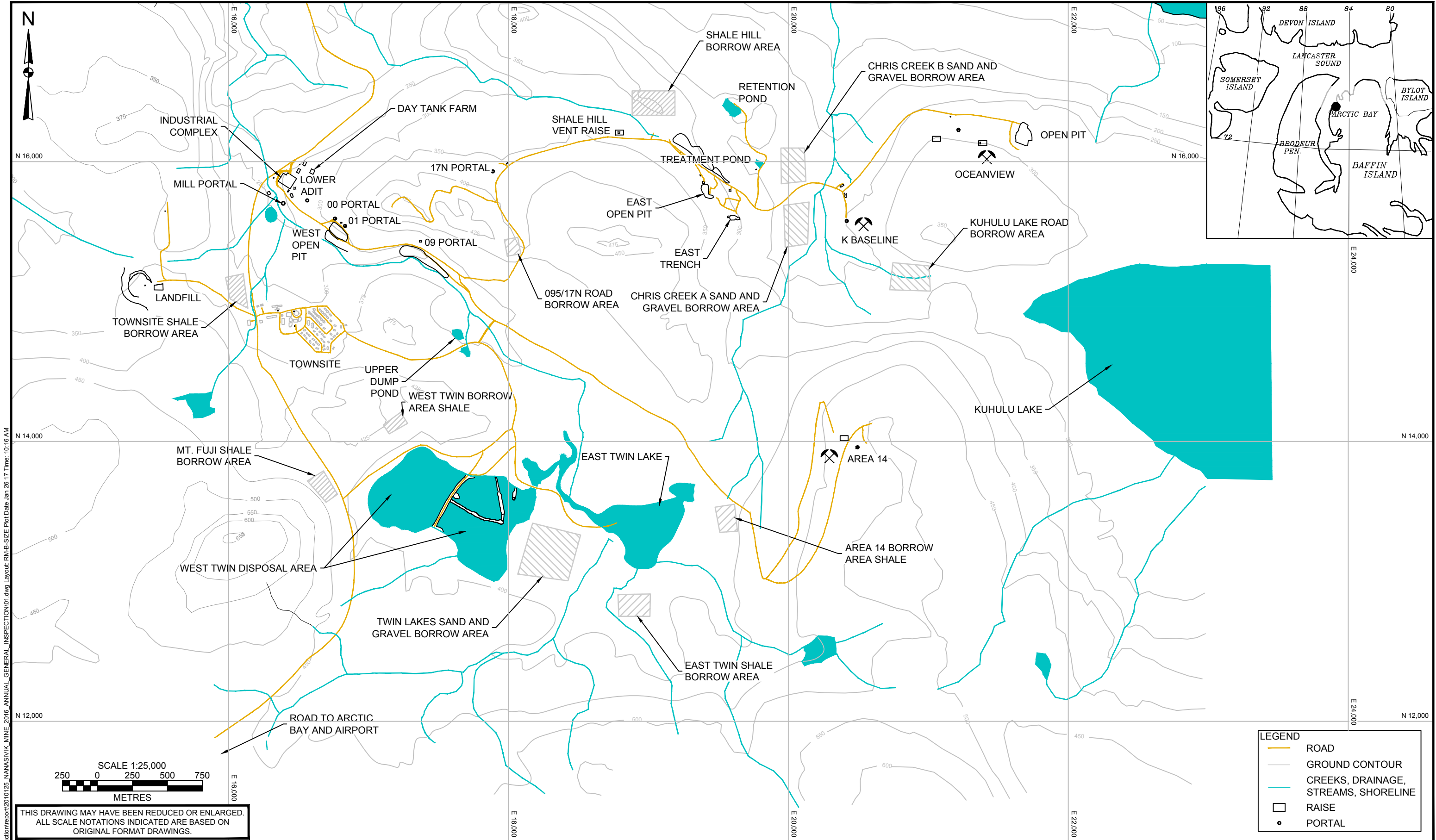


DRAWINGS



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THIS DRAWING MAY HAVE BEEN REDUCED OR ENLARGED.
ALL SCALE NOTATIONS INDICATED ARE BASED ON
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SCALE:	AS SHOWN
DATE:	MAR 2017
DRAWN:	COC
CHECKED:	SG
APPROVED:	GKC

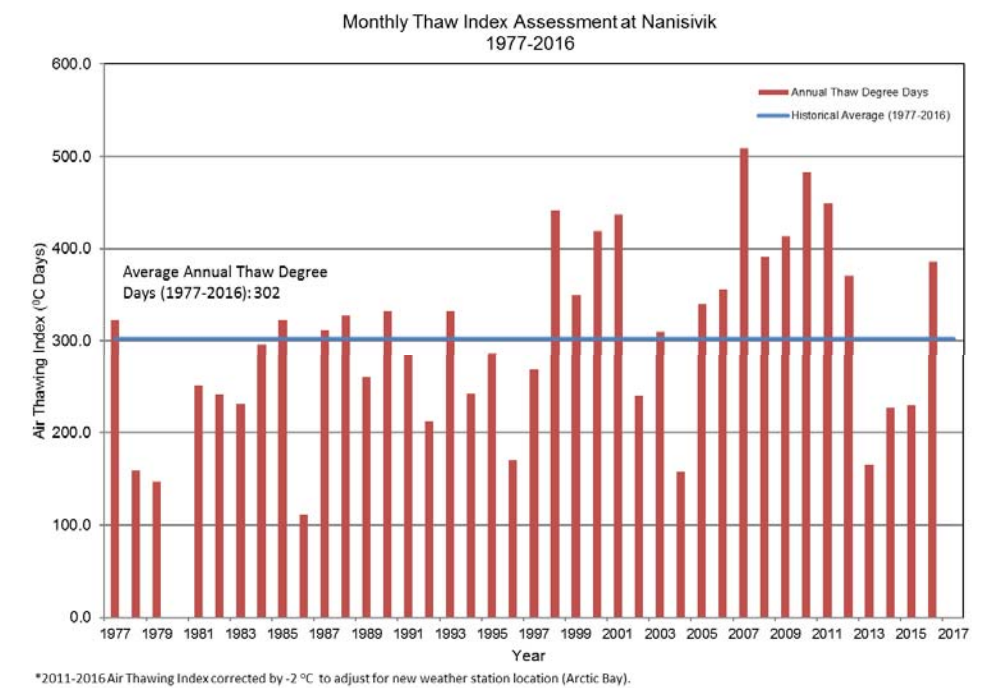
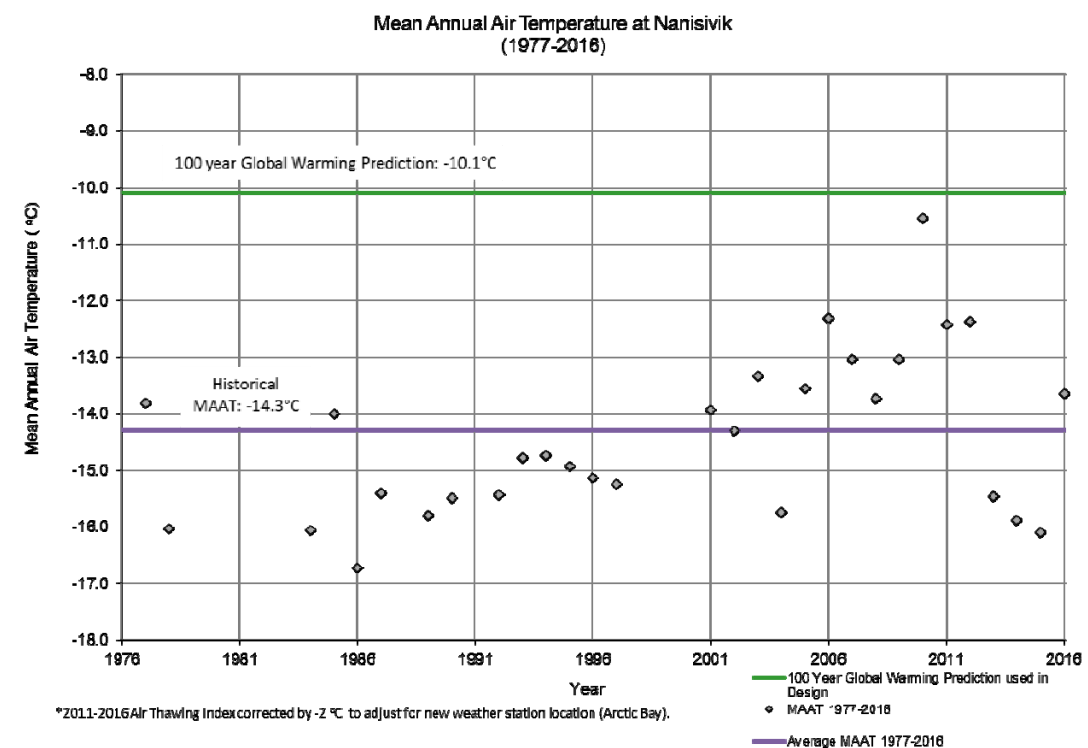
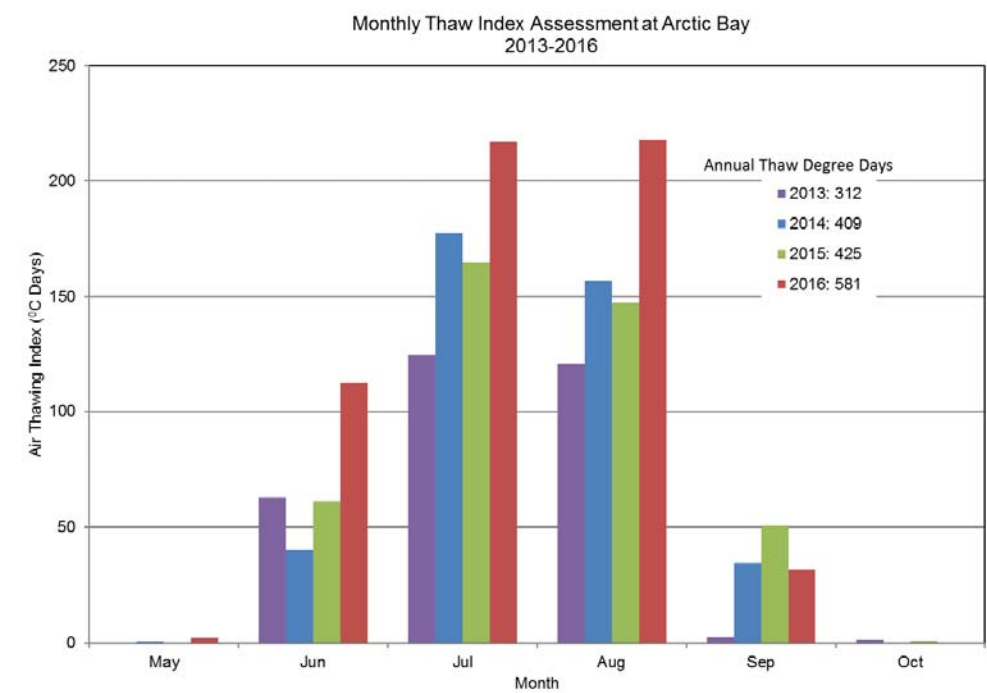
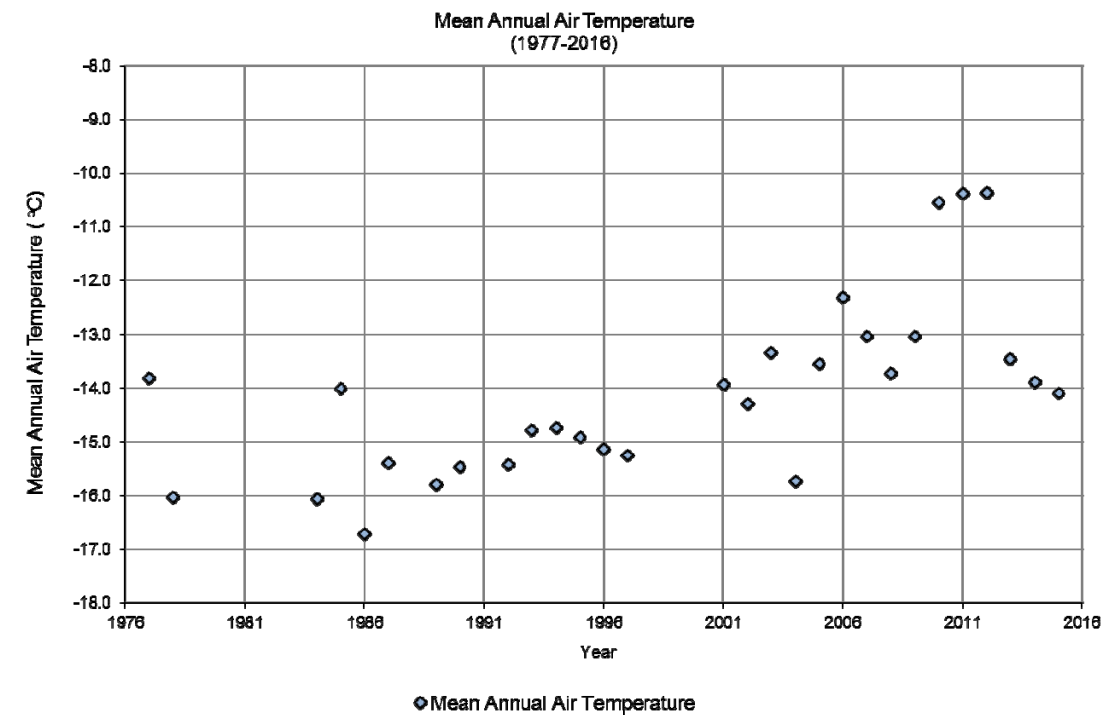
BGC

BGC ENGINEERING INC.

AN APPLIED EARTH SCIENCES COMPANY

CLIENT:

PROJECT: NANISIVIK MINE 2016 ANNUAL GEOTECHNICAL INSPECTION	
TITLE: SITE LOCATION PLAN	
PROJECT No.: 0255-027-03	DWG No.: 01



DRAWING TO BE READ WITH BGC REPORT TITLED: "NANISVIK MINE 2016 GEOTECHNICAL INSPECTION", DATED MAR 2017

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CLIENT: **nyrstar**

REPORT TITLE: NANISVIK MINE 2016 ANNUAL GEOTECHNICAL INSPECTION	
DRAWING TITLE: CLIMATE DATA	
PROJECT NO.: 0255-027-03	DRAWING NO.: 02



Note:

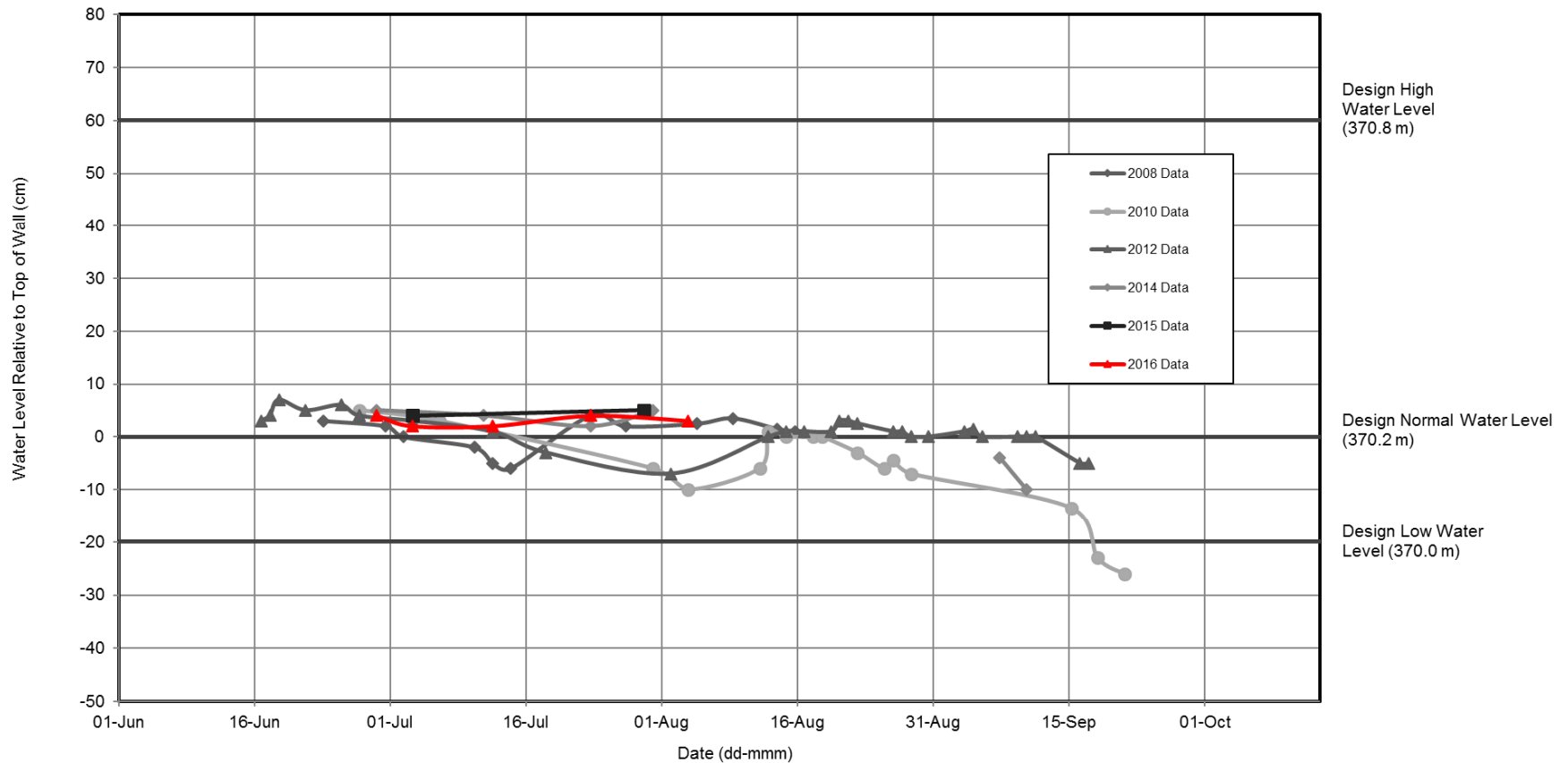
1. Photo derived from Google Earth January 27, 2017
2. Imagery date July 28, 2015.

