL ROCKFILL
LAKEBED
BEDROCK
JET GROUT
GROUT
- ① CORE BACKFILL (19 mm MINUS)
② COARSE BACKFILL (15mm MINUS)
③ ROCKFILL
④ FINE ROCKFILL

VW Piezometer - Total Head



VW Piezometer - Temperature

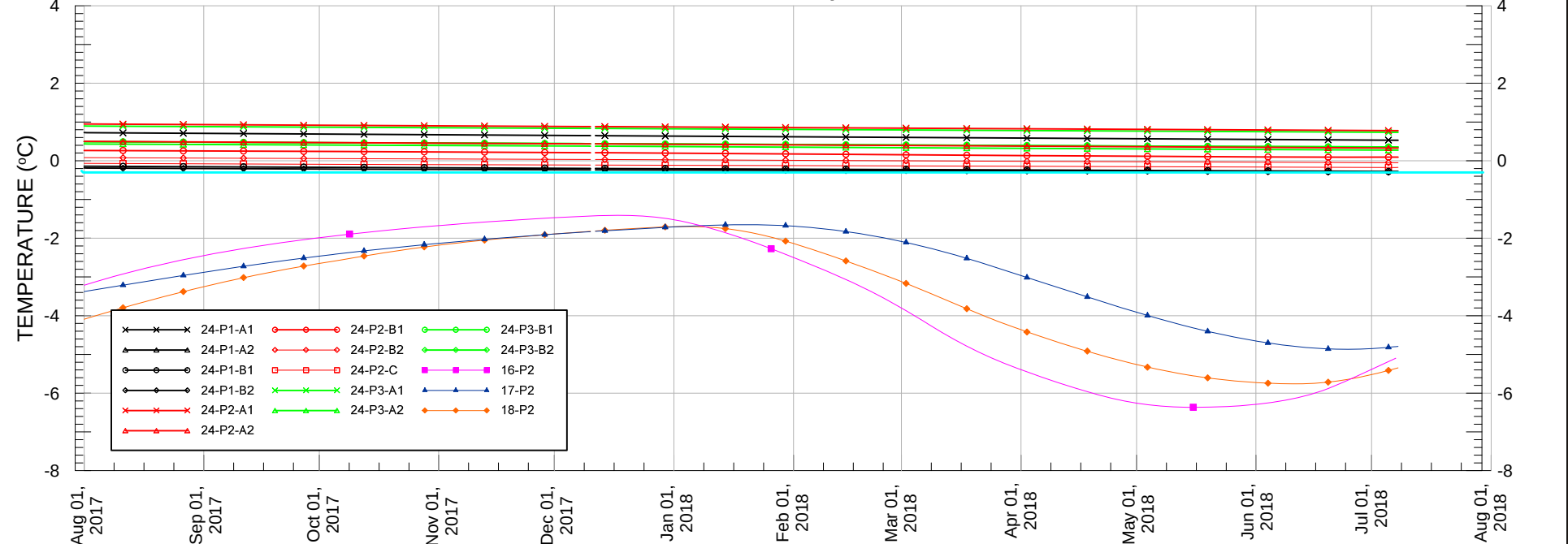
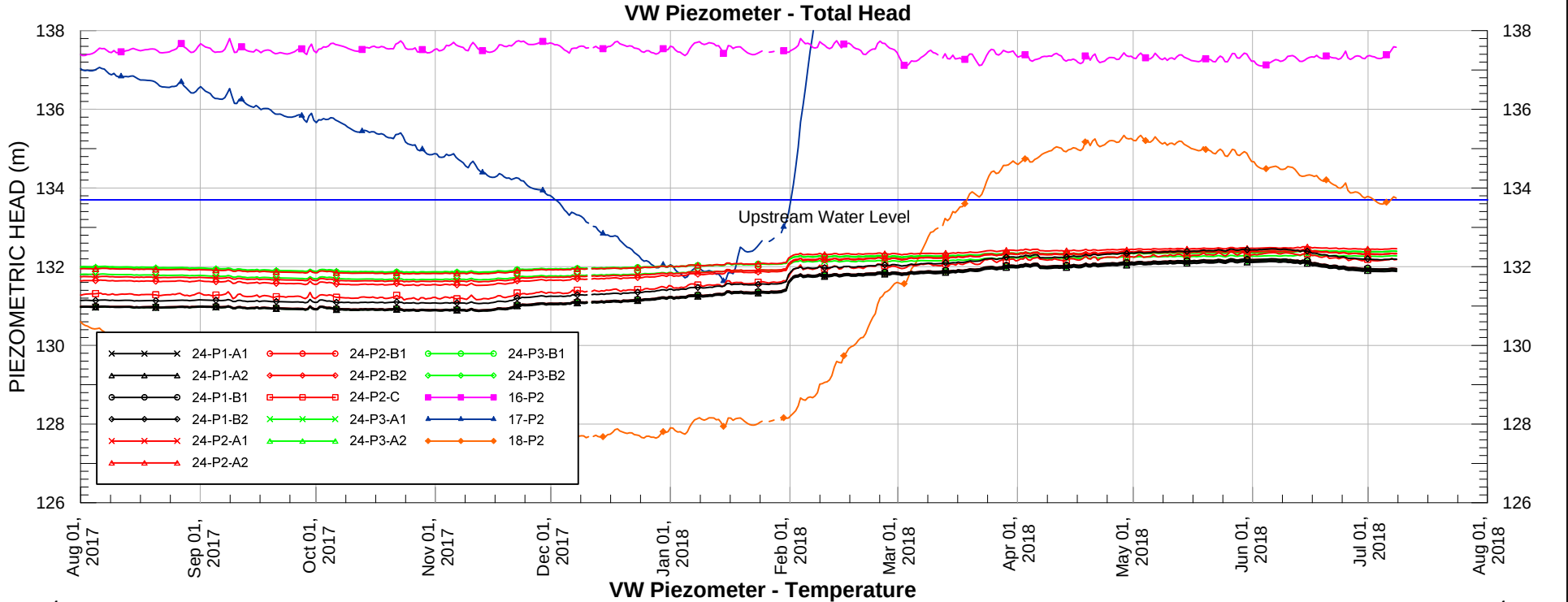
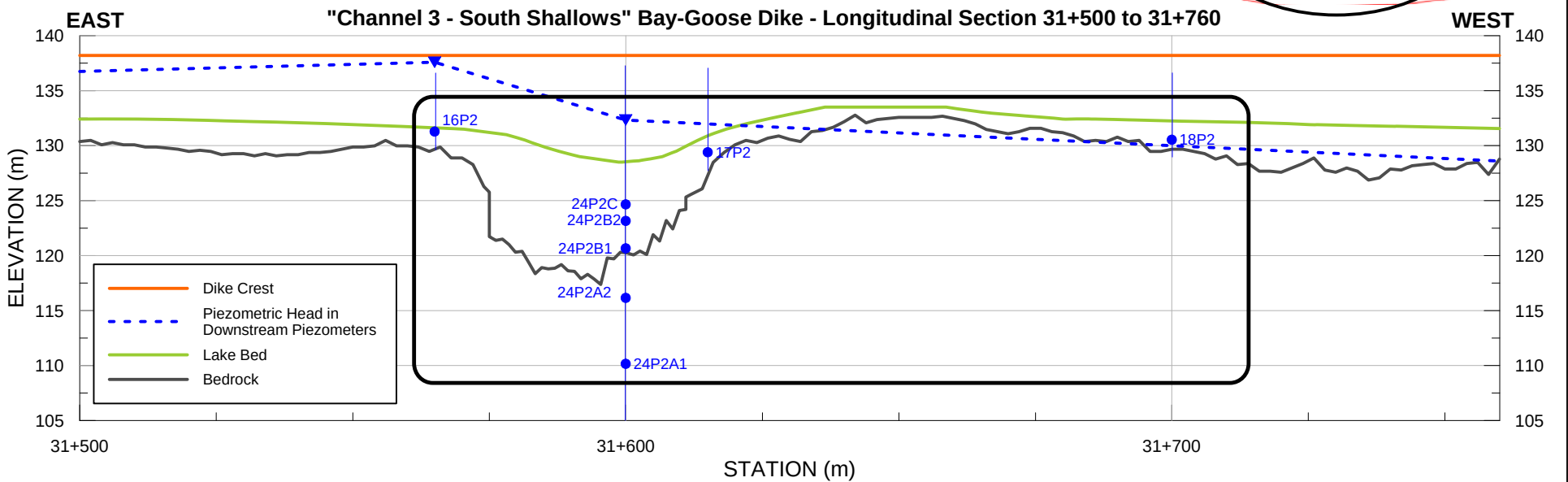
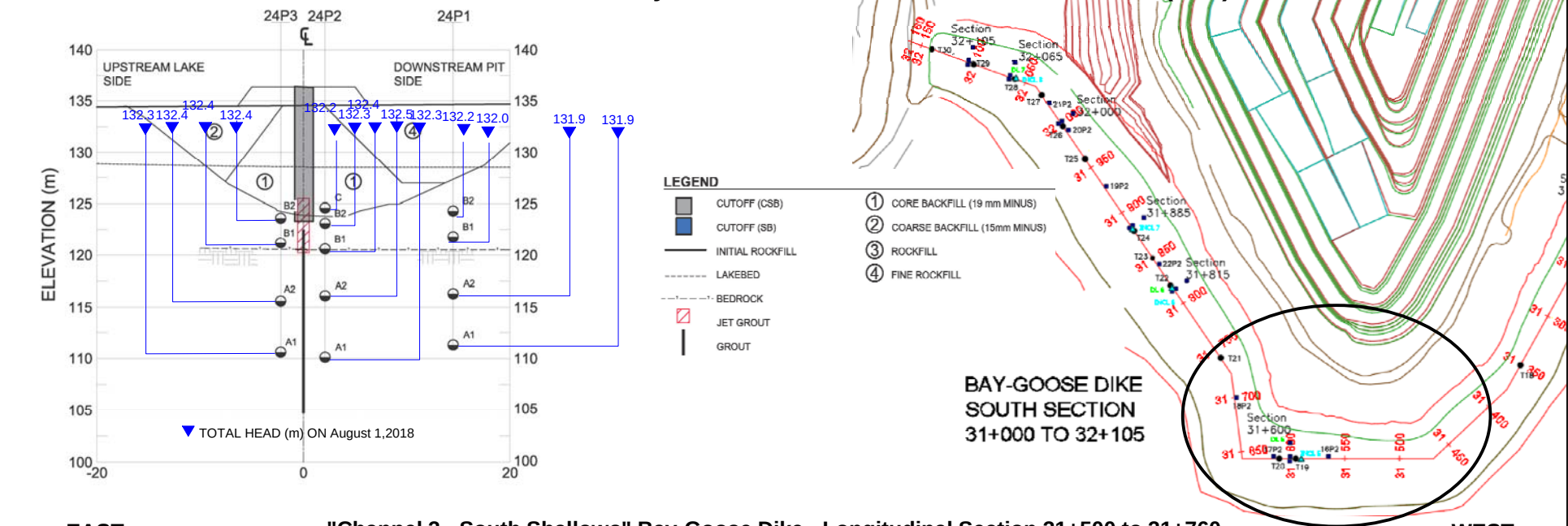


NOTES:

1. PWP rises and falls due to ponding in the area and continous pumping, and allowing the ponding to raise. The steady increase is when the ponding area freezes, and no pumping is done till the thawing of the area.
2. Gap in data in December is due to low battery. Battery was changed he following day.

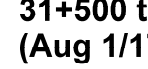
PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE	BAYGOOSE DIKE - SECTION 31+165 PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)				
	PROJECT No.		PHASE No.		
	DESIGN	TD	28AUG14	SCALE	AS SHOWN
	CADD	TD	28AUG14	REV.	
	CHECK	PG	28AUG14		
REVIEW				FIGURE 12	

"Channel 3 - South Shallows" Bay-Goose Dike - Section 31+500 to 31+760 (DL5)

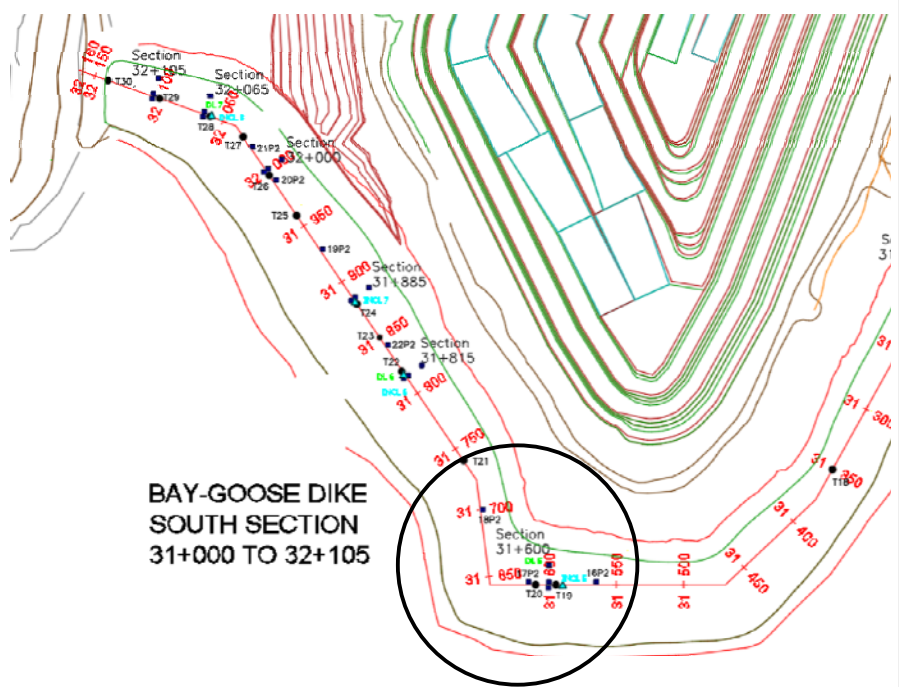
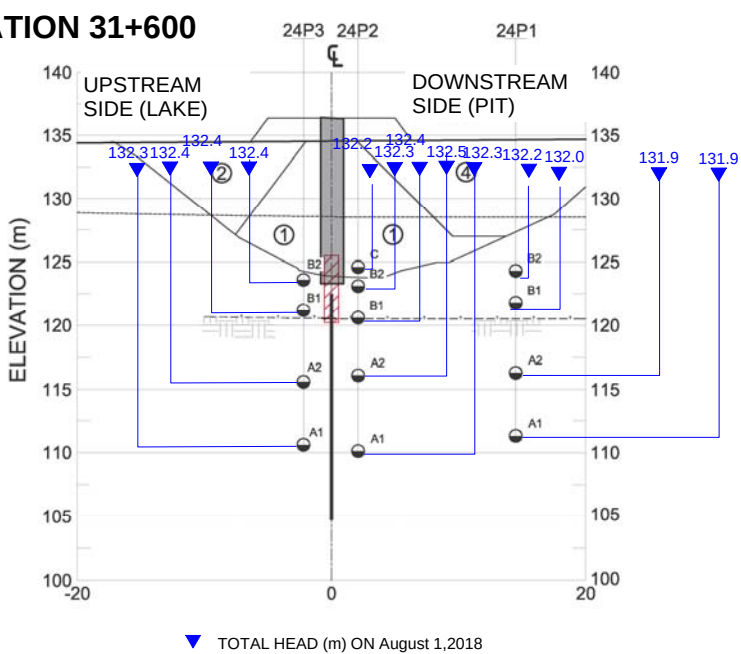


NOTES:

- 16P2, 17P2 and 18P2 are given unstable readings and since the temperature shows a negative reading it is assumed to be frozen.
- PWP is following same trend as previous years. When ice builds the pressure increases and when it melts in summer the pressure decreases
- Gap in data in December is due to low battery. Battery was changed the following day.

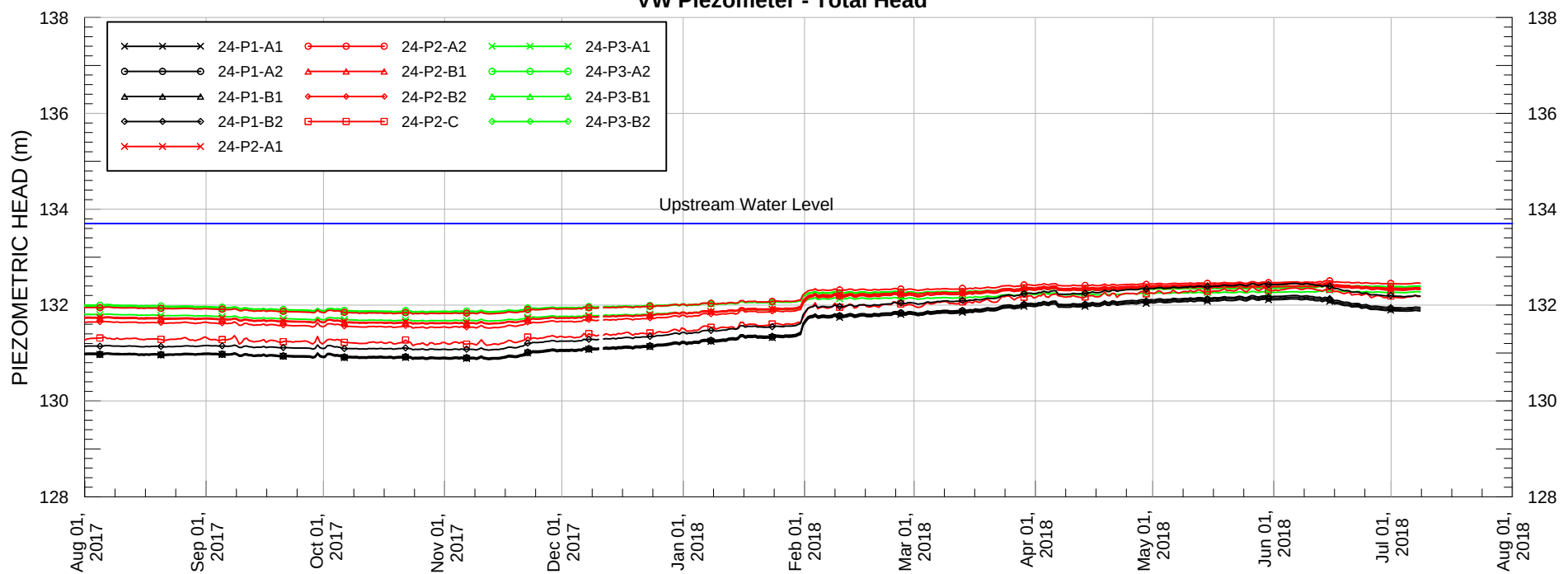
PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE	BAYGOOSE DIKE 31+500 to 31+760 - PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)				
	PROJECT No.			PHASE No.	
	DESIGN	TD	28AUG14	SCALE	AS SHOWN
	CADD	TD	28AUG14	REV.	
	CHECK	PG	28AUG14	FIGURE 13	
	REVIEW				

STATION 31+600

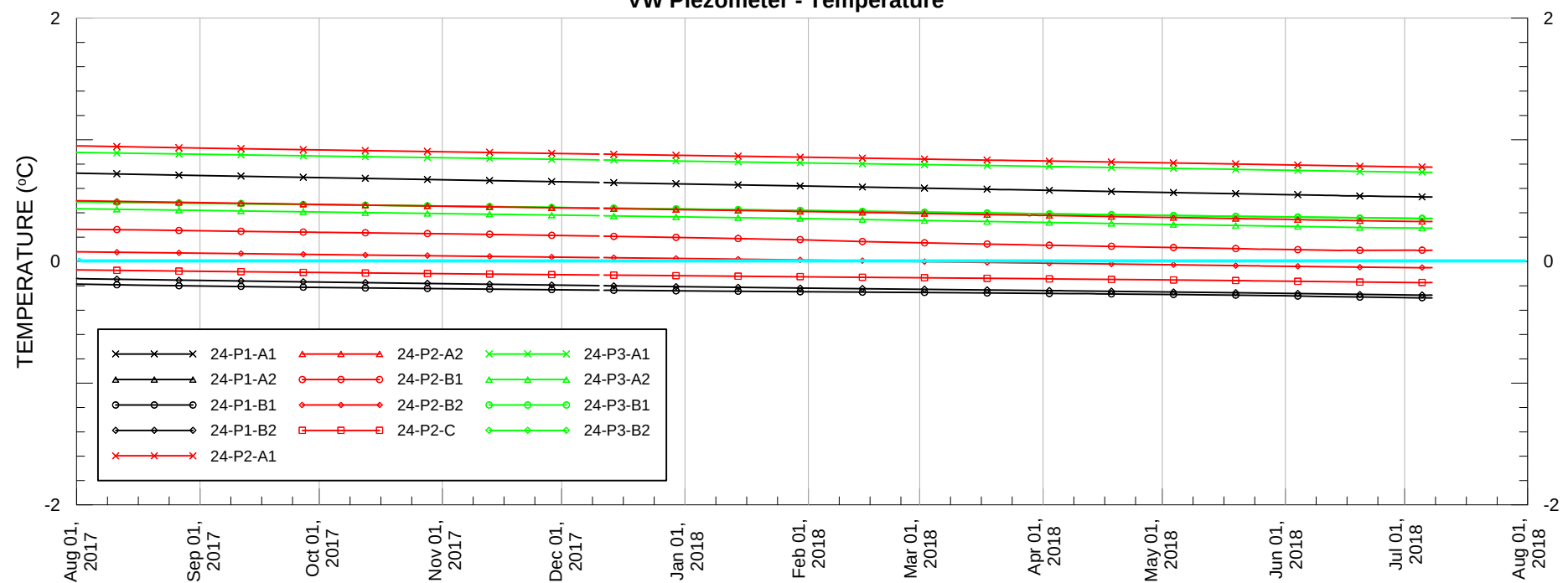


- LEGEND**
- CUTOFF (CSB)
 - CUTOFF (SB)
 - INITIAL ROCKFILL
 - LAKEBED
 - BEDROCK
 - JET GROUT
 - GROUT
 - ① CORE BACKFILL (19 mm MINUS)
 - ② COARSE BACKFILL (15mm MINUS)
 - ③ ROCKFILL
 - ④ FINE ROCKFILL

VW Piezometer - Total Head



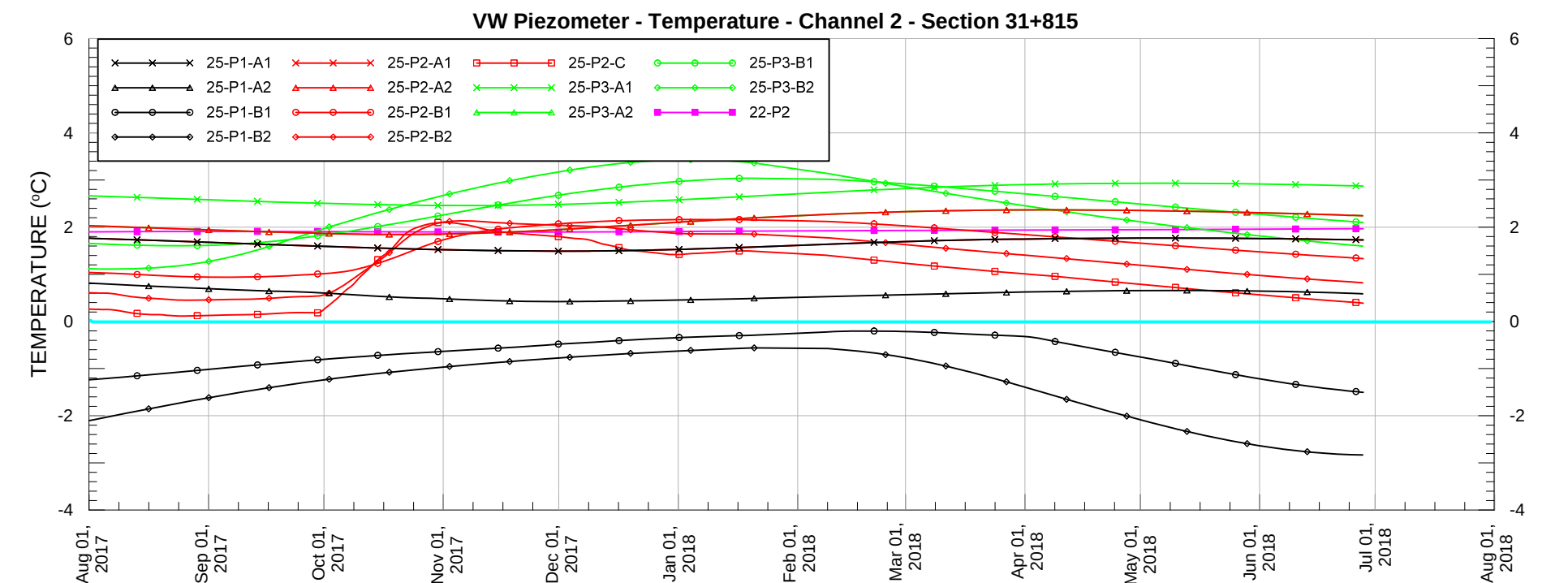
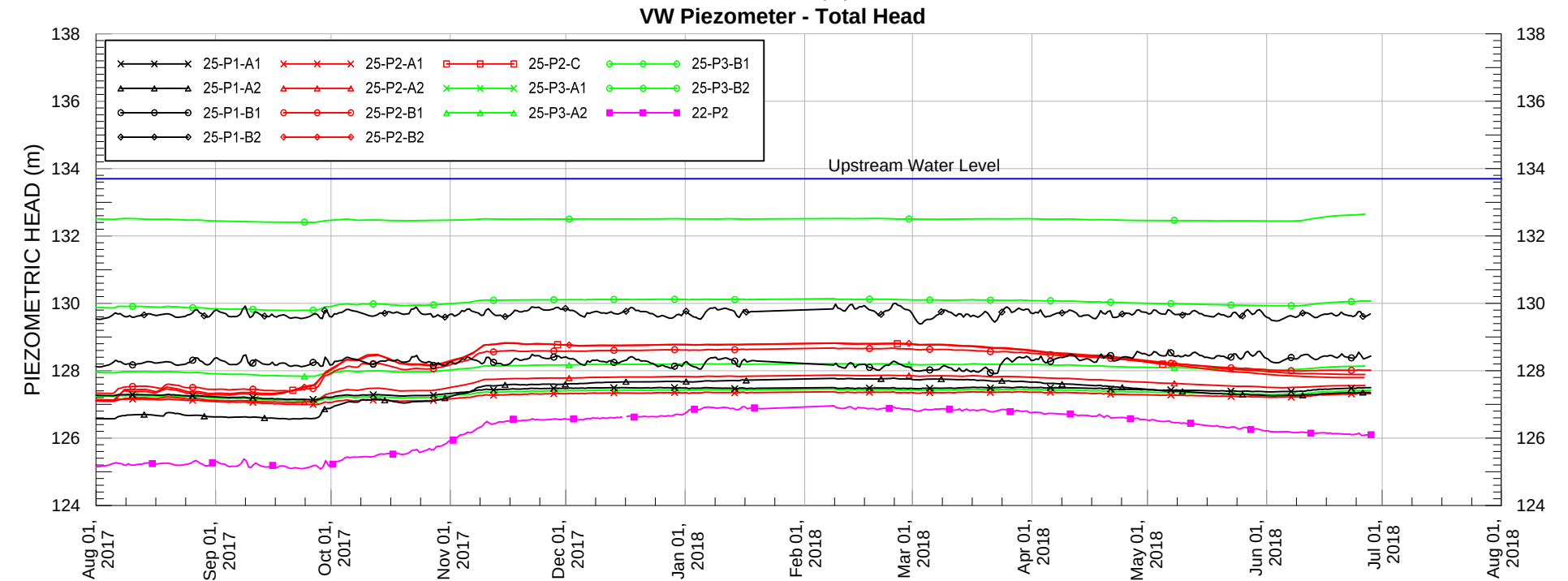
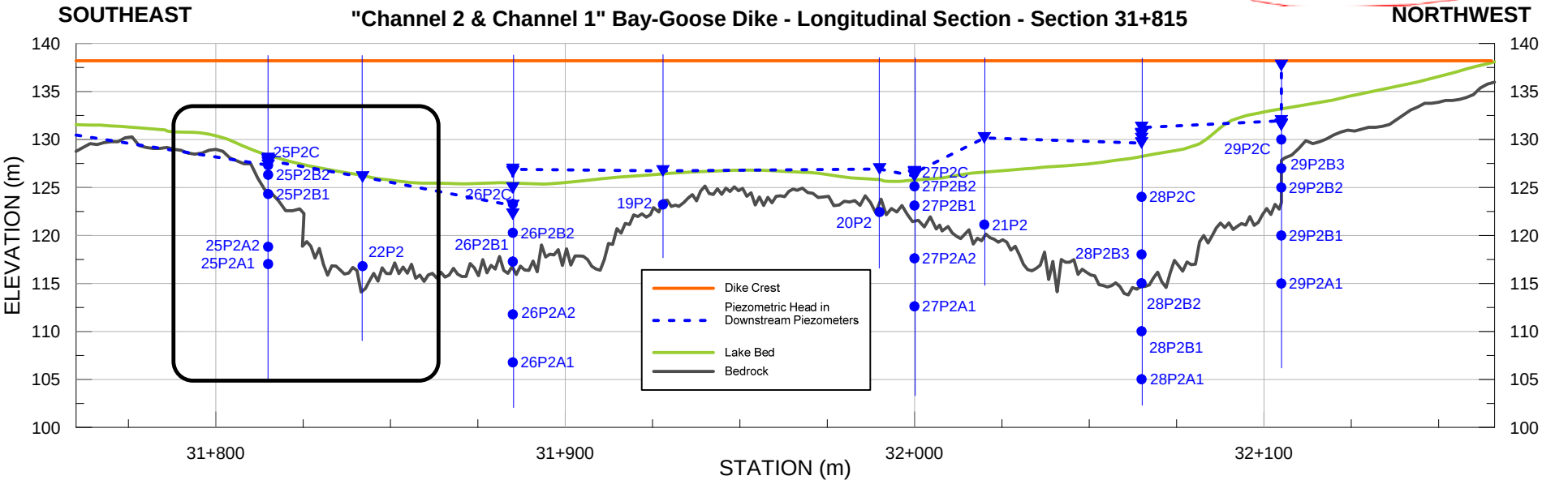
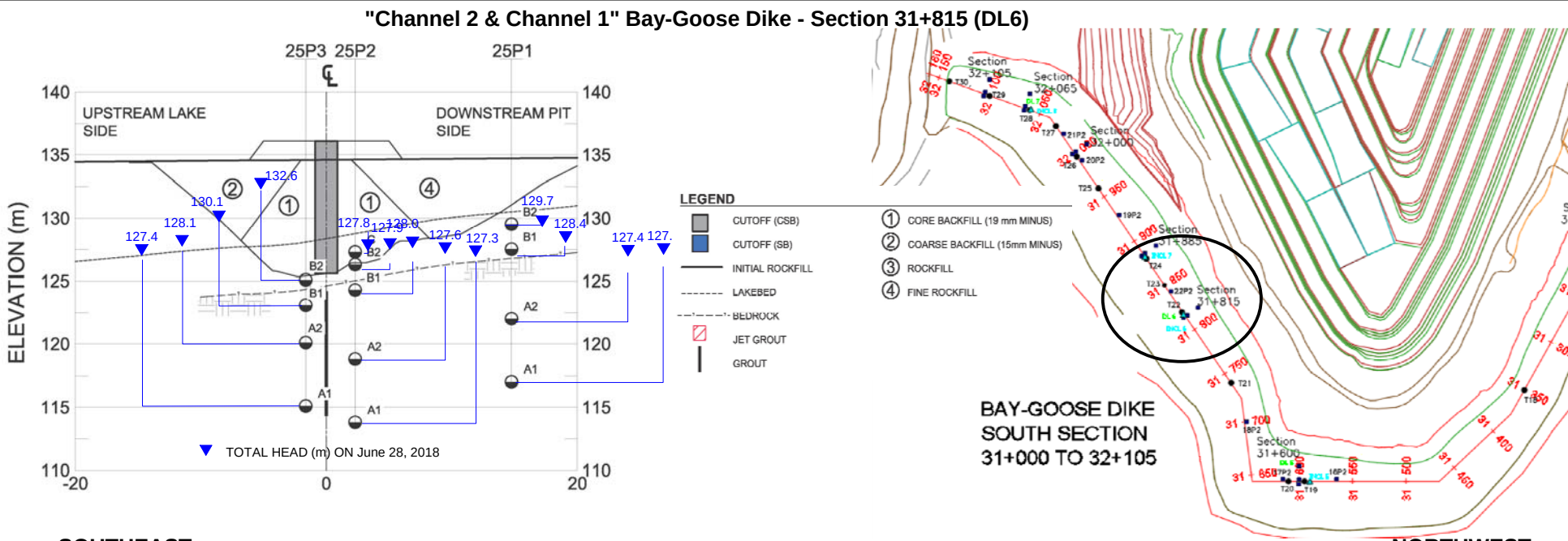
VW Piezometer - Temperature



NOTES:

- PWP is following same trend as previous years. When ice builds the pressure increases and when it melts in summer the pressure decreases
- Gap in data in December was due to a low battery. Battery was changed the following day.

PROJECTAGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLEBAYGOOSE DIKE - SECTION 31+600 PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
	PROJECT No.		PHASE No.
	DESIGN	TD 28AUG18	SCALE AS SHOWN
	CADD	TD 28AUG18	REV.
	CHECK	PG 28AUG18	
REVIEW		FIGURE 14	

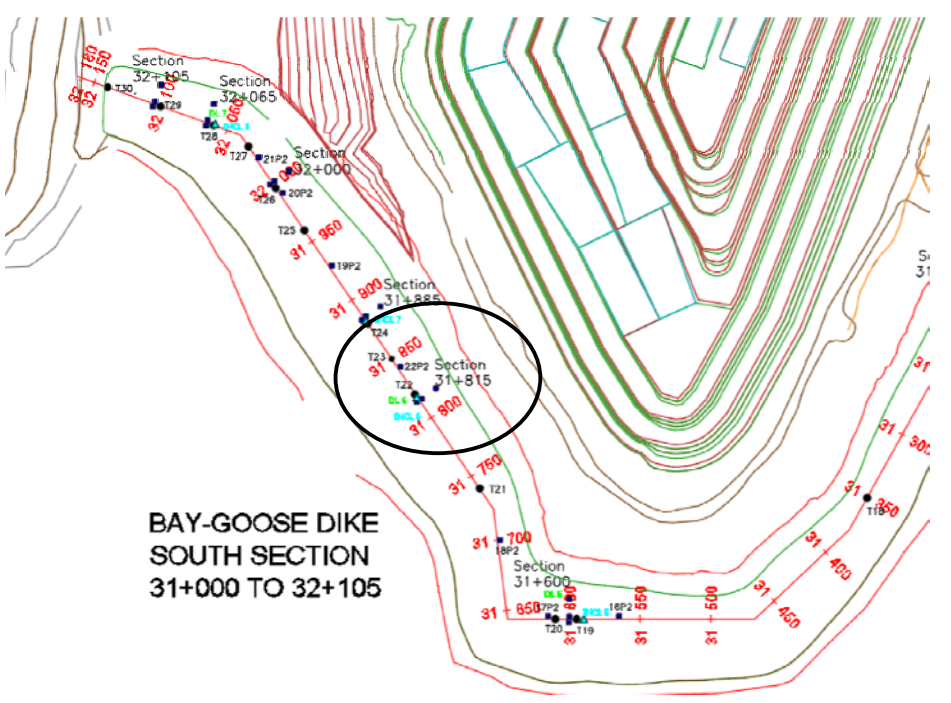
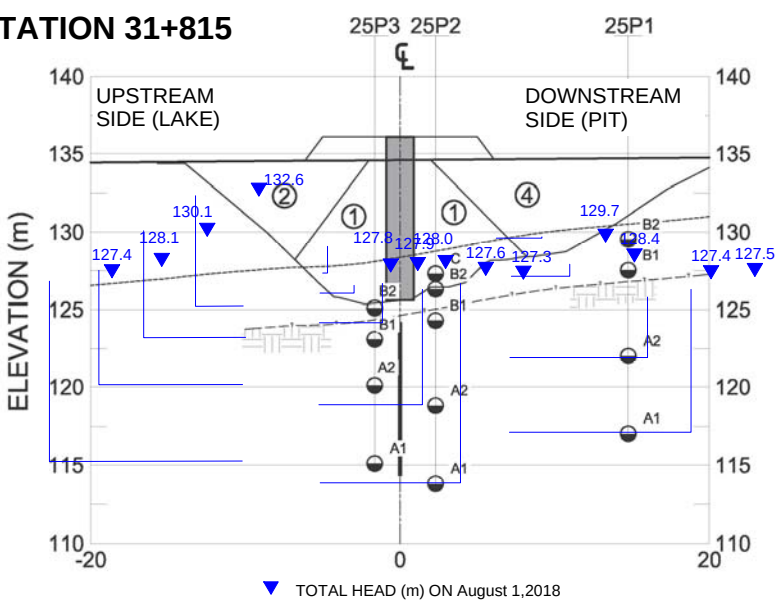


NOTES:

1. The rise in temperature and PWP was interpreted as the permafrost at the toe of the dike blocking the seepage path which led to this events. Will continue to monitor in the field and the instruments. Since the snow melt the blockage is not longer there and the PWP is on a downtrend.
2. There is a signal loss since March 7/18 which is due to the snow accumulating on the Goose Waste Dump pile. Since the snow melt signal is back.

PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT		
TITLE		BAYGOOSE DIKE Section 31+815 - CHANNEL 2, PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)		
	PROJECT No.		PHASE No.	
	DESIGN	TD	28AUG14	SCALE AS SHOWN
	CADD	TD	28AUG14	REV.
	CHECK	PG	28AUG14	
REVIEW		FIGURE 15		

STATION 31+815

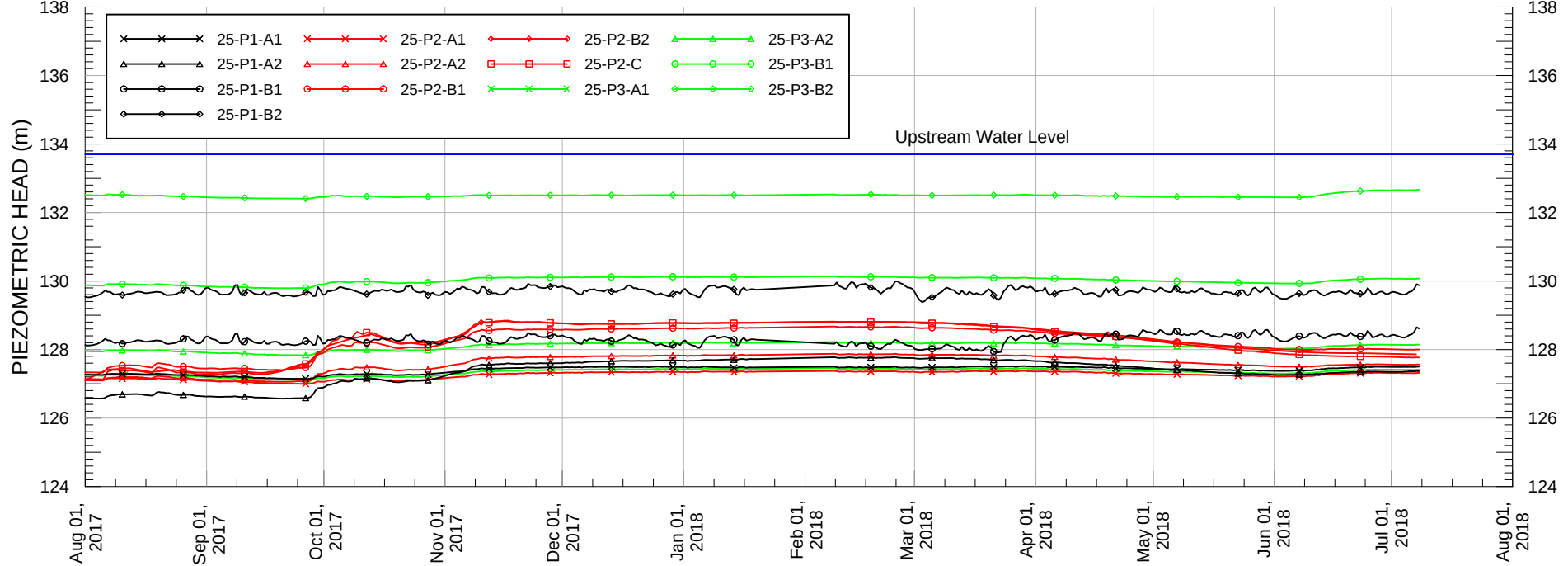


BAY-GOOSE DIKE
SOUTH SECTION
31+000 TO 32+105

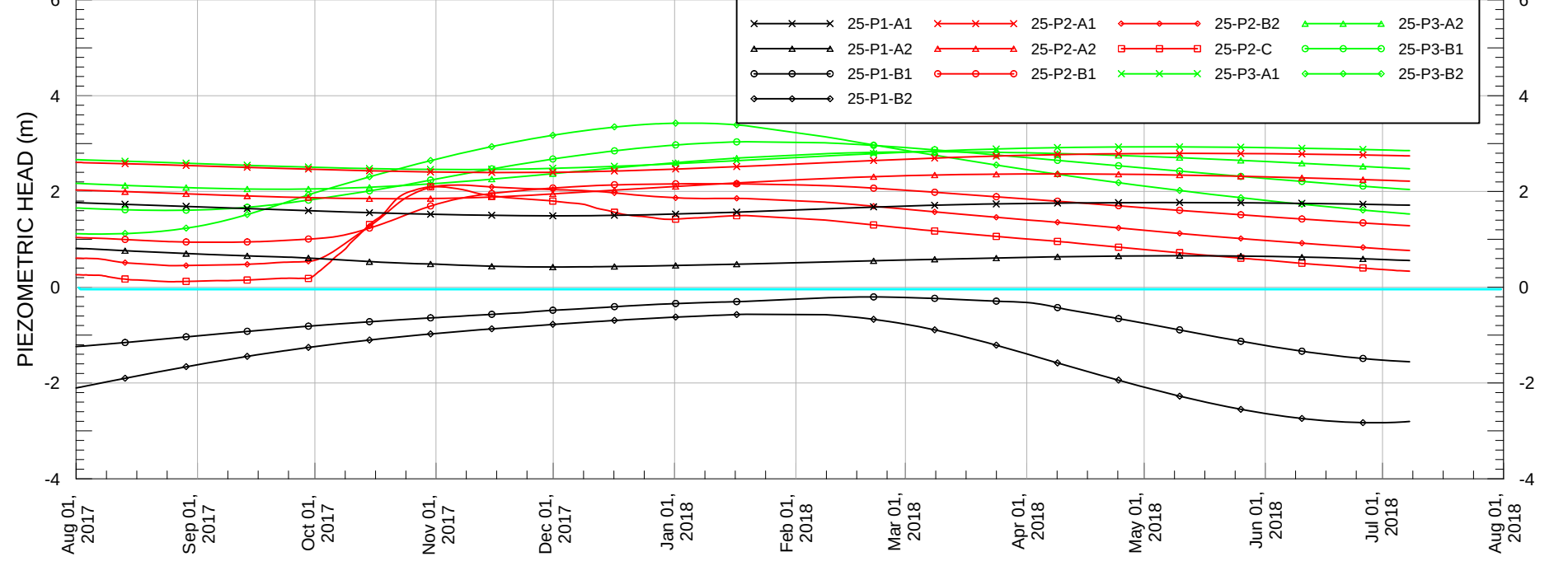
LEGEND

- CUTOFF (CSB)
- CUTOFF (SB)
- INITIAL ROCKFILL
- LAKEBED
- BEDROCK
- JET GROUT
- GROUT
- ① CORE BACKFILL (19 mm MINUS)
- ② COARSE BACKFILL (15mm MINUS)
- ③ ROCKFILL
- ④ FINE ROCKFILL

VW Piezometer - Total Head



VW Piezometer - Temperature

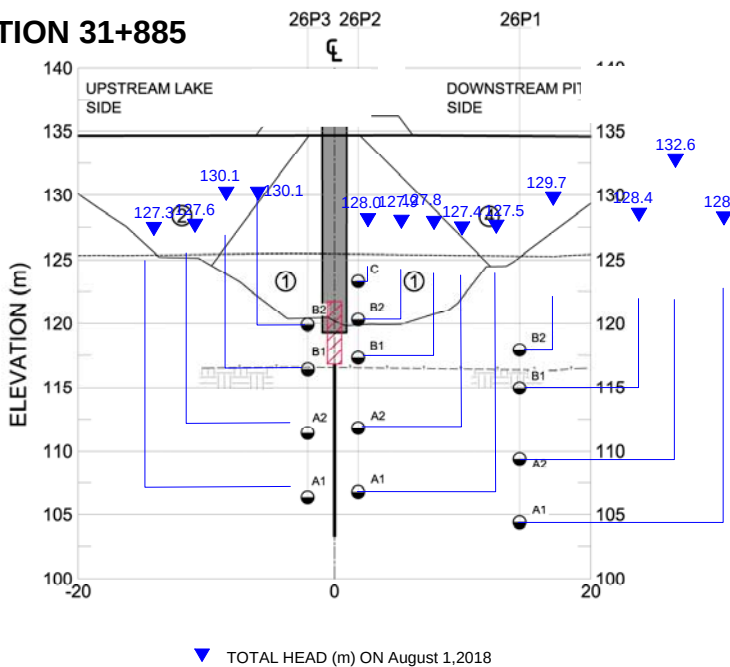


NOTES:

- The rise in temperature and PWP was interpreted as the permafrost at the toe of the dike blocking the seepage path which led to this events. Will continue to monitor in the field and the instruments. Since the snow melt the blockage is no longer there and the PWP is on a downtrend.
- There is a signal loss since March 7/18 which is due to the snow accumulating on the Goose Waste Dump pile. Since the snow melt signal is back.

PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE	BAY-GOOSE DIKE - SECTION 31+815 PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)				
	PROJECT No.	09-1428-5007	PHASE No.	4000	
	DESIGN	TD	28AUG14	SCALE	AS SHOWN
	CADD	TD	28AUG14	REV.	
	CHECK	PG	28AUG14		
REVIEW					
				FIGURE 16	

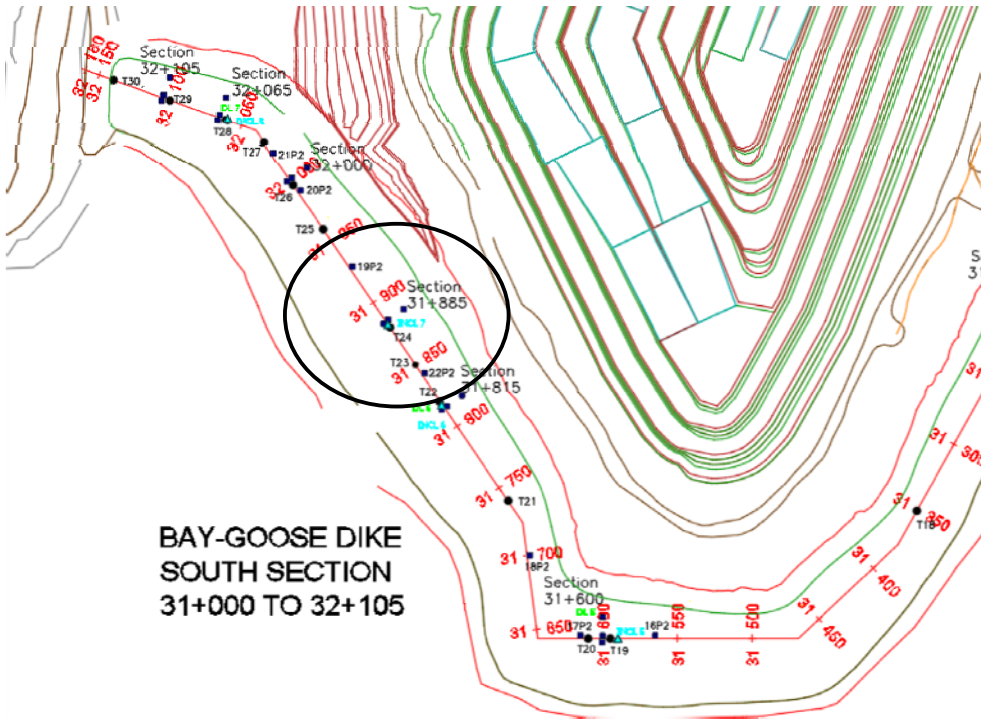
STATION 31+885



▼ TOTAL HEAD (m) ON August 1, 2018

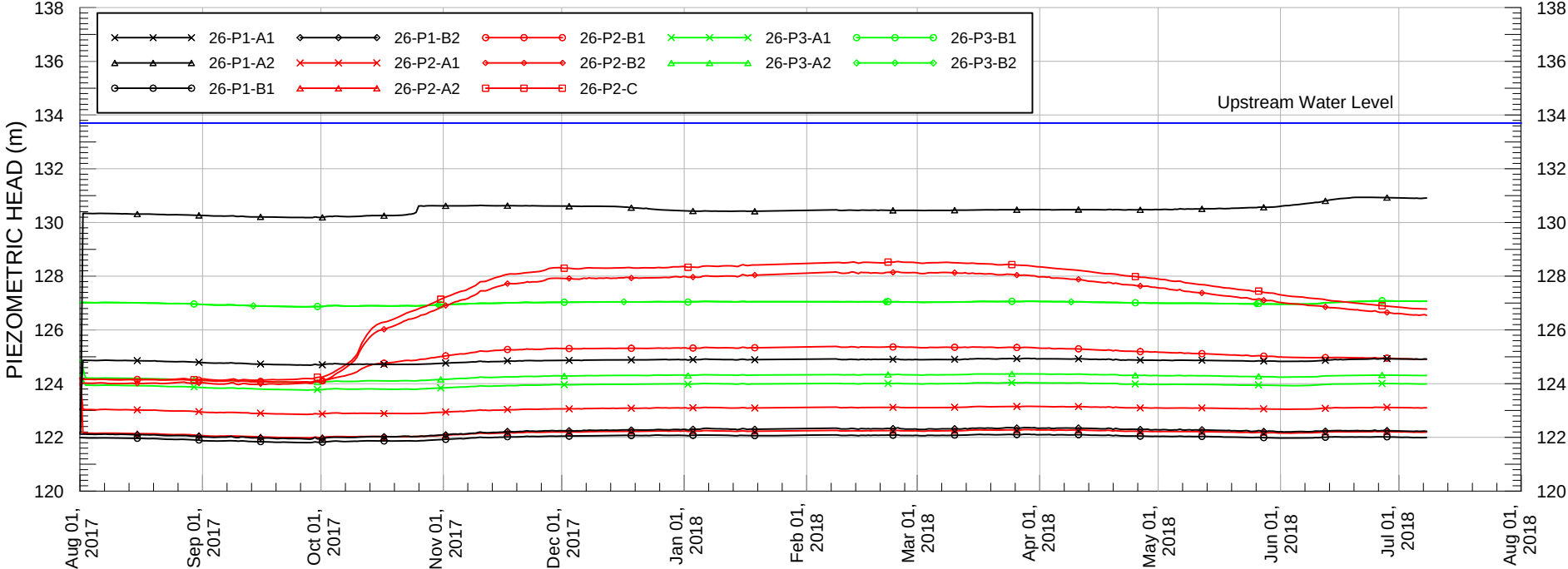
LEGEND

- CUTOFF (CSB)
- CUTOFF (SB)
- INITIAL ROCKFILL
- LAKEBED
- BEDROCK
- JET GROUT
- GROUT
- ① CORE BACKFILL (19 mm MINUS)
- ② COARSE BACKFILL (15mm MINUS)
- ③ ROCKFILL
- ④ FINE ROCKFILL

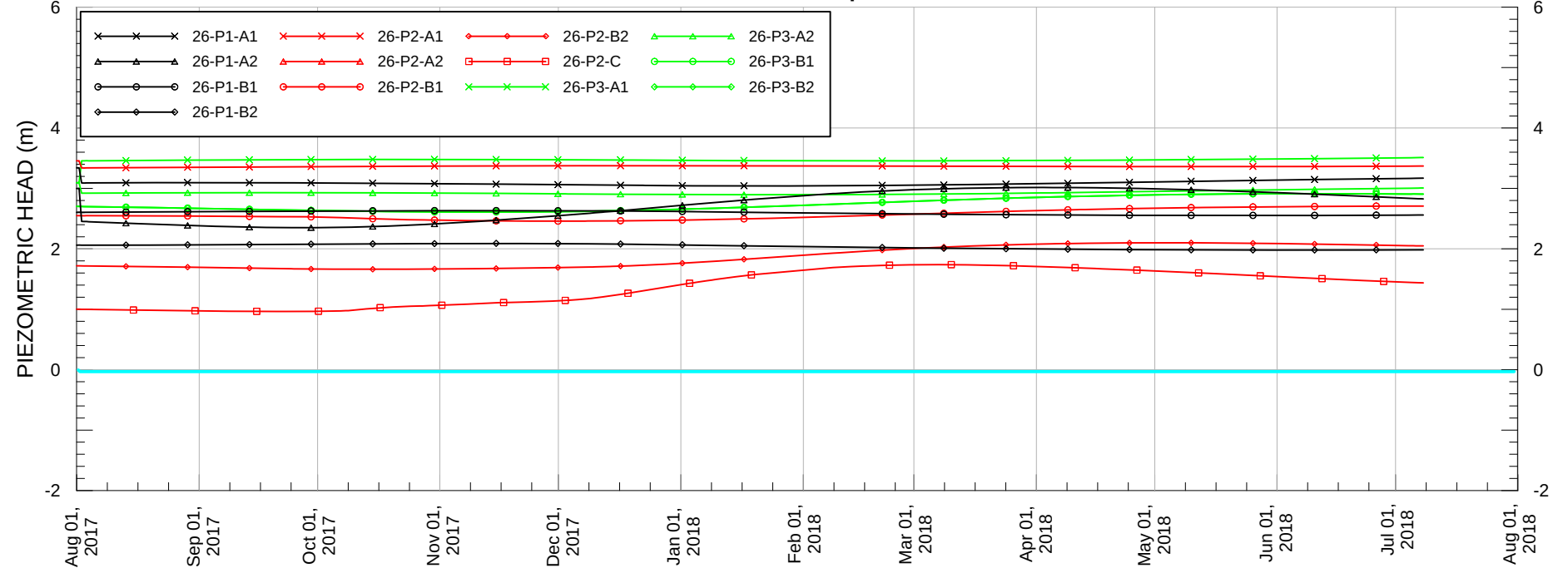


BAY-GOOSE DIKE
SOUTH SECTION
31+000 TO 32+105

VW Piezometer - Total Head



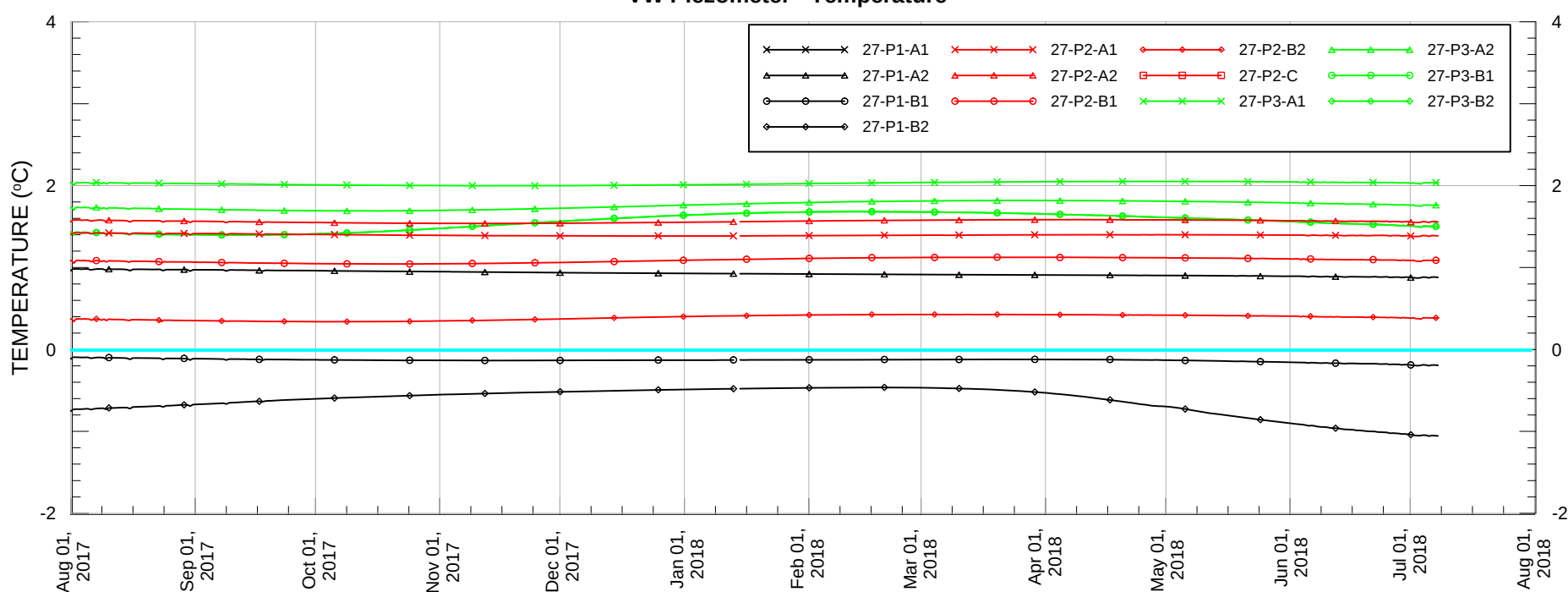
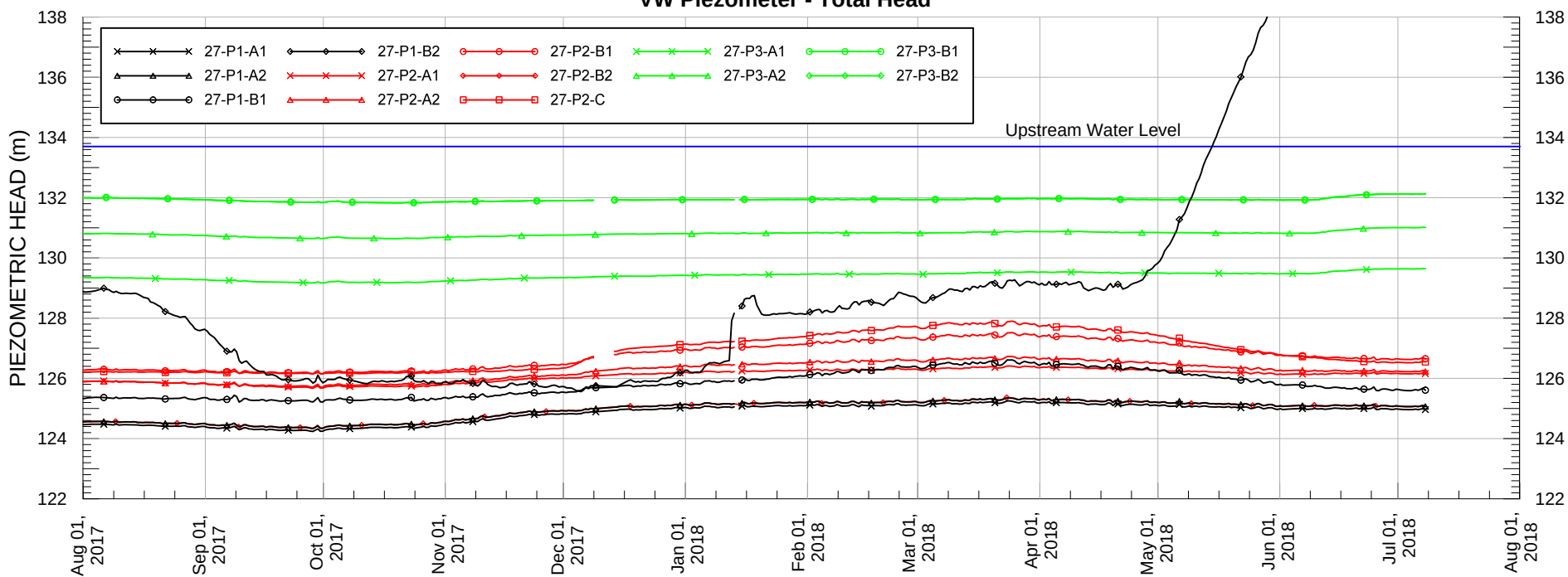
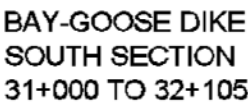
VW Piezometer - Temperature



NOTES:

- The rise in temperature and PWP was interpreted as the permafrost at the toe of the dike blocking the seepage path which led to this events. Will continue to monitor in the field and the instruments. Now that ice has melted the PWP has decreased as the seepage path is no longer blocked.
- There is a signal loss since March 7/18 which is due to the snow accumulating on the Goose Waste Dump pile. Signal since snow melt has resumed.

PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE		BAYGOOSE DIKE - SECTION 31+885 PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
 AGNICO EAGLE MEADOWBANK	PROJECT No.			PHASE No.	
	DESIGN	TD	28AUG14	SCALE	AS SHOWN
	CADD	TD	28AUG14	REV.	
	CHECK	PG	28AUG14	FIGURE 18	
	REVIEW				



NOTES:

1. There is a signal loss since March 7/18 which is due to the snow accumulating on the Goose Waste Dump pile. Since the snow melt the signal has returned.
2. With the spike PWP pressure in 27-P1-B2 it is assumed that this instrument is not functioning anymore as the PWP pressure is higher than the lake elevation.

PROJECT

**AGNICO EAGLE MINES LIMITED
MEADOWBANK GOLD PROJECT
NUNAVUT**

TITLE

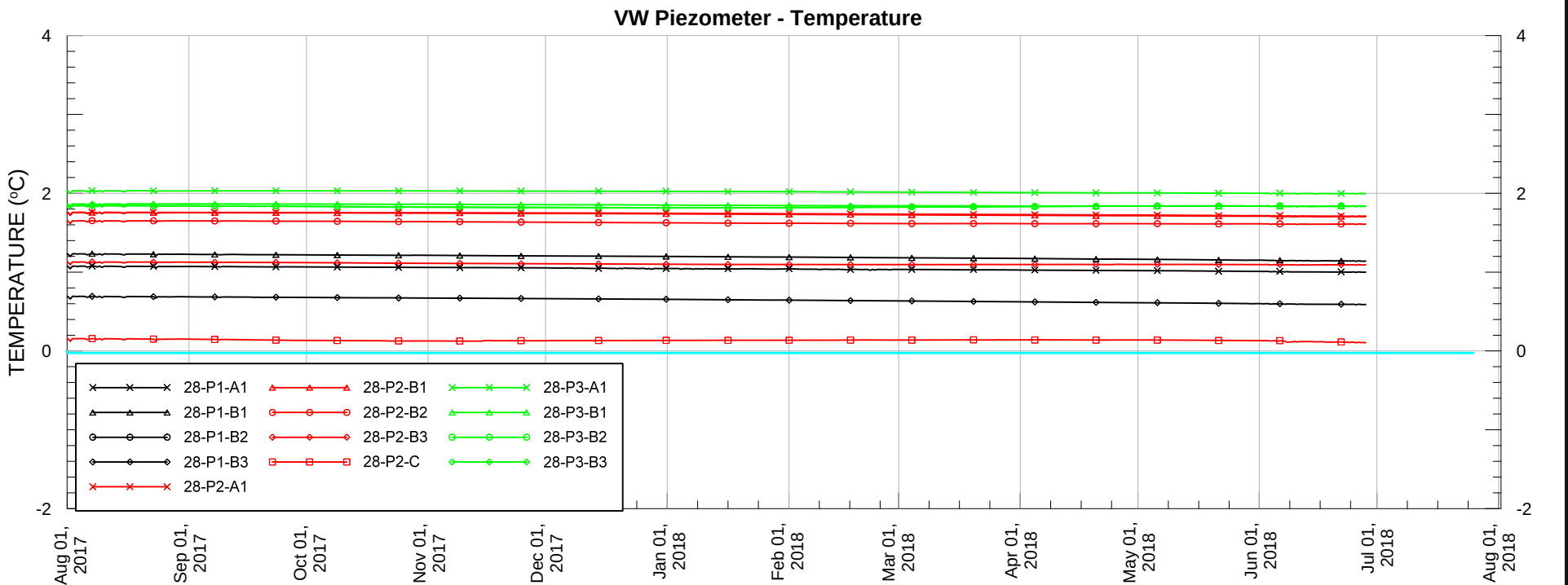
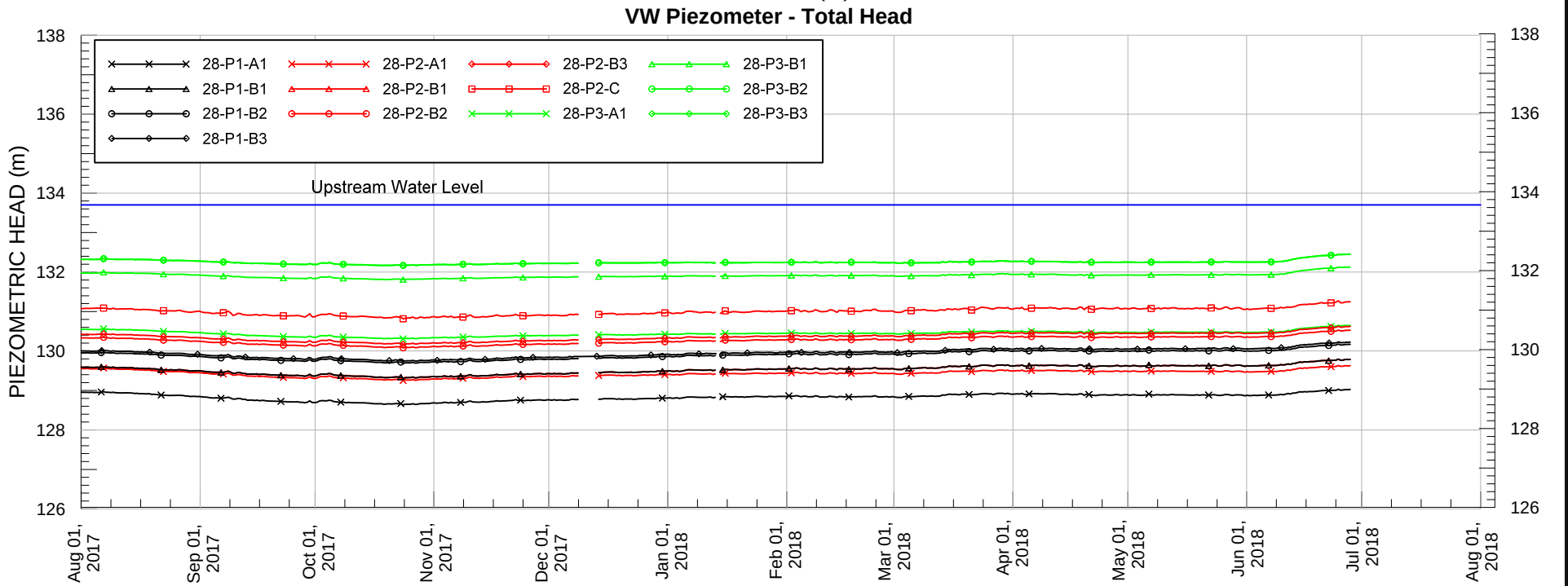
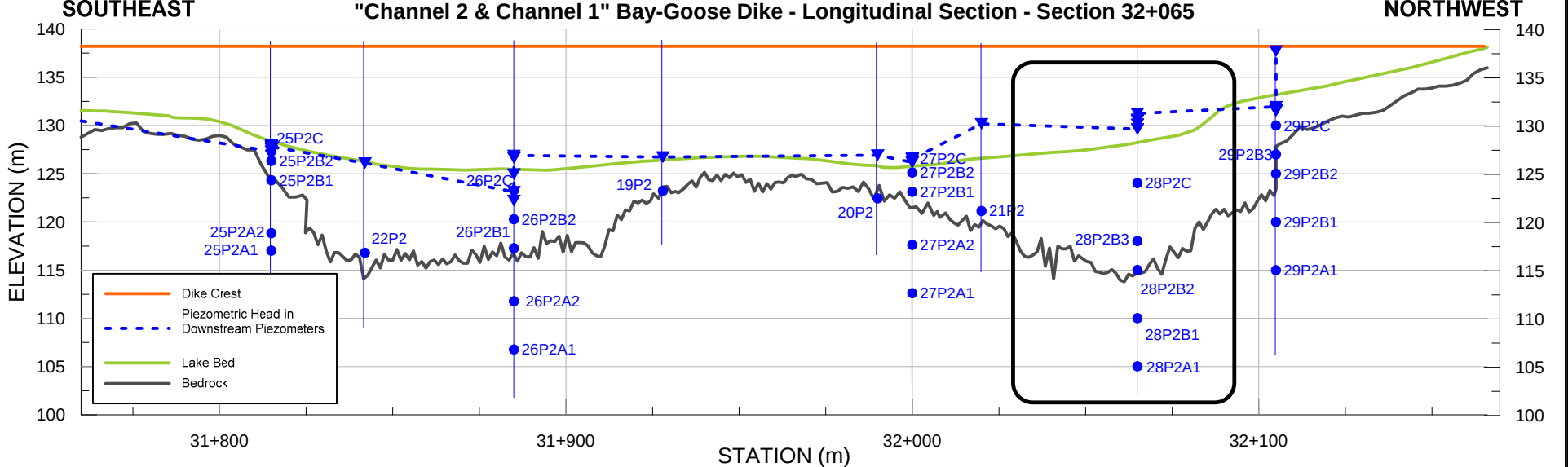
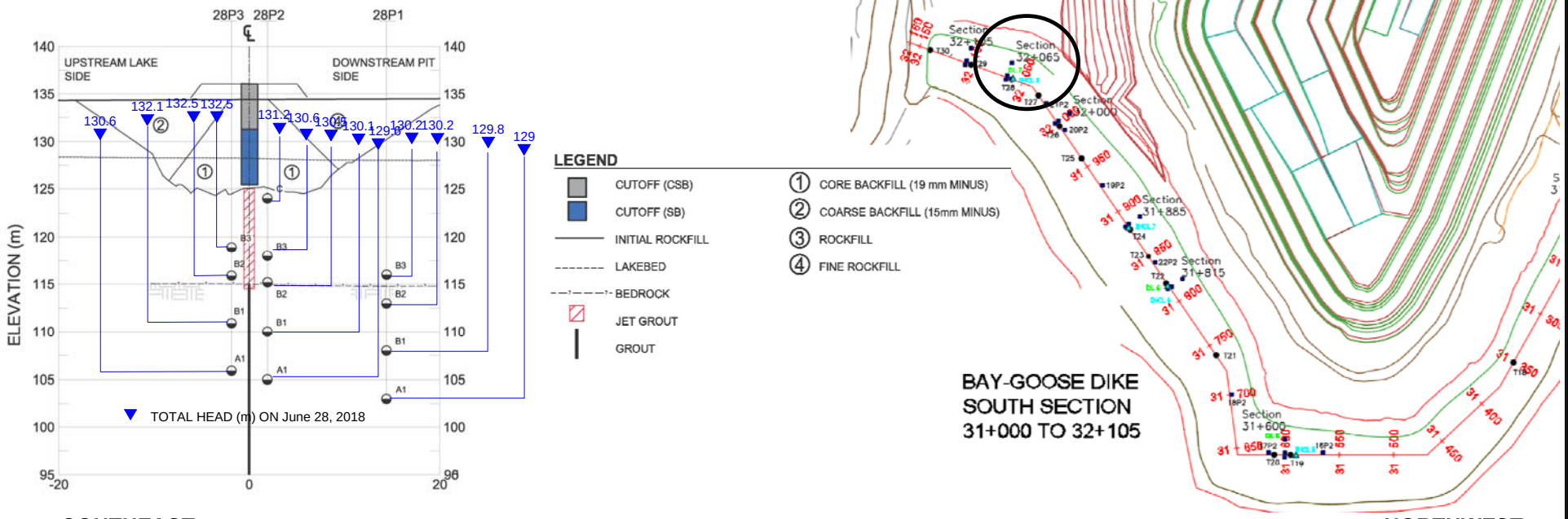
BAY OOSE DIKE - SECTION 32+000
PIEZOMETRIC DATA
(Aug 1/17 to Aug 1/18)



PROJECT No.			PHASE No.	
DESIGN	TD	28AUG14	SCALE	AS SHOWN
CADD	TD	28AUG14	REV.	
CHECK	PG	28AUG14	FIGURE 20	
REVIEW				

FIGURE 20

"Channel 2 & Channel 1" Bay-Goose Dike - Section 32+065 (DL7)

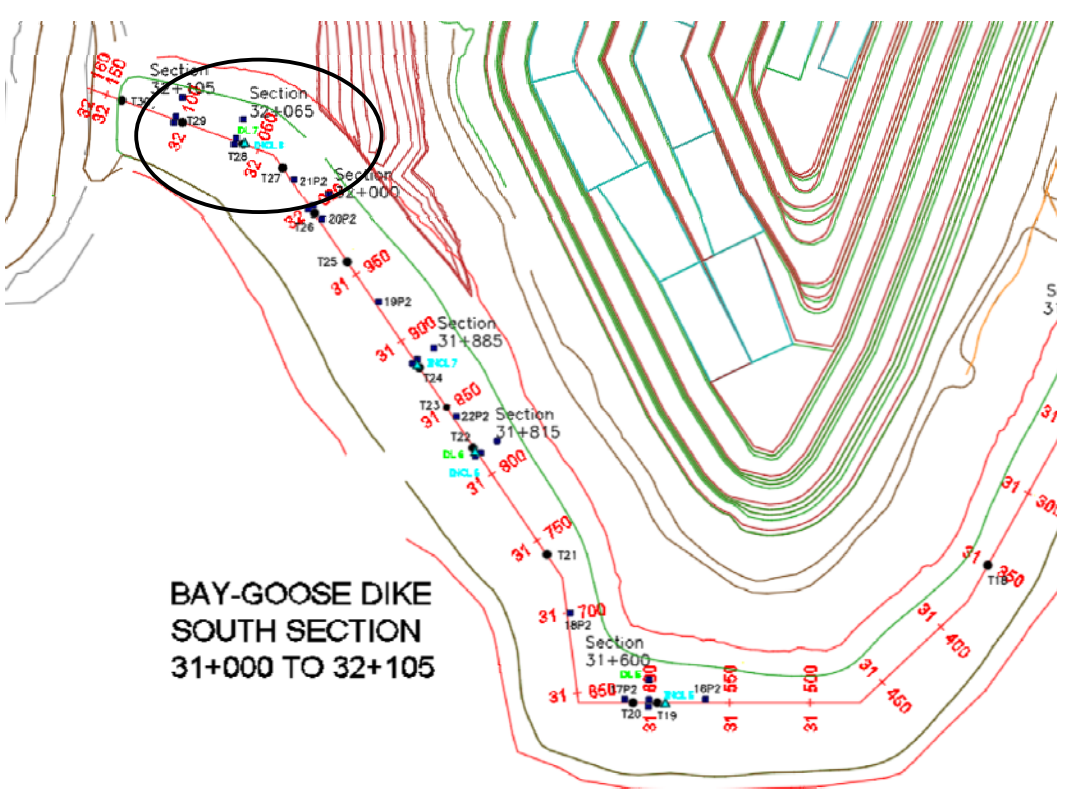
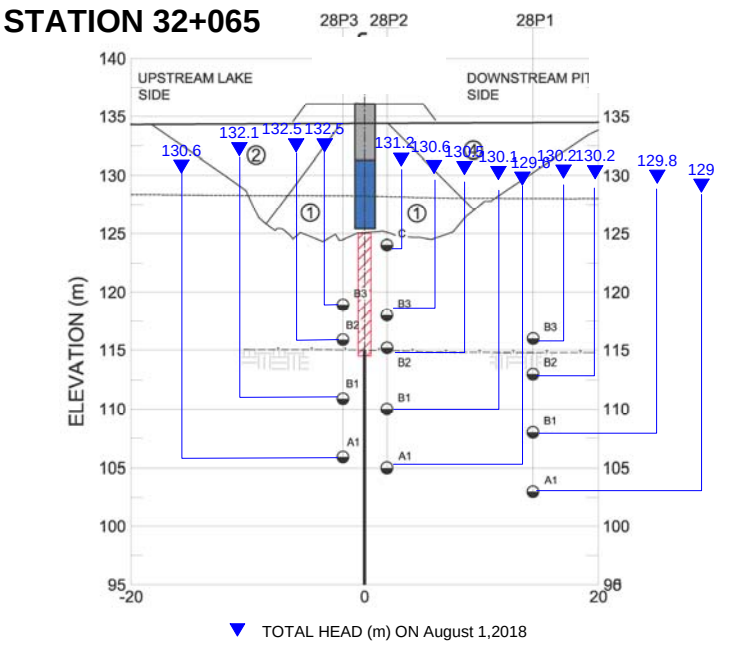


NOTES:

1. There are some anomaly readings from Dec. 10 to Dec. 11 which is due to low battery, which was changed.
2. There is a signal loss since March 7/18 which is due to the snow accumulating on the Goose Waste Dump pile. Since the snow melt the signal has returned.
3. Gap in data in December and January is due to low battery. Battery was changed the following day after.