Approximate Scale
1:10,000

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	DATE:	MAR 2017		2016 ANNUAL GEOTECHNICAL INSPECTION		
	DESIGNED:	GKC		TITLE: COMPONENTS OF WEST TWIN DISPOSAL AREA		
	DRAWN:	SG				
	CHECKED:	JWC	CLIENT:		DWG No.:	03
	APPROVED:	GKC			PROJ No.:	0255-027-03
				REV:		

WestTwin Outlet (159-4)
Water Level Measurement



DRAWING TO BE READ WITH BGC REPORT TITLED: "NANISIVIK MINE 2016 GEOTECHNICAL INSPECTION", MARCH 2017

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DRAWN: SG
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APPROVED: GKC

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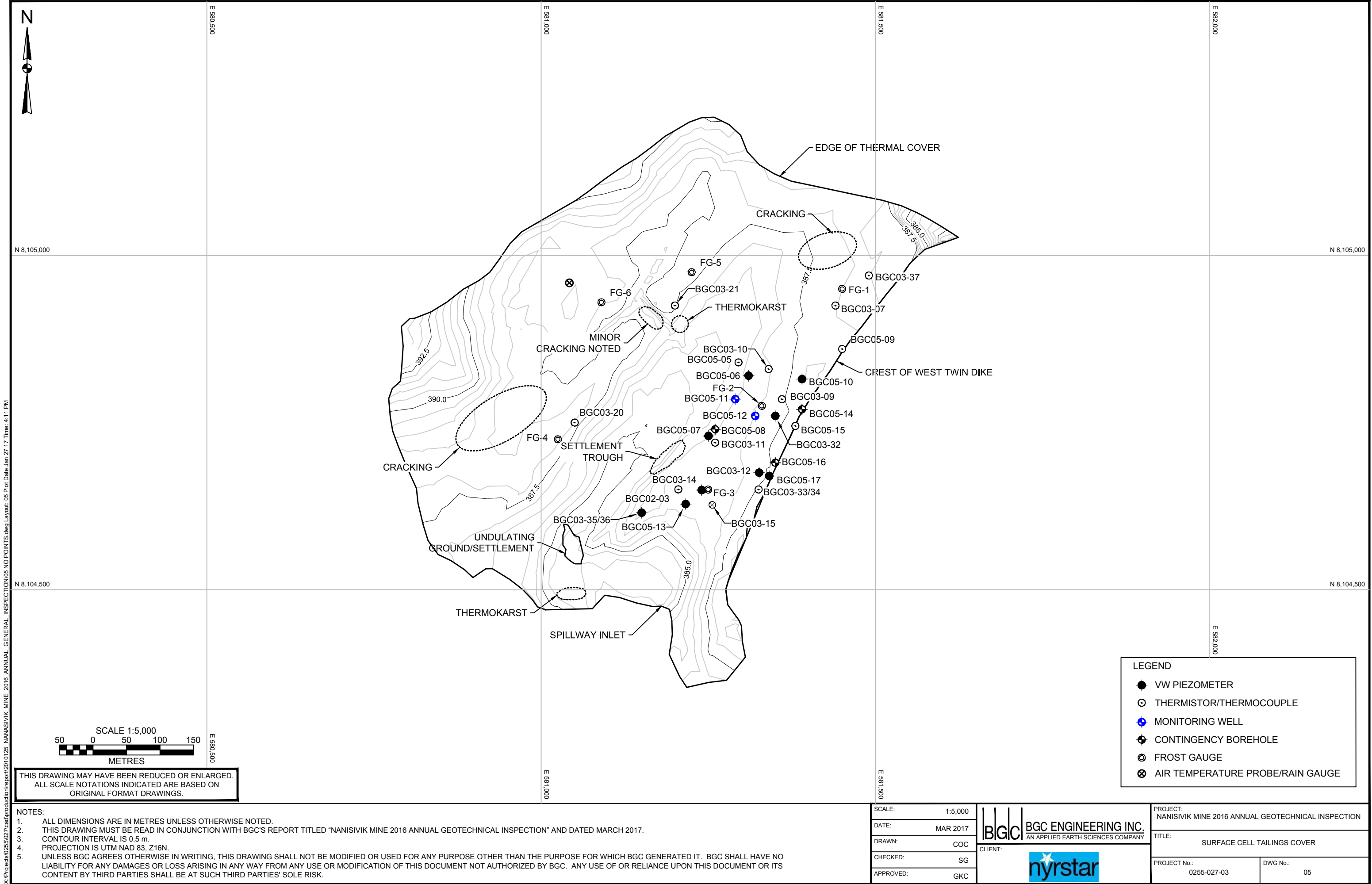
PROJECT: NANISIVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

TITLE: WATER LEVELS AT WEST TWIN OUTLET WALL

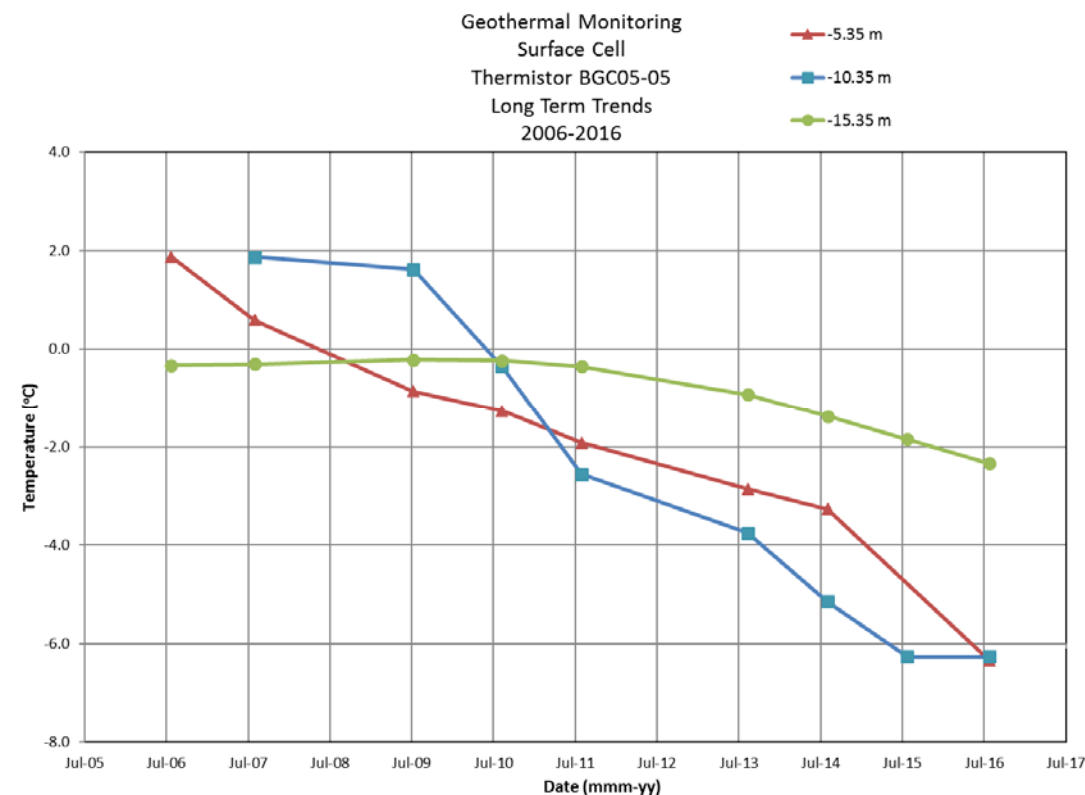
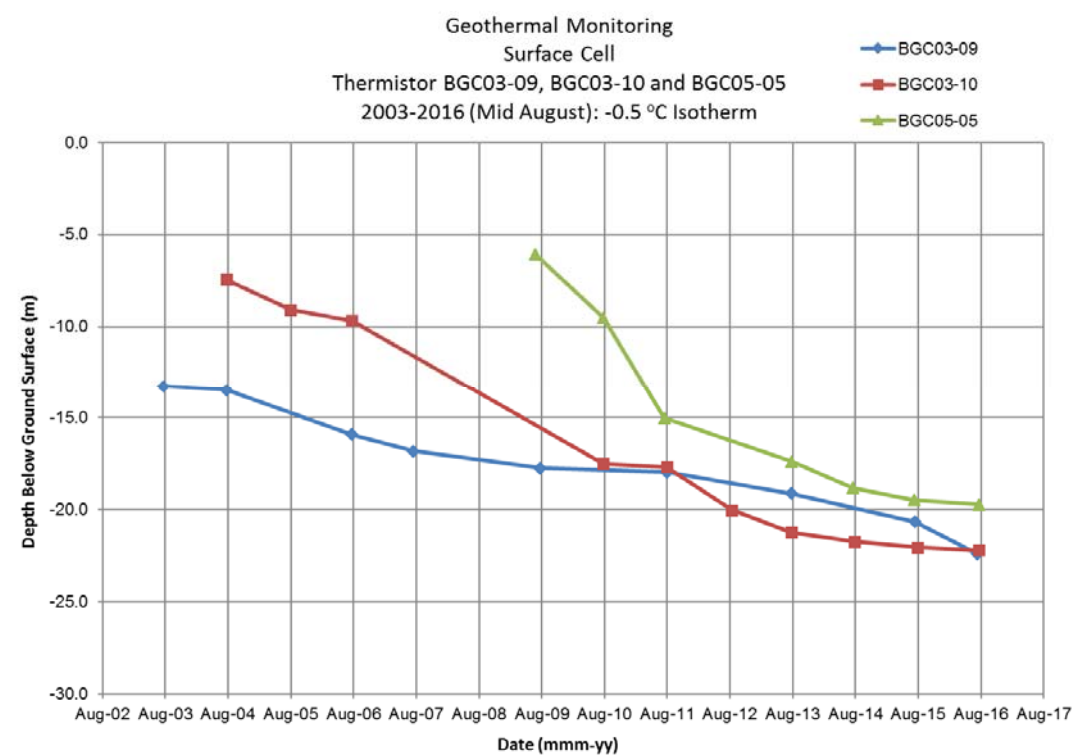
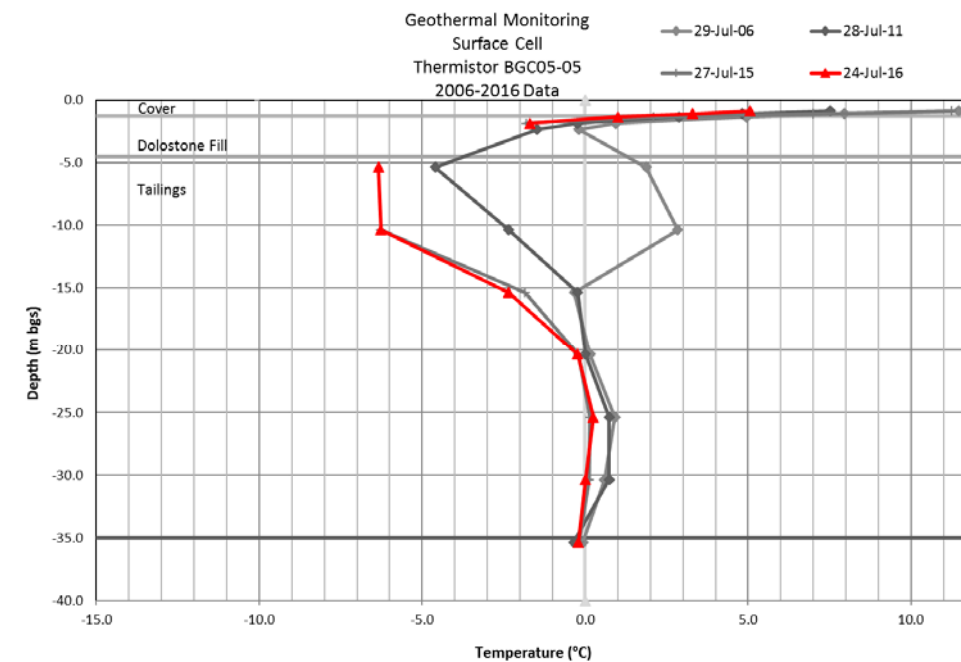
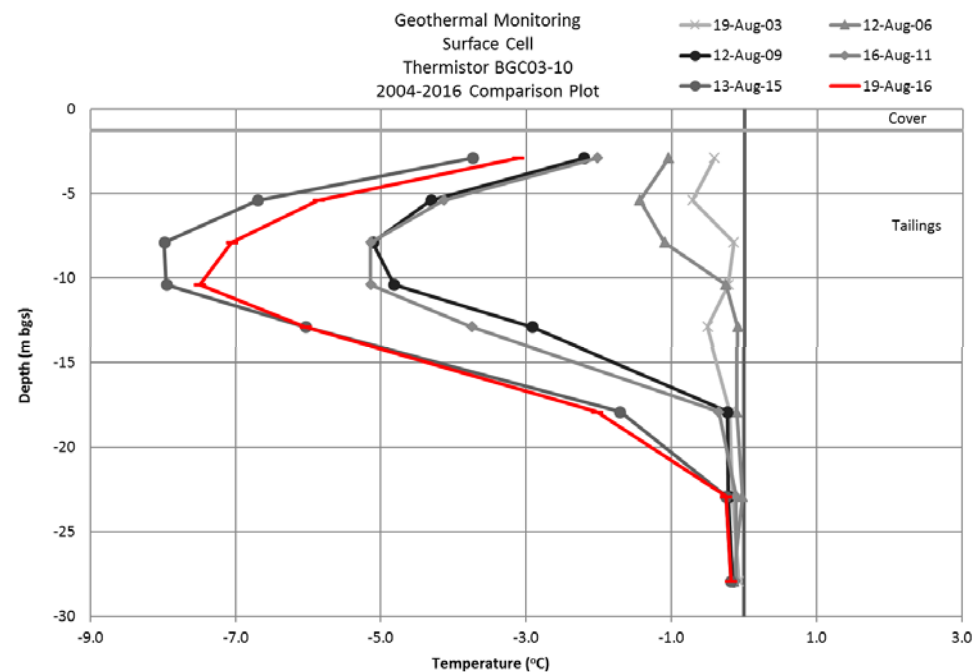
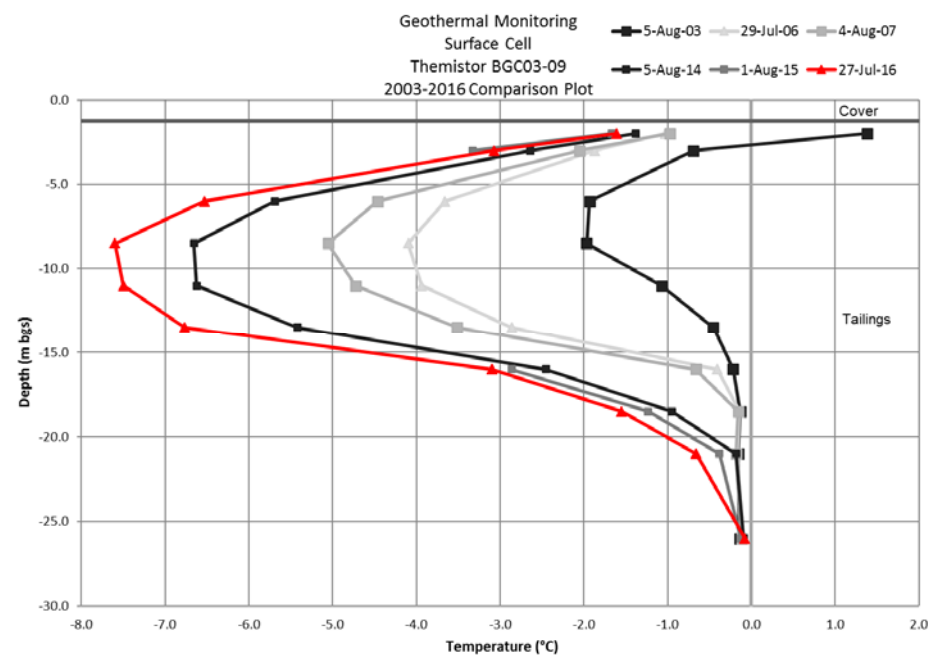
DWG No.: 04