PROJECT				AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE				BAYGOOSE DIKE Section 32+065 - CHANNEL 1, PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
PROJECT No.		28AUG14		PHASE No.		SCALE AS SHOWN	
DESIGN	TD	28AUG14		CADD	TD	28AUG14	
CHECK	PG	28AUG14		REVIEW			
AGNICO EAGLE MEADOWBANK				FIGURE 21			

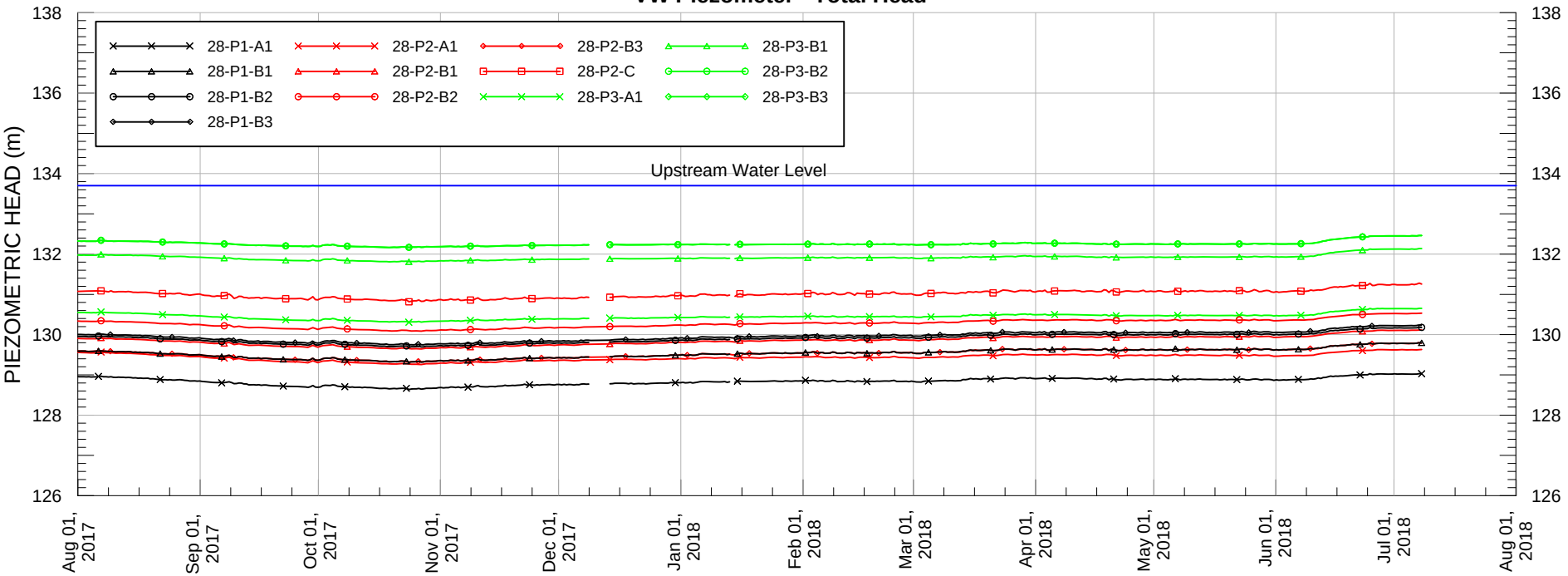
STATION 32+065



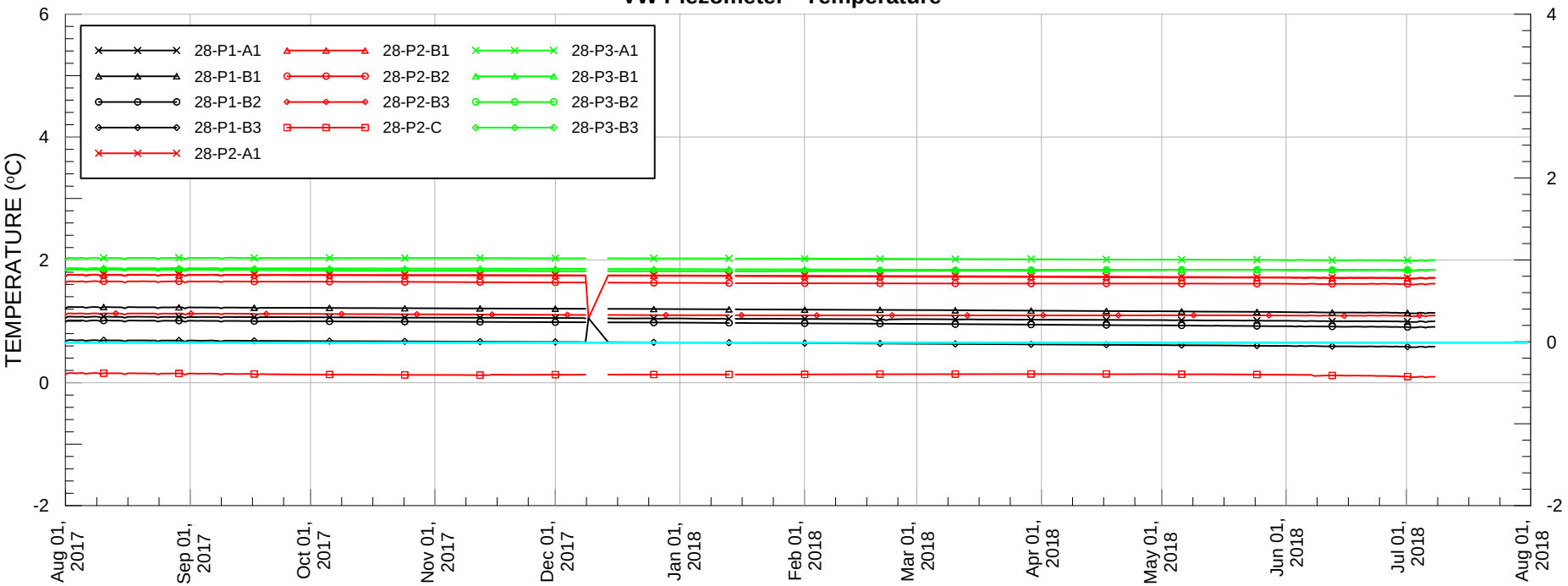
LEGEND

- CUTOFF (CSB)
- CUTOFF (SB)
- INITIAL ROCKFILL
- LAKEBED
- BEDROCK
- JET GROUT
- GROUT
- CORE BACKFILL (19 mm MINUS)
- COARSE BACKFILL (15mm MINUS)
- ROCKFILL
- FINE ROCKFILL

VW Piezometer - Total Head



VW Piezometer - Temperature

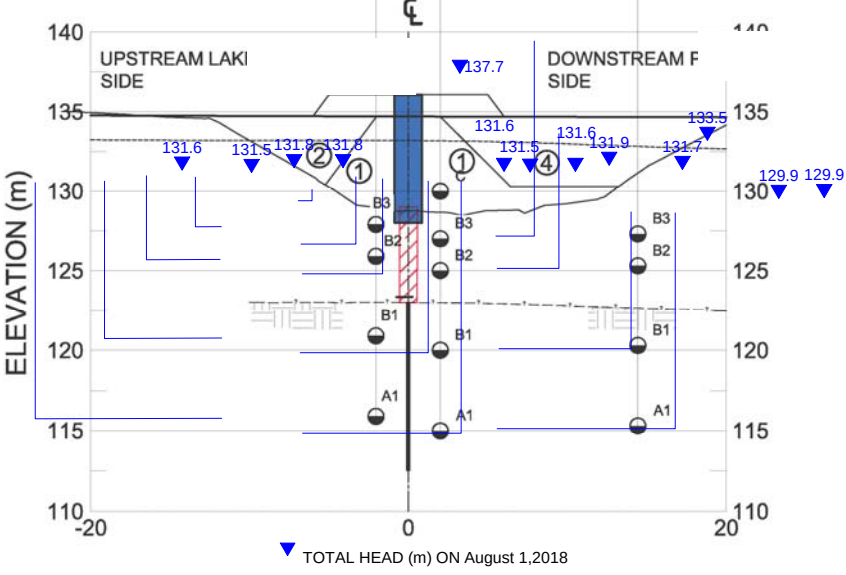


NOTES:

- There is a signal loss since March 7/18 which is due to the snow accumulating on the Goose Waste Dump pile. Since the snow melt the signal has returned.
- With the spike PWP pressure in 27-P3-A2 it is assumed that this instrument is not functioning anymore as the PWP pressure is higher than the lake elevation.
- Gap in data in December and January is due to low battery. Battery was changed the following day after.

PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE		BAYGOOSE DIKE - SECTION 32+065 PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
	PROJECT No.	28AUG14		PHASE No.	AS SHOWN
	DESIGN	ID	28AUG14	SCALE	REV.
	CADD	ID	28AUG14	FIGURE 22	
	CHECK	PG	28AUG14		

STATION 32+105

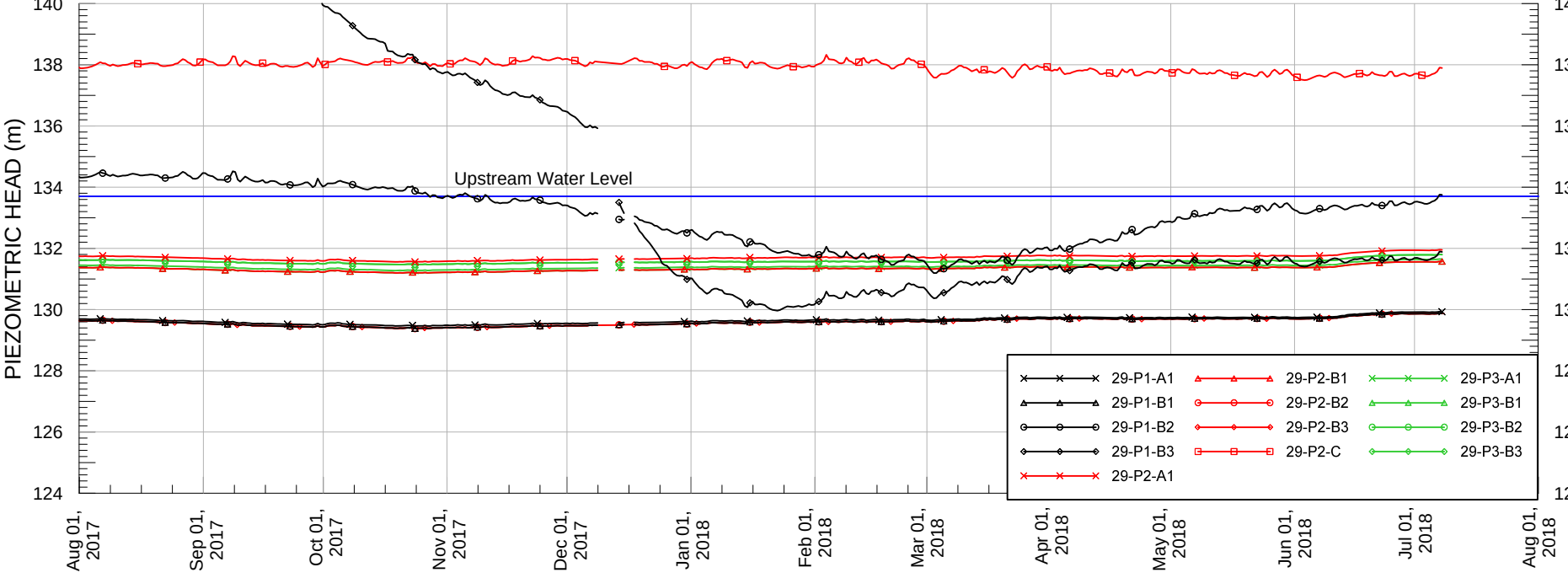


LEGEND

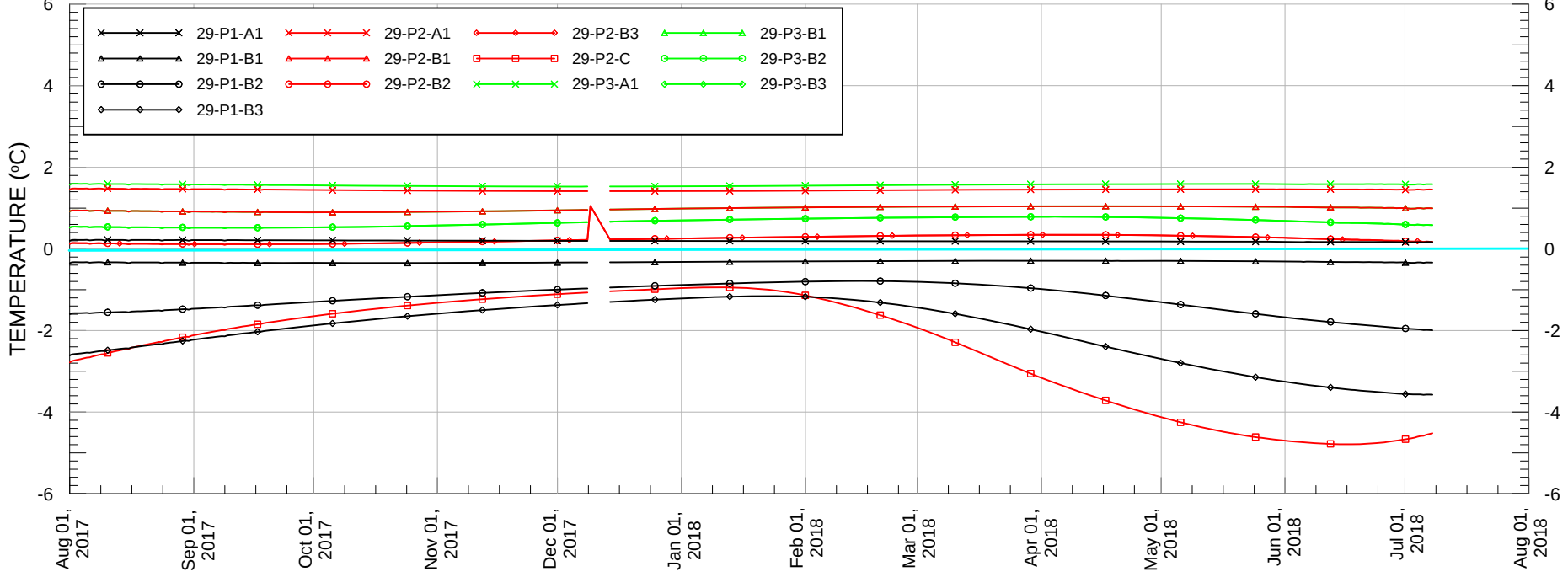
- CUTOFF (CSB)
- CUTOFF (SB)
- INITIAL ROCKFILL
- LAKEBED
- BEDROCK
- JET GROUT
- GROUT
- ① CORE BACKFILL (19 mm MINUS)
- ② COARSE BACKFILL (15mm MINUS)
- ③ ROCKFILL
- ④ FINE ROCKFILL

BAY-GOOSE DIKE SOUTH SECTION 31+000 TO 32+105

VW Piezometer - Total Head



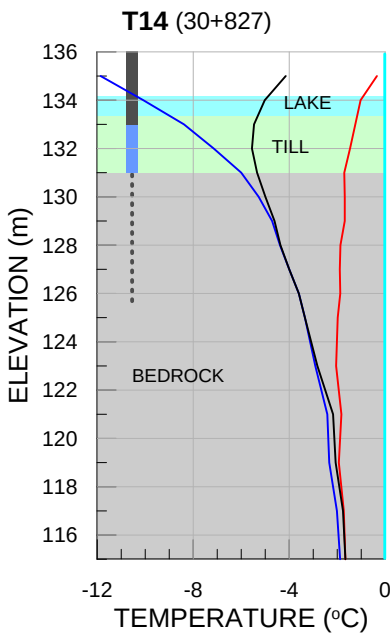
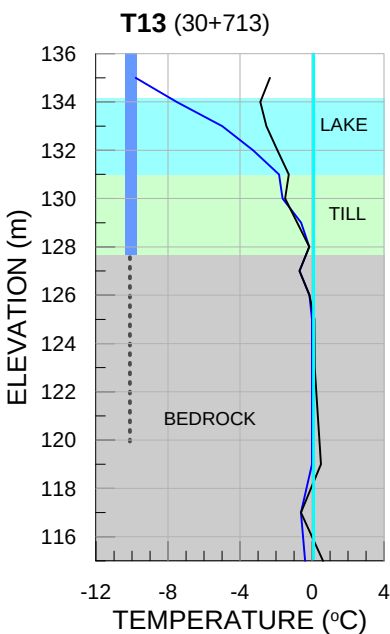
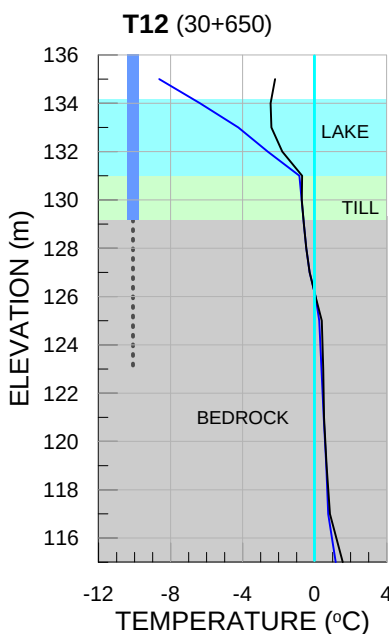
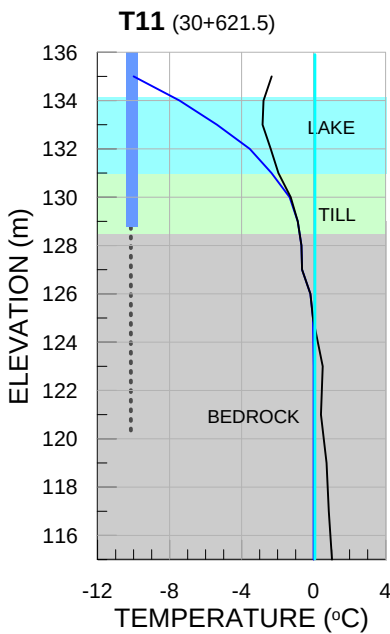
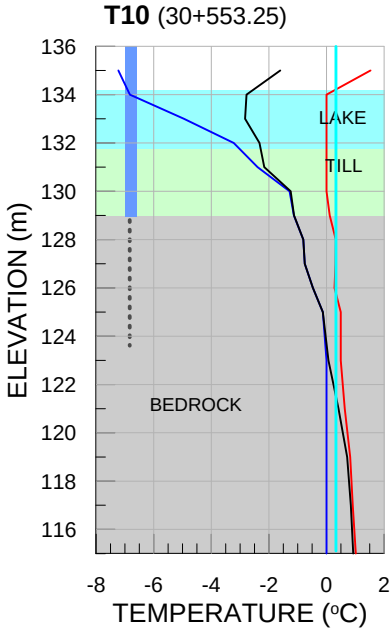
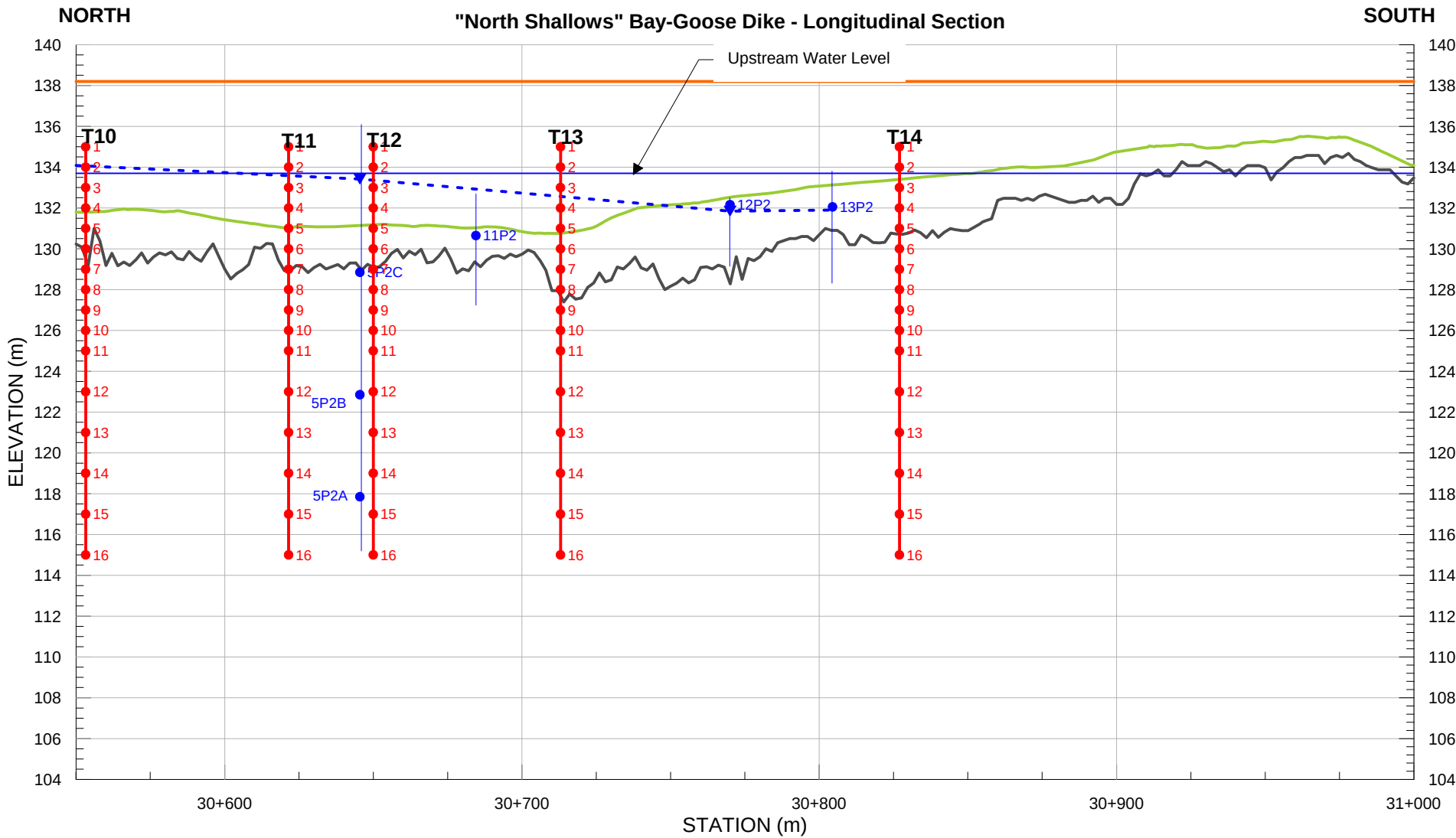
VW Piezometer - Temperature



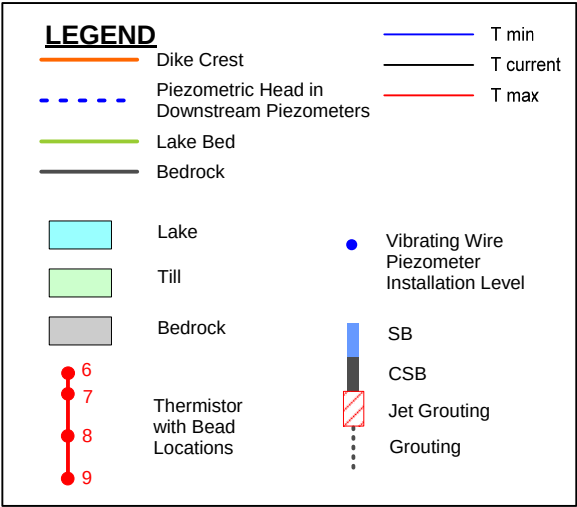
NOTES:

- 29P1B2, 29P1B3, 29P2B3, 29P3B3 and 29P2C are given unstable readings and since the temperature shows a negative reading it is assumed to be frozen.
- There is a signal loss since March 7/18 which is due to the snow accumulating on the Goose Waste Dump pile. Since the snow melt the signal has returned.
- Gap in data in December is due to low battery. Battery was changed the following day after.

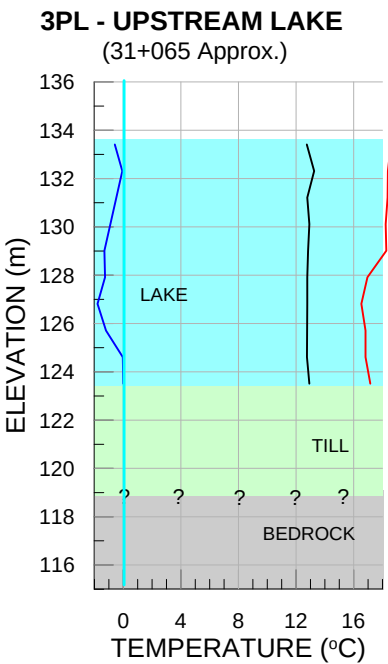
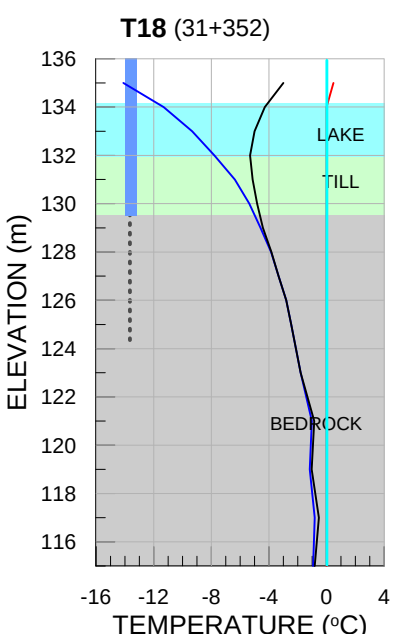
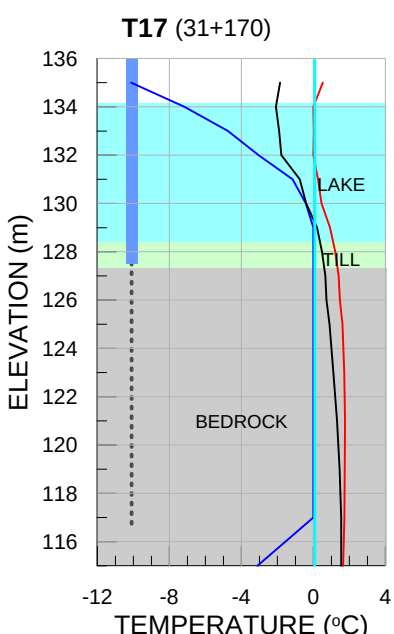
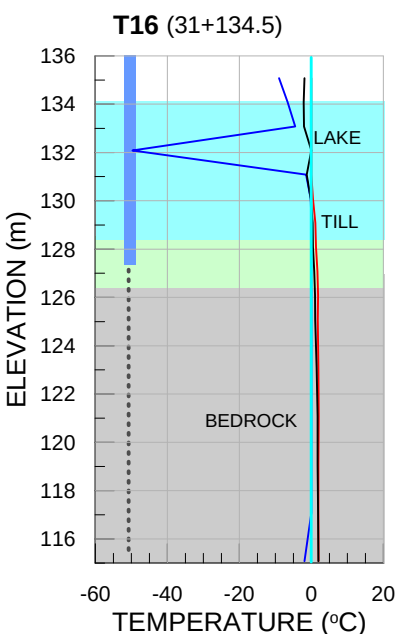
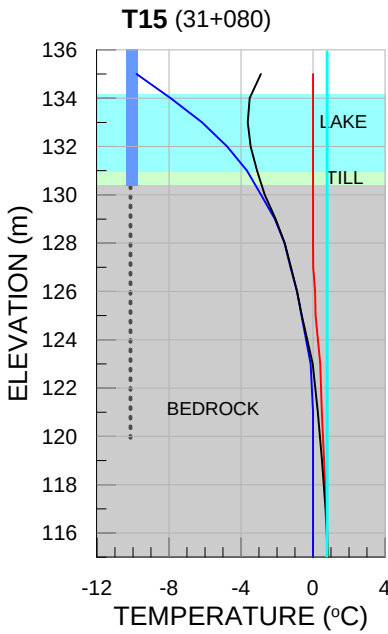
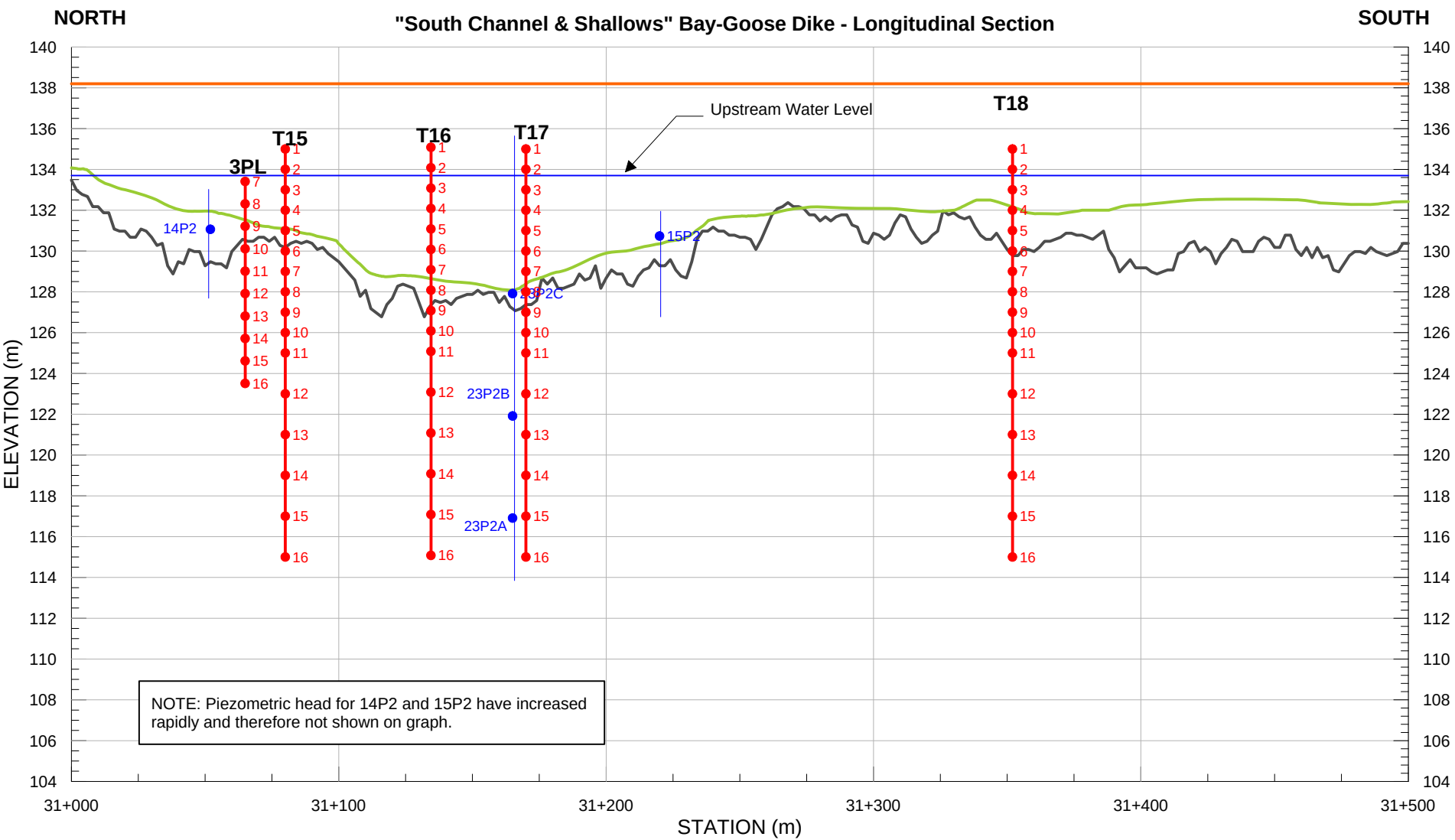
PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE	BAYGOOSE DIKE - SECTION 32+105 PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
	PROJECT No.	28AUG14		PHASE No.
	DESIGN	TD	28AUG14	SCALE AS SHOWN
	CADD	TD	28AUG14	REV.
	CHECK	PG	28AUG14	FIGURE 24
REVIEW				



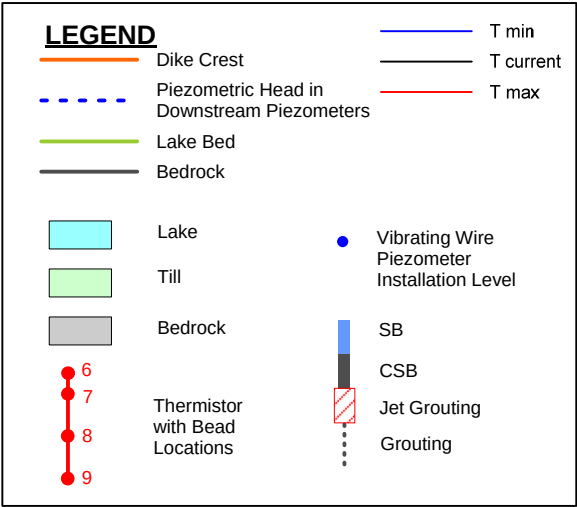
Current Temperature On August 1, 2018



PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE	BAYGOOSE DIKE 30+550 to 31+000 - TEMPERATURE DATA (Aug 1/17 to Aug 1/18)				
	PROJECT No.		PHASE No.		
	DESIGN	TD	20JAN14	SCALE	AS SHOWN
	CADD	TD	20JAN14	REV.	
	CHECK			FIGURE 26	
REVIEW					

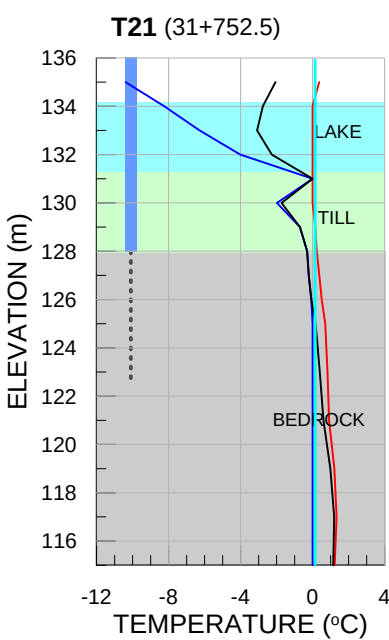
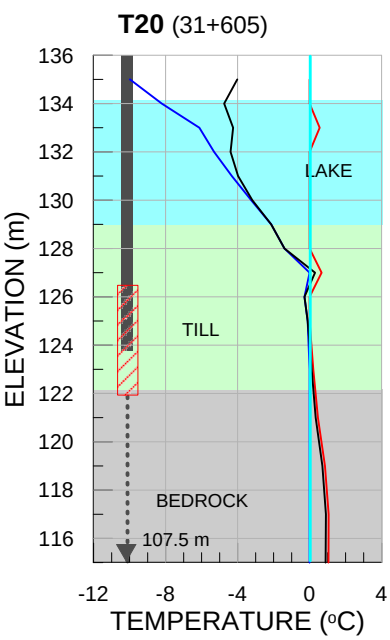
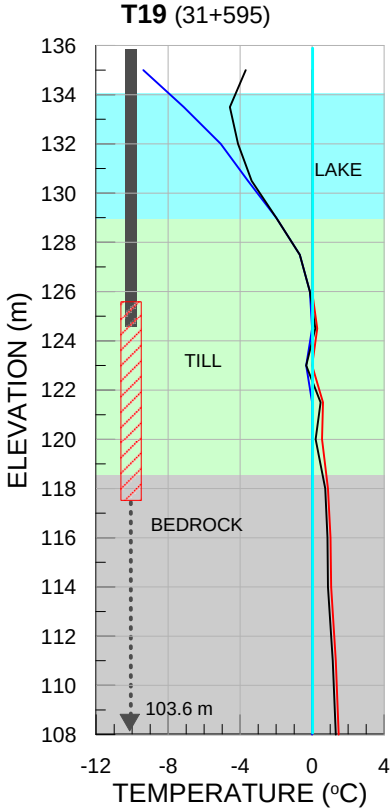
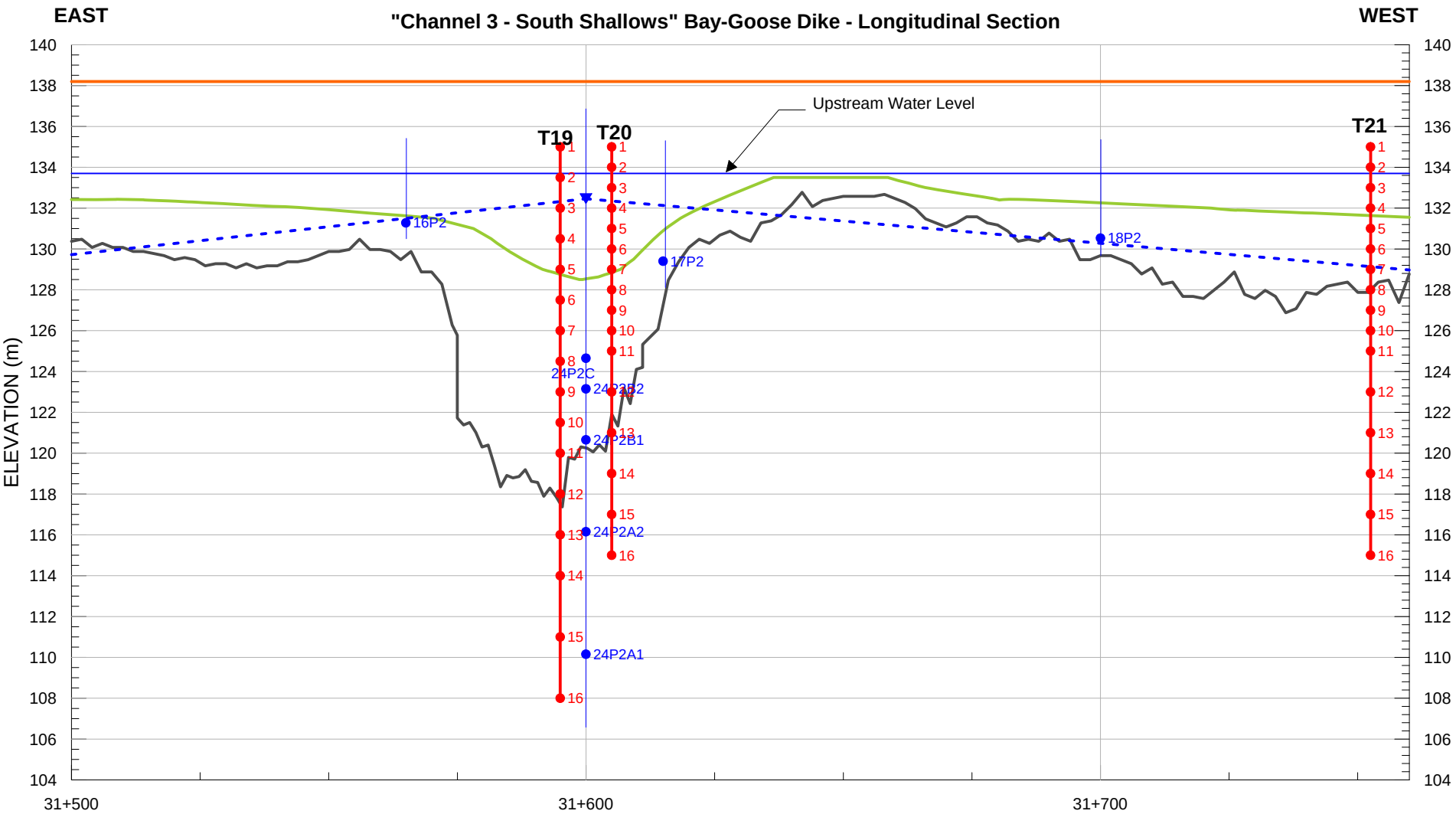


Current Temperature On August 1, 2018



NOTES:
1. Thermistor 3PL is installed upstream of the dike within Third Portage Lake.

PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE		BAYGOOSE DIKE 31+000 to 31+500 - TEMPERATURE DATA (Aug 1/17 to Aug 1/18)			
		PROJECT No.		PHASE No.	
		DESIGN	TD	20JAN14	SCALE AS SHOWN
		CADD	TD	20JAN14	REV.
		CHECK			
		REVIEW			
		FIGURE 27			

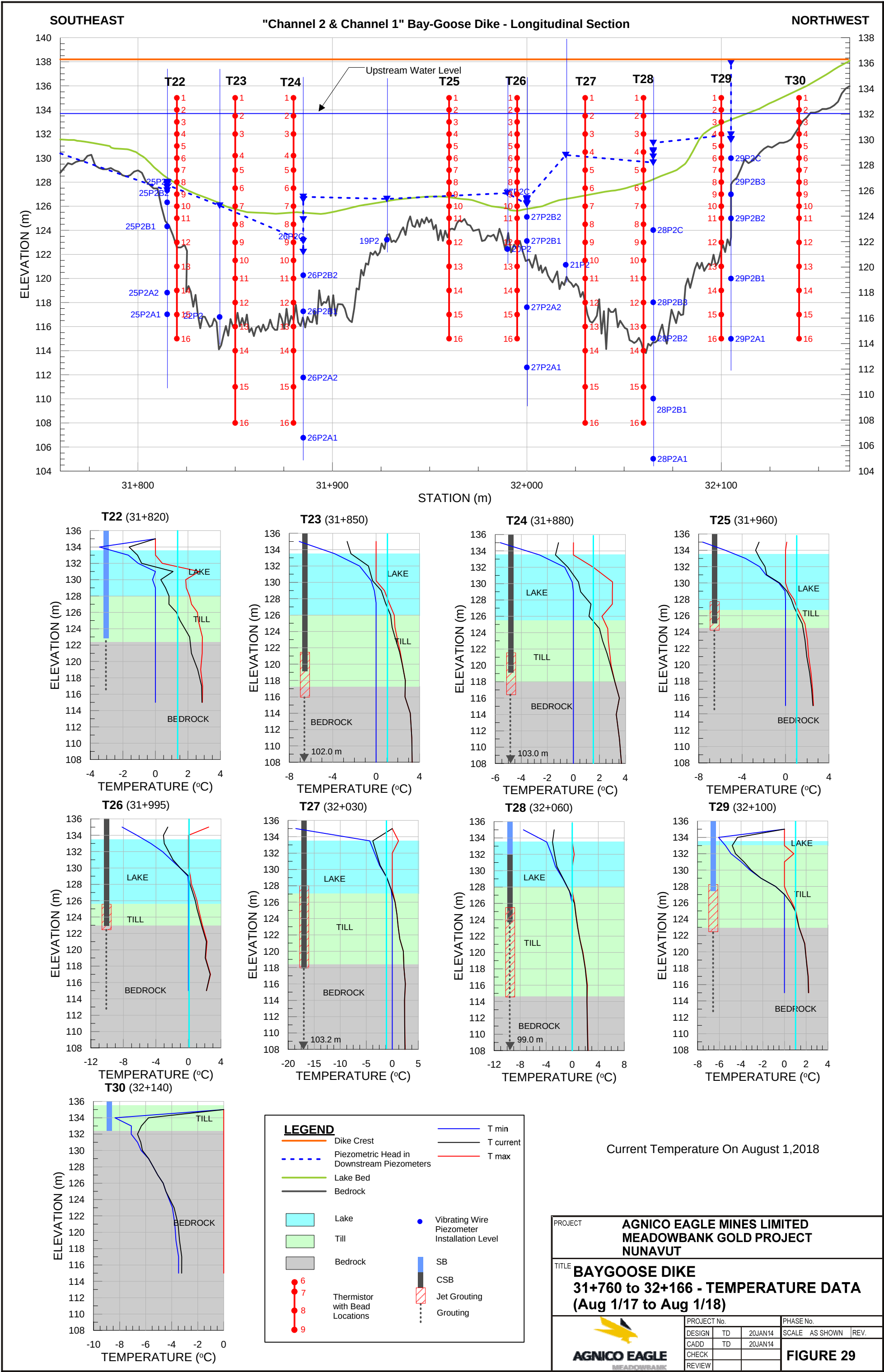


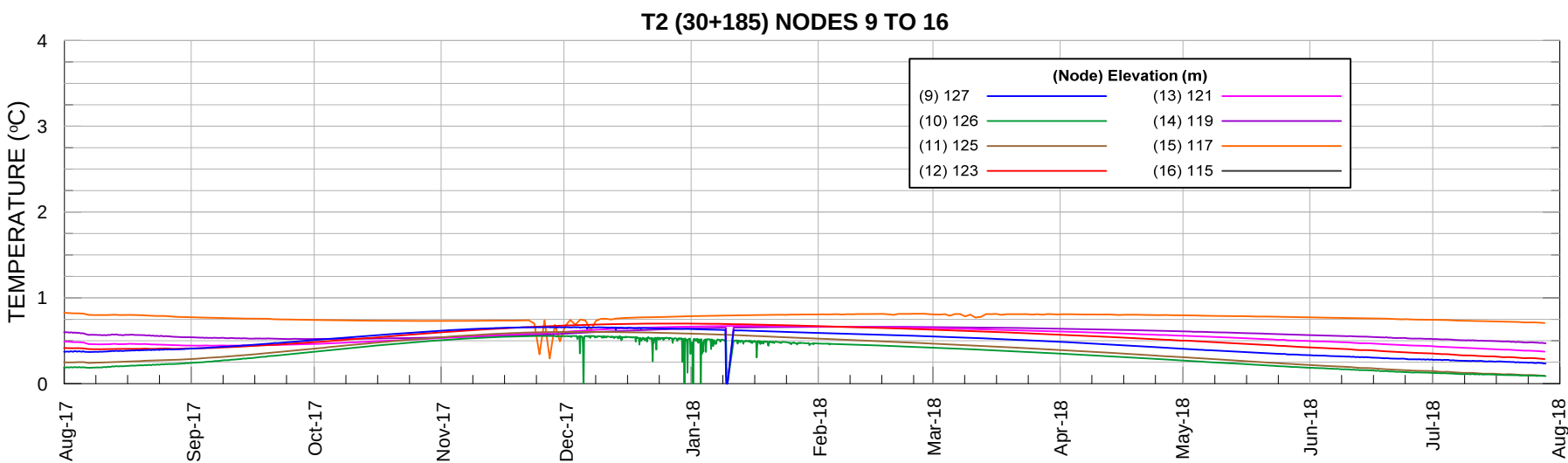
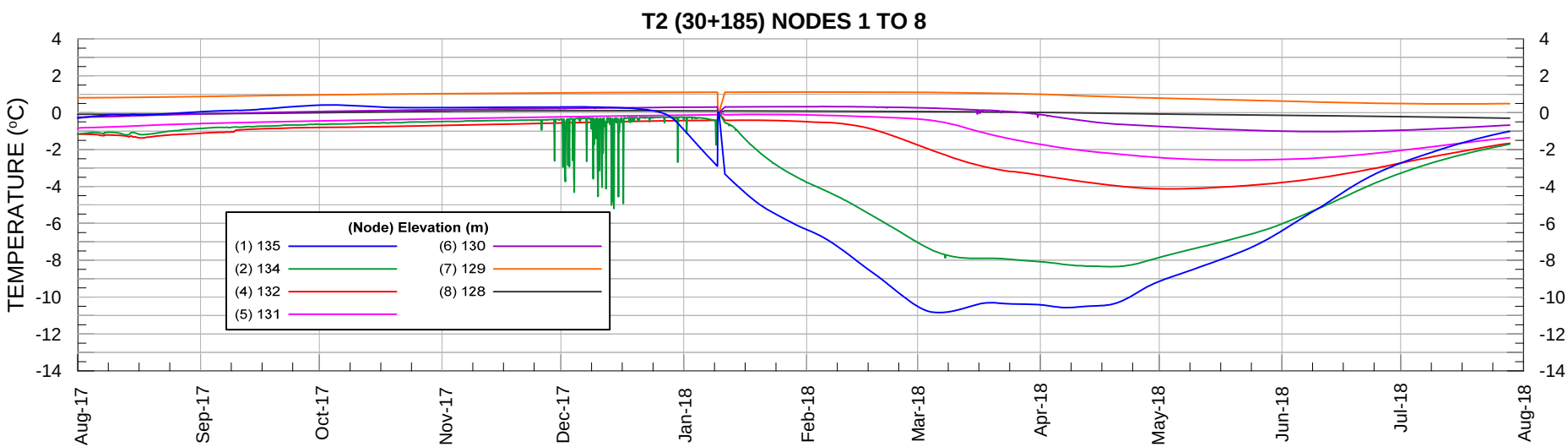
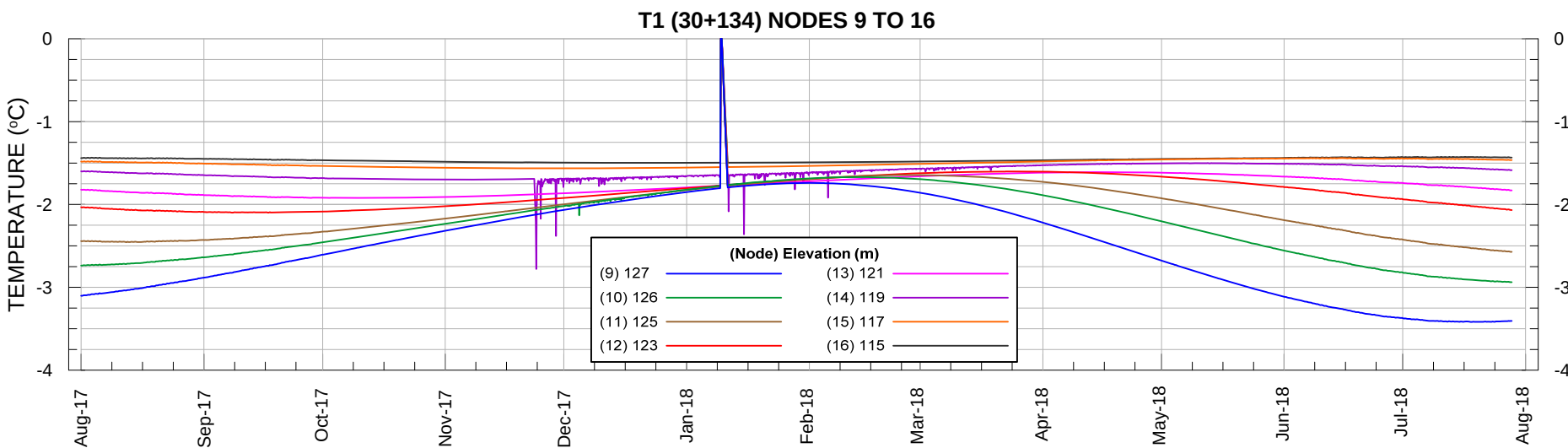
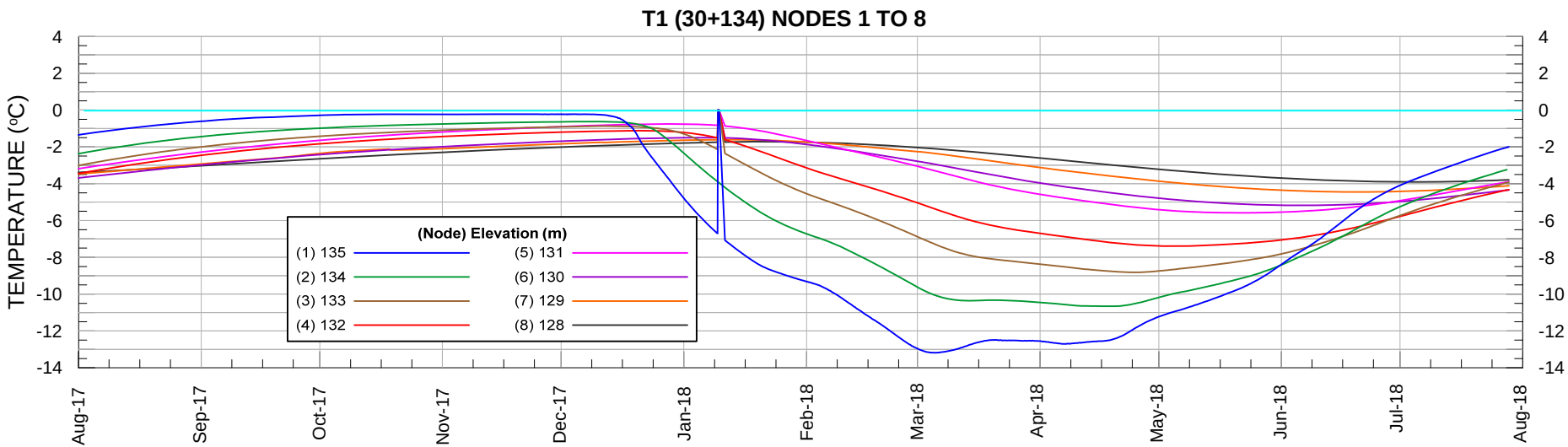
Current Temperature On August 1,2018

LEGEND

- Dike Crest
- Piezometric Head in Downstream Piezometers
- Lake Bed
- Bedrock
- LAKE
- TILL
- BEDROCK
- Thermistor with Bead Locations
- T min
- T current
- T max
- Vibrating Wire Piezometer Installation Level
- SB
- CSB
- Jet Grouting
- Grouting

PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT					
TITLE		BAYGOOSE DIKE 31+500 to 31+760 - TEMPERATURE DATA (Aug 1/17 to Aug 1/18)					
		PROJECT No.		PHASE No.			
		DESIGN	TD	20JAN14	SCALE	AS SHOWN	REV.
		CADD	TD	20JAN14	FIGURE 28		
		CHECK					
REVIEW							





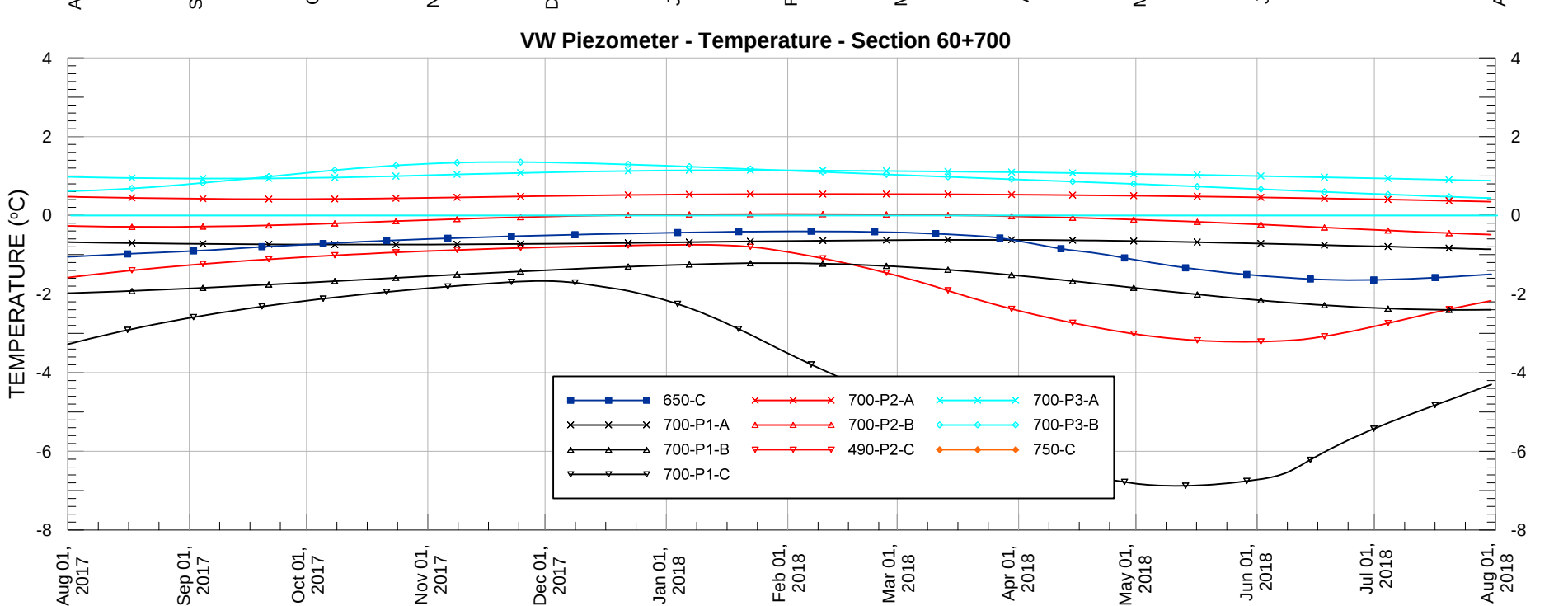
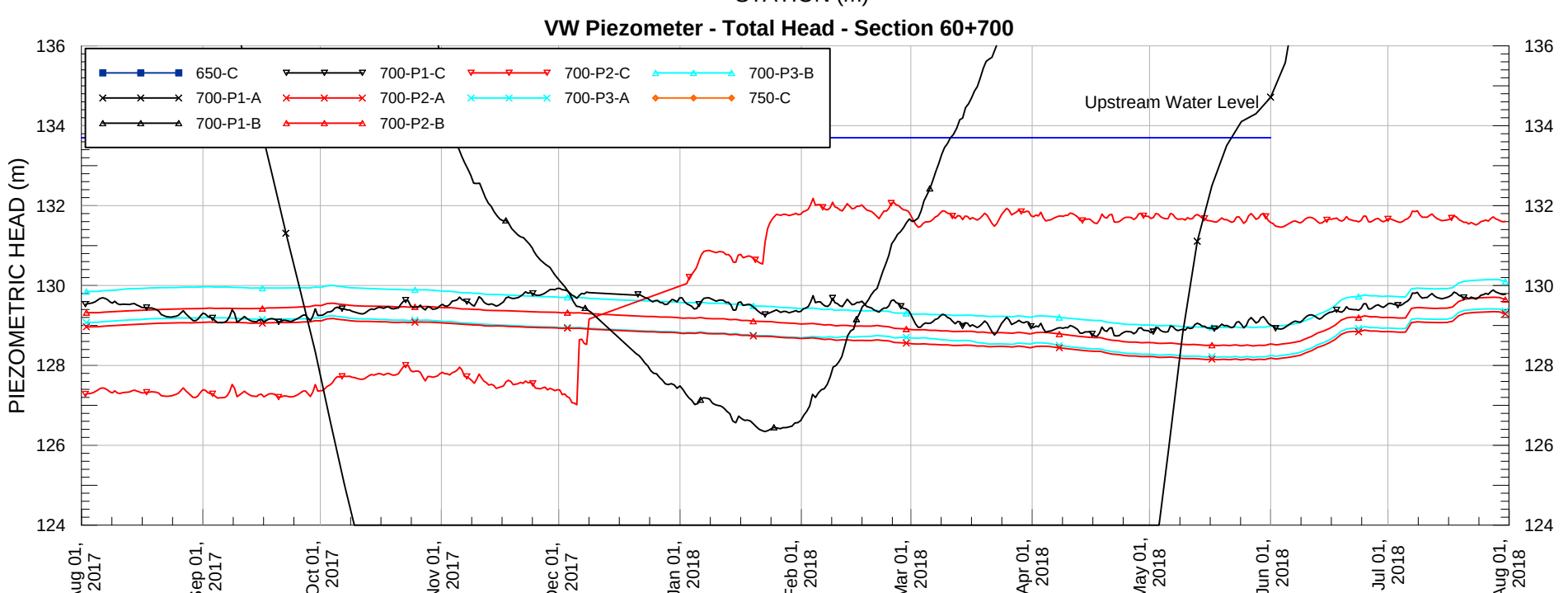
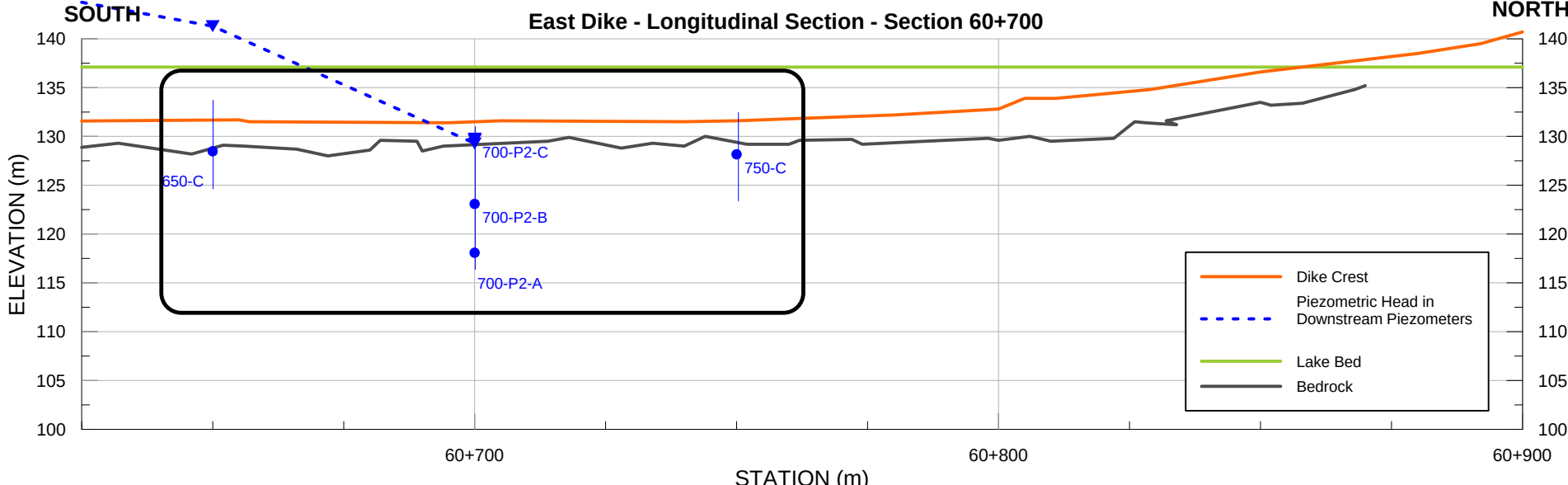
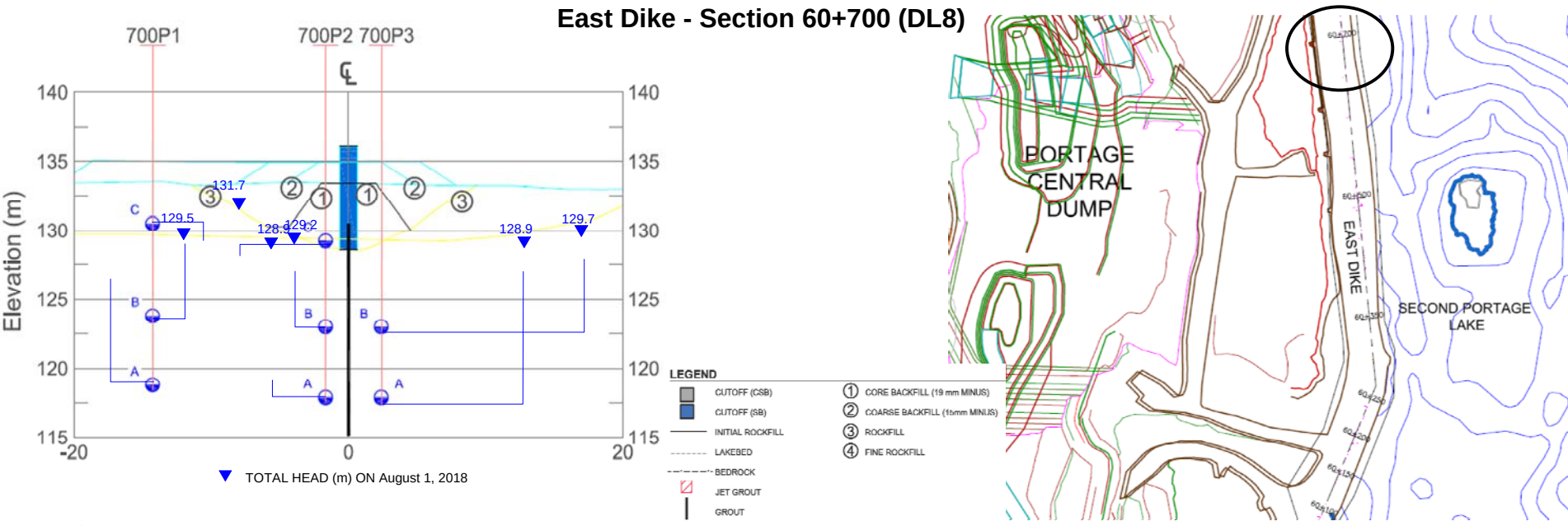
NOTES:

1. T1 (30+134) - values less than -0.5°C are not shown for Node 8 at elevation 128 m from June 24, 2011 to June 30, 2011 as these values are believed to be inaccurate.

2. Third node of thermistor T2 (elevation 135 m) is not functional.

3. T1 and T2 thermistors stopped transmitting data on June 10, 2015. Inspecting areas to determine a cause.

PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE	BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug 1/17 to Aug 1/18)				
	PROJECT No.			PHASE No.	
	DESIGN	TD	20JAN14	SCALE	AS SHOWN
	CADD	TD	20JAN14	FIGURE 30	
	CHECK				
	REVIEW				

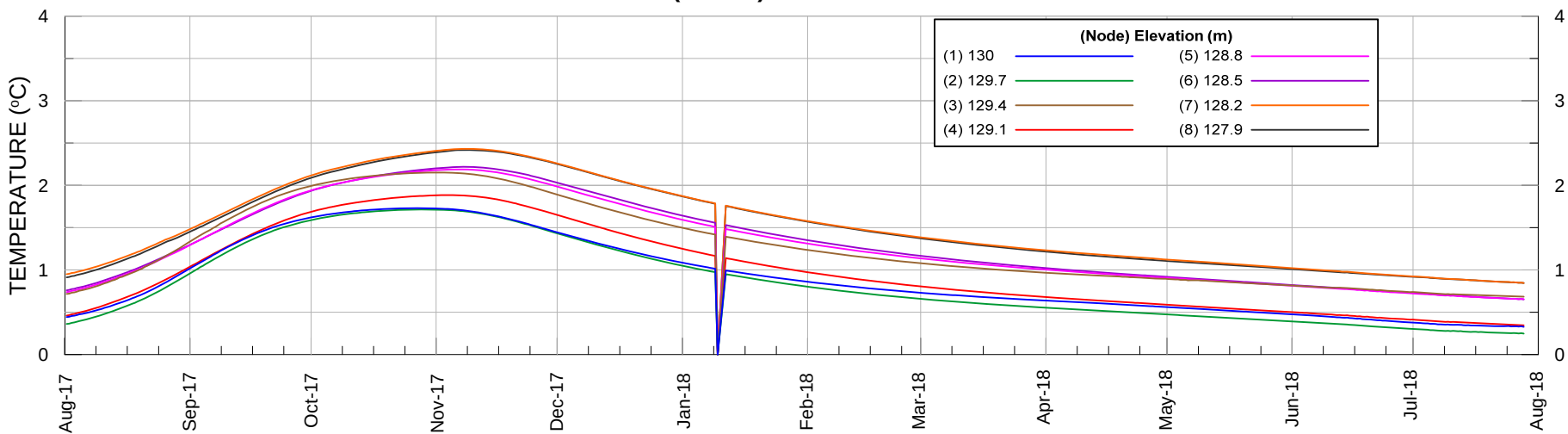


NOTES:

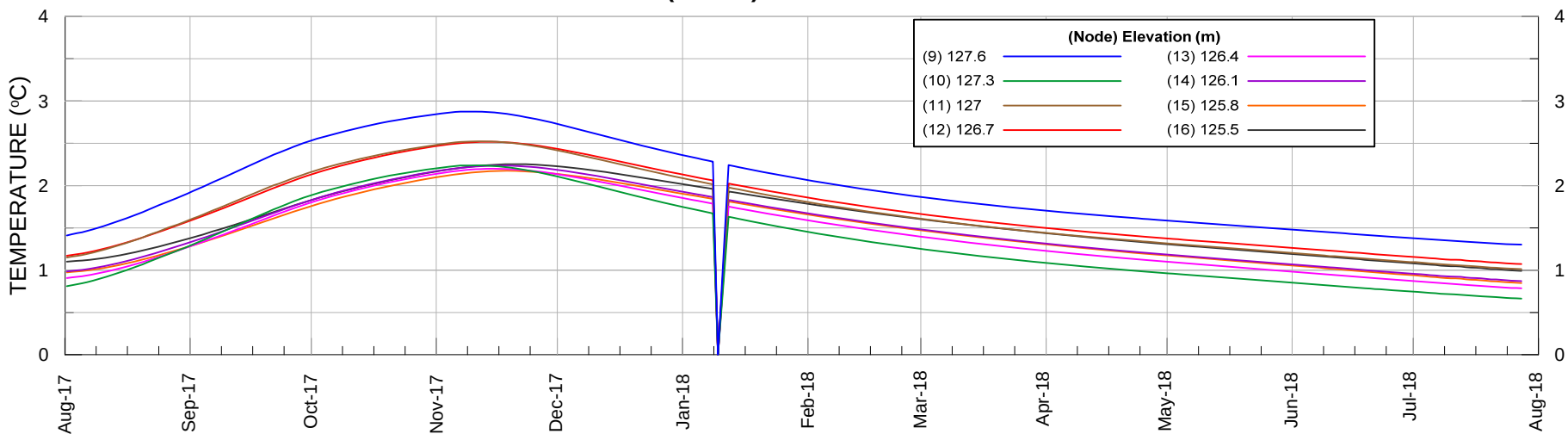
- 1: 700-P1-B and 750-C are giving anomaly readings and with a negative temperature are assumed to be frozen.
2. There was a rise in PWP in June. This was an unknown reason as there were no indications in the field.

PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE	EAST DIKE Section 60+700 - PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)				
	PROJECT No.		PHASE No.		
	DESIGN	TD	28AUG14	SCALE	AS SHOWN
	CADD	TD	28AUG14	FIGURE 31	
	CHECK	PG	28AUG14		
REVIEW					

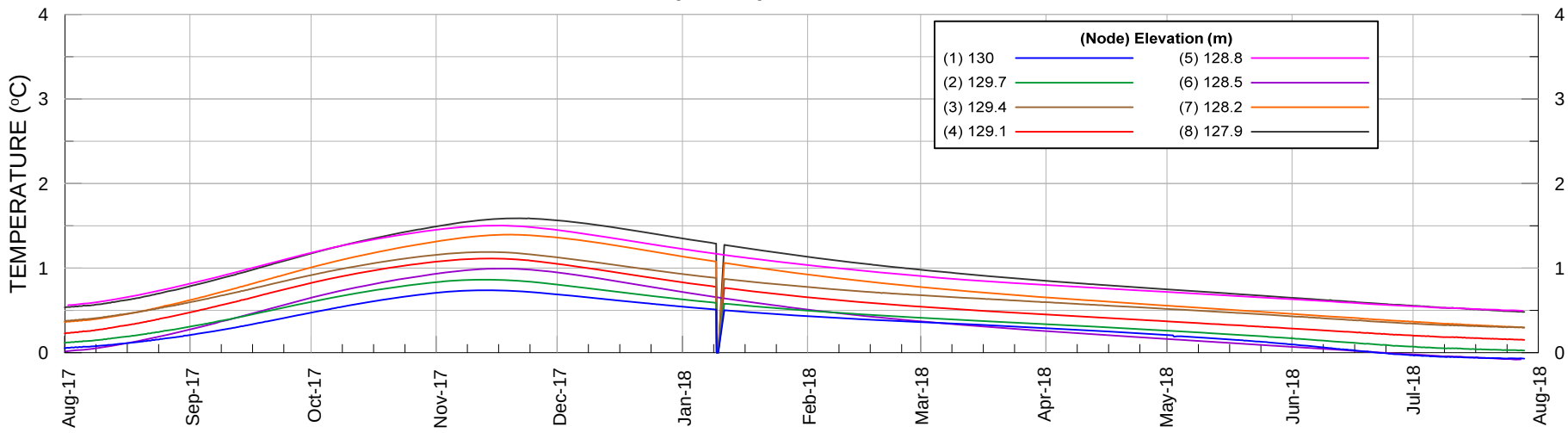
T3 (30+260) NODES 1 TO 8



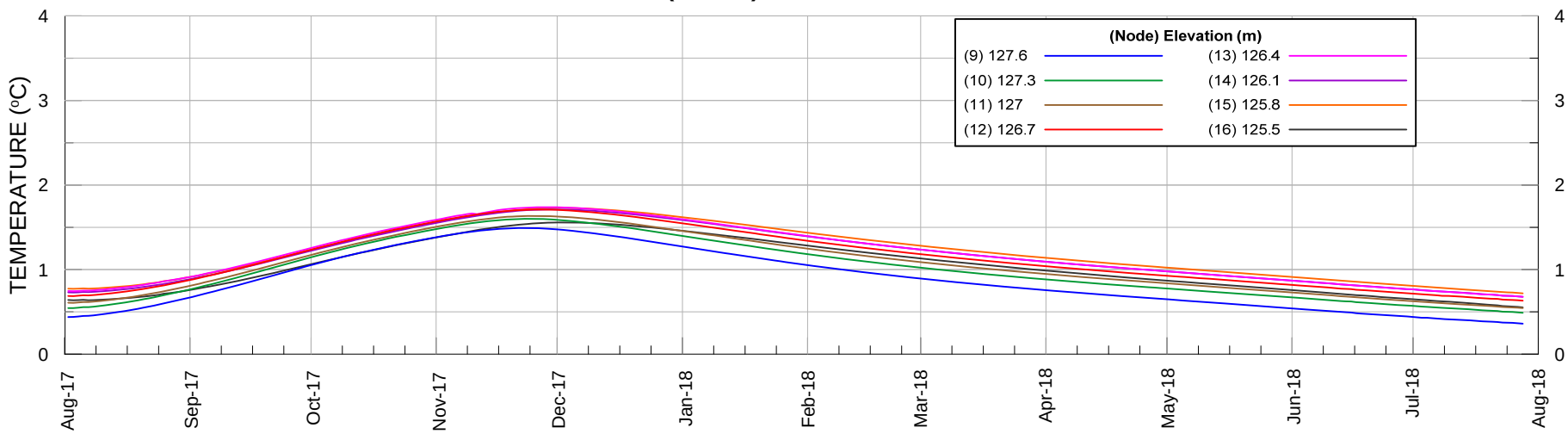
T3 (30+260) NODES 9 TO 16



T4 (30+272) NODES 1 TO 8

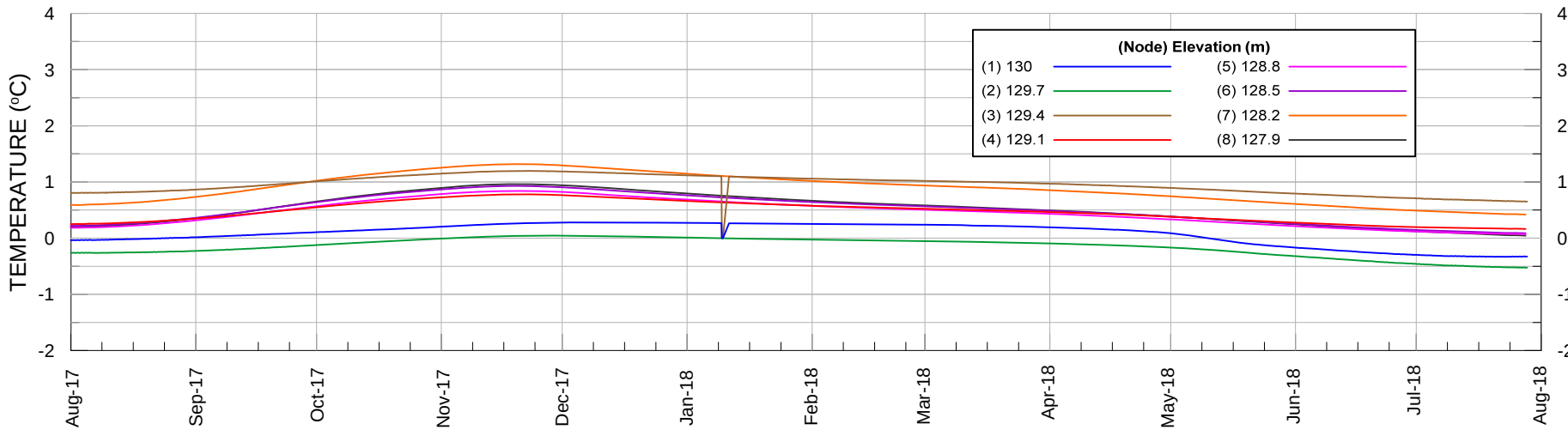


T4 (30+272) NODES 9 TO 16

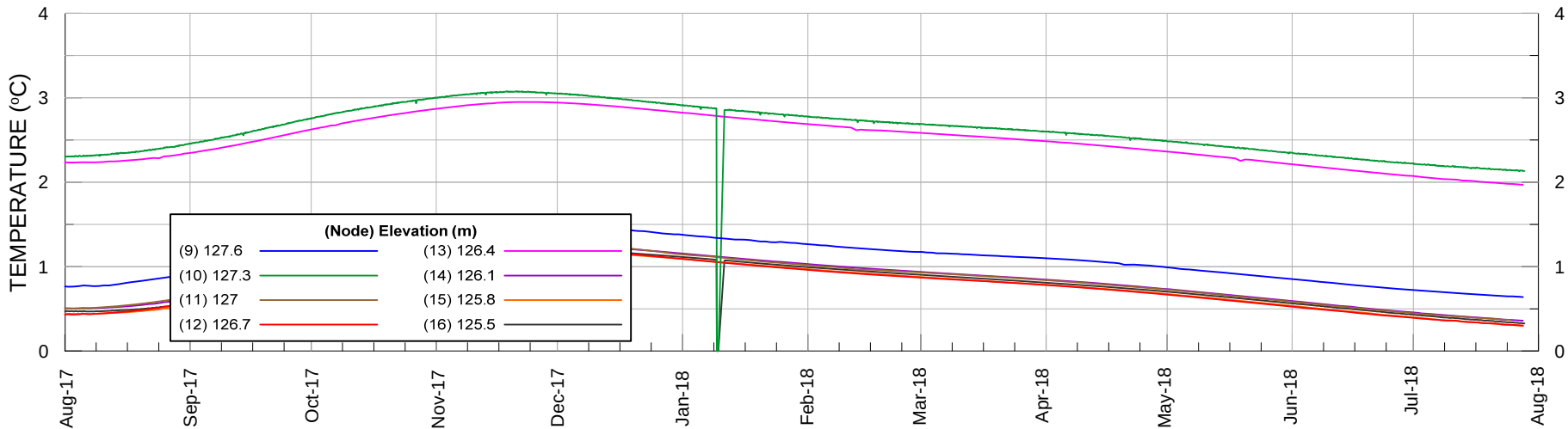


PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE	BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug 1/17 to Aug 1/18)				
	PROJECT No.			PHASE No.	
	DESIGN	TD	20JAN14	SCALE	AS SHOWN
	CADD	TD	20JAN14	REV.	
	CHECK			FIGURE 31	
	REVIEW				