PROJ No.: 0255-027-03

REV:



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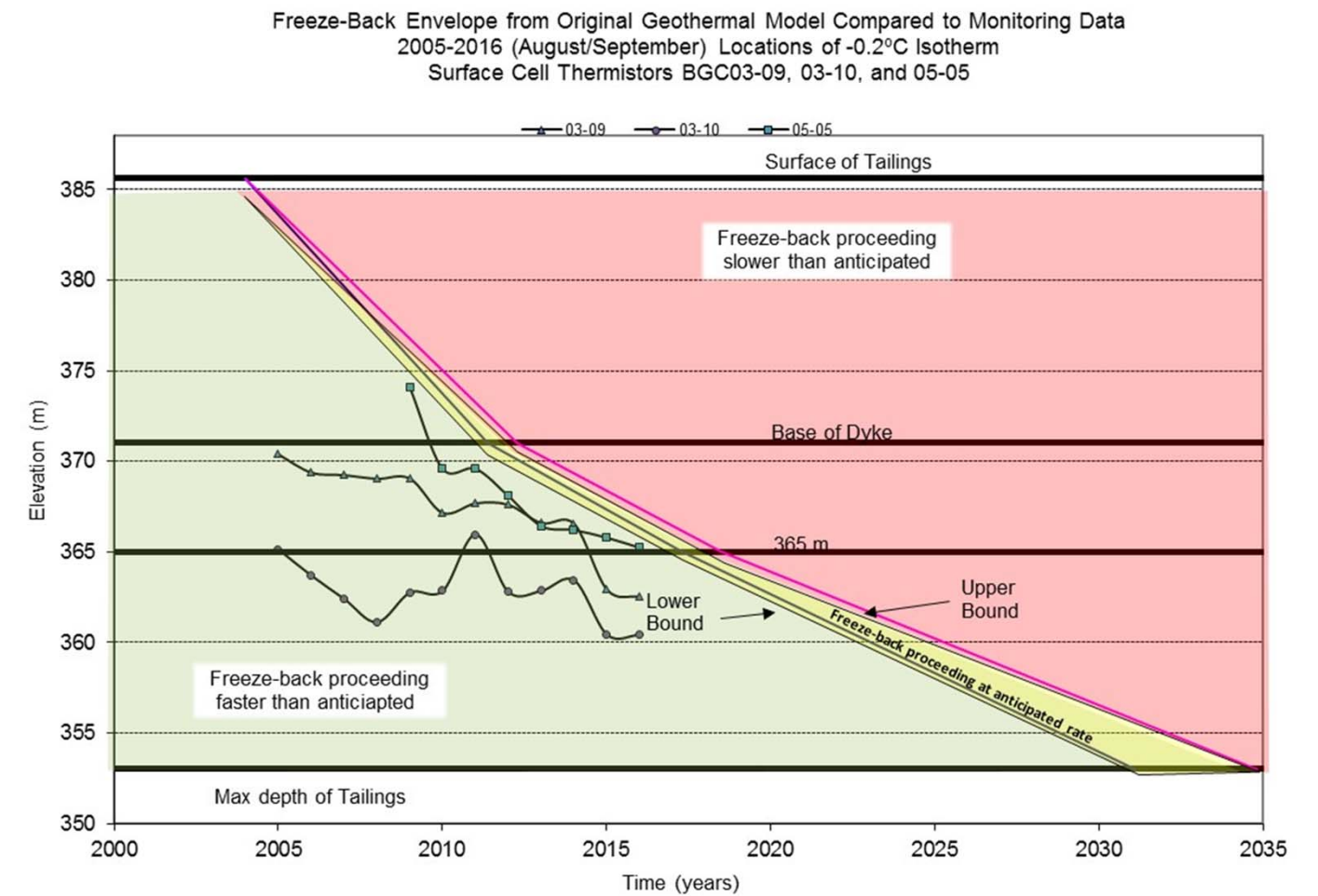
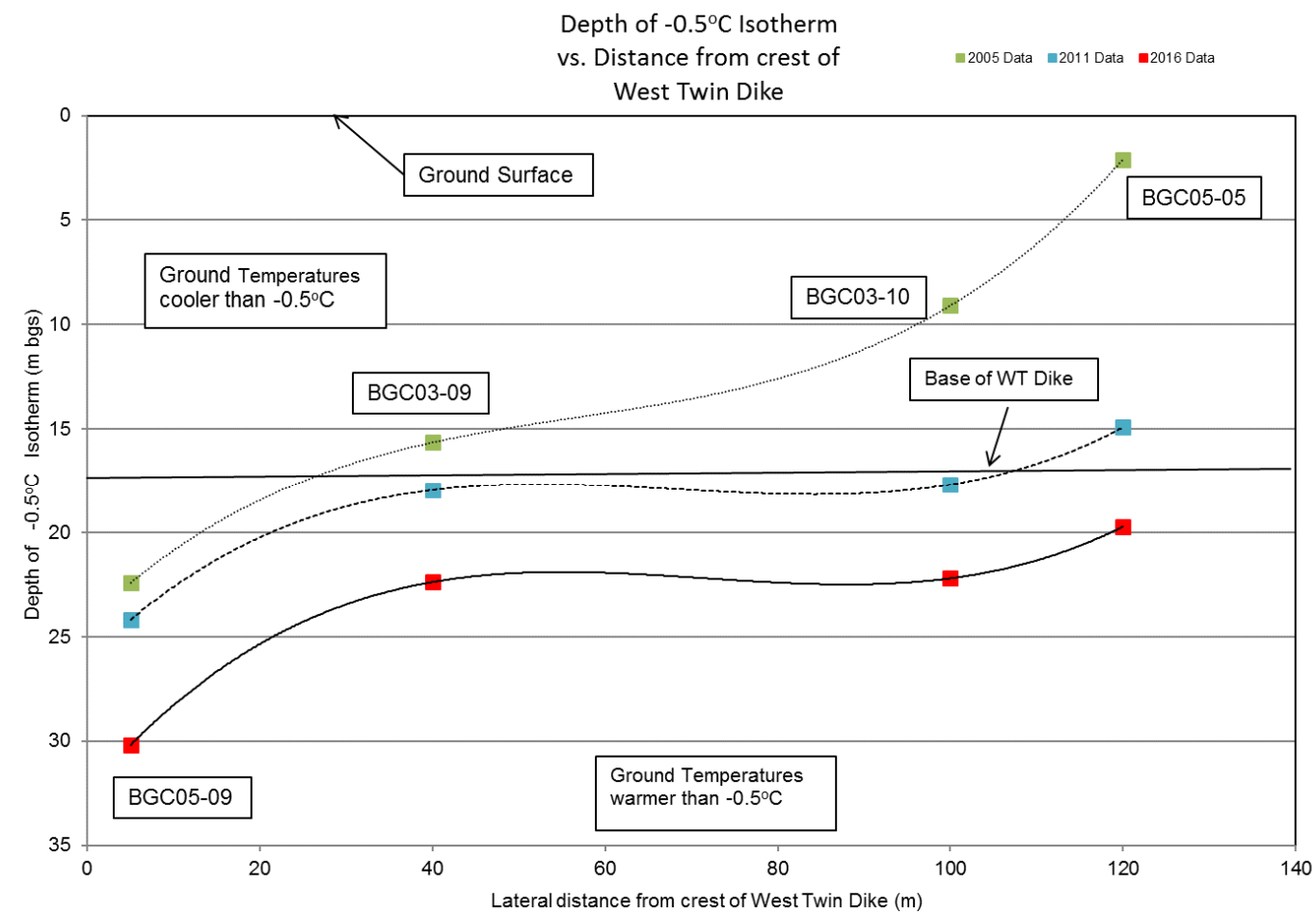


REPORT TITLE:
NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

DRAWING TITLE:
SURFACE CELL TAILINGS COVER
GEOTECHNICAL MONITORING DATA 1

PROJECT NO.:
0255-027-03

DRAWING NO.:
06



DRAWING TO BE READ WITH BGC REPORT TITLED: "NANISVIK MINE 2016 GEOTECHNICAL INSPECTION", DATED MAR 2017

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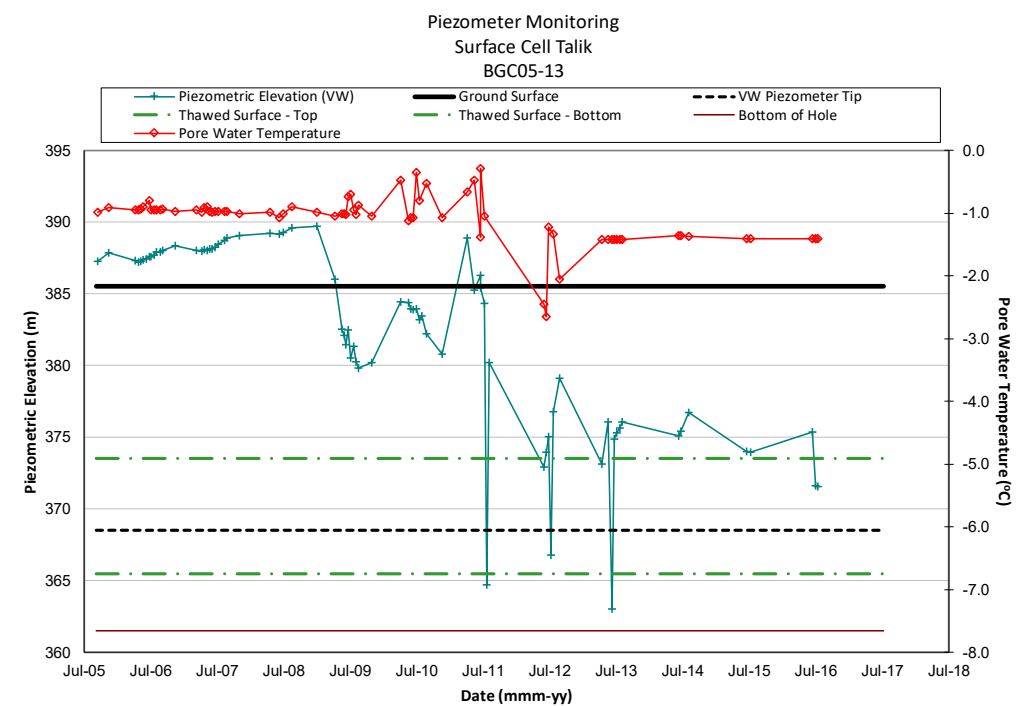
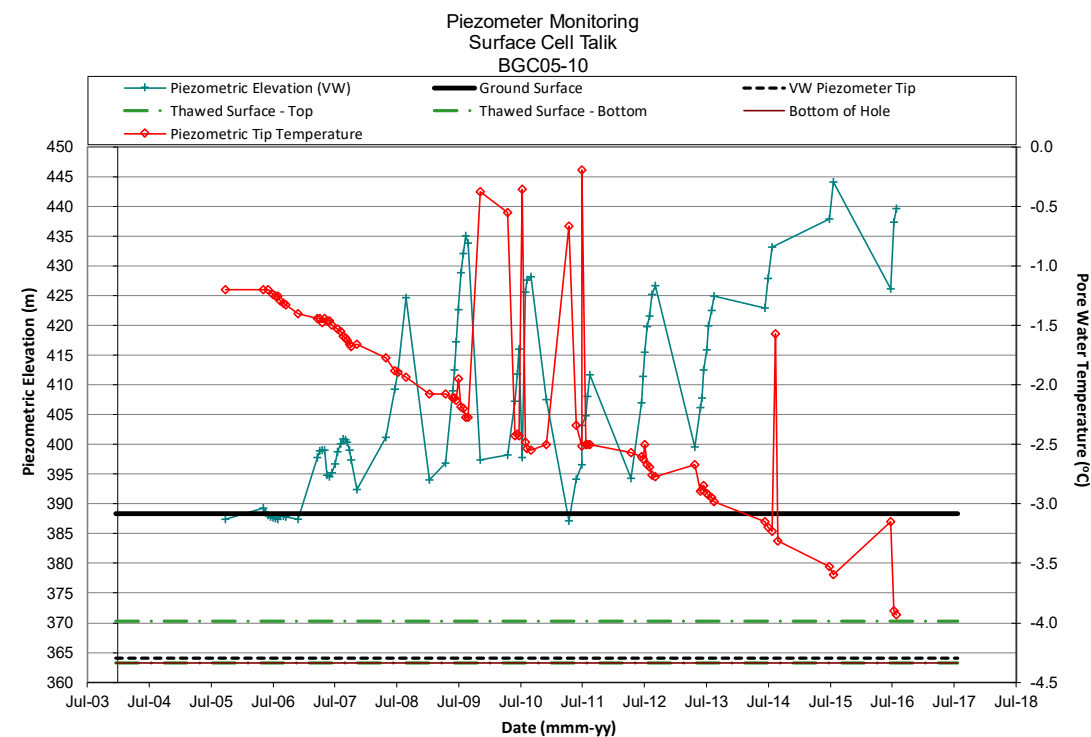
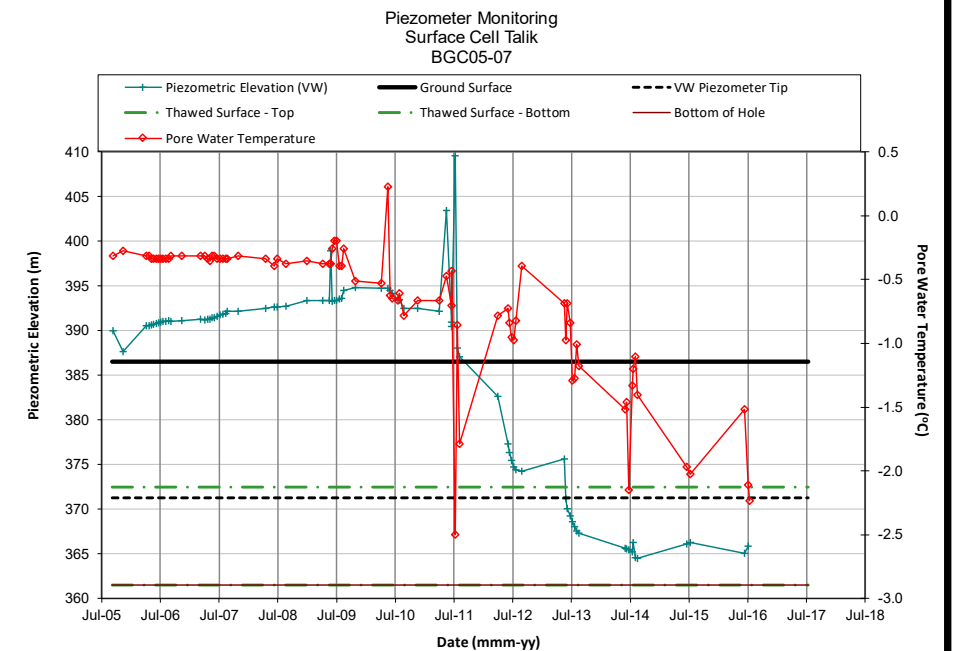
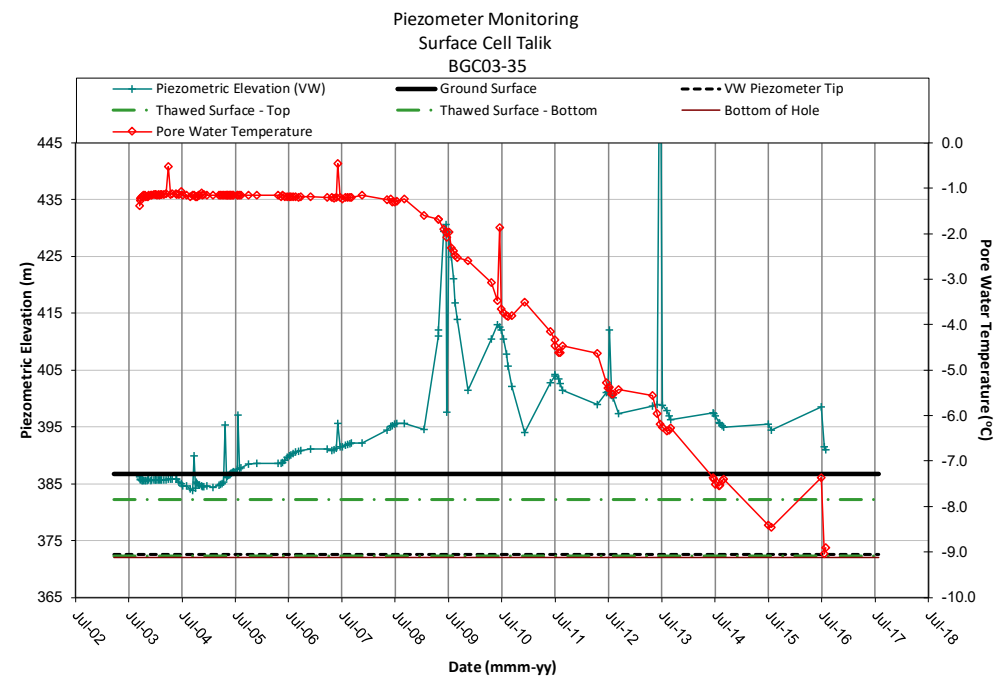
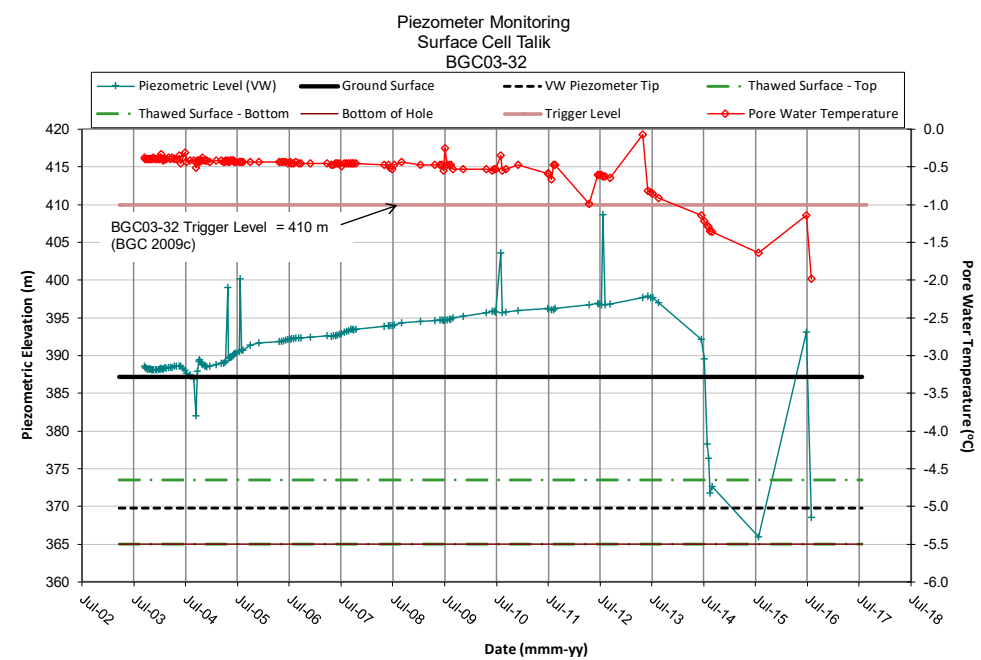