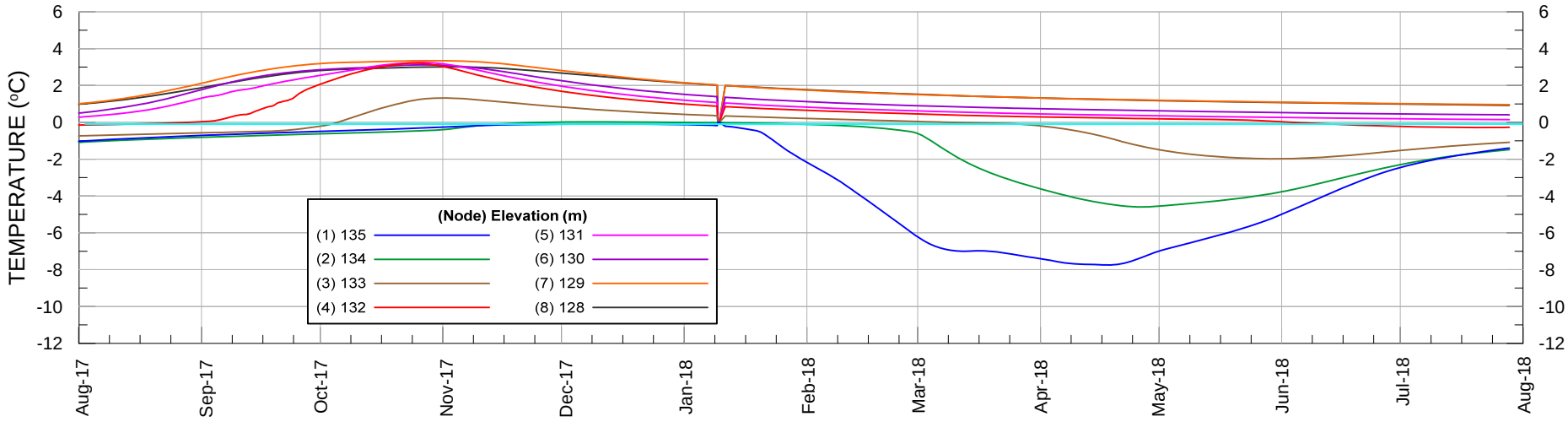
T5 (30+288.5) NODES 1 TO 8



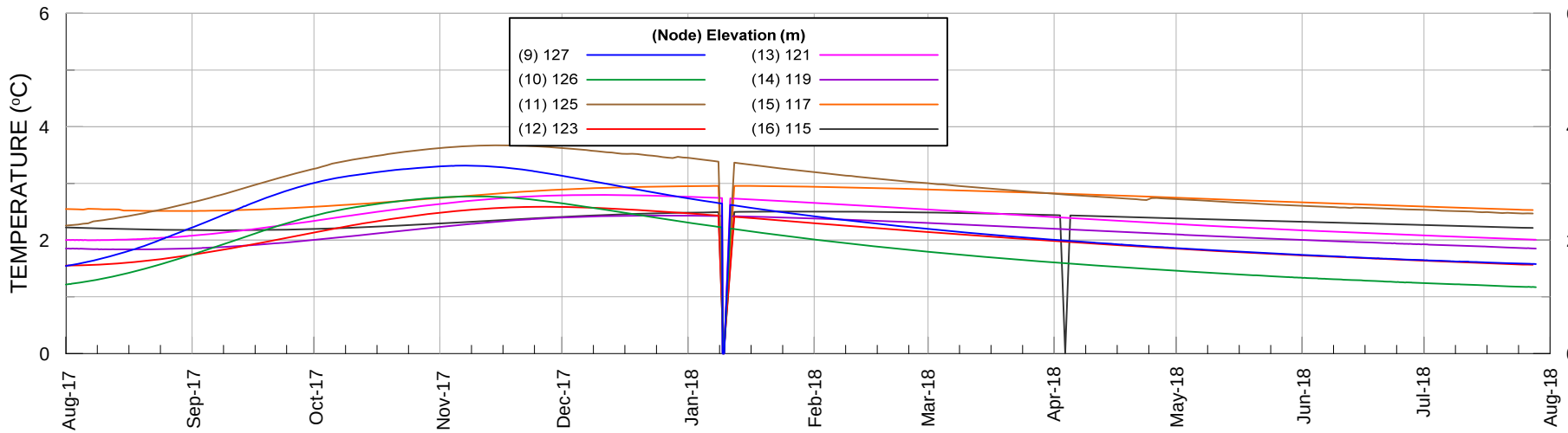
T5 (30+288.5) NODES 9 TO 16



T6 (30+330.5) NODES 1 TO 8

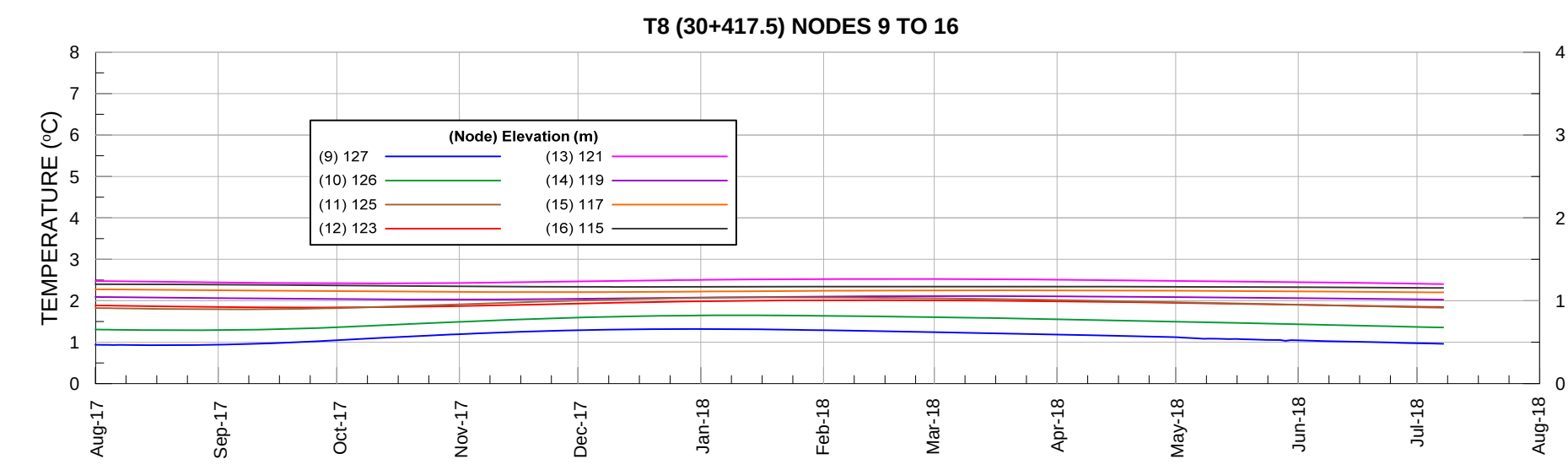
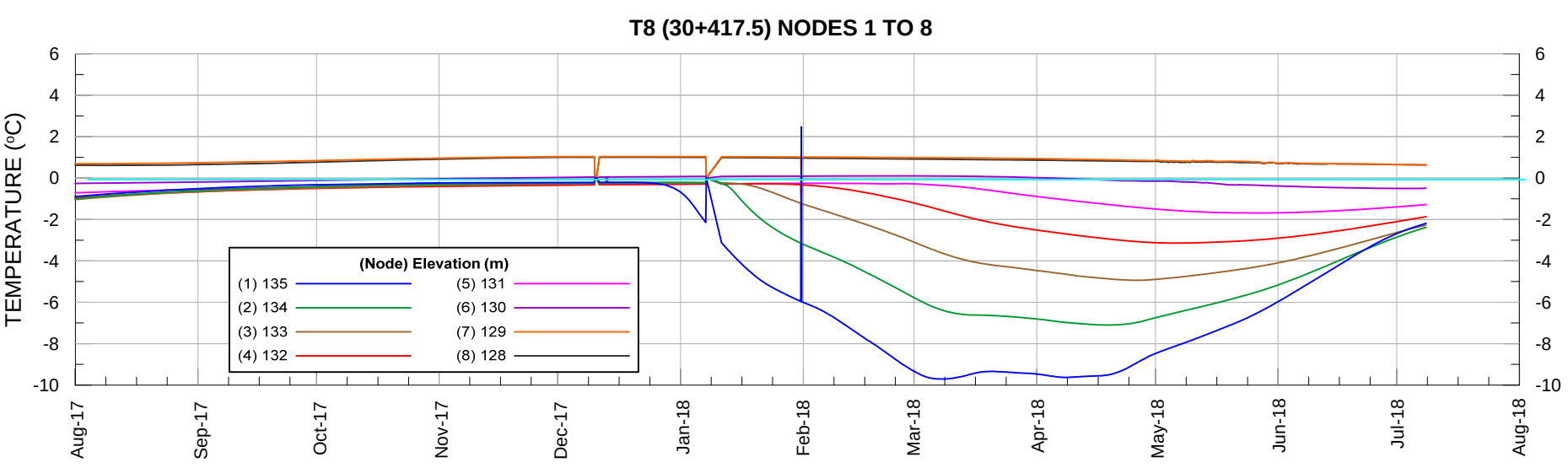
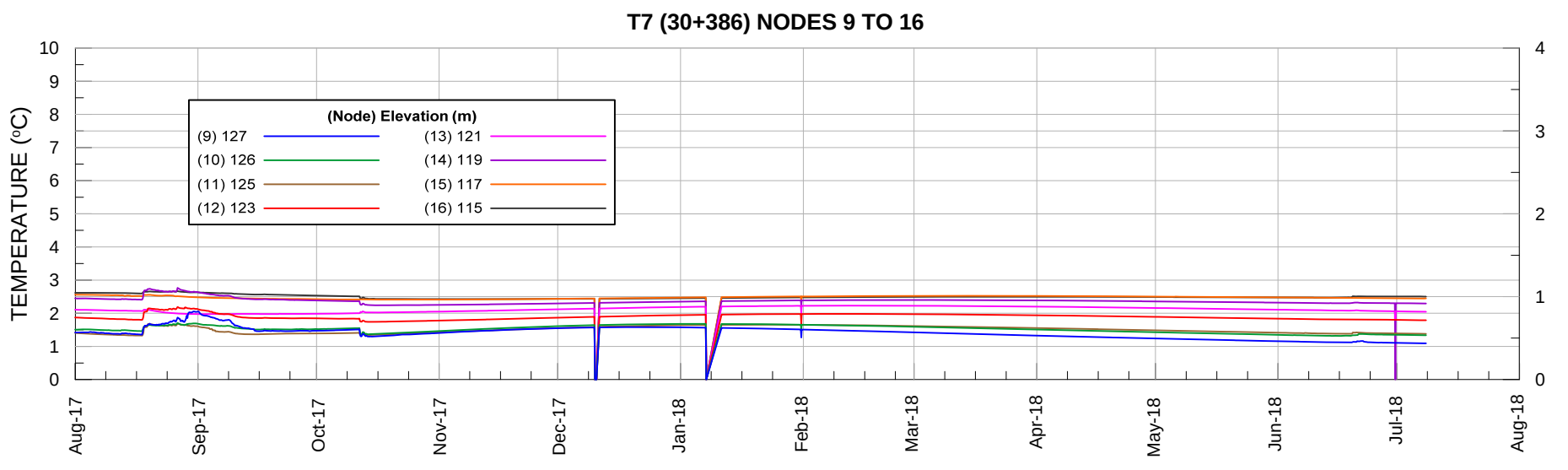
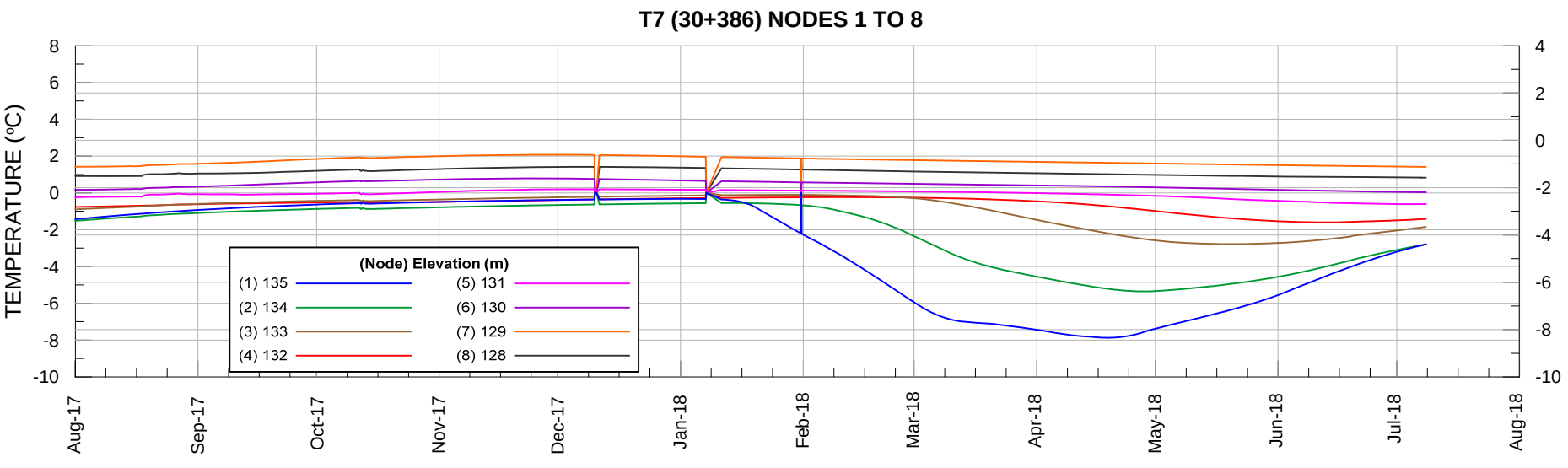


T6 (30+330.5) NODES 9 TO 16



NOTE:

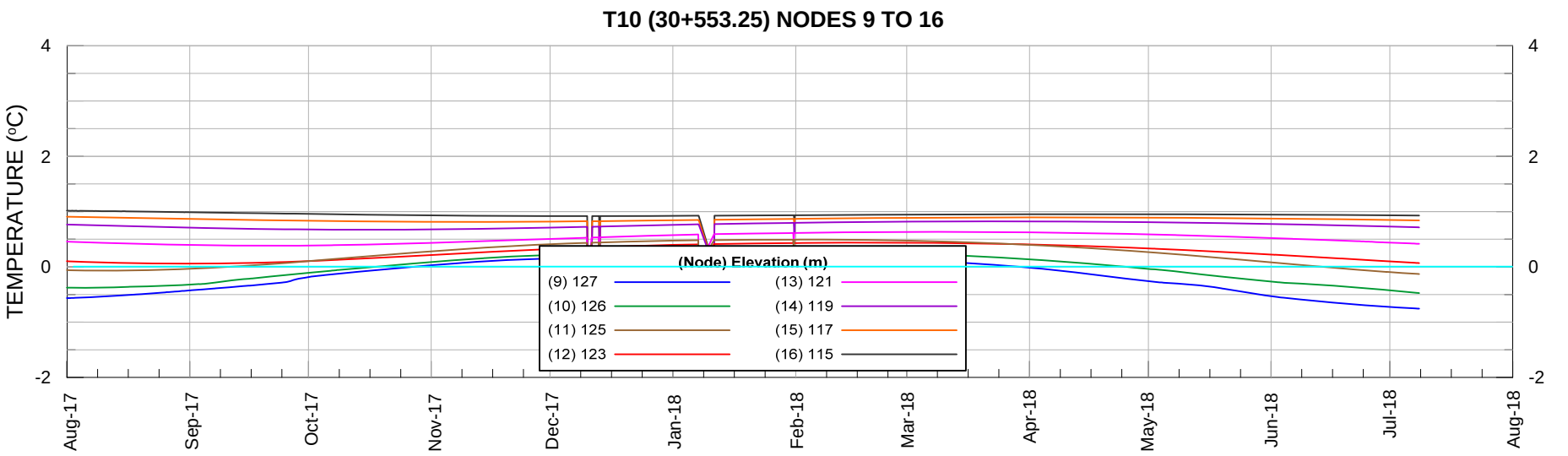
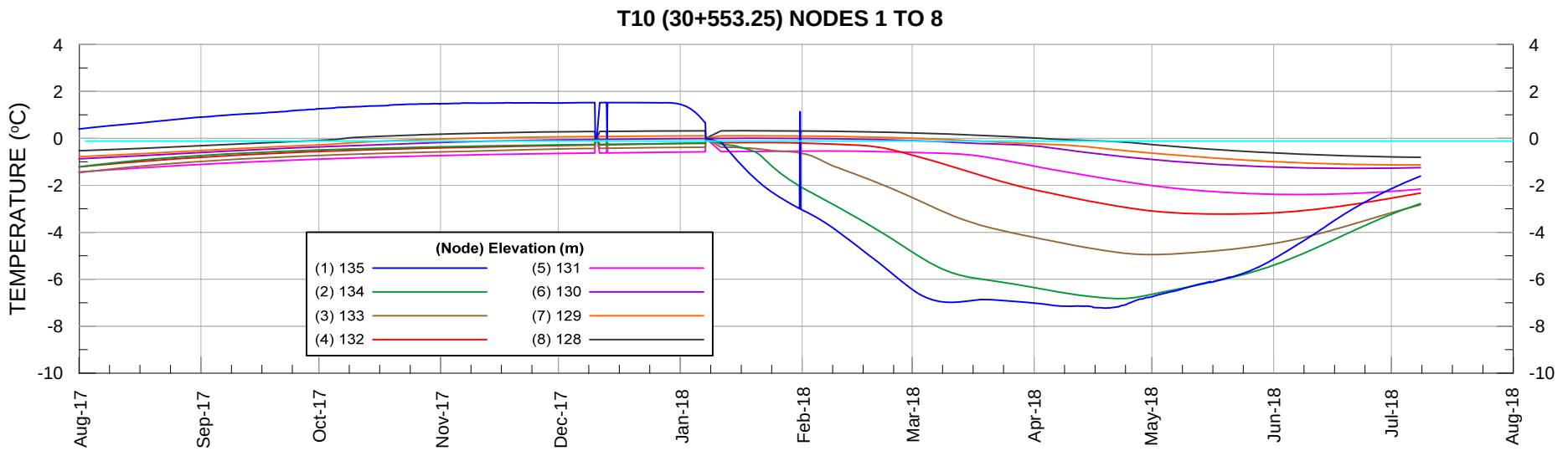
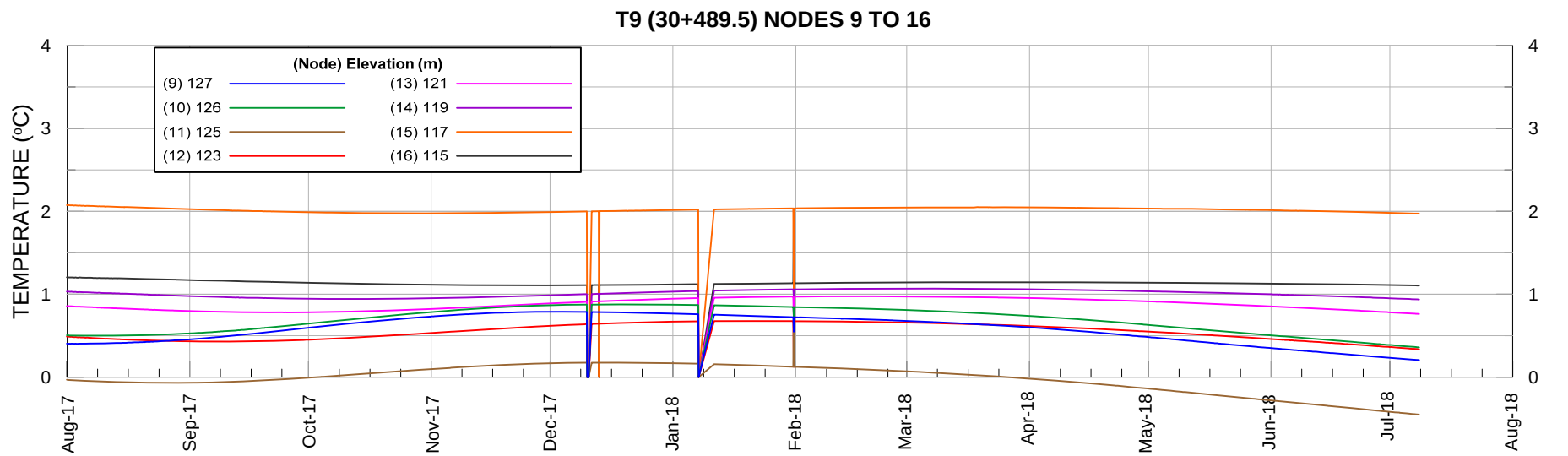
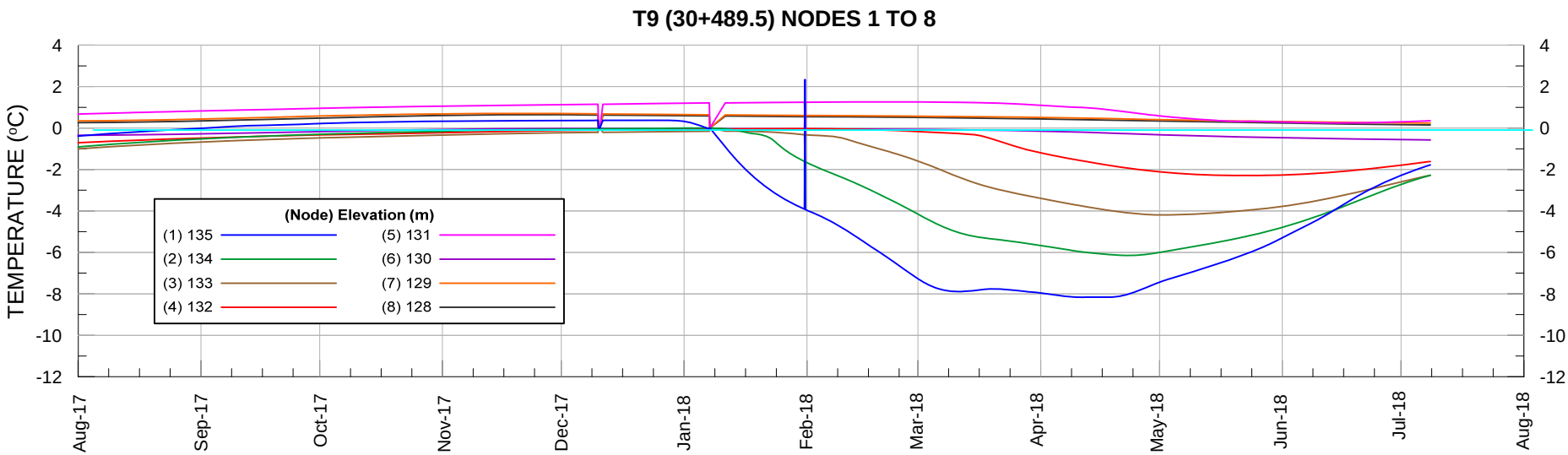
PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE		BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug 1/17 to Aug 1/18)			
	PROJECT No.			PHASE No.	
	DESIGN	TD	20JAN14	SCALE	AS SHOWN
	CADD	TD	20JAN14	FIGURE 32	
	CHECK				
REVIEW					



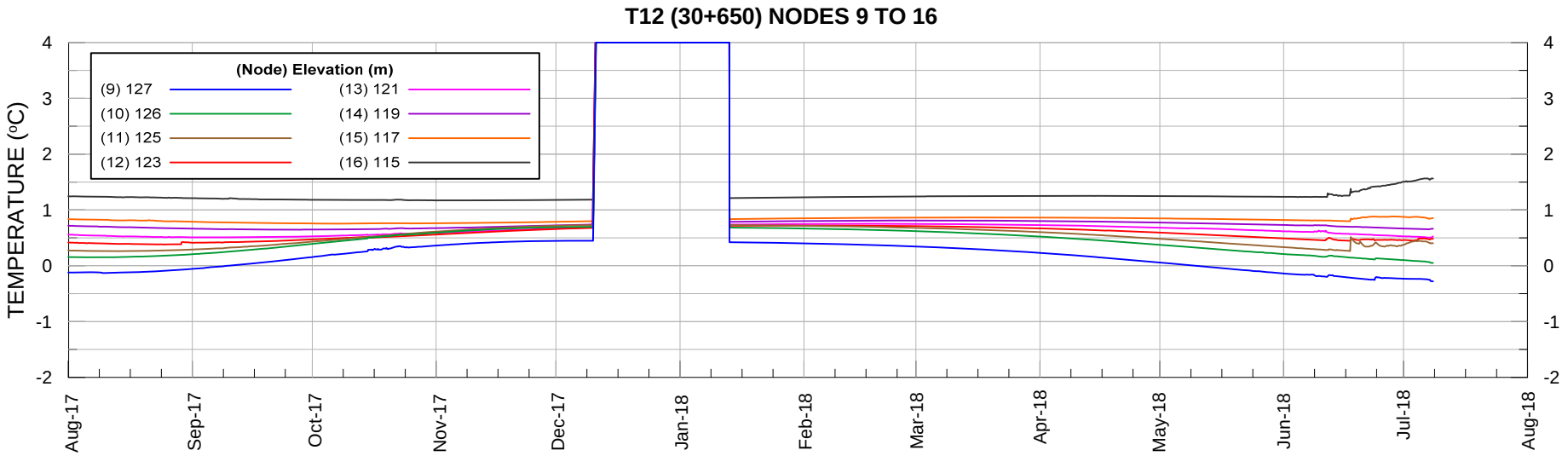
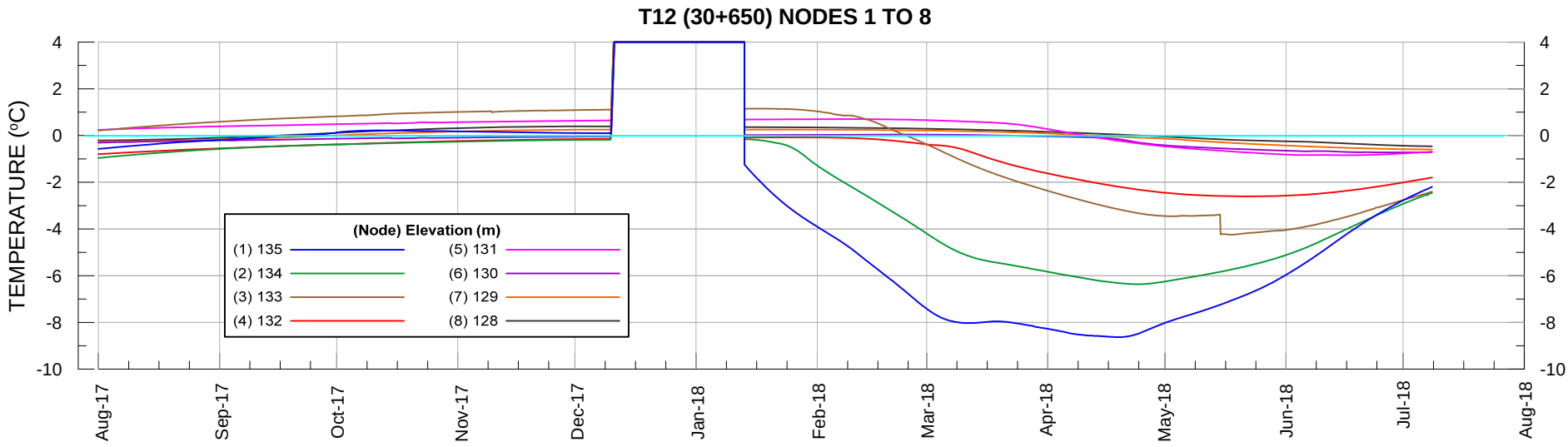
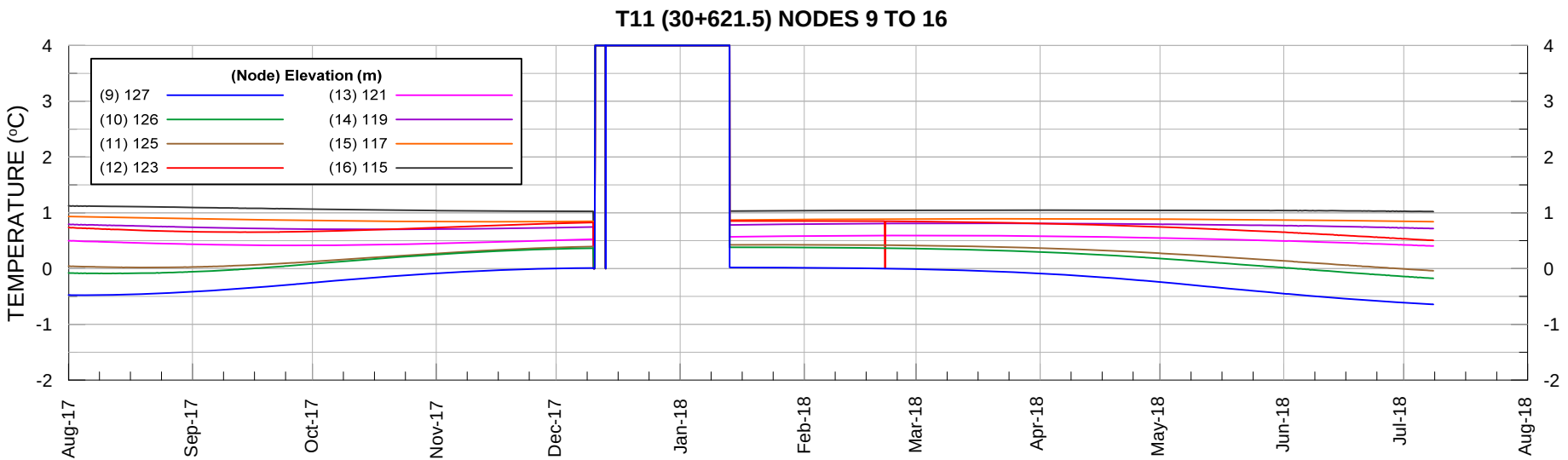
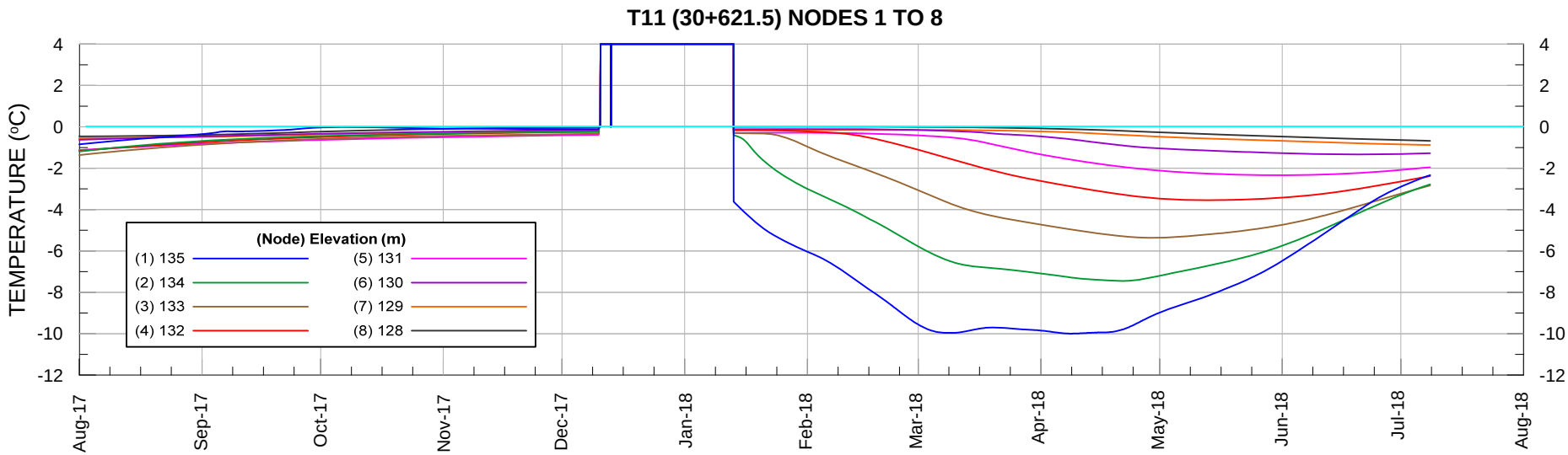
NOTE:

PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE	BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug 1/17 to Aug 1/18)				
	PROJECT No.			PHASE No.	
	DESIGN	TD	20JAN14	SCALE	AS SHOWN
	CADD	TD	20JAN14	REV.	
	CHECK				
	REVIEW				

FIGURE 33

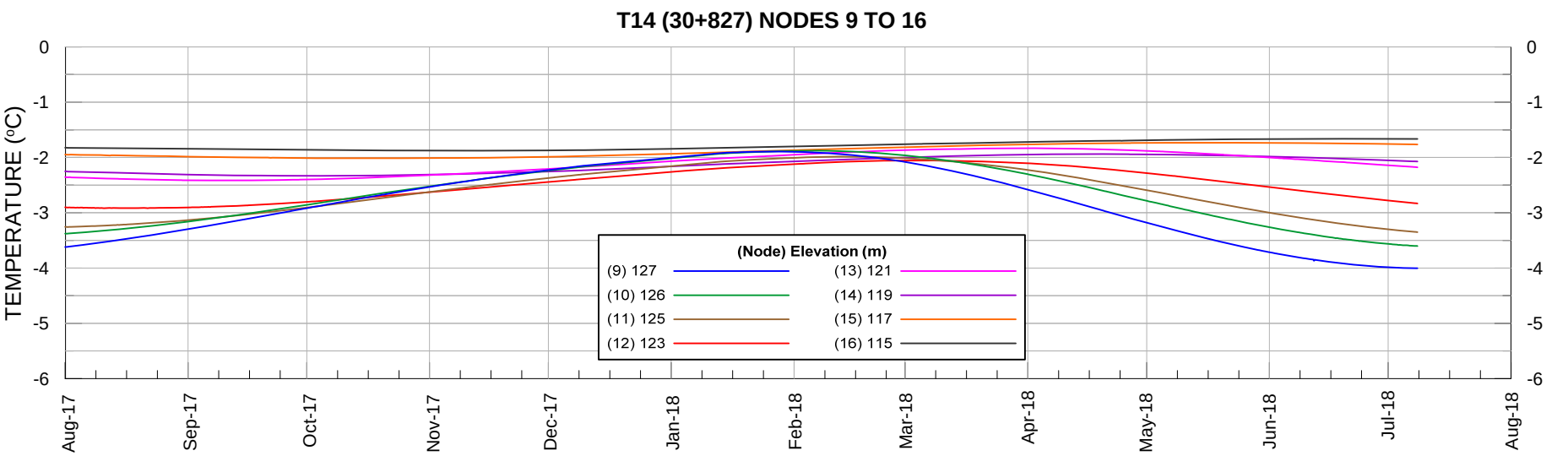
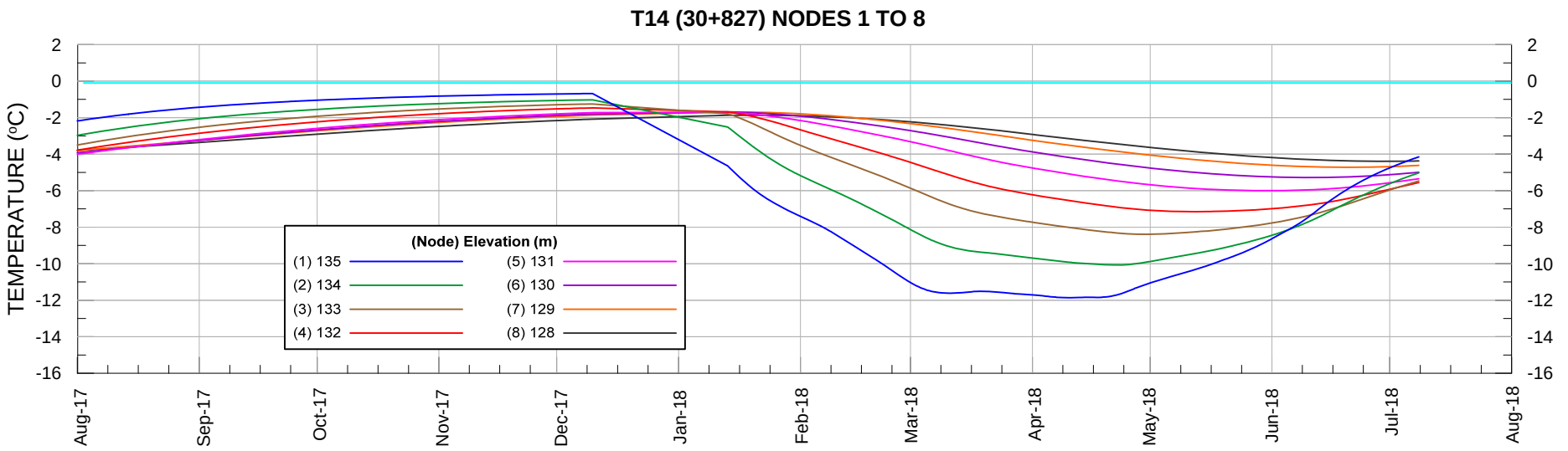
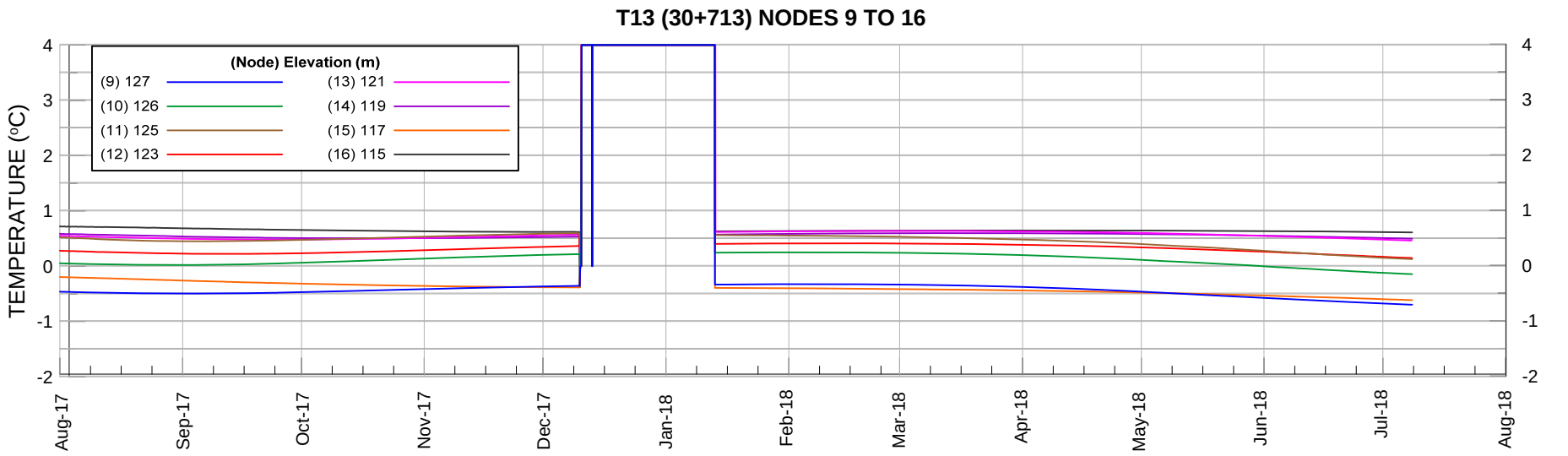
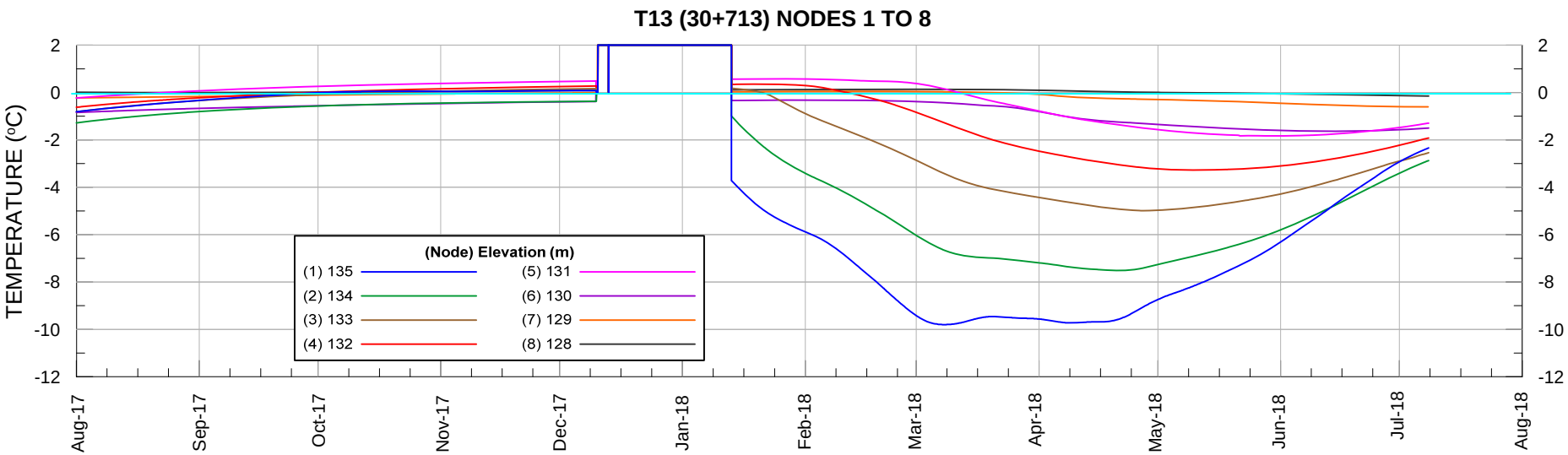


PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE	BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug 1/17 to Aug 1/18)				
	PROJECT No.			PHASE No.	
	DESIGN	TD	20JAN14	SCALE	AS SHOWN
	CADD	TD	20JAN14	REV.	
	CHECK			FIGURE 34	
	REVIEW				



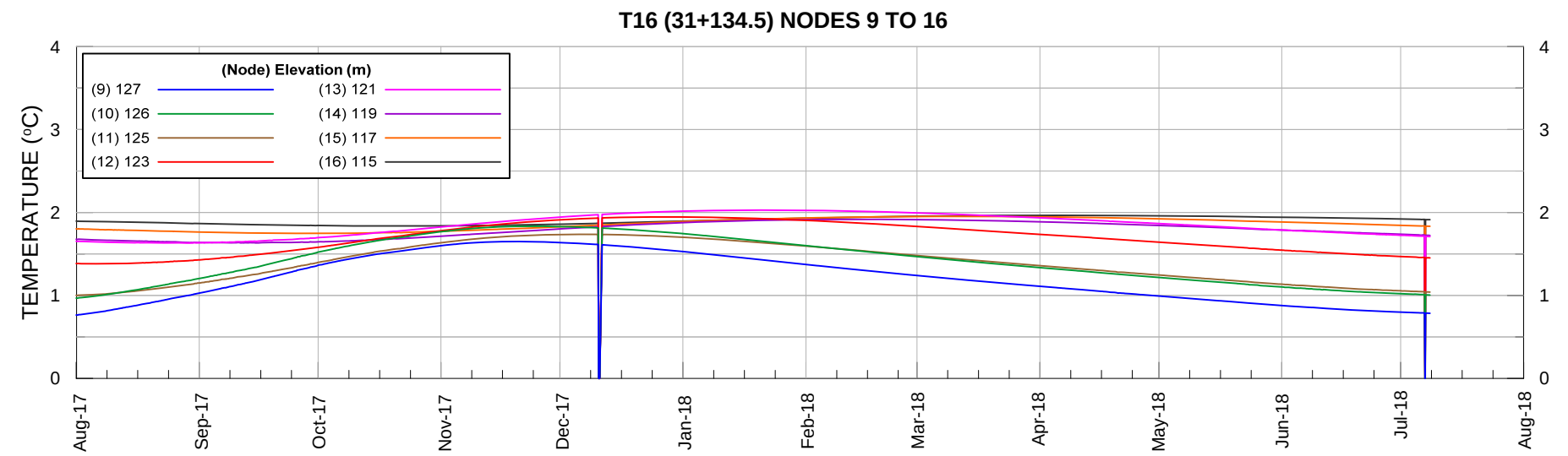
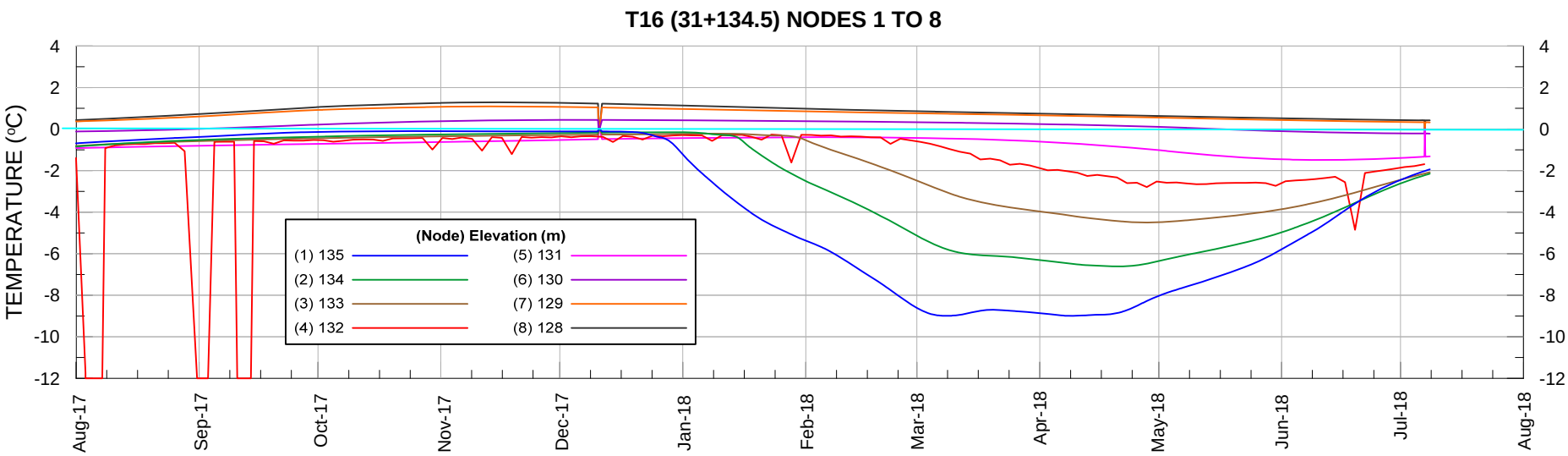
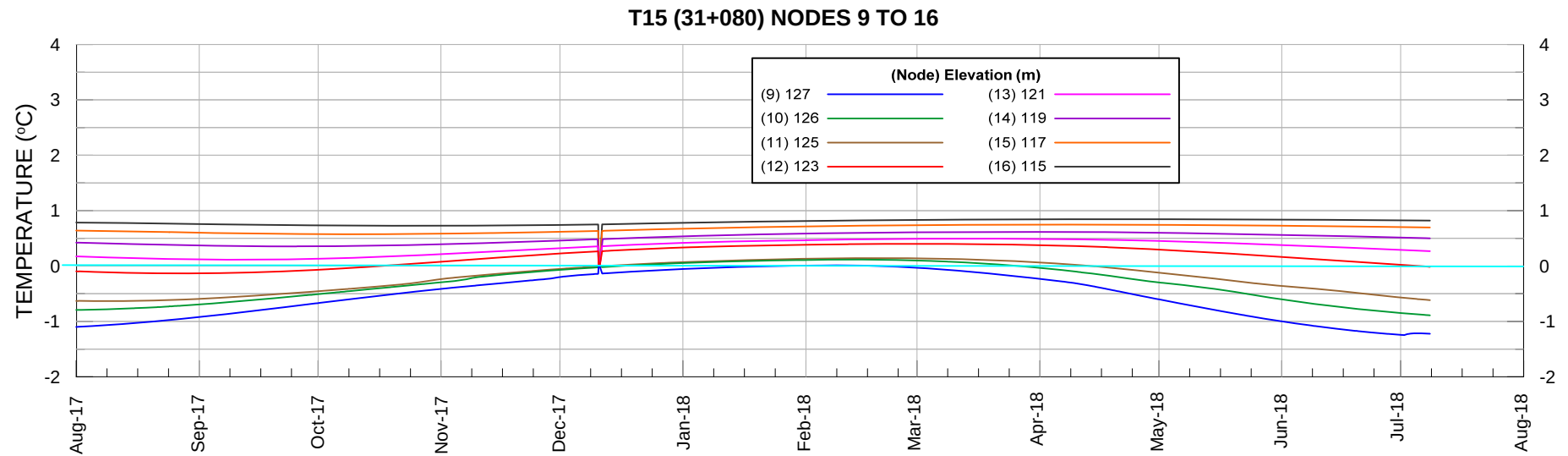
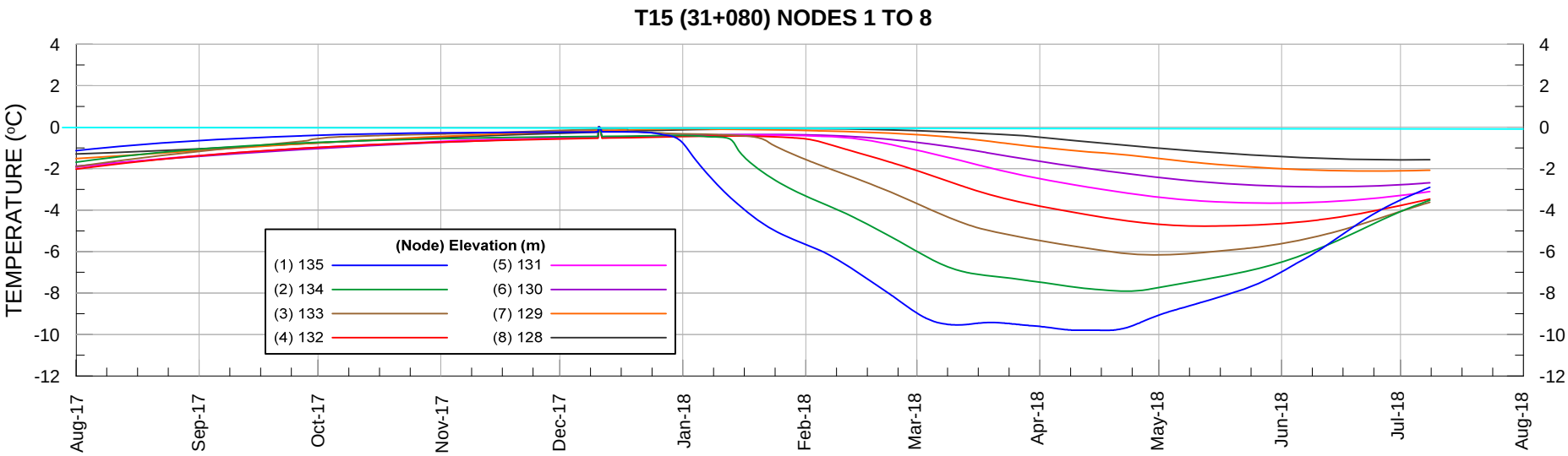
Note: The jump in temperature is an error with the MUX board in the data logger.
Board was replaced.

PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE		BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug1/17 to Aug 1/18)			
	PROJECT No.			PHASE No.	
	DESIGN	TD	20JAN14	SCALE	AS SHOWN
	CADD	TD	20JAN14	REVIEW	
	CHECK				
REVIEW				FIGURE 35	

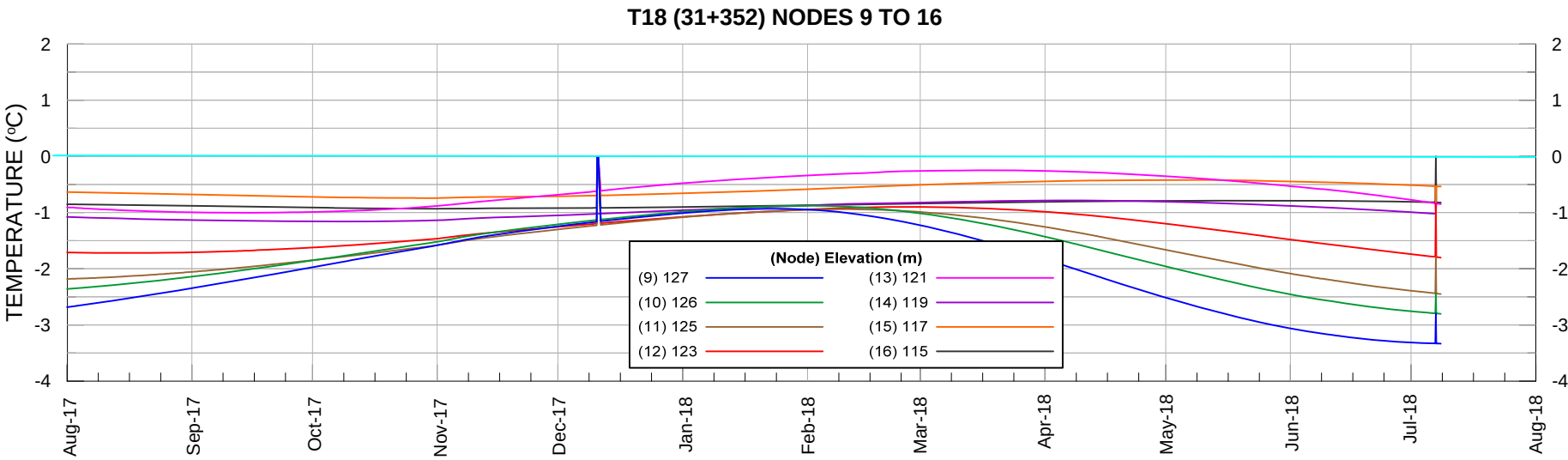
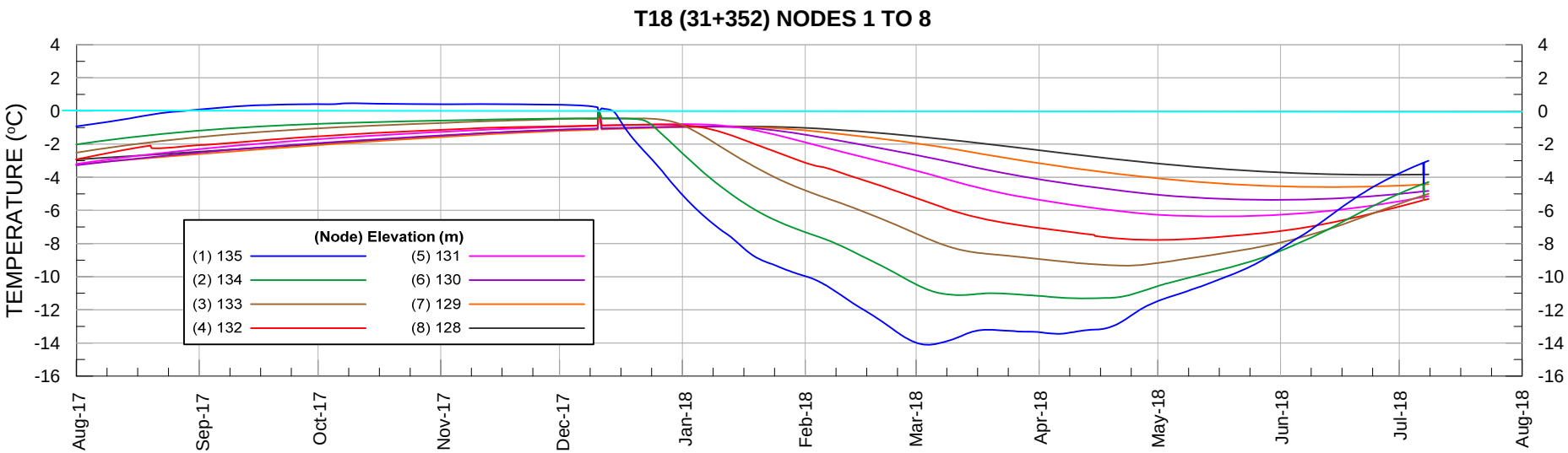
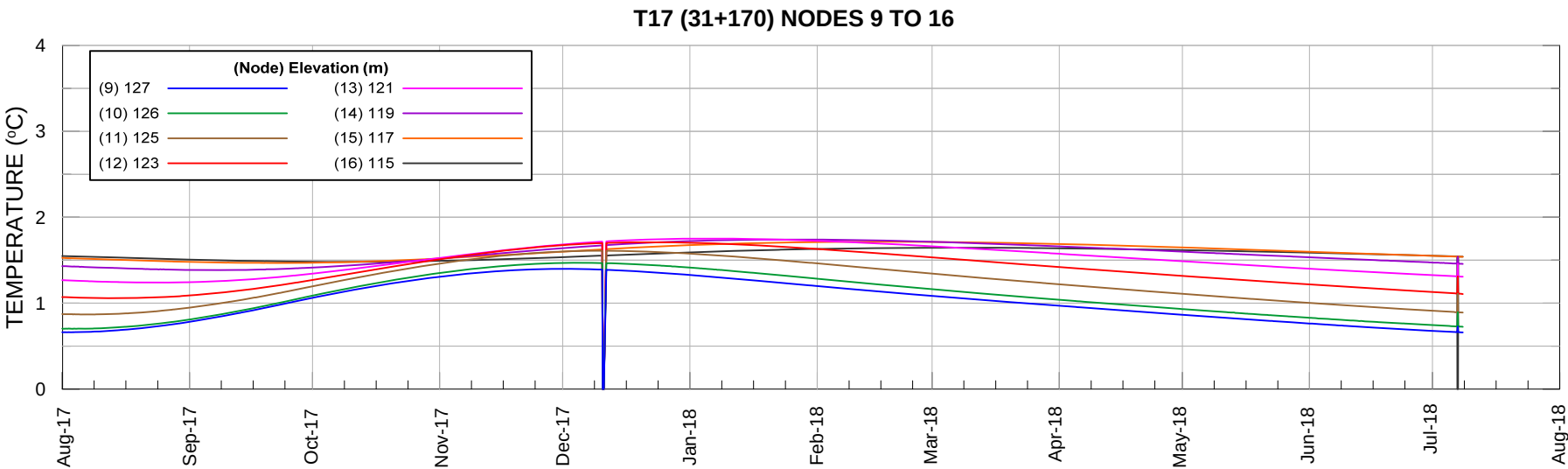
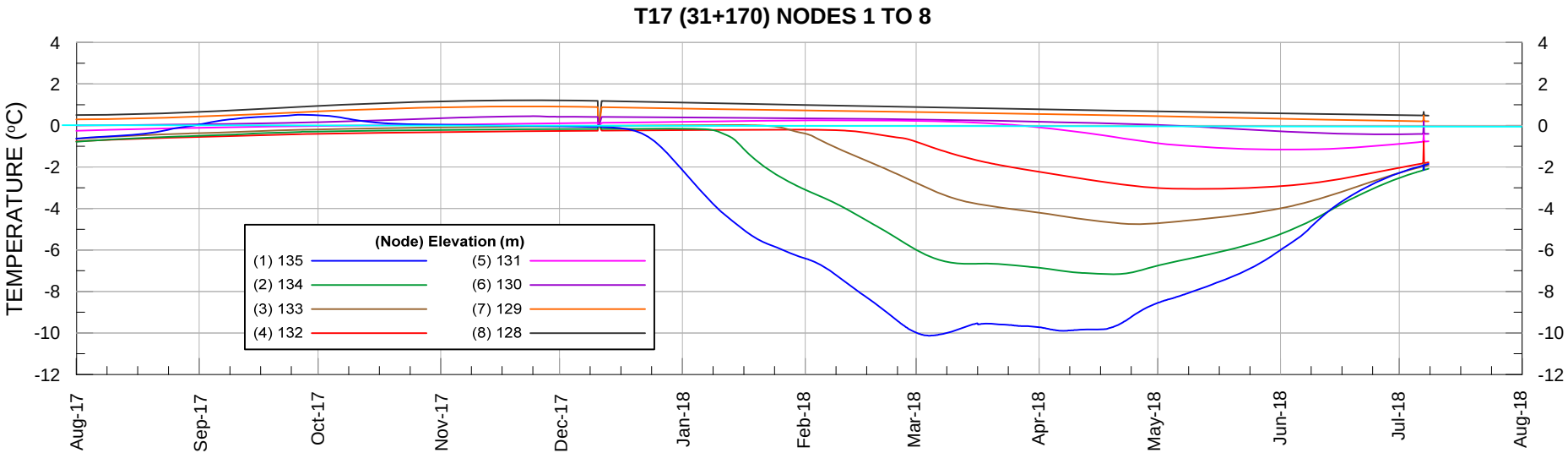


Note: The jump in temperature is an error with the MUX board in the data logger.
Board was replaced.

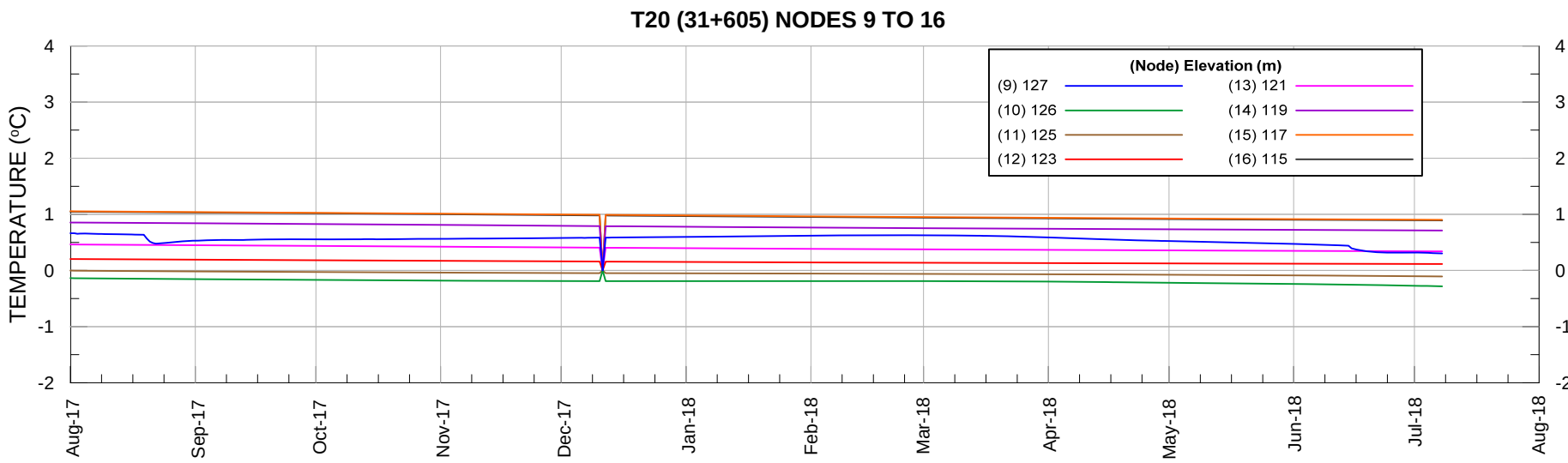
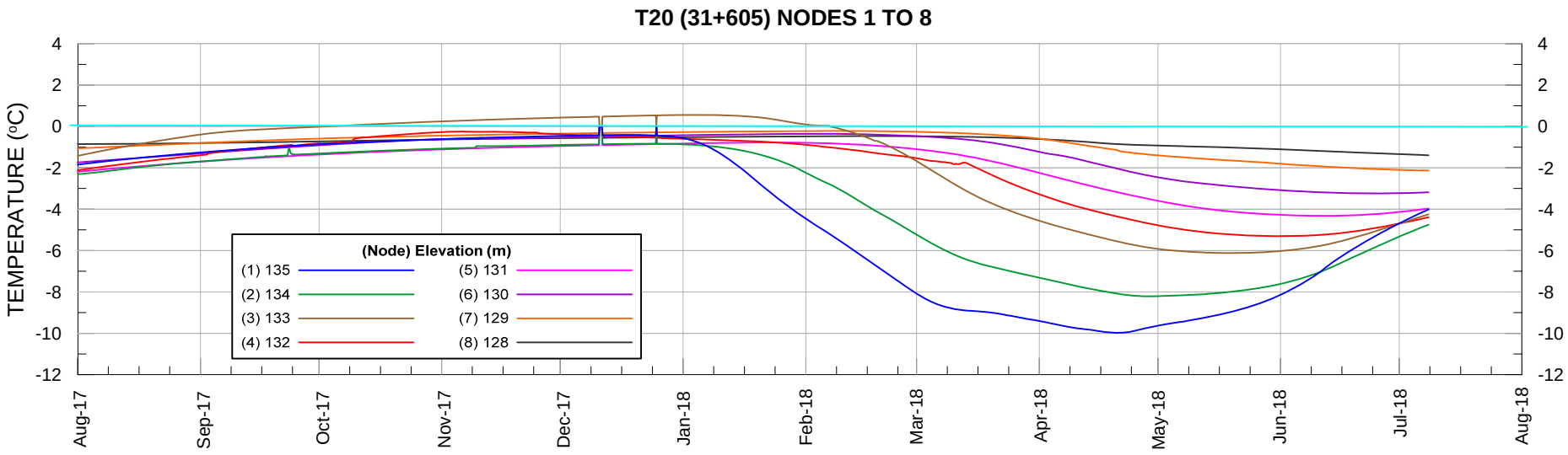
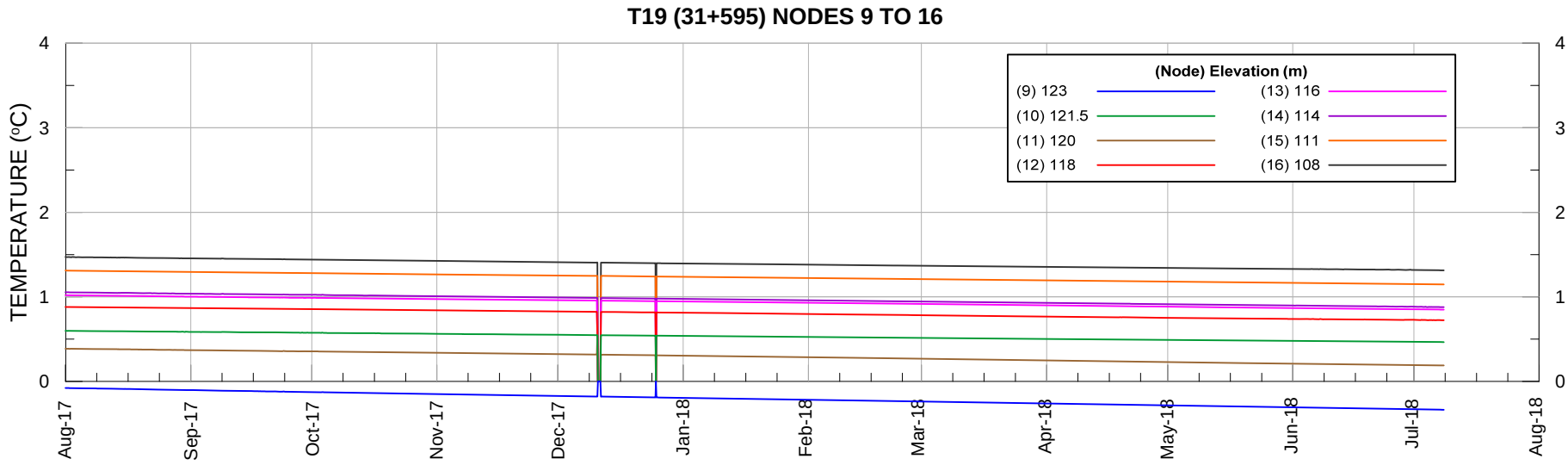
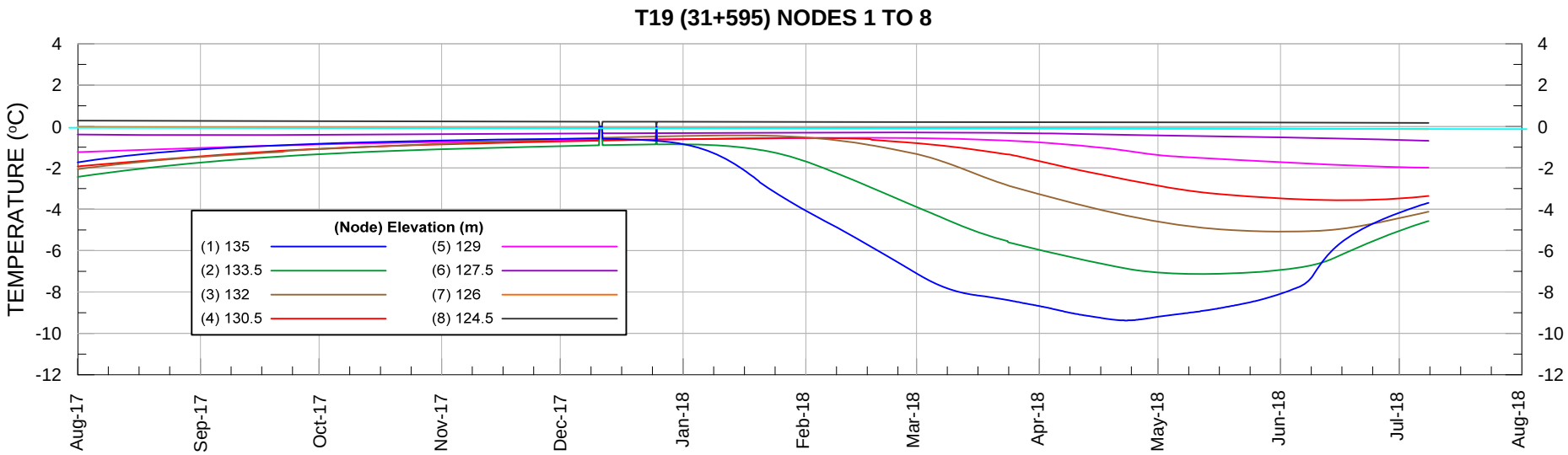
PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE		BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug 1/17 to Aug 1/18)				
	PROJECT No.			PHASE No.		
	DESIGN	TD	20JAN14	SCALE	AS SHOWN	REV.
	CADD	TD	20JAN14	FIGURE 36		
	CHECK					
REVIEW						



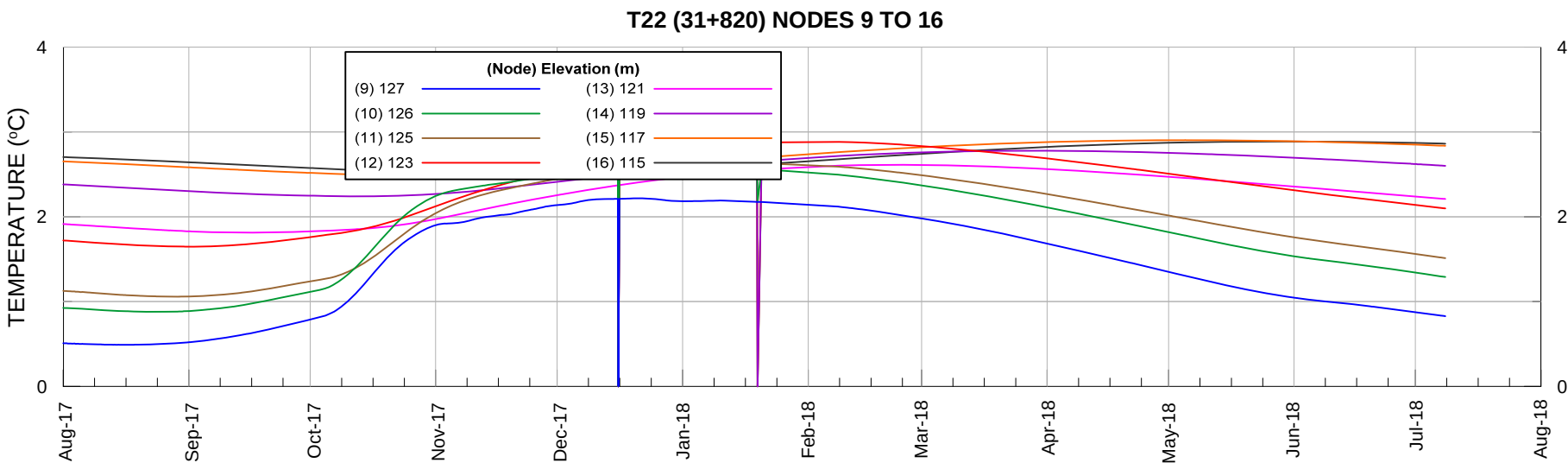
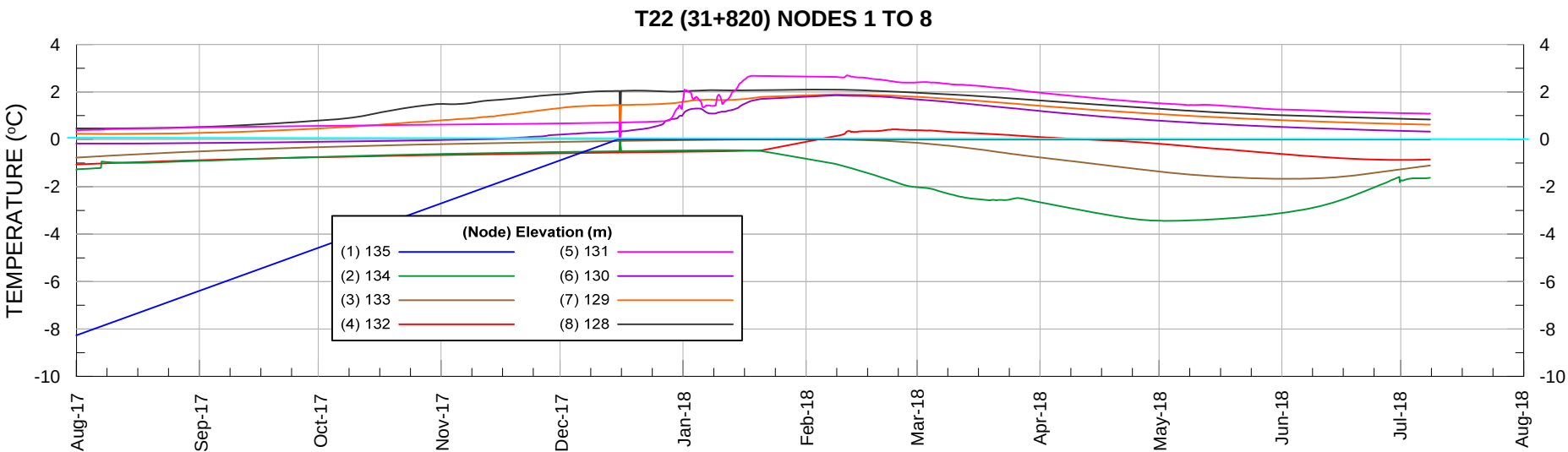
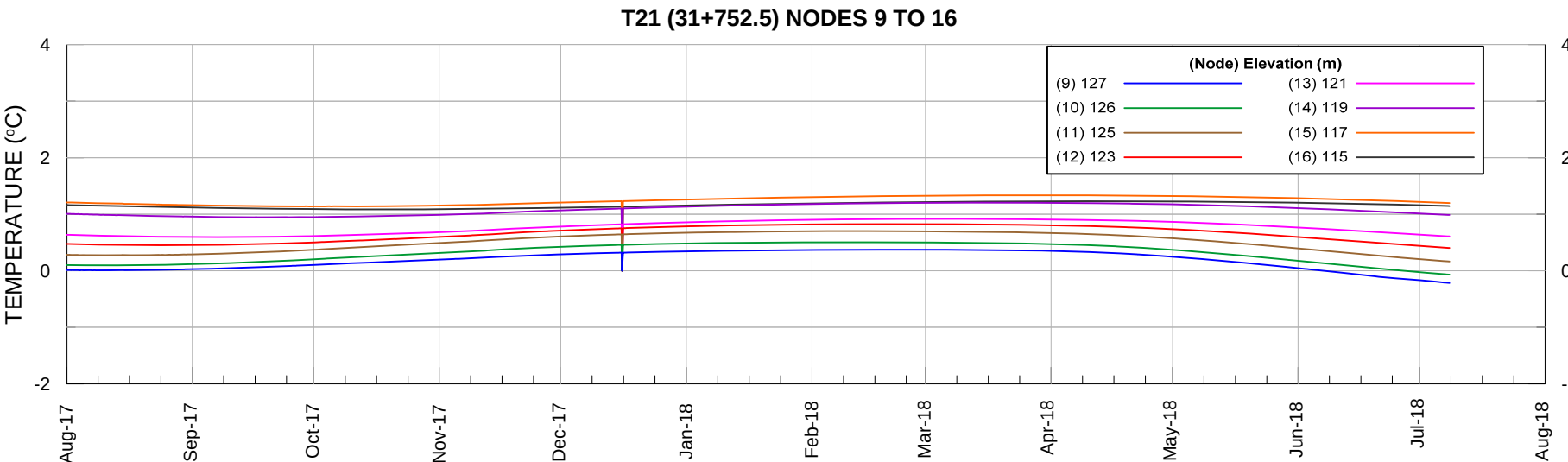
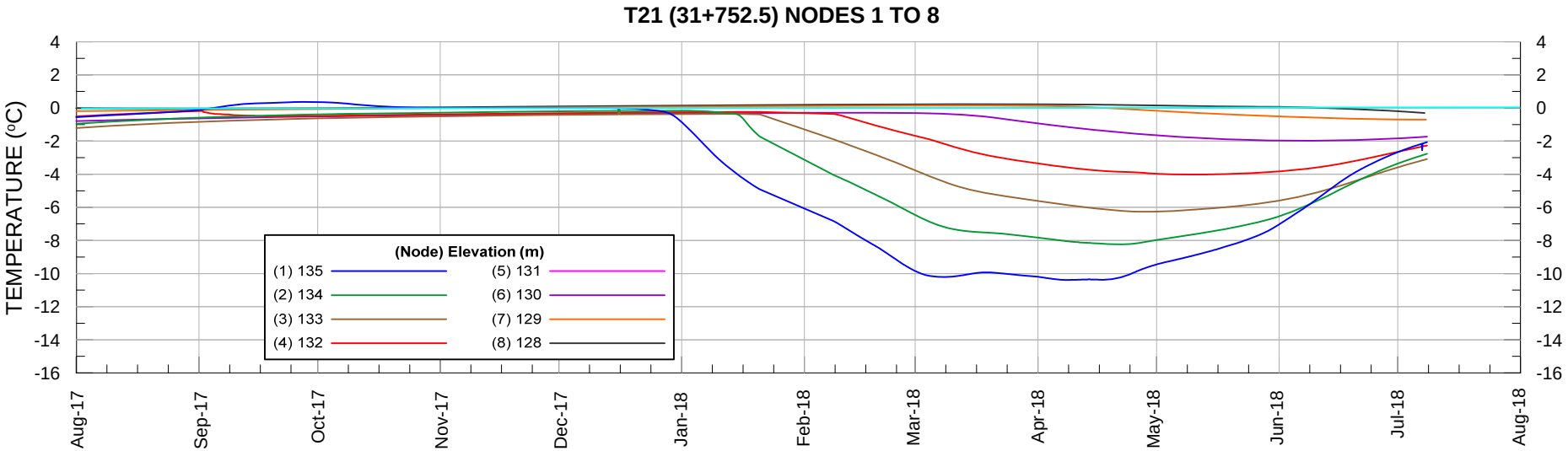
PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE		BAYGOOSE DIKE NODAL THERMAL TIMELINES T15-T16 (Aug 1/17 to Aug 1/18)				
		PROJECT No.			PHASE No.	
		DESIGN	TD	20JAN14	SCALE	AS SHOWN
		CADD	TD	20JAN14	FIGURE 37	
		CHECK				
		REVIEW				