REPORT TITLE:
NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

DRAWING TITLE:
SURFACE CELL TAILINGS COVER
GEOTECHNICAL MONITORING DATA 2

PROJECT NO.:
0255-027-03

DRAWING NO.:
07



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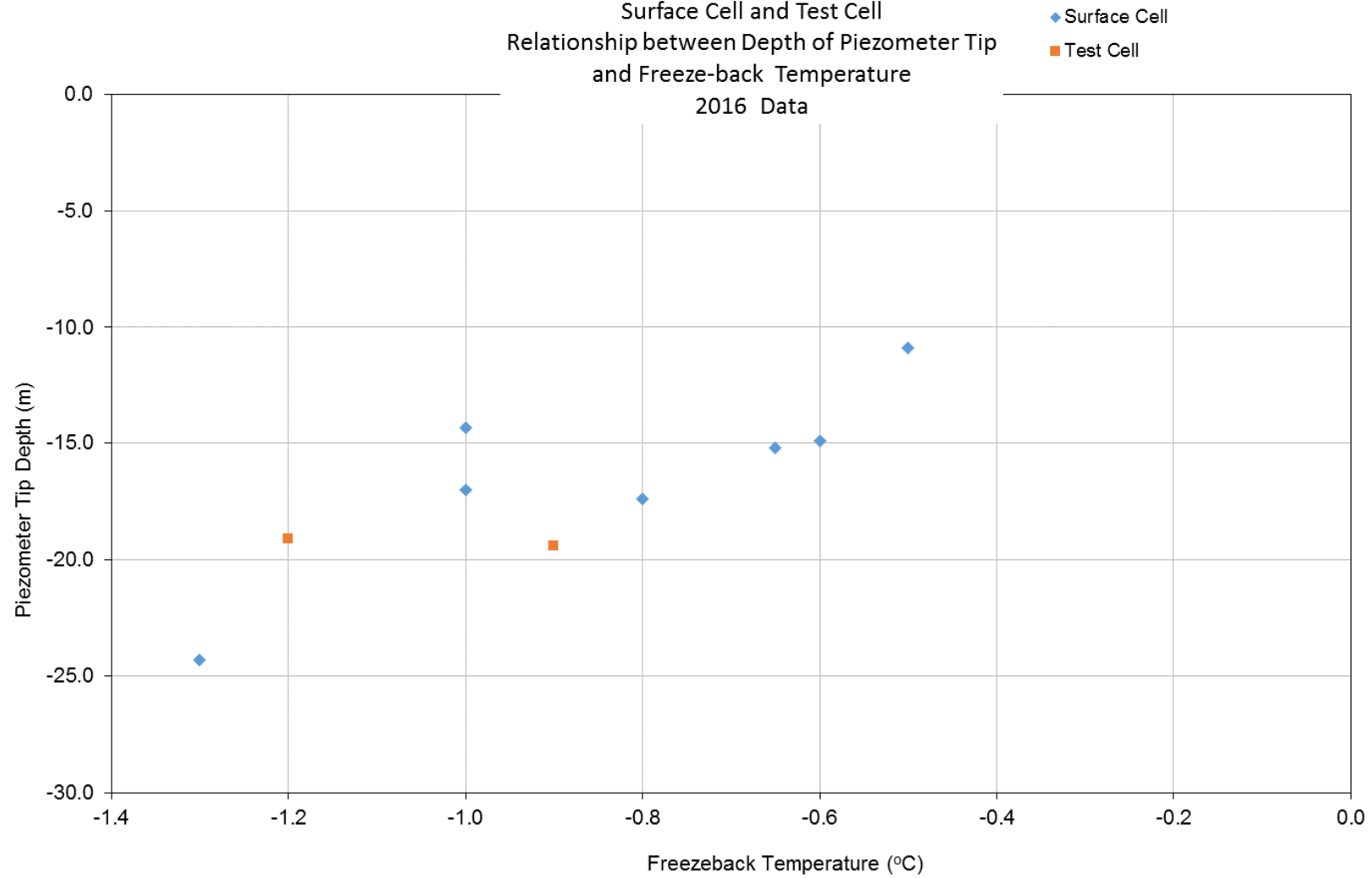
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NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

DRAWING TITLE:
SURFACE CELL TAILINGS COVER
GEOTECHNICAL MONITORING DATA 3

PROJECT NO.:
0255-027-03

DRAWING NO.:
08

Geothermal Monitoring
Surface Cell and Test Cell
Relationship between Depth of Piezometer Tip
and Freeze-back Temperature



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CHECKED:	JWC
APPROVED:	GKC



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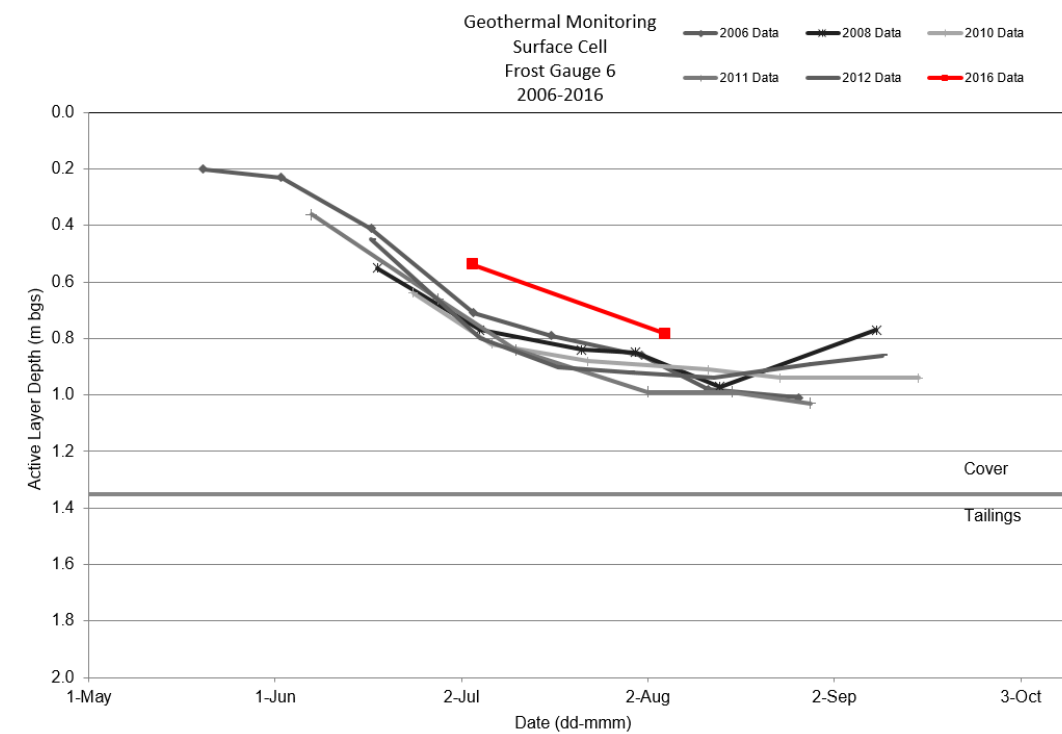
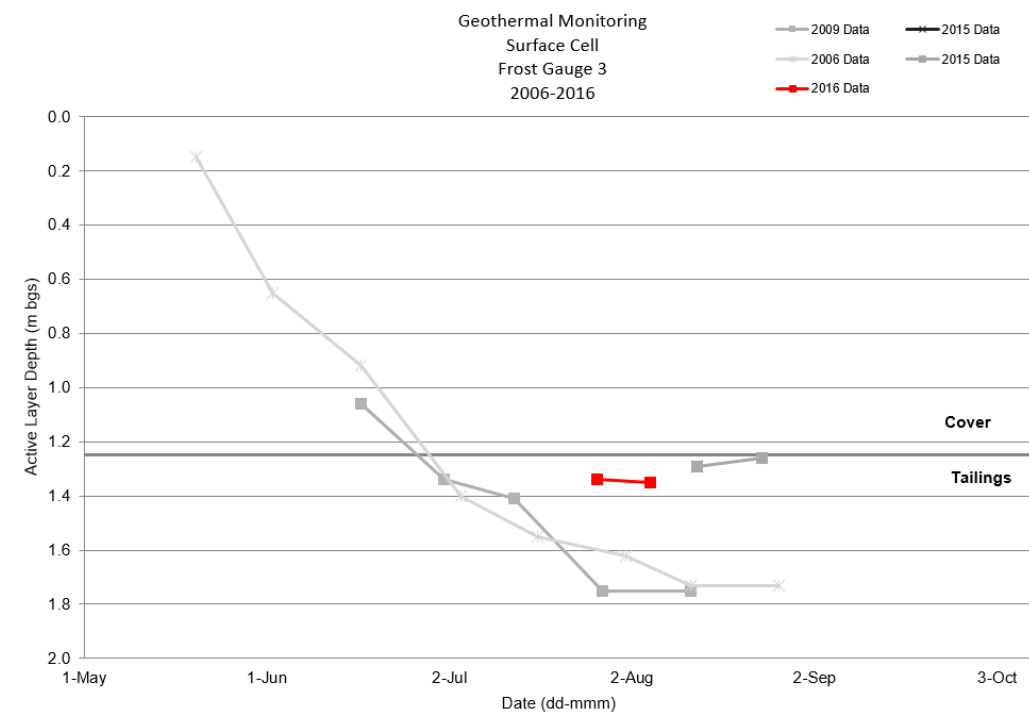
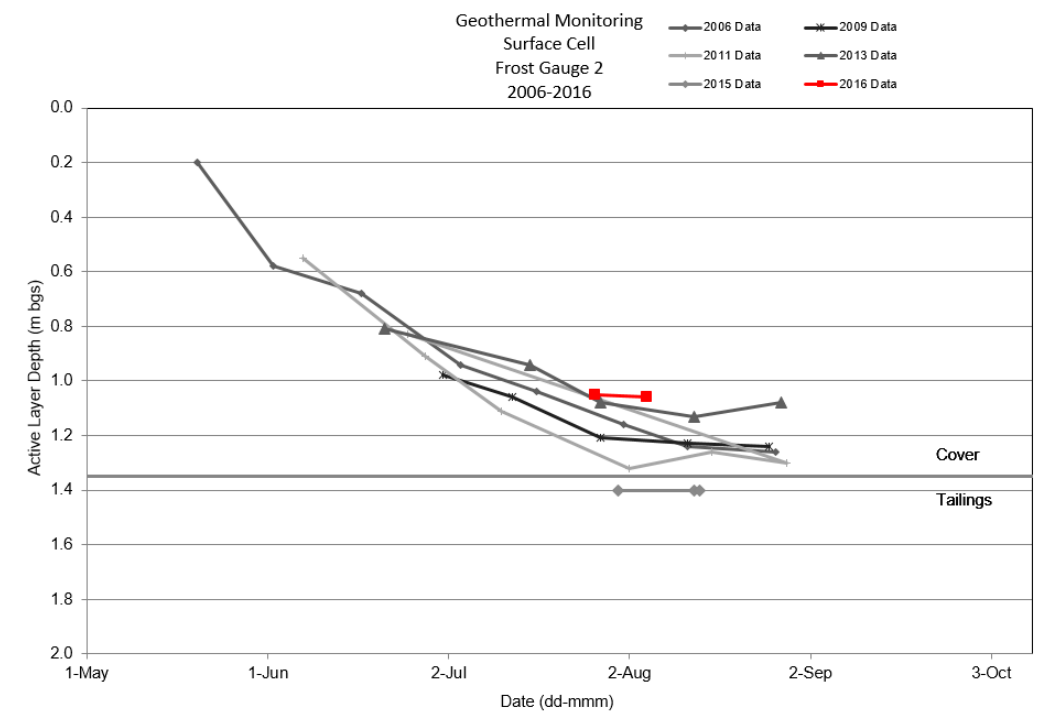
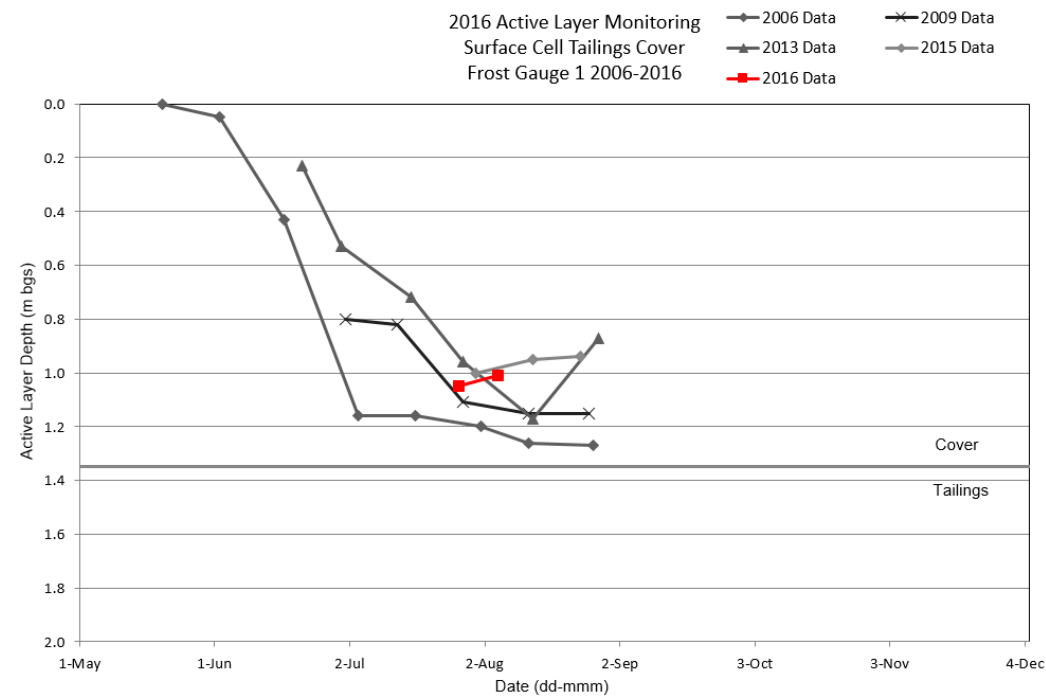
PROJECT: NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

TITLE: SURFACE CELL TAILINGS COVER
GEOTECHNICAL MONITORING DATA 4

DWG No.: 09

PROJ No.: 0255-027-03

REV:



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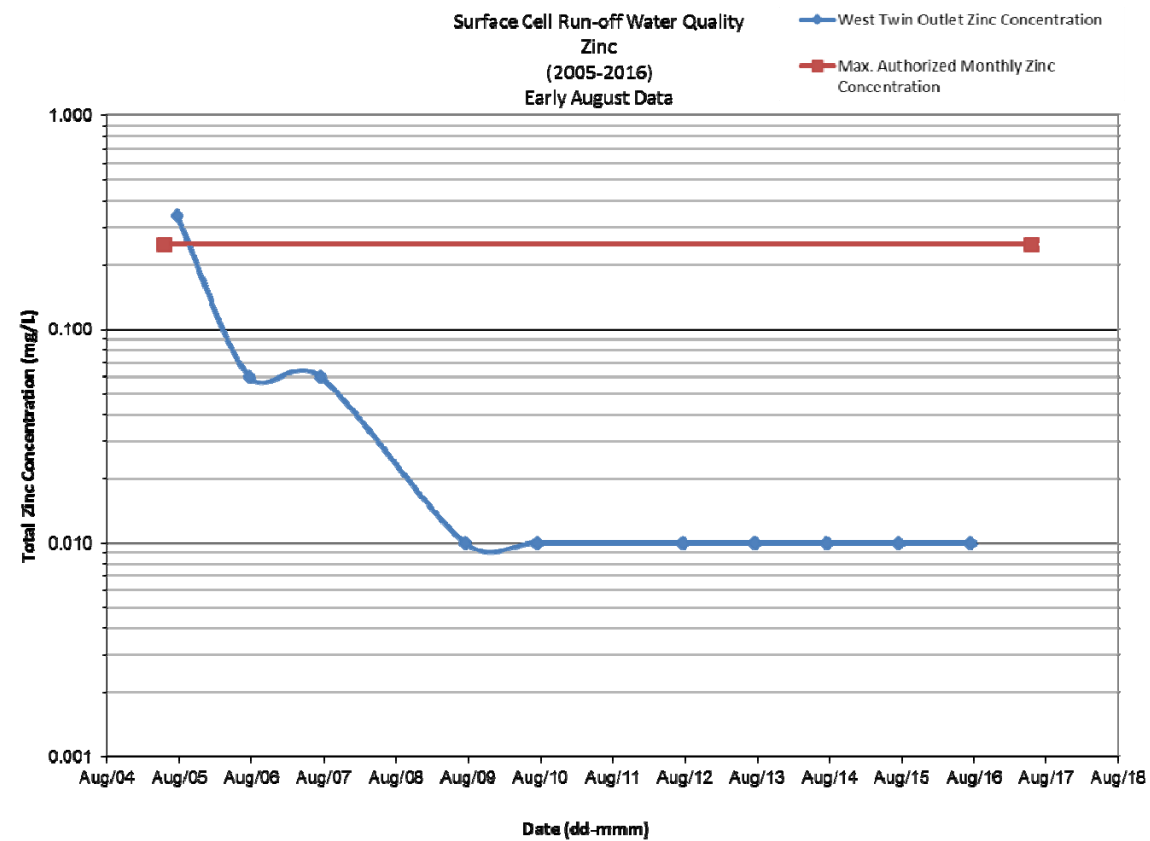
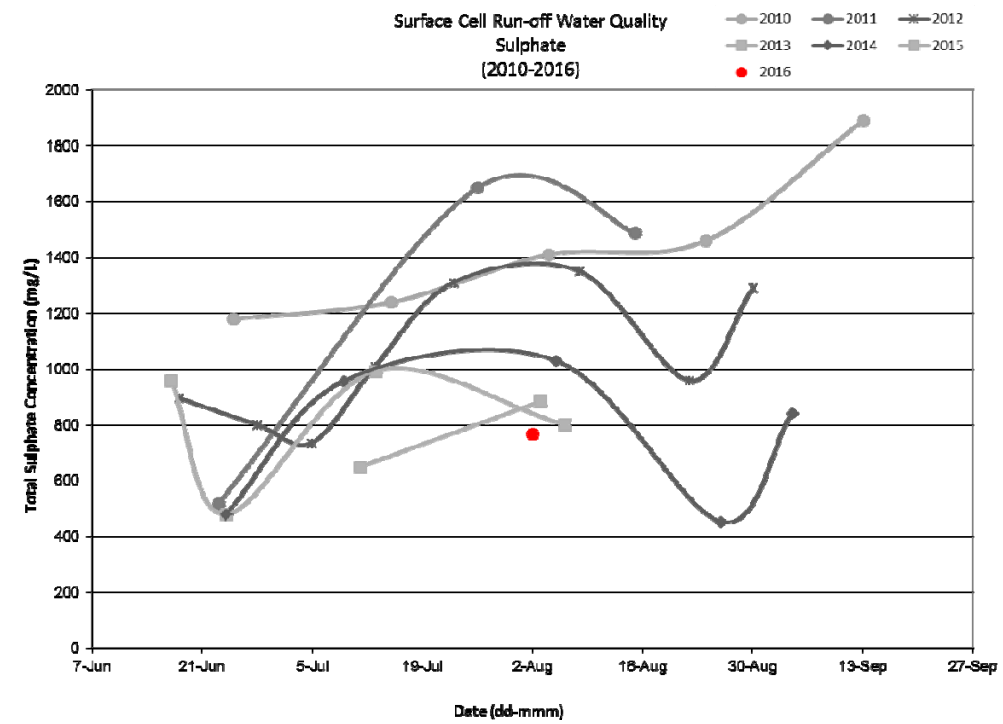
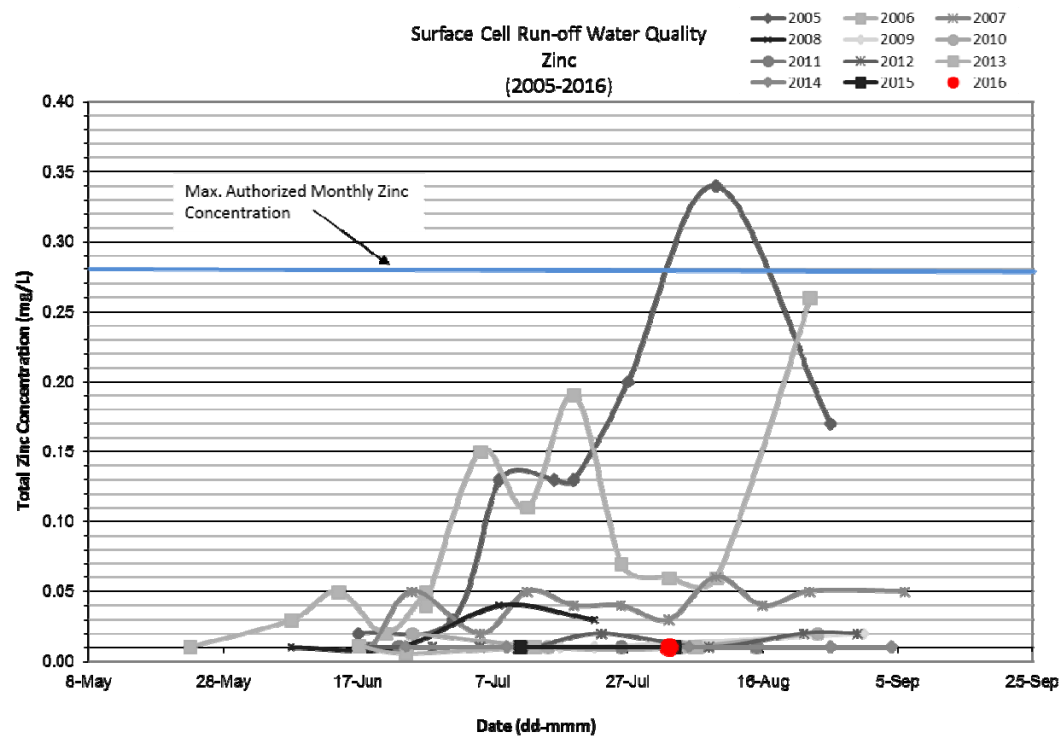


REPORT TITLE:
NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

DRAWING TITLE:
SURFACE CELL TAILINGS COVER
GEOTECHNICAL MONITORING DATA 5

PROJECT NO.:
0255-027-03

DRAWING NO.:
10



DRAWING TO BE READ WITH BGC REPORT TITLED: "NANISVIK MINE 2016 GEOTECHNICAL INSPECTION", DATED MAR 2017

	REPORT TITLE: NANISVIK MINE 2016 ANNUAL GEOTECHNICAL INSPECTION	
	DRAWING TITLE: SURFACE CELL TAILINGS COVER GEOTECHNICAL MONITORING DATA 6	
CLIENT: 	PROJECT NO.: 0255-027-03	DRAWING NO.: 11



LEGEND

VW PIEZOMETER

THERMISTOR/THERMOCOUPLE

MONITORING WELL

CONTINGENCY BOREHOLE

FROST GAUGE

AIR TEMPERATURE PROBE/RAIN GAUGE

NOTES:

1.

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2.

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3.

CONTOUR INTERVAL IS 1 m.

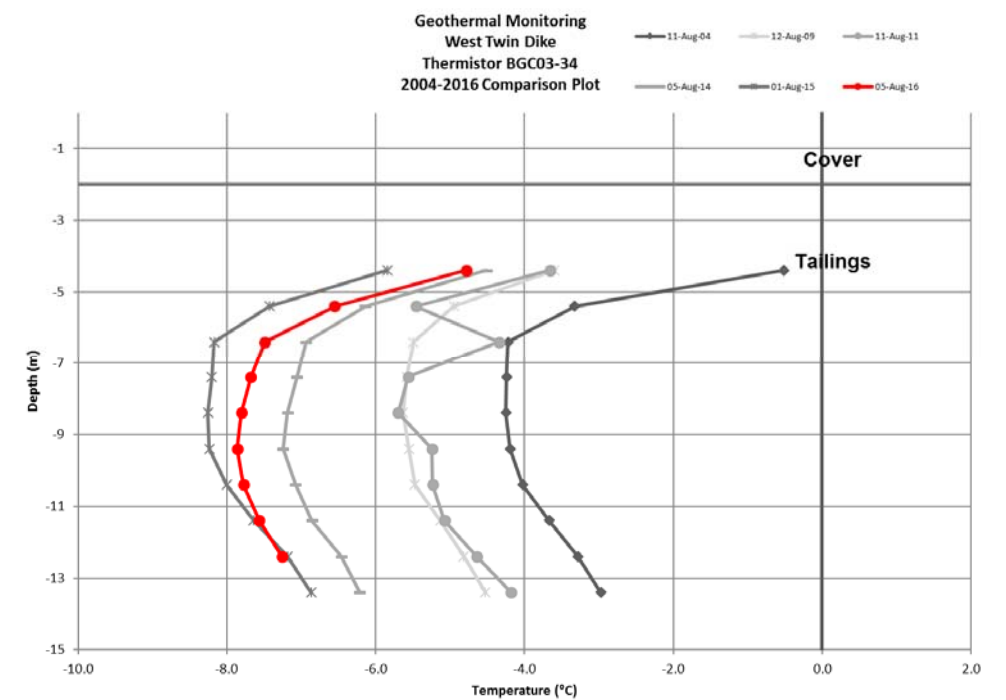
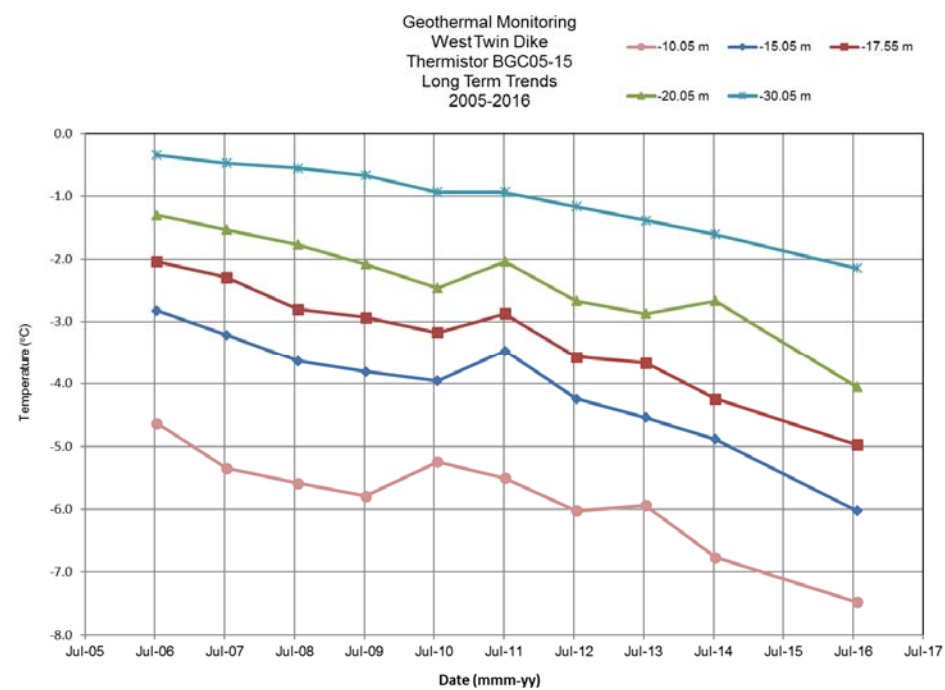
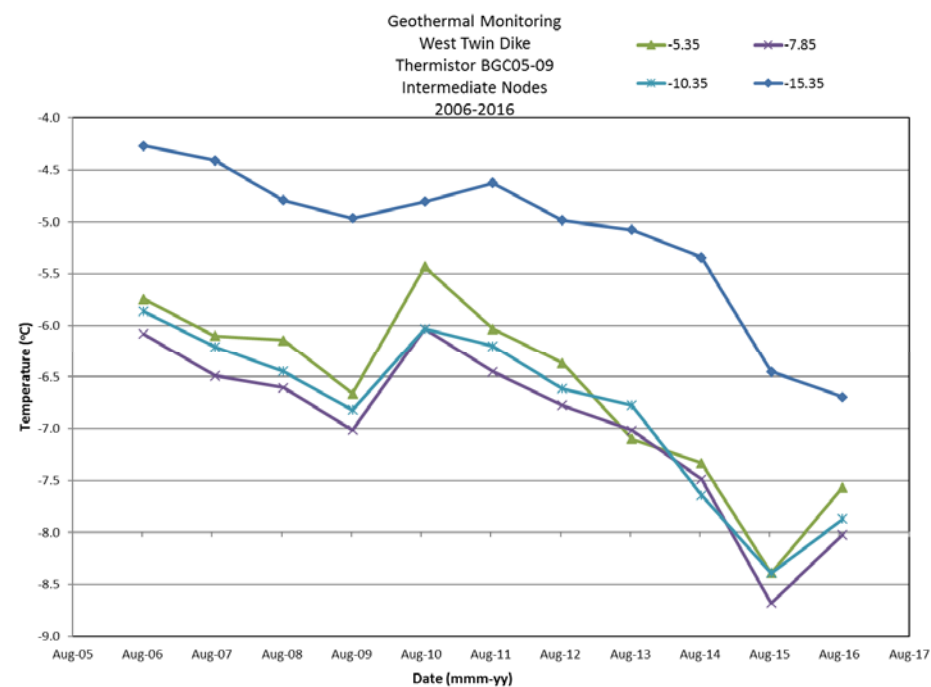
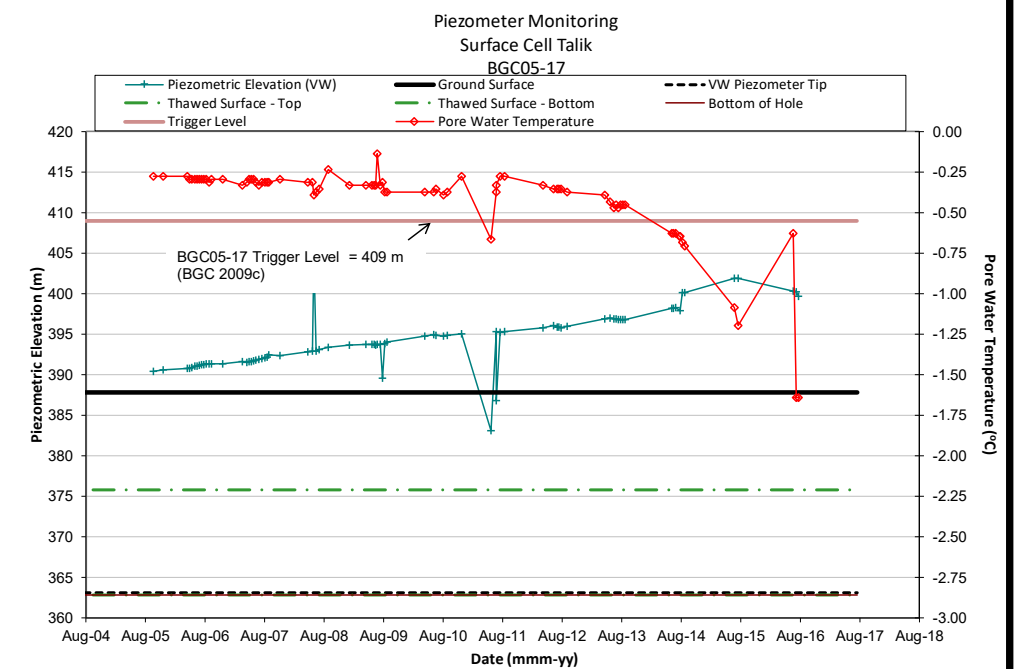
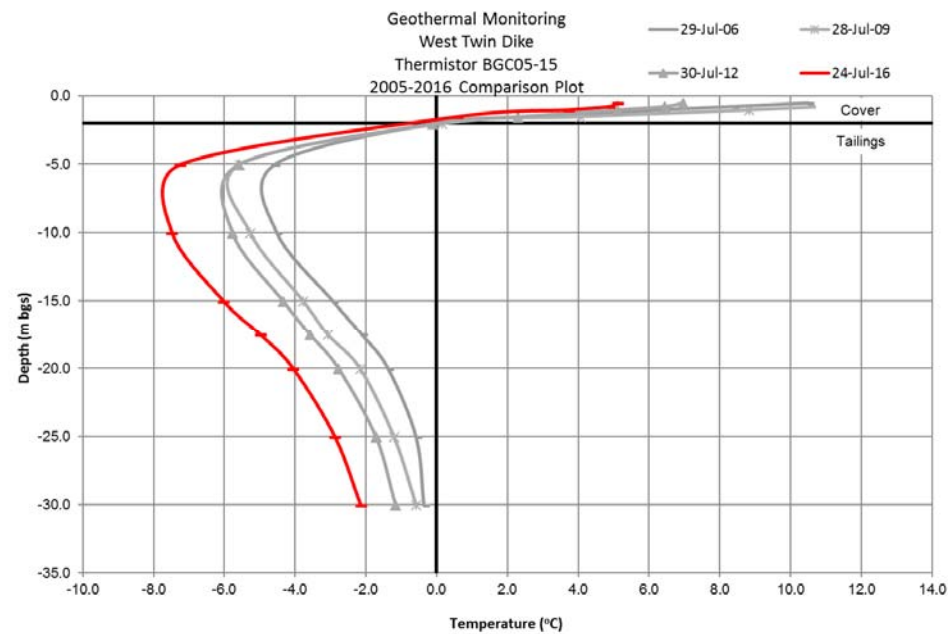
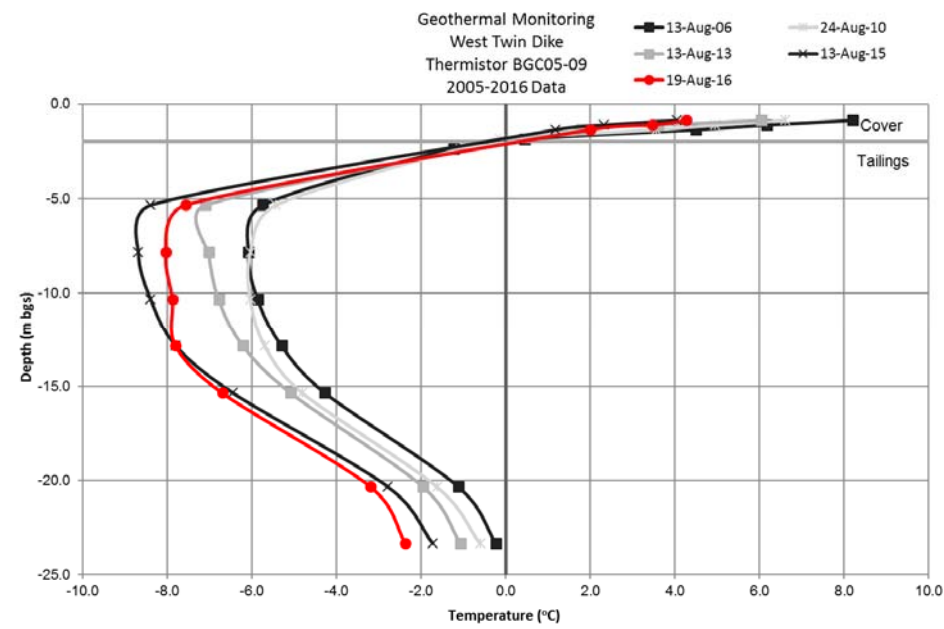
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DATE:	MAR 2017		TITLE: TEST CELL TAILINGS COVER	
DRAWN:	COC			
CHECKED:	SG			
APPROVED:	GKC			
		PROJECT No.:	DWG No.:	
		0255-027-03	12	



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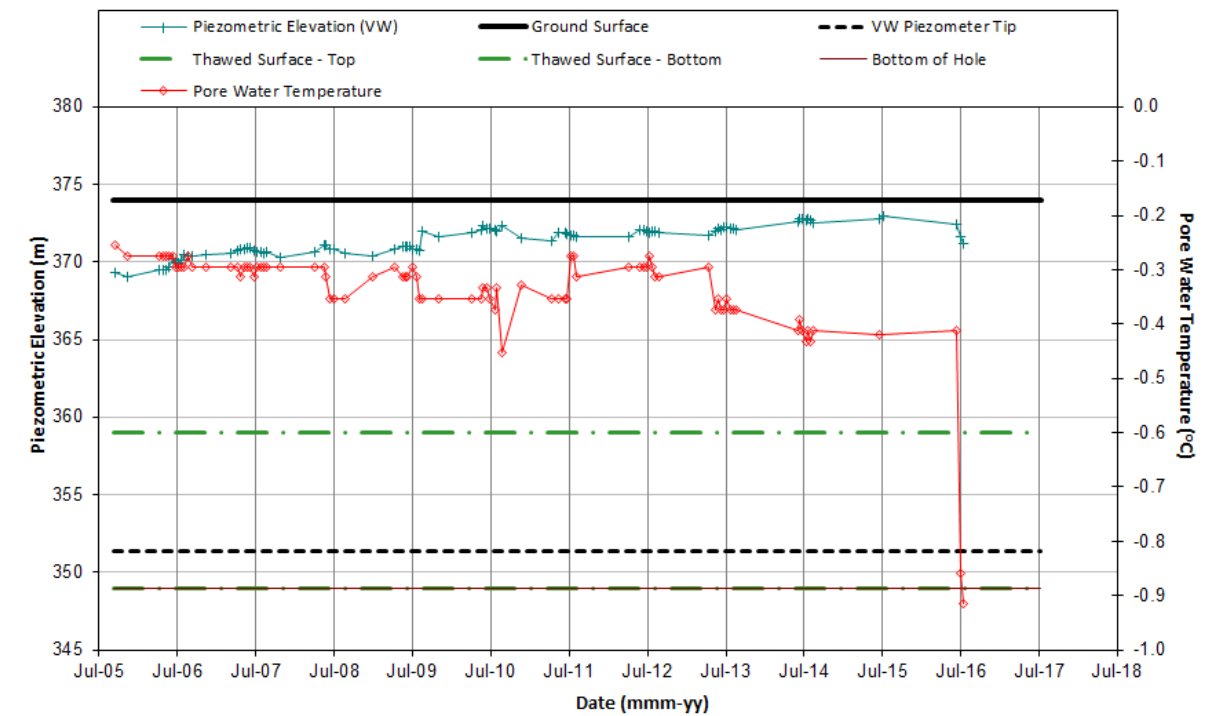
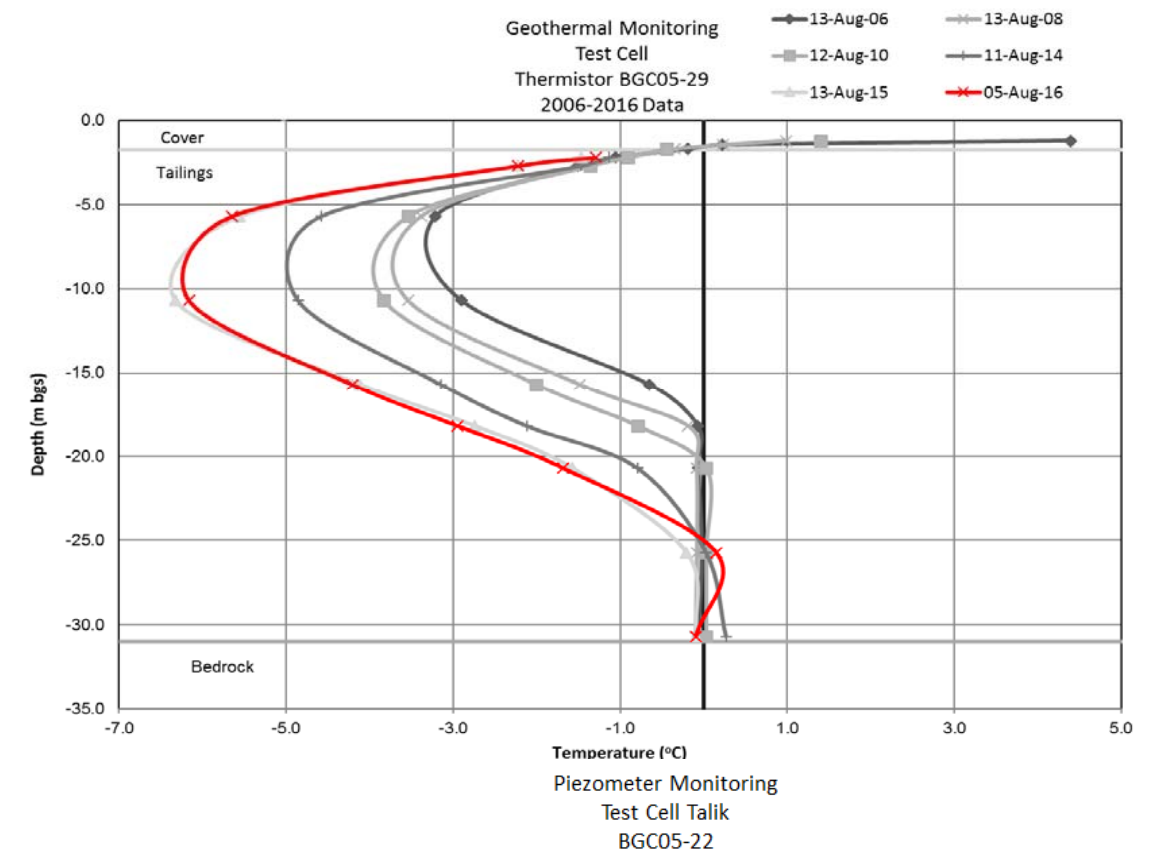
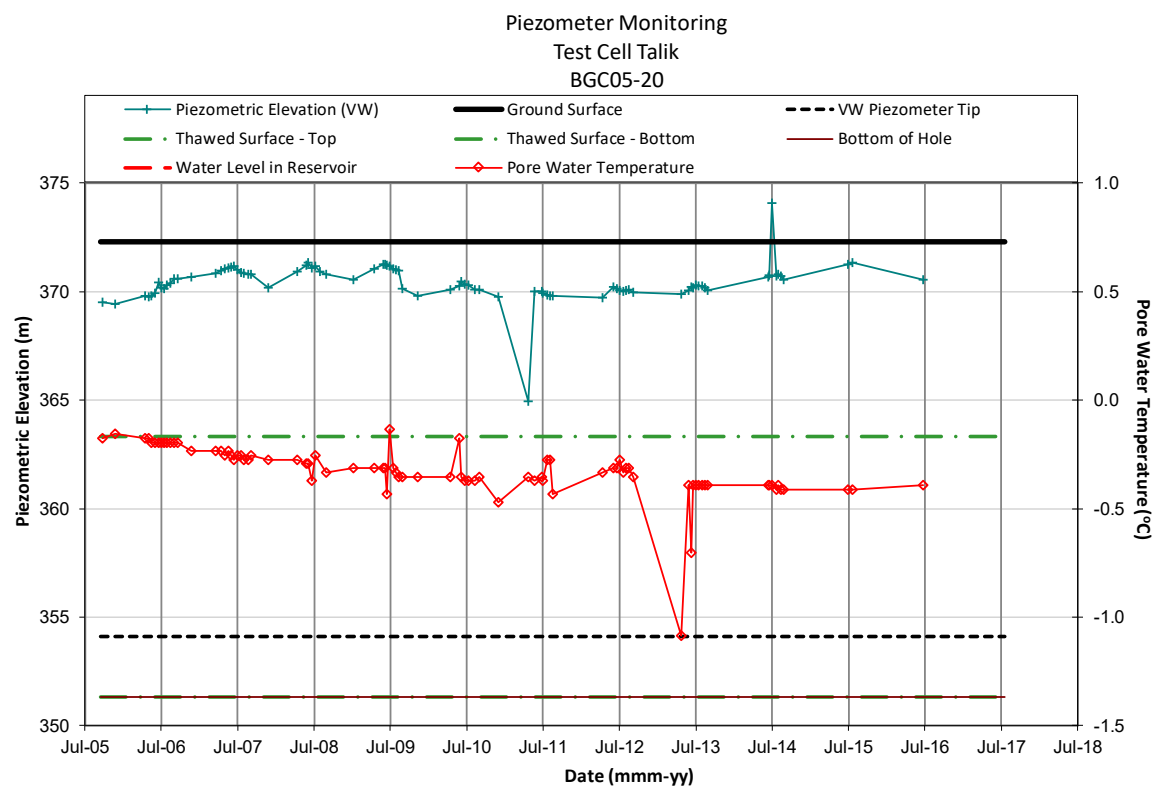
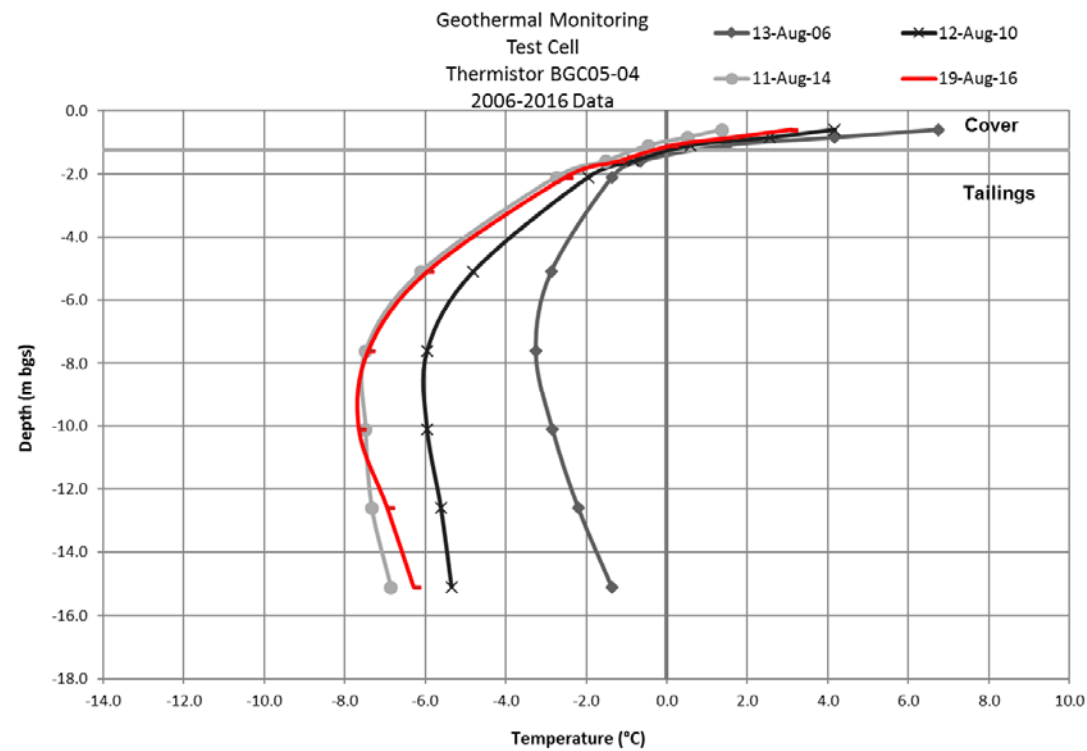


REPORT TITLE:
NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

DRAWING TITLE:
WEST TWIN DIKE
GEOTECHNICAL MONITORING DATA

PROJECT NO.:
0255-027-03

DRAWING NO.:
13



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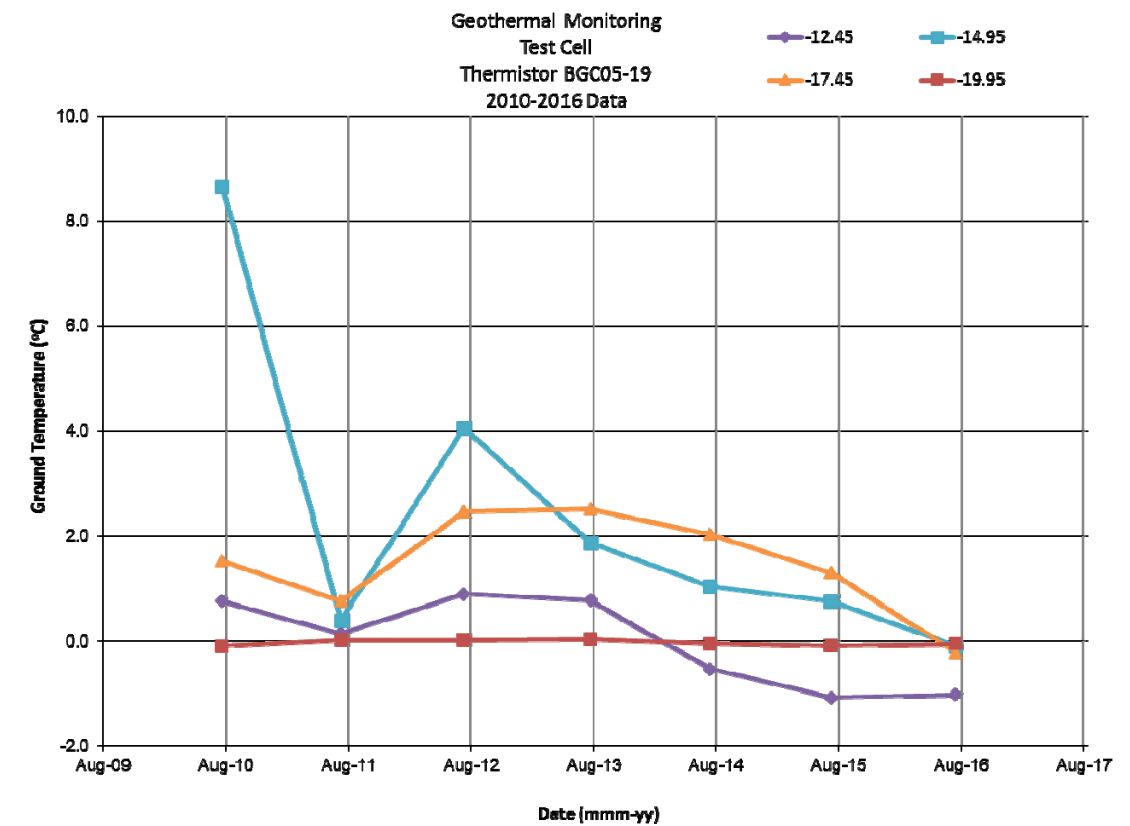
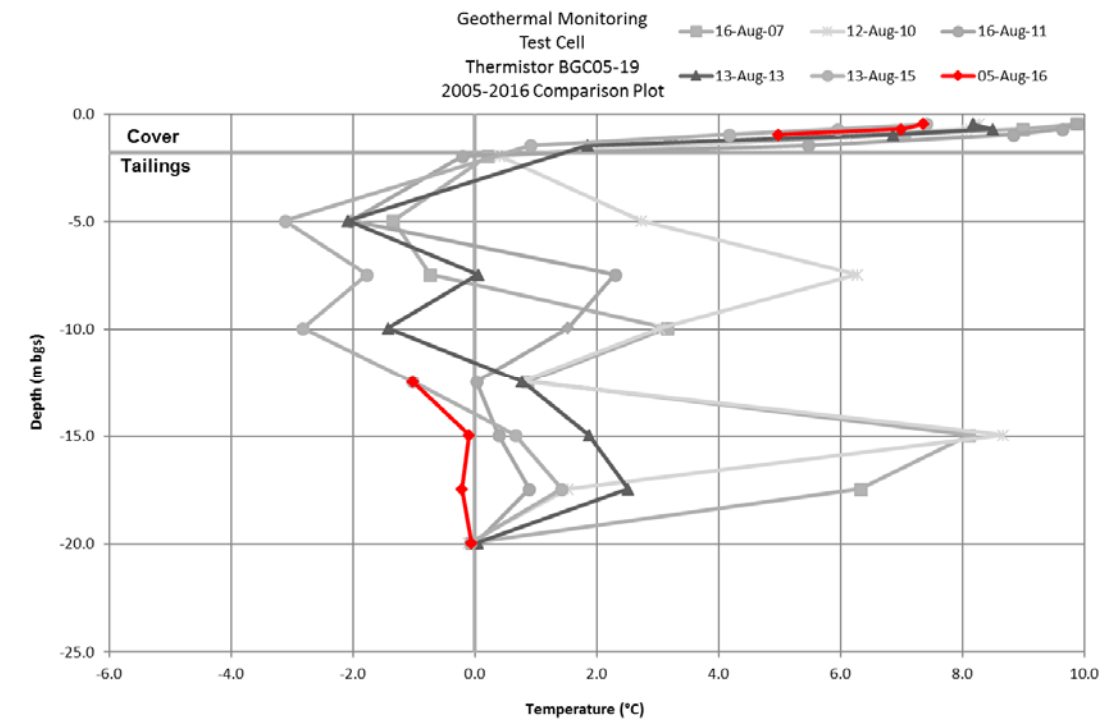
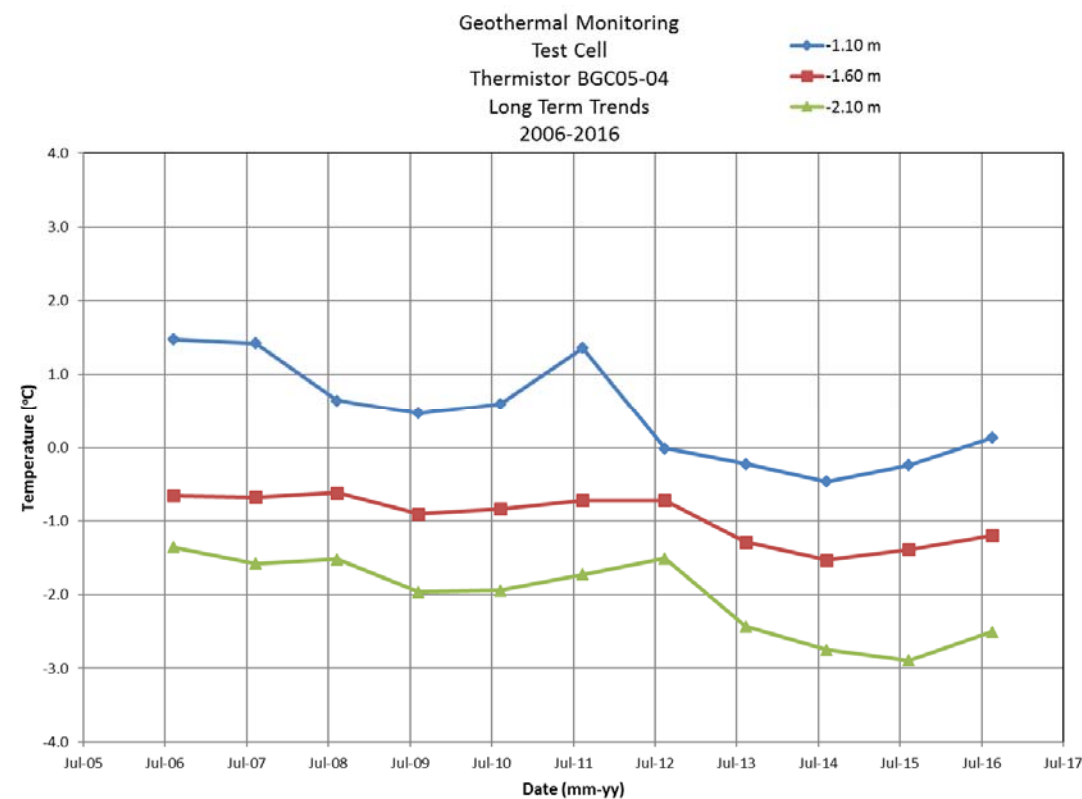
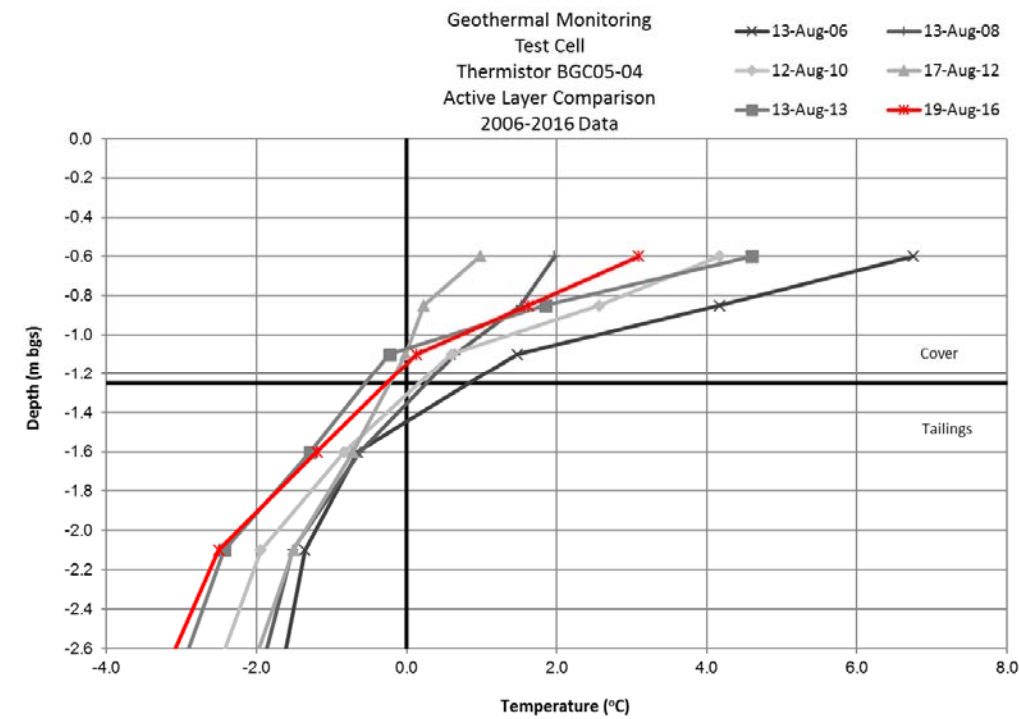


REPORT TITLE:
NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

DRAWING TITLE:
TEST CELL TAILINGS COVER
GEOTECHNICAL MONITORING DATA 1

PROJECT NO.:
0255-027-03

DRAWING NO.:
14



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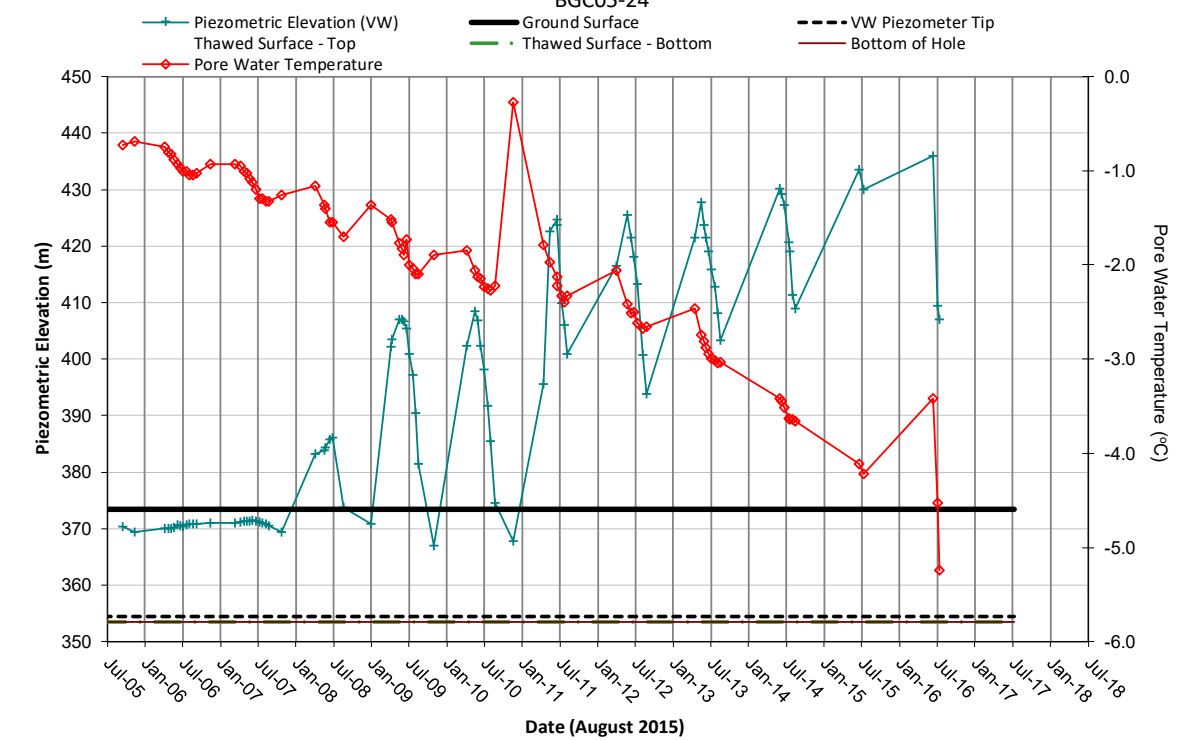
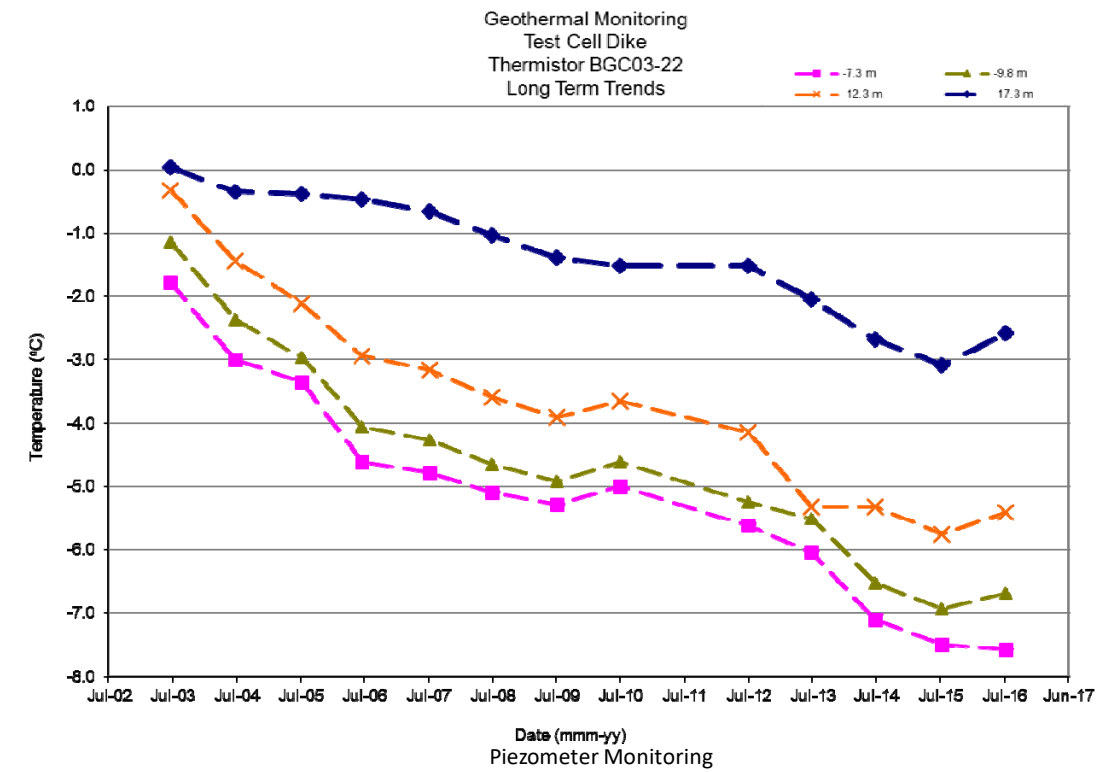
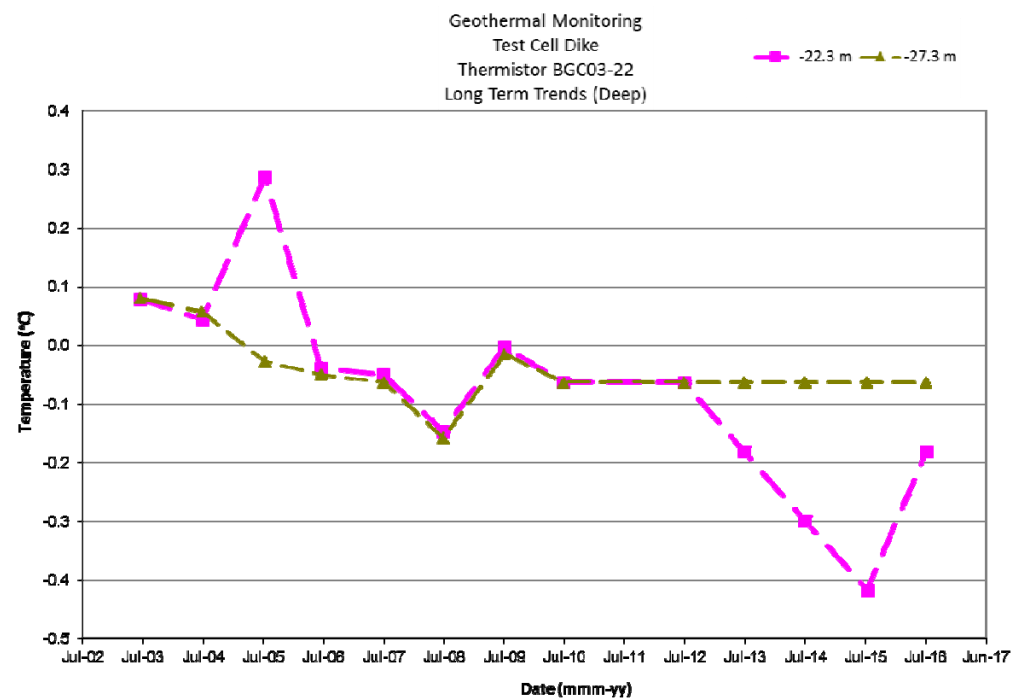
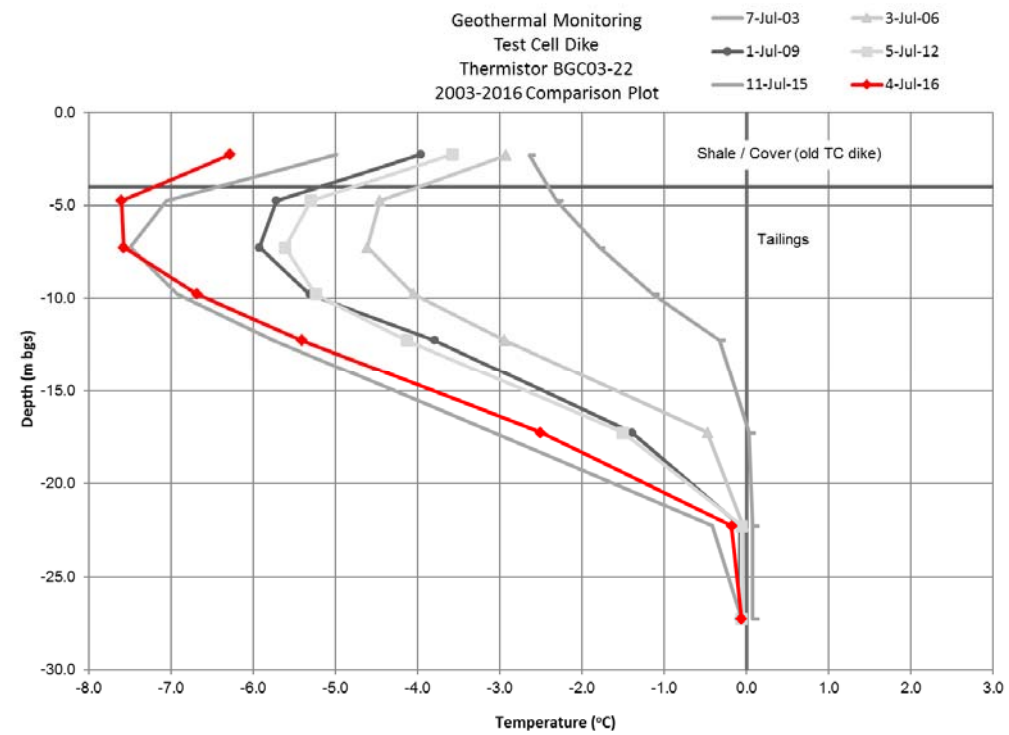


REPORT TITLE:
NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

DRAWING TITLE:
TEST CELL TAILINGS COVER
GEOTECHNICAL MONITORING DATA 2

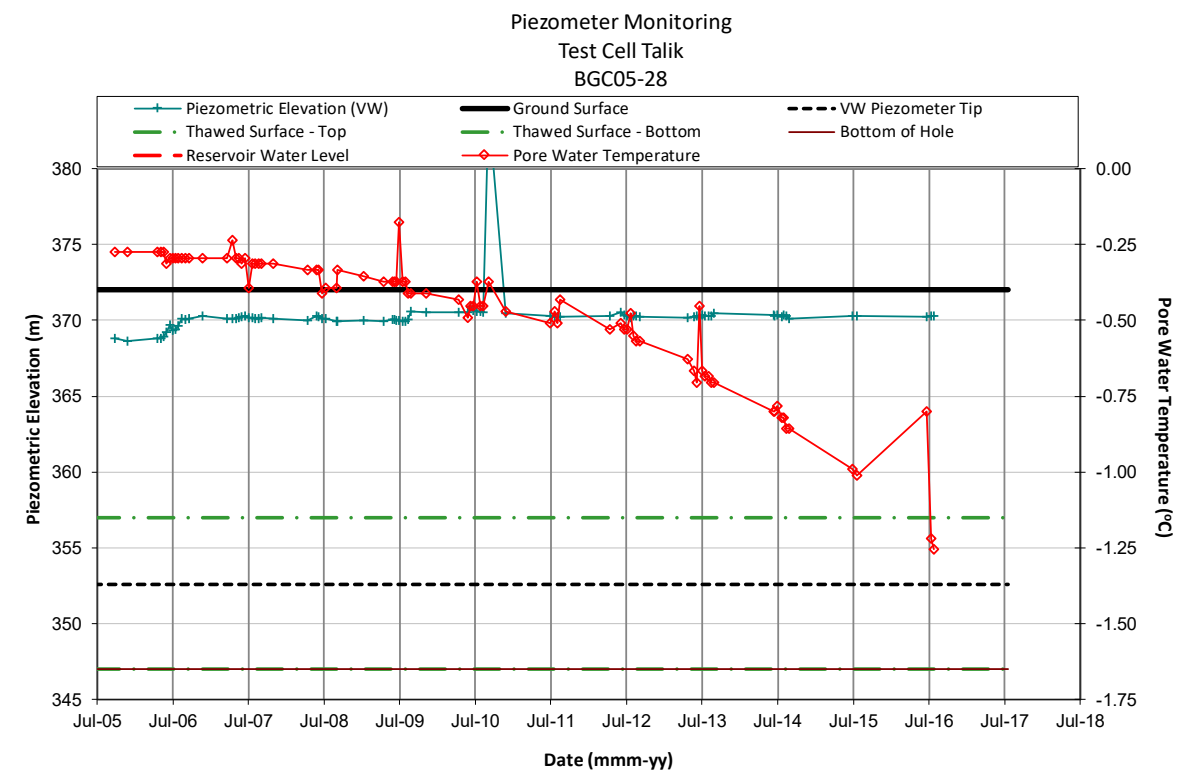
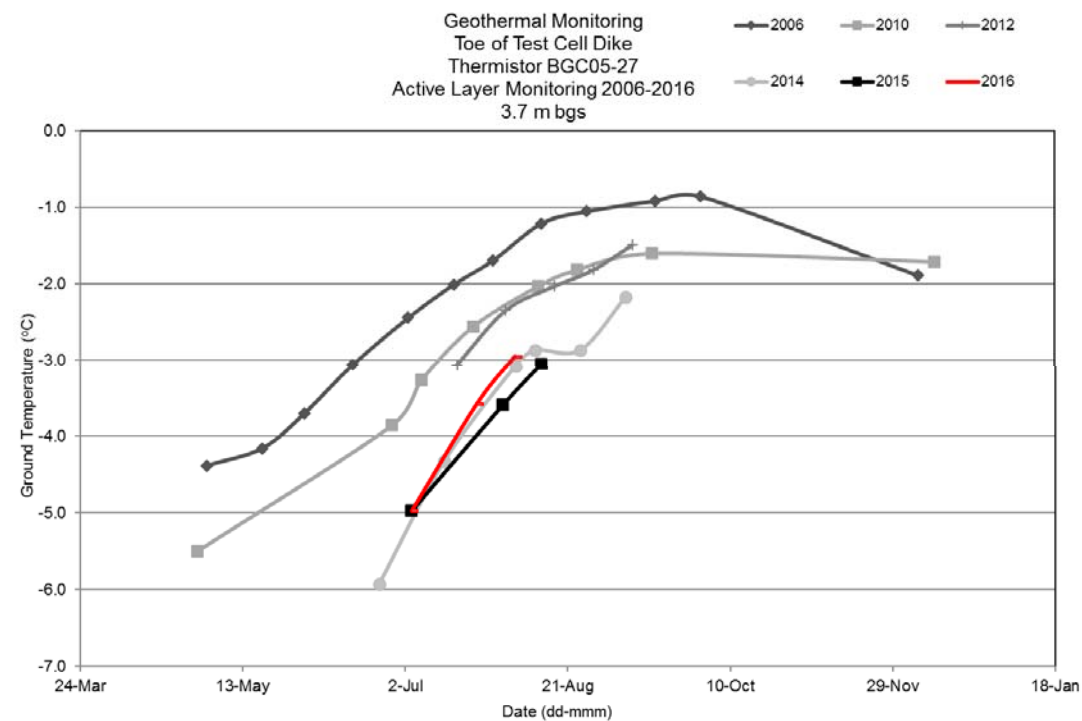
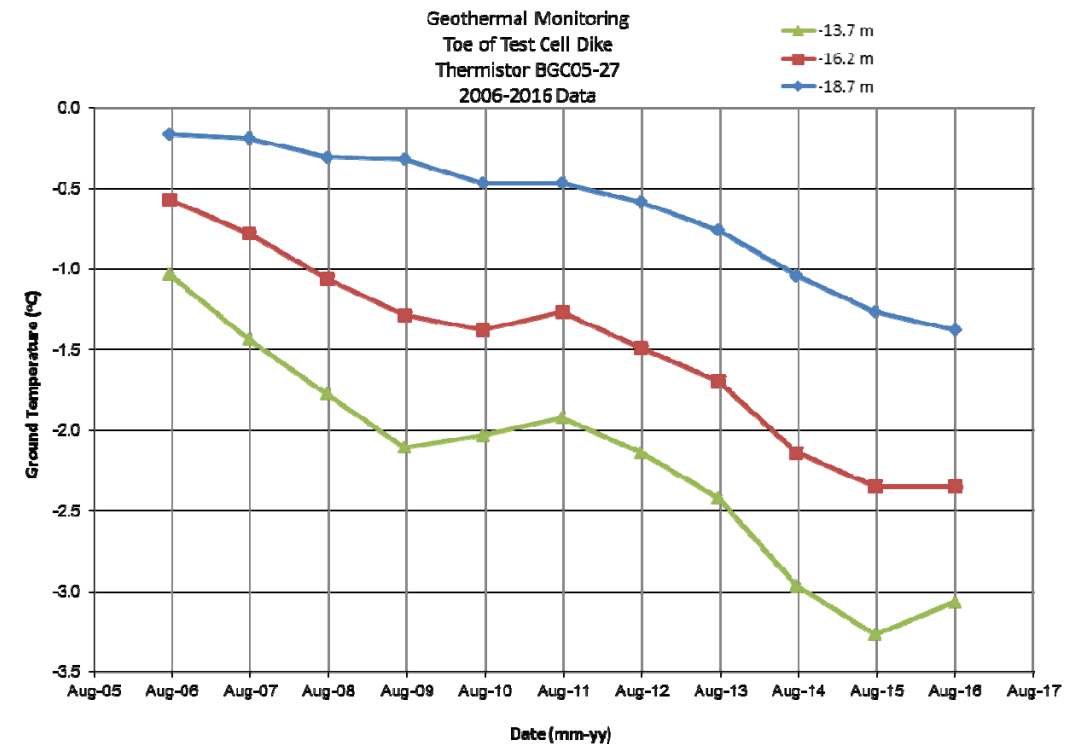