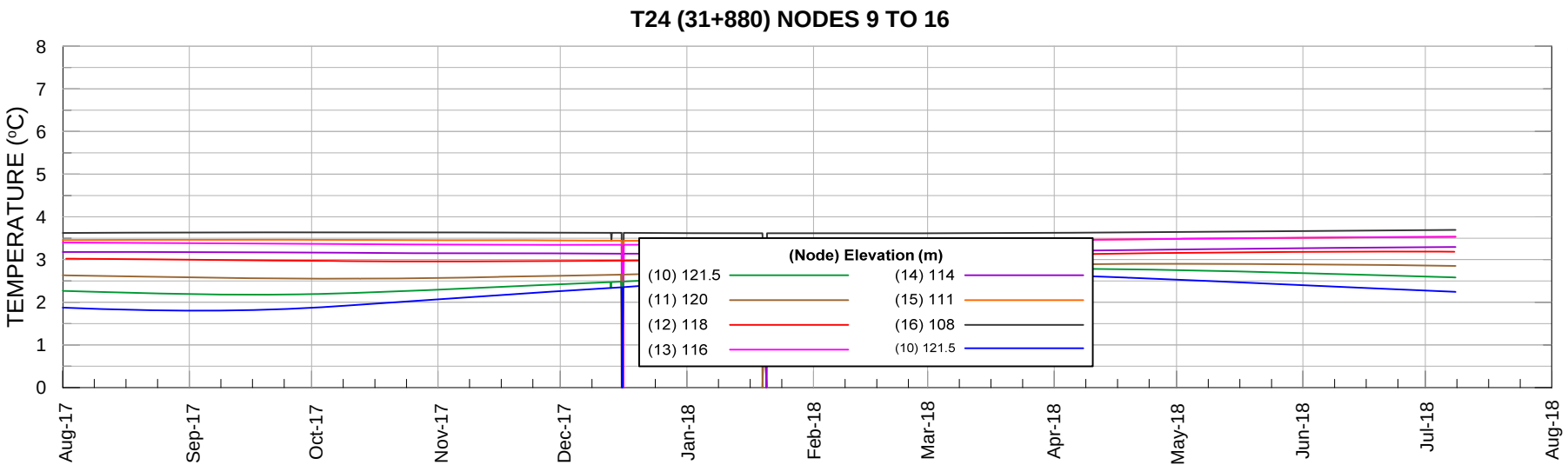
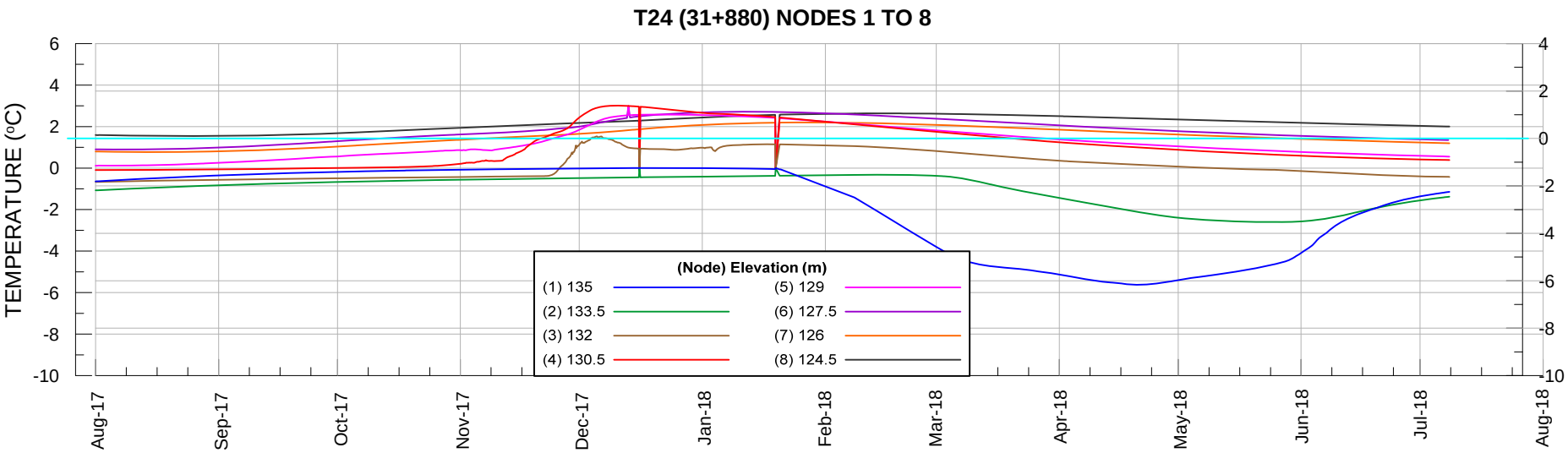
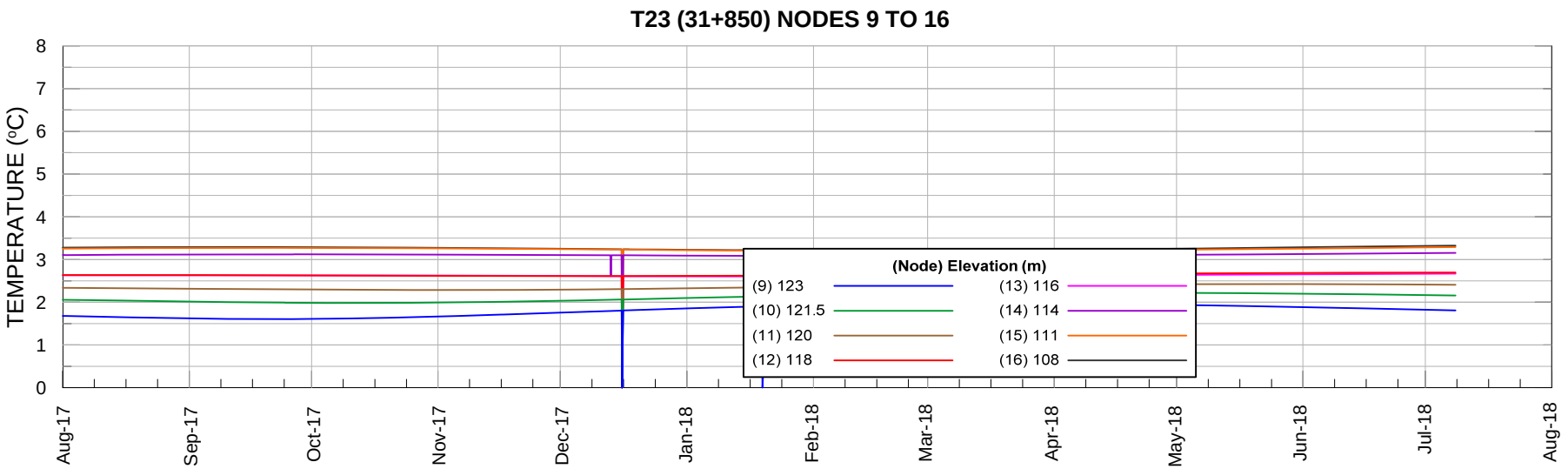
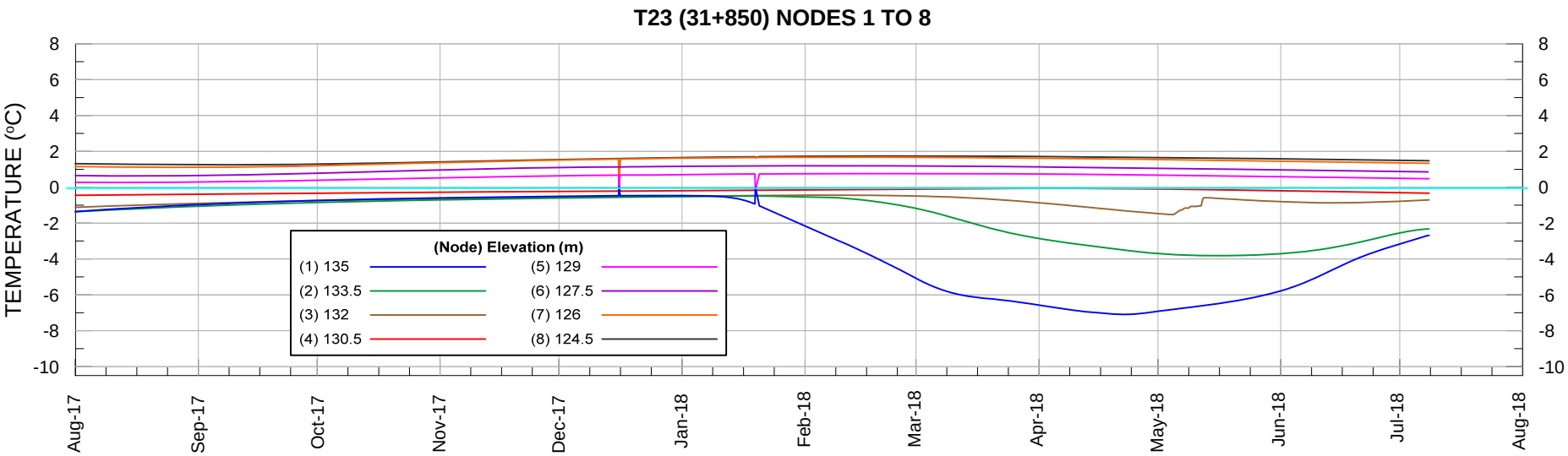
PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE		BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug 1/17 to Aug 1/18)				
	PROJECT No.			PHASE No.		
	DESIGN	TD	20JAN14	SCALE	AS SHOWN	REV.
	CADD	TD	20JAN14	FIGURE 38		
	CHECK					
REVIEW						



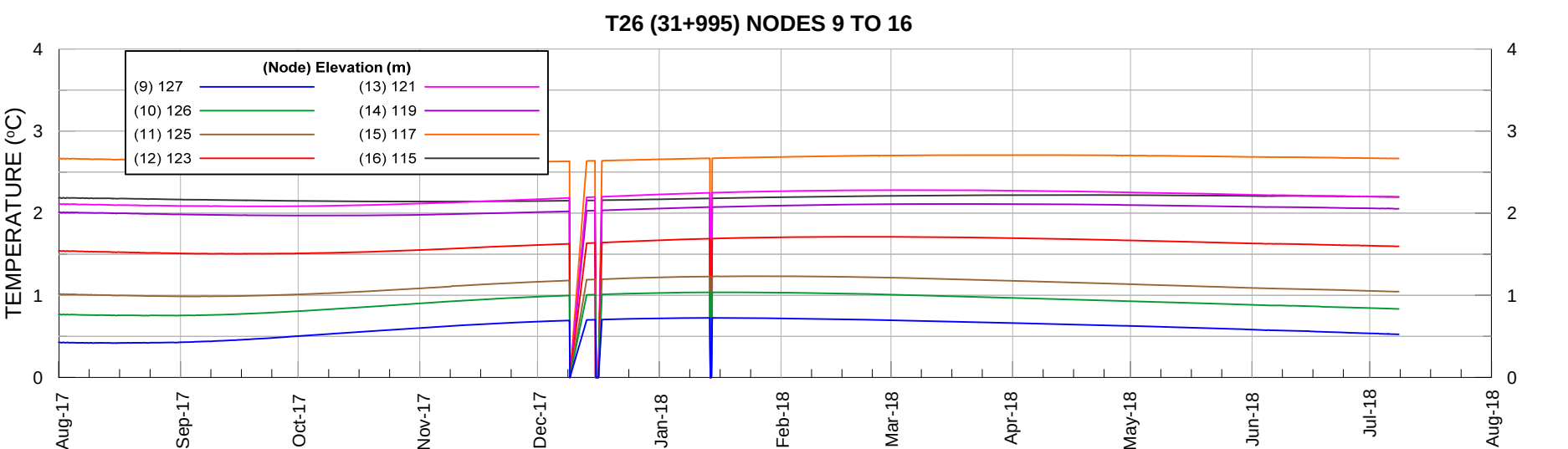
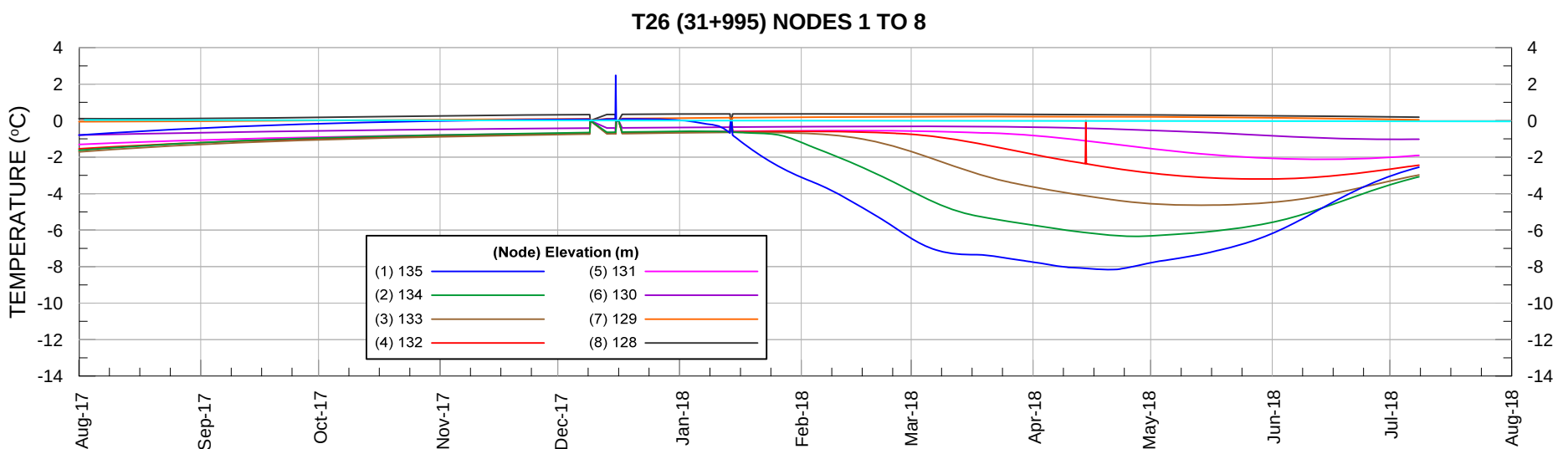
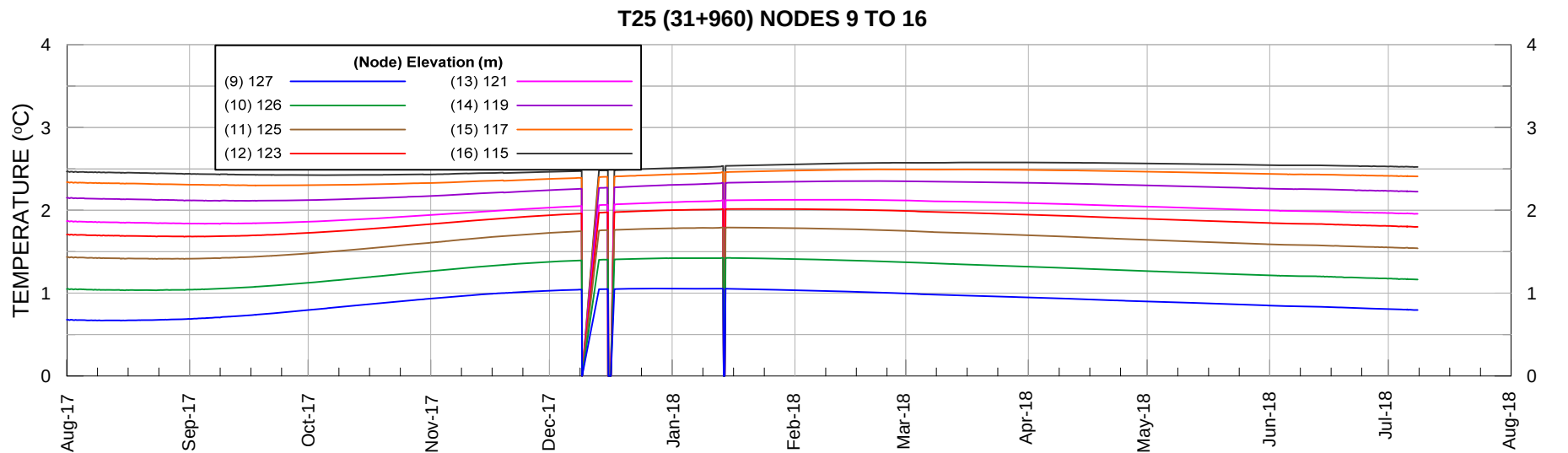
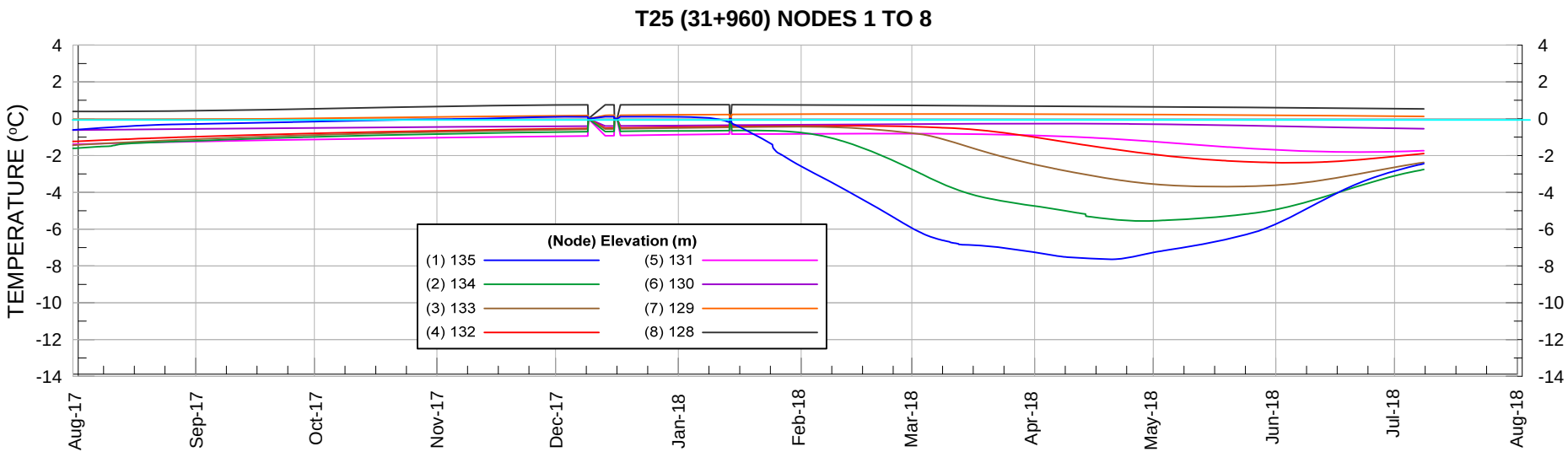
PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE		BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug 1/17 to Aug 1/18)			
	PROJECT No.			PHASE No.	
	DESIGN	TD	20JAN14	SCALE	AS SHOWN
	CADD	TD	20JAN14	REV.	
	CHECK			FIGURE 39	
REVIEW					



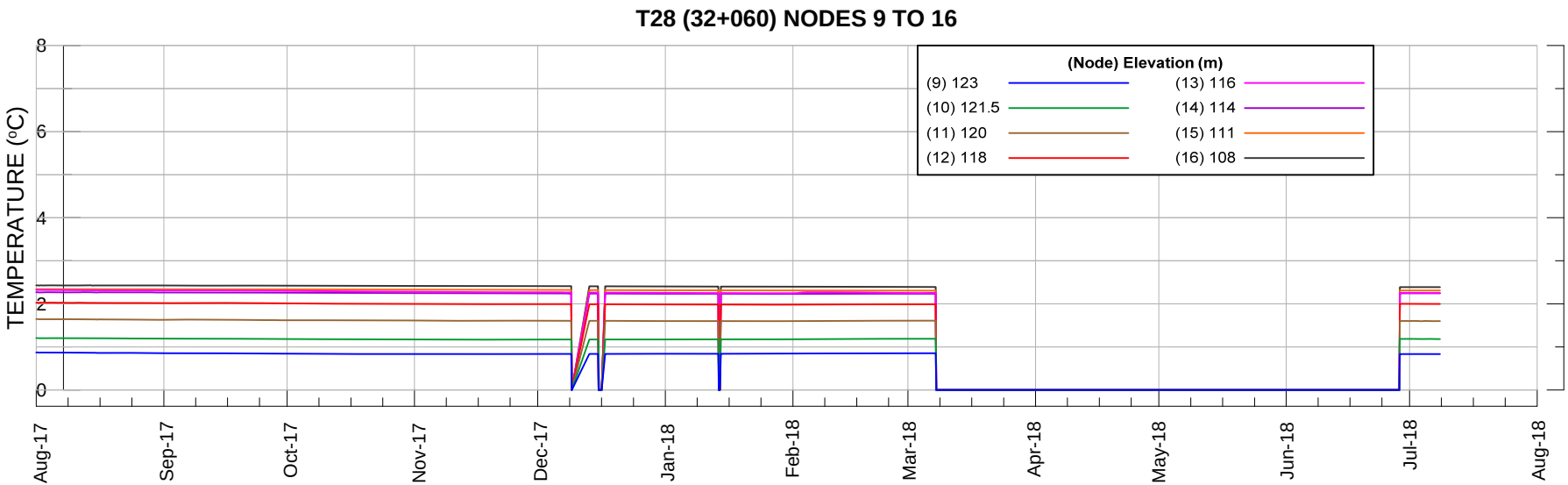
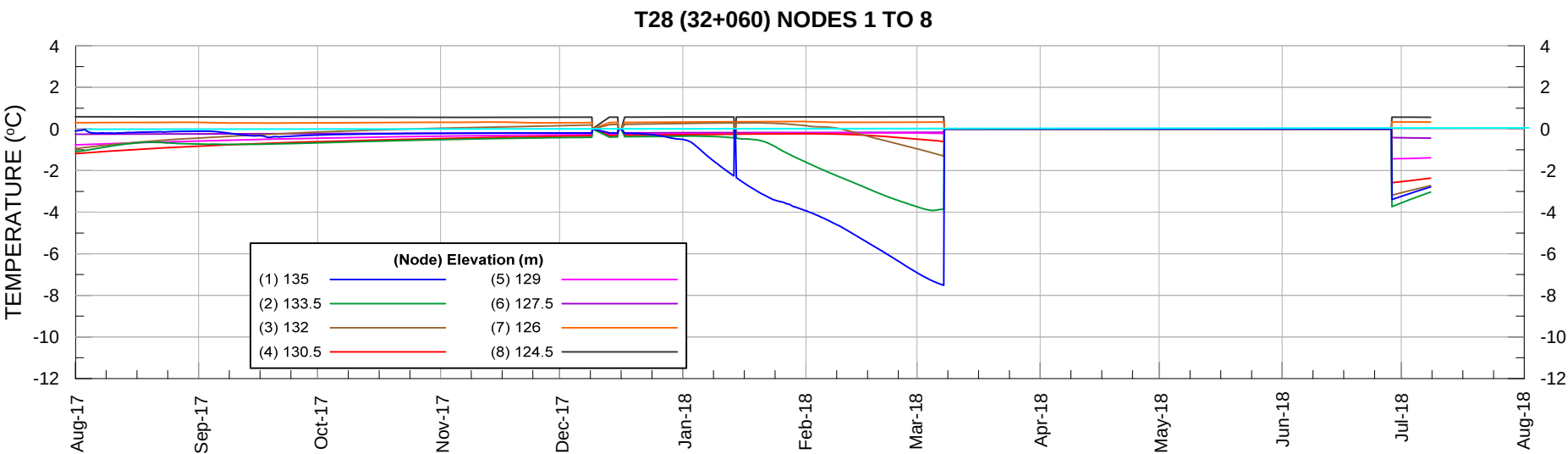
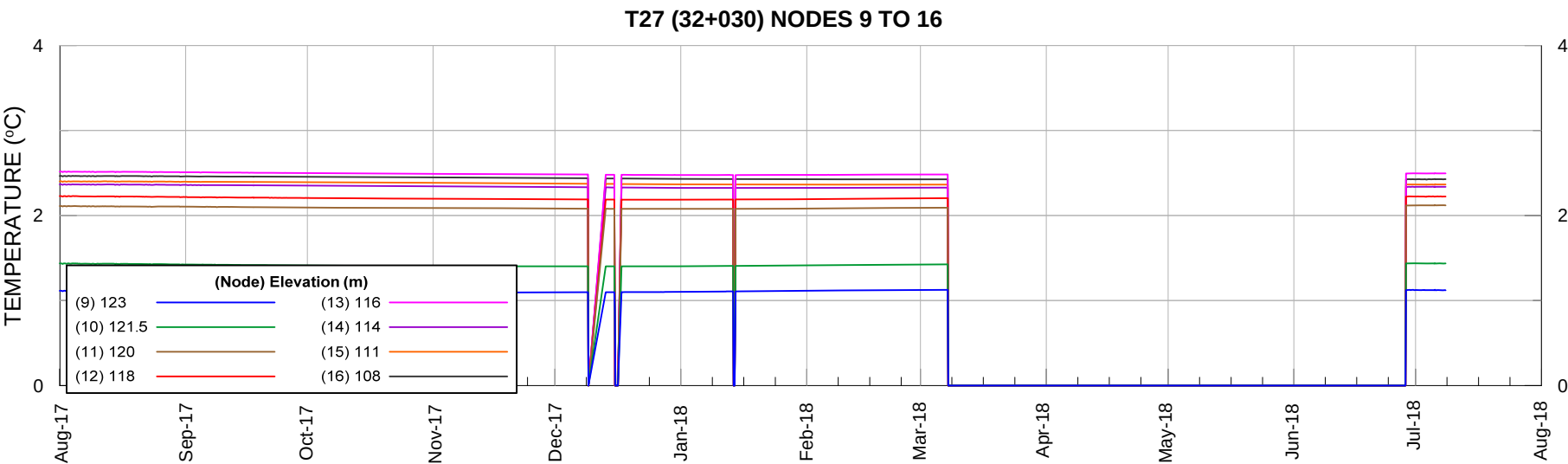
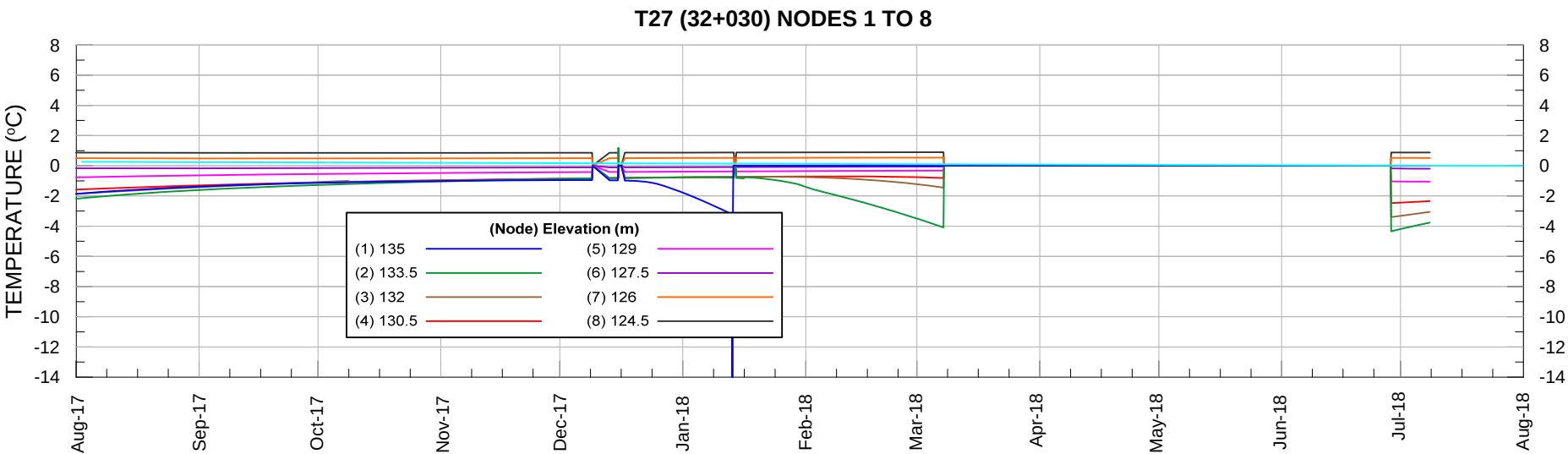
PROJECT		AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE		BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug 1/17 to Aug 1/18)			
	PROJECT No.			PHASE No.	
	DESIGN	TD	20JAN14	SCALE	AS SHOWN
	CADD	TD	20JAN14	FIGURE 40	
	CHECK				
REVIEW					



PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT					
TITLE	BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug 1/17 to Aug 1/18)					
	PROJECT No.			PHASE No.		
	DESIGN	TD	20JAN14	SCALE	AS SHOWN	REV.
	CADD	TD	20JAN14	FIGURE 41		
	CHECK					
	REVIEW					

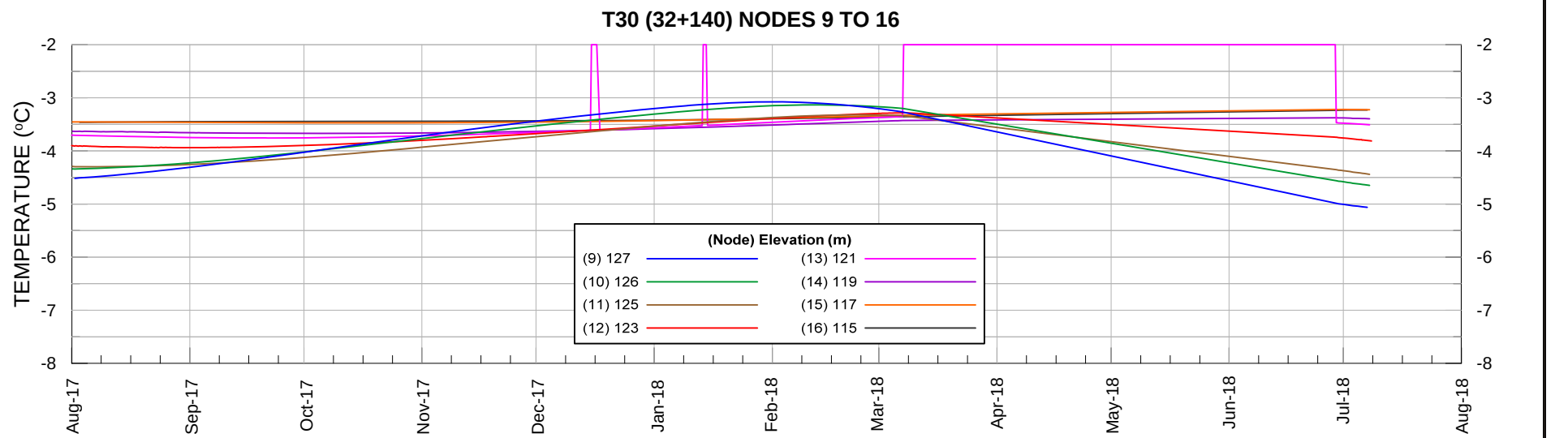
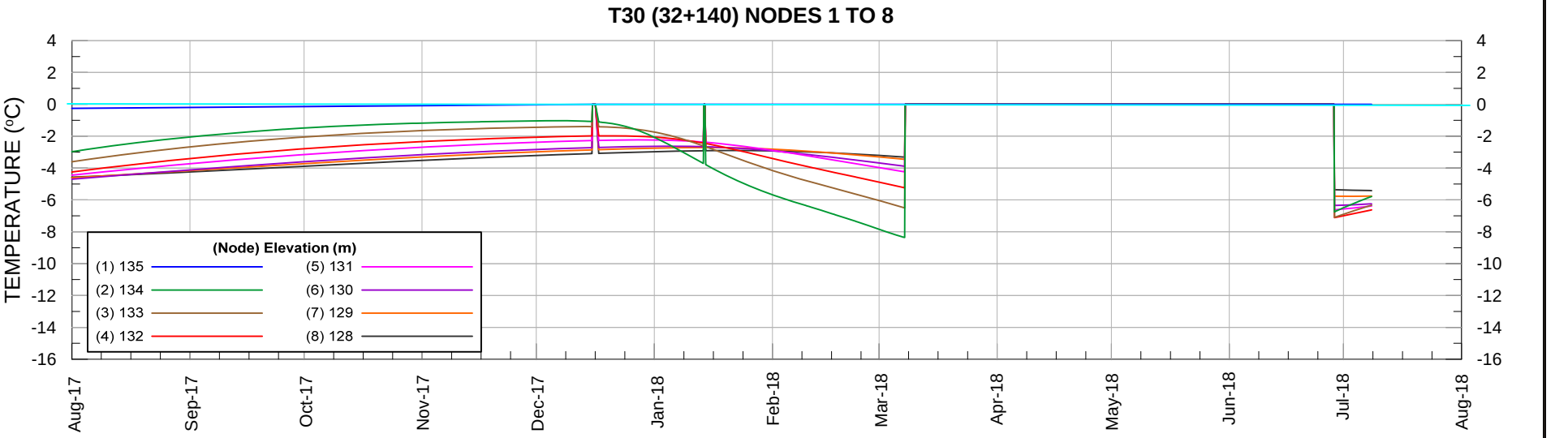
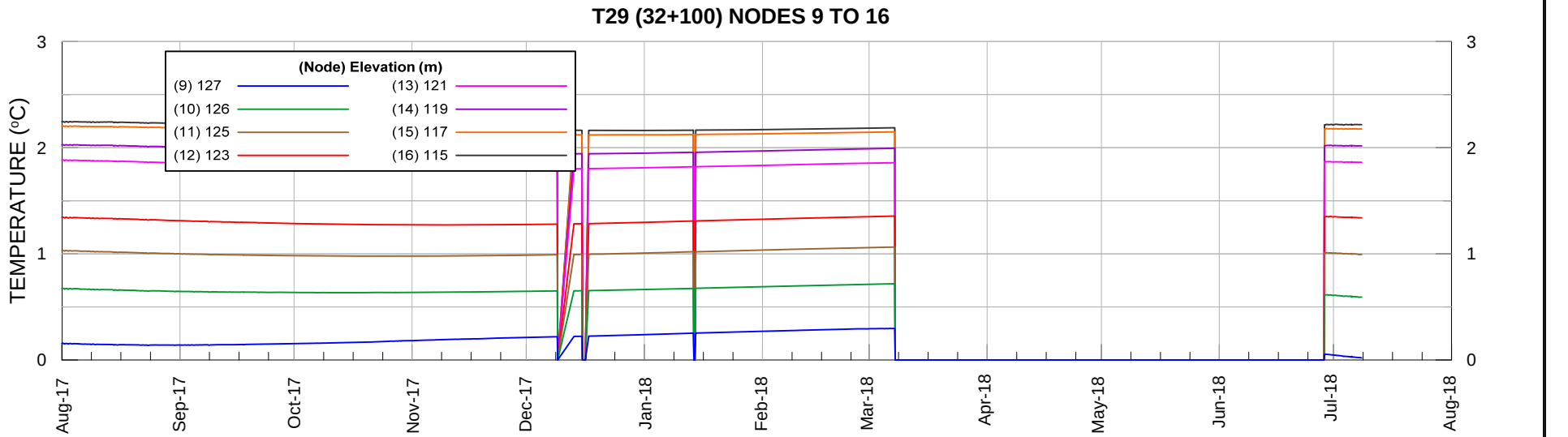
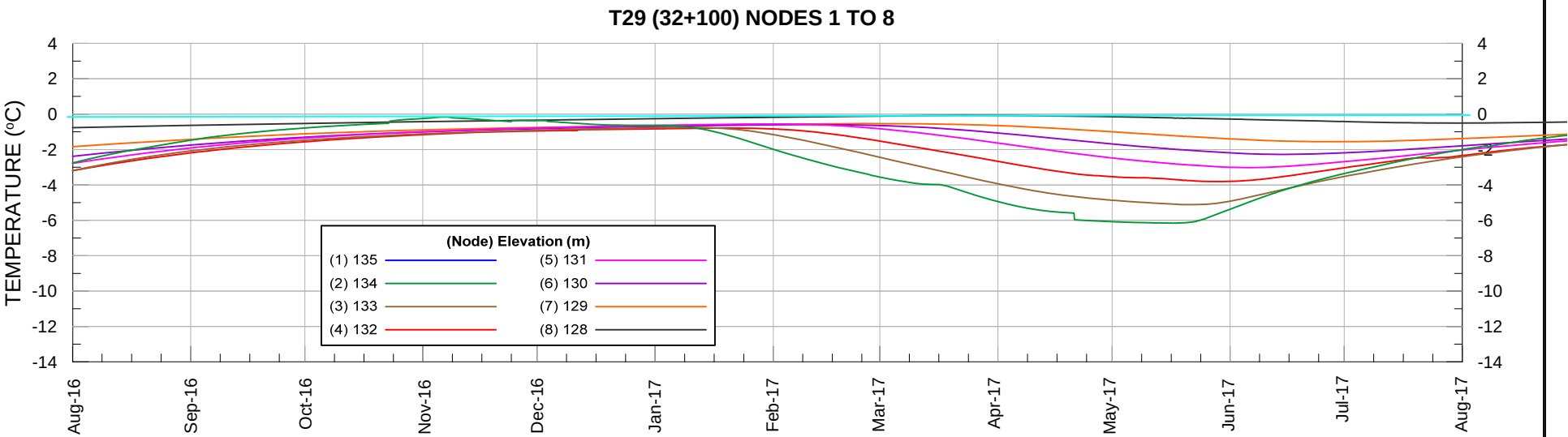


PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE	BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug 1/17 to Aug 1/18)				
	PROJECT No.			PHASE No.	
	DESIGN	TD	20JAN14	SCALE	AS SHOWN
	CADD	TD	20JAN14	REV.	
	CHECK			FIGURE 42	
REVIEW					



Note: The jump in temperature is an error with the instrument. Inspections in the field yielded no results.

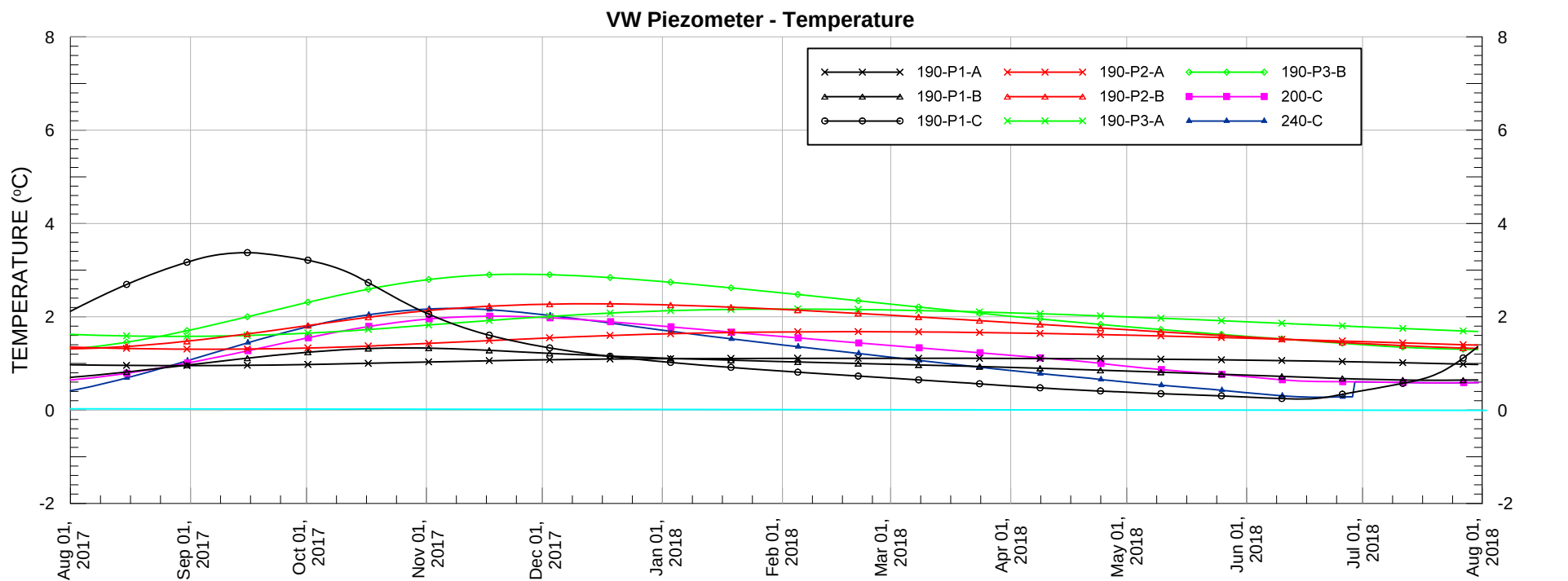
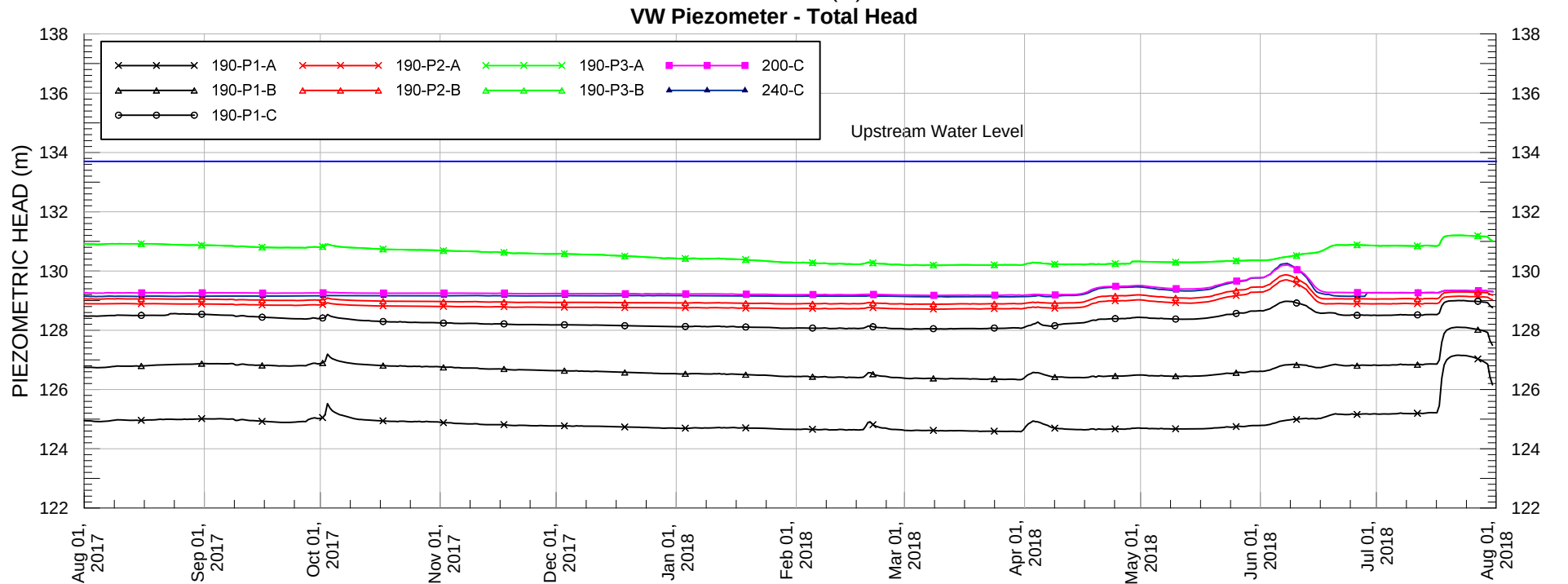
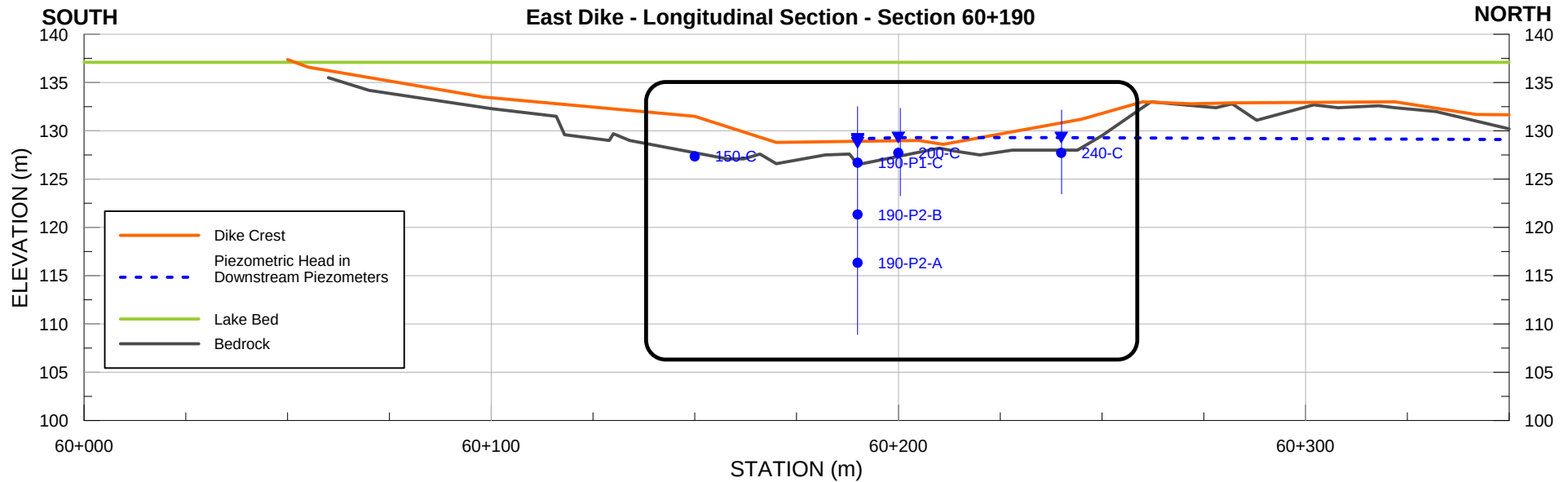
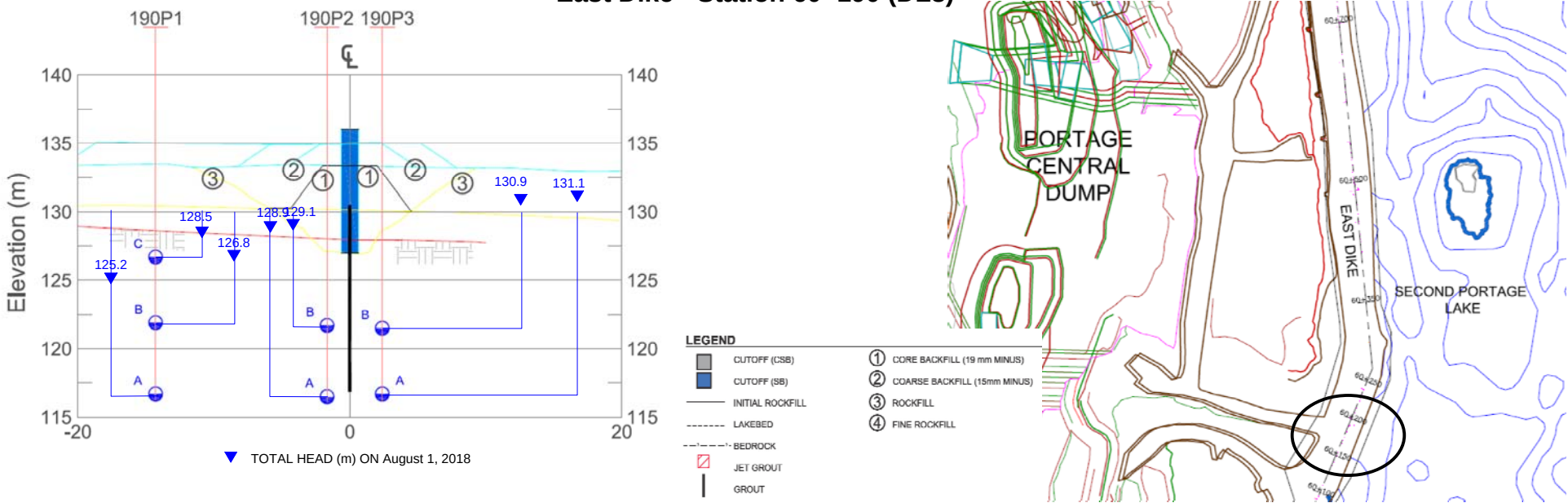
PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE	BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug 1/17 to Aug 1/18)				
	PROJECT No.			PHASE No.	
	DESIGN	TD	17JAN14	SCALE	AS SHOWN
	CADD	TD	17JAN14	REV.	
	CHECK			FIGURE 43	
REVIEW					



Note: The jump in temperature is an error with the instrument. Inspections in the field yielded no results.

PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE	BAYGOOSE DIKE NODAL THERMAL TIMELINES (Aug 1/17 to Aug 1/18)				
	PROJECT No.			PHASE No.	
	DESIGN	TD	17JAN14	SCALE	AS SHOWN
	CADD	TD	17JAN14	REV.	
	CHECK			FIGURE 44	
	REVIEW				

East Dike - Station 60+190 (DL8)

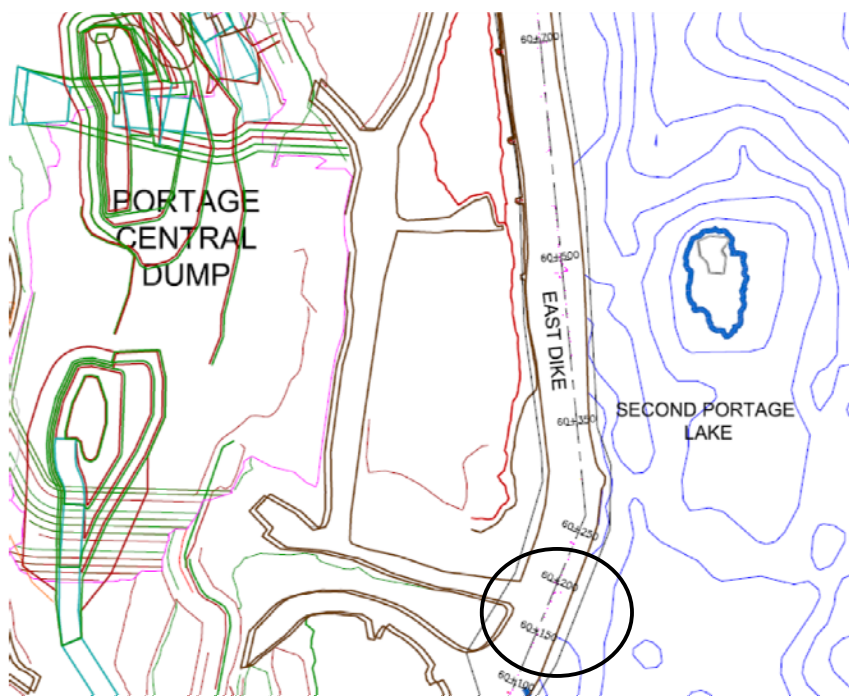
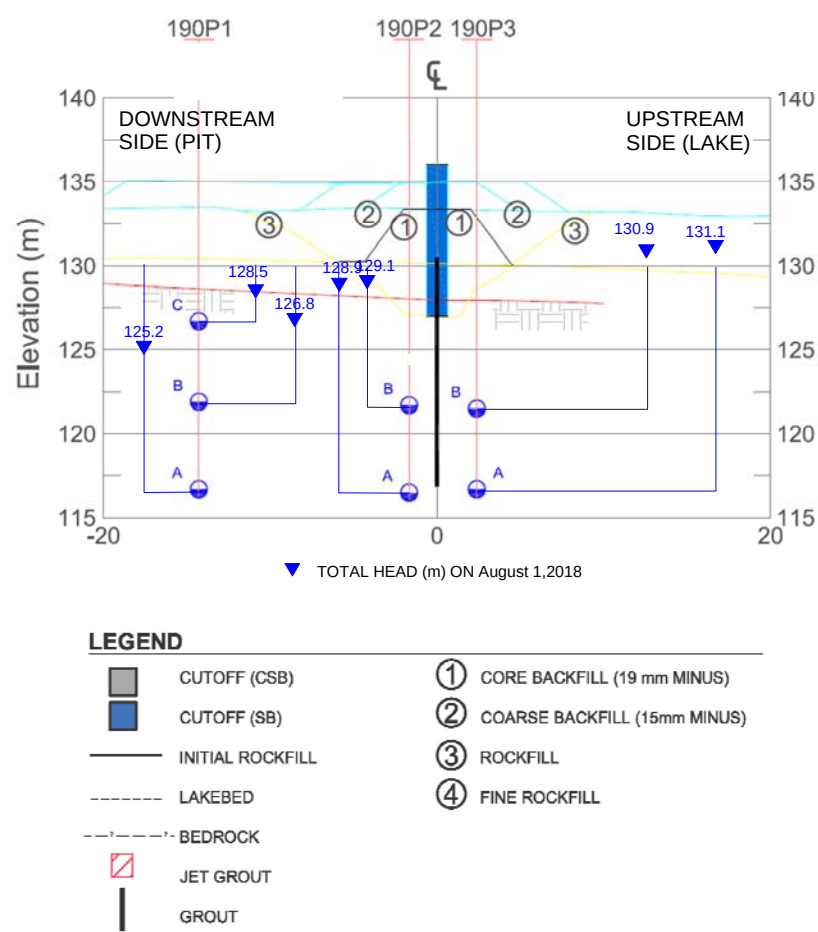


NOTES:

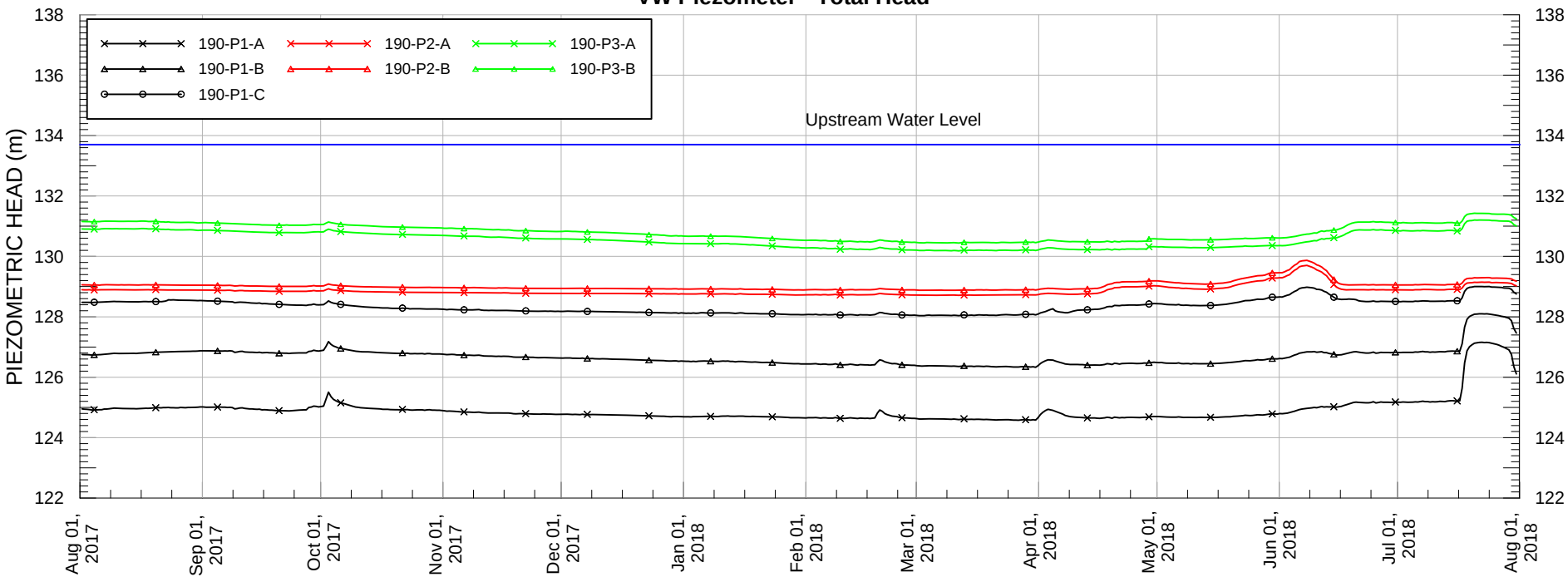
- 1: 150-C stopped working in Nov 2012
- 2: Change in PWP and temperature are related to the discharge pipe changed from pit to lake.
- 3: There was a rise in PWP in June. Inspections of the area noted no changes.

PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE	EAST DIKE Section 60+190 - PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
	PROJECT No.	PHASE No.		
	DESIGN	TD	28AUG14	SCALE AS SHOWN
	CADD	TD	28AUG14	REV.
	CHECK	PG	28AUG14	
REVIEW				FIGURE 45

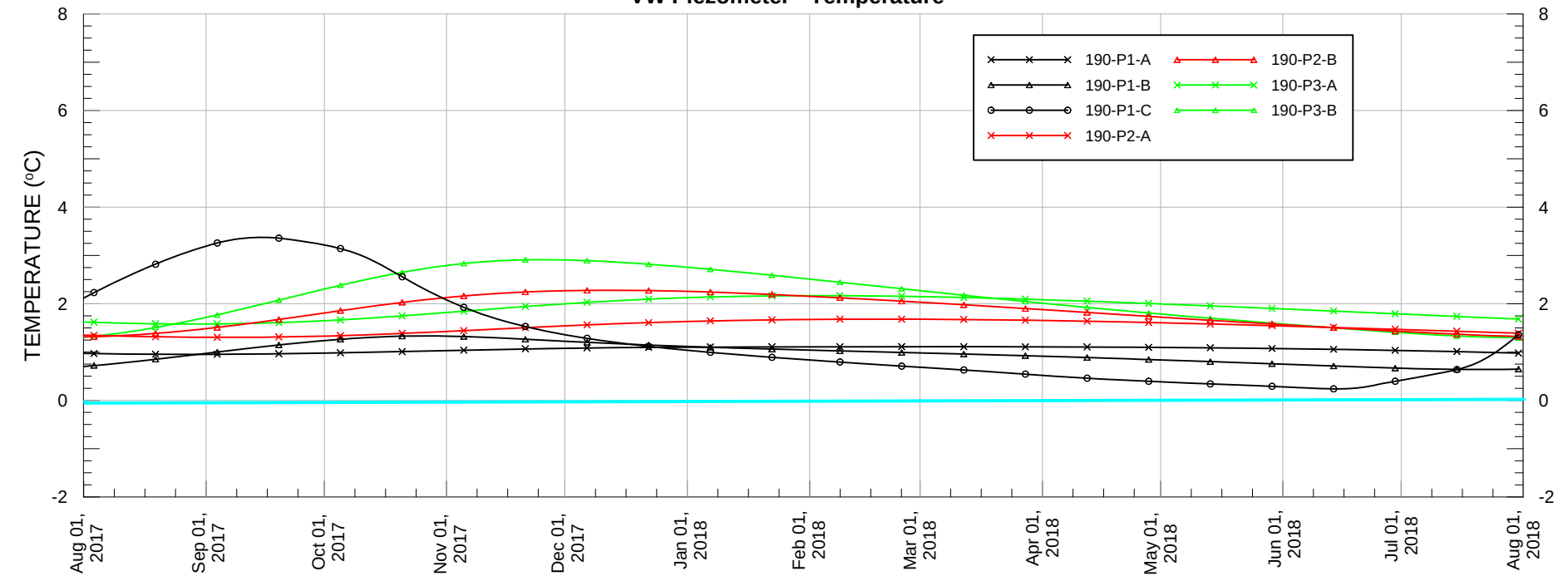
STATION 60+190



VW Piezometer - Total Head



VW Piezometer - Temperature

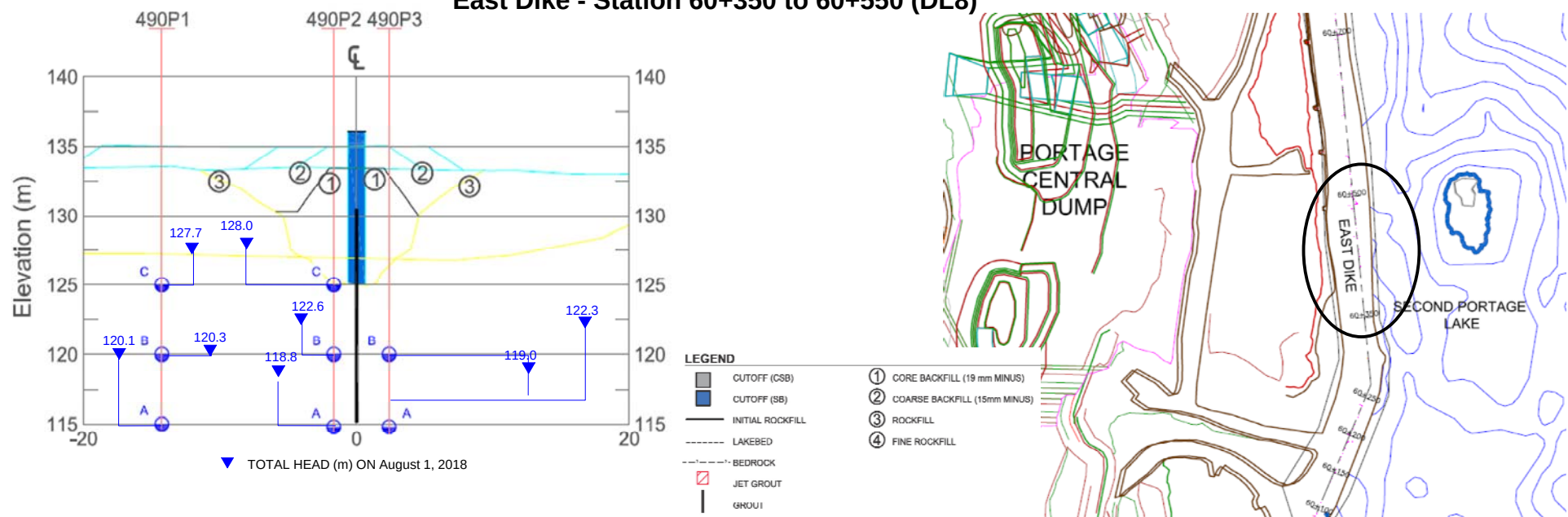


NOTES:

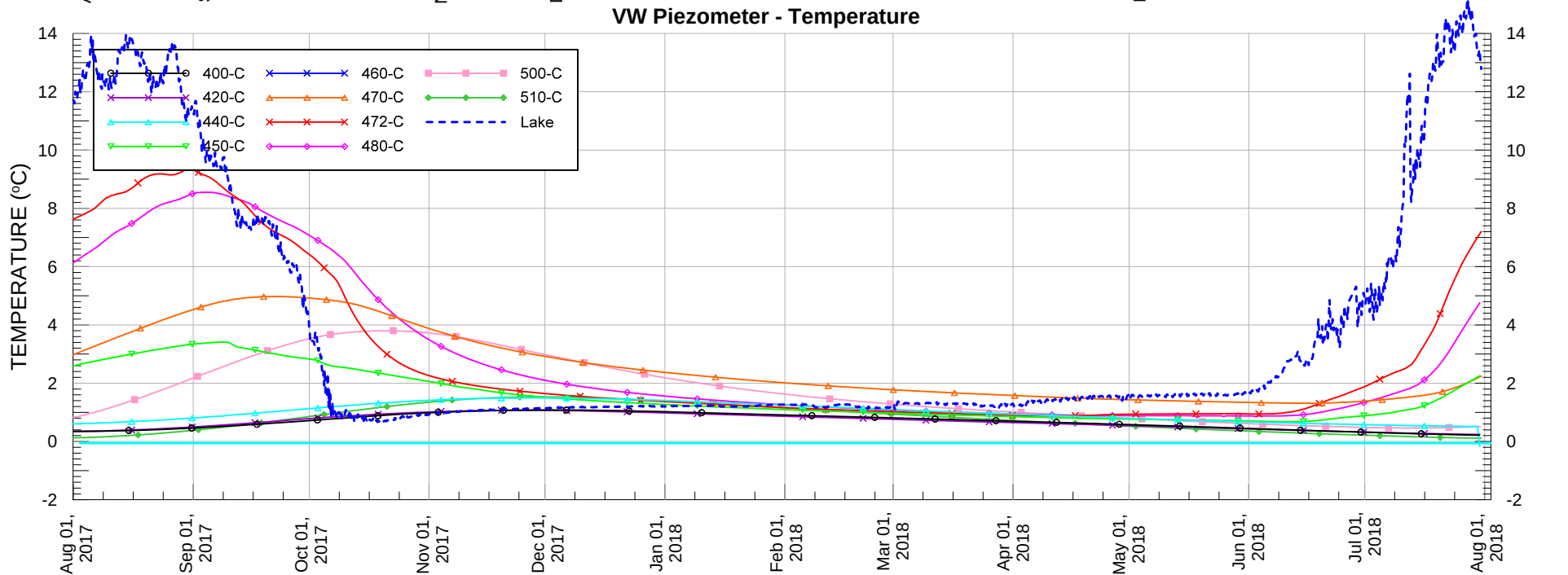
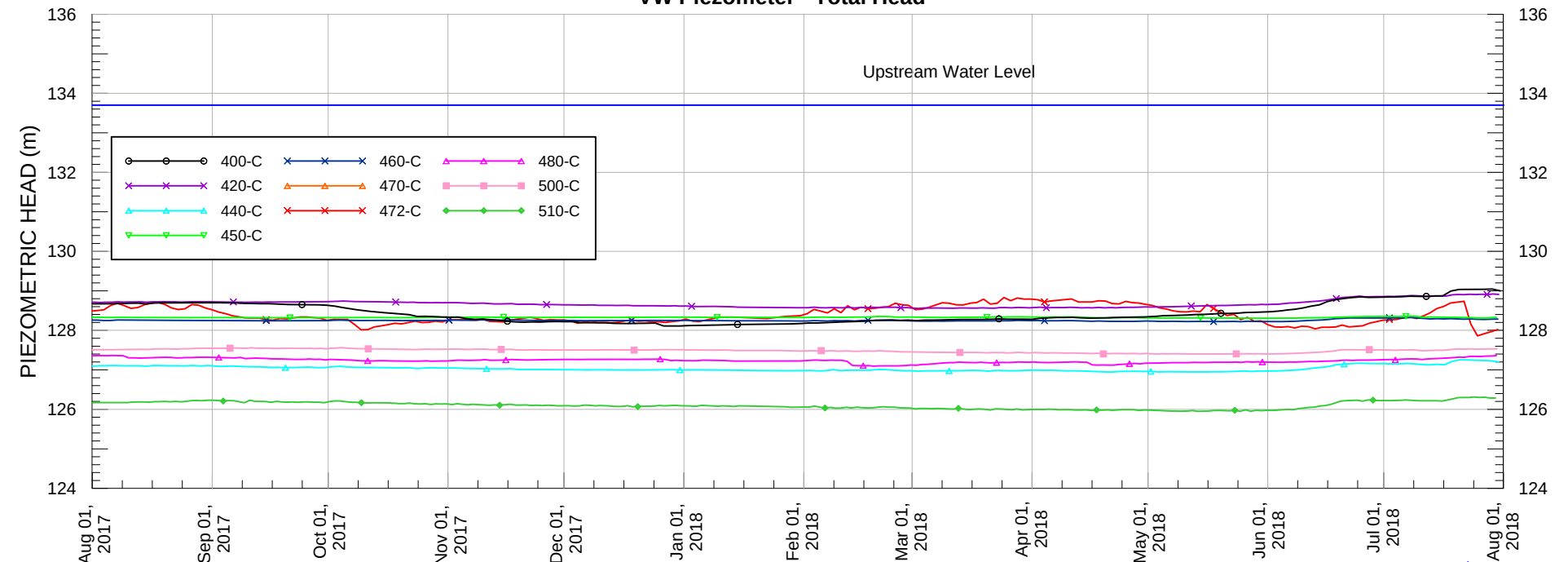
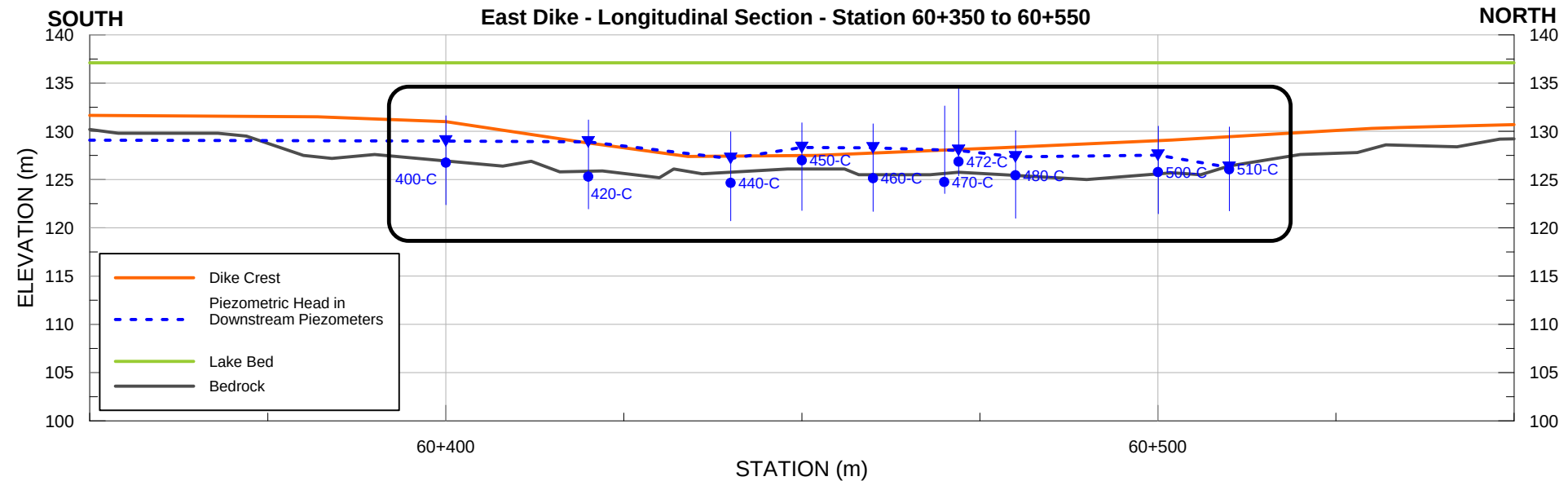
1. Change in PWP and temperature are related to the discharge pipe changed from pit to lake and lake to pit.

PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT				
TITLE	EAST DIKE - SECTION 60+190 PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)				
	PROJECT No.			PHASE No.	
	DESIGN	TD	28AUG14	SCALE	AS SHOWN
	CADD	TD	28AUG14	REV.	
	CHECK	PG	28AUG14	FIGURE 46	
REVIEW					

East Dike - Station 60+350 to 60+550 (DL8)

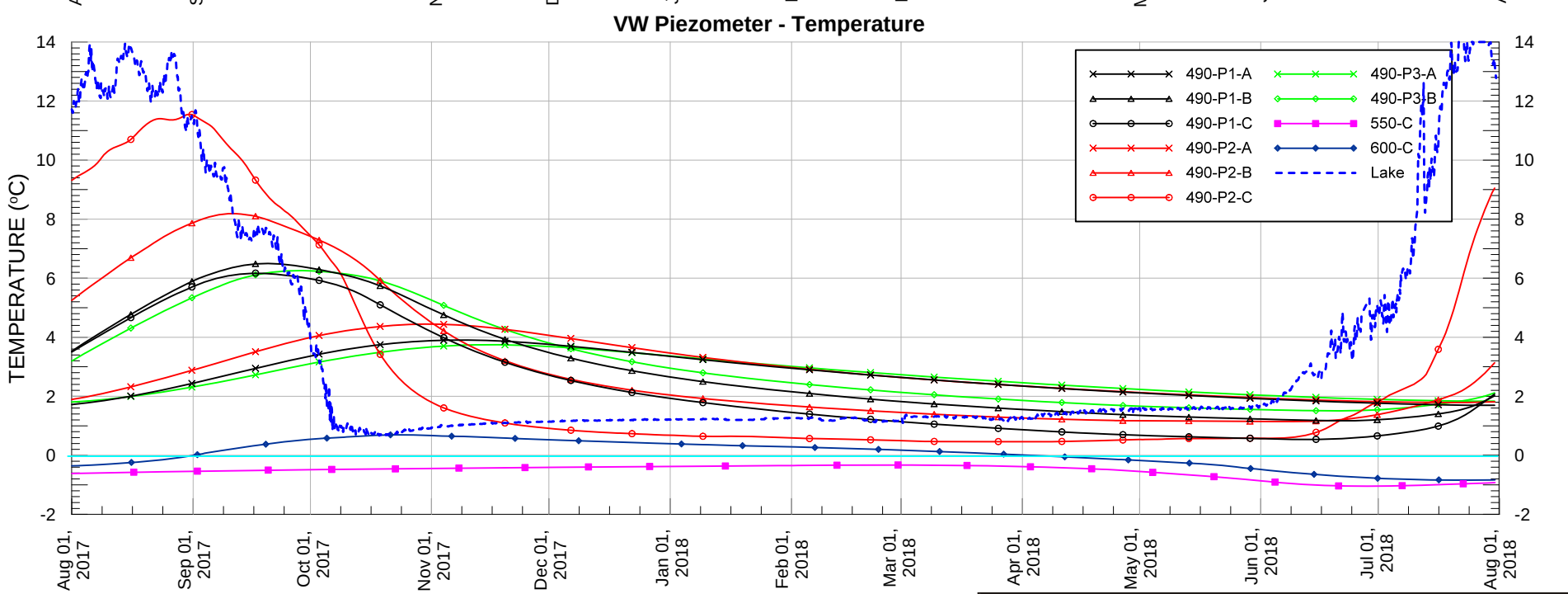
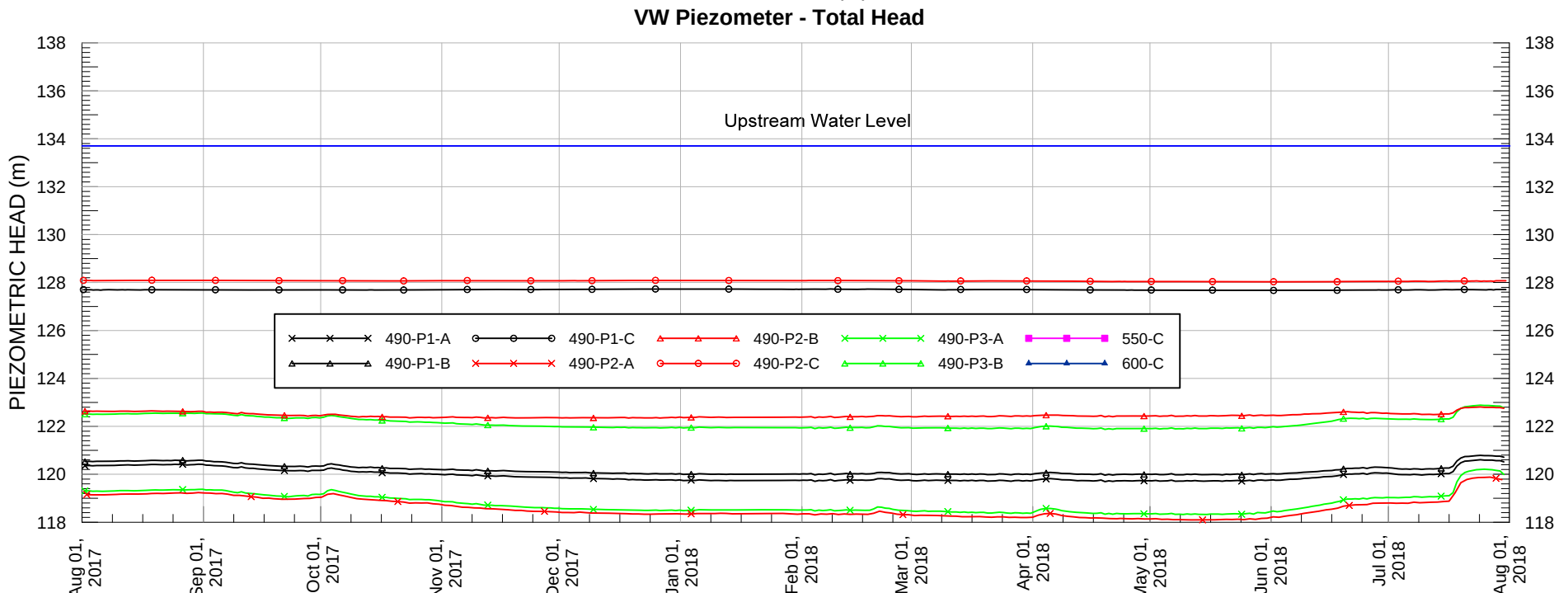
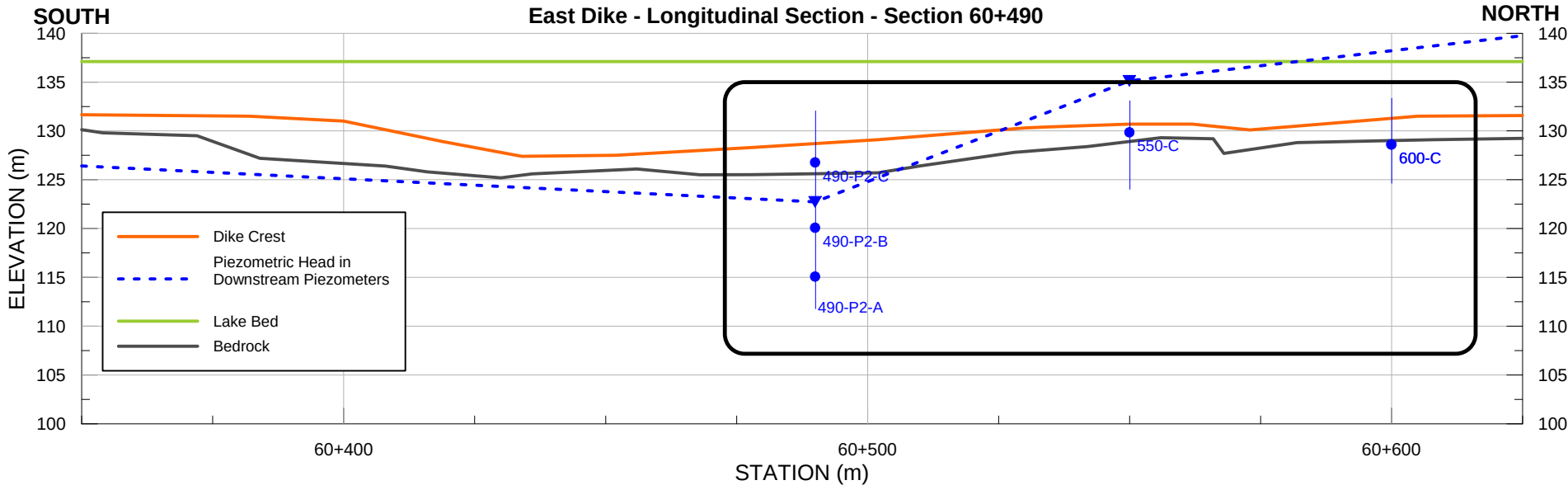
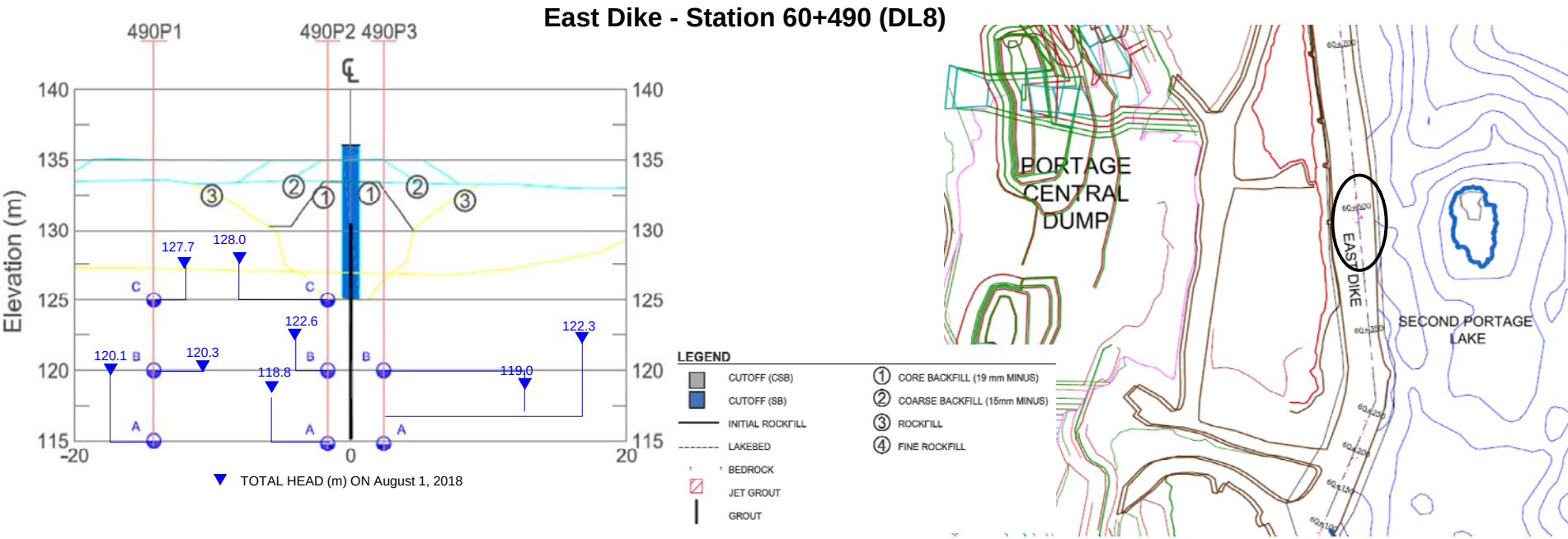


East Dike - Longitudinal Section - Station 60+350 to 60+550



NOTES:
1. As seen in the graph on the side, the progression of the temperature in the Pz follows the lake temperature closely. Usually it takes approximately one to two weeks to see the trend following the lake temperature.

PROJECT				AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE				EAST DIKE Section 60+350 to 60+550 - PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
		PROJECT No.		PHASE No.			
		DESIGN	TD	28AUG14	SCALE	AS SHOWN	REV.
		CADD	TD	28AUG14	FIGURE 47		
		CHECK	PG	28AUG14			
		REVIEW					



NOTES:

1: 550-C and 600-C are giving anomaly readings and with a negative temperature are assumed to be frozen.

2. As seen in the graph on the side, the progression of the temperature in the Pz follows the lake temperature closely. Usually it takes approximately one to two weeks to see the trend following the lake temperature.

PROJECT	AGNICO EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT NUNAVUT			
TITLE	EAST DIKE Section 60+490 - PIEZOMETRIC DATA (Aug 1/17 to Aug 1/18)			
	PROJECT No.	PHASE No.		
	DESIGN	TD	28AUG14	SCALE AS SHOWN
	CADD	TD	28AUG14	REV.
	CHECK	PG	28AUG14	
REVIEW		FIGURE 48		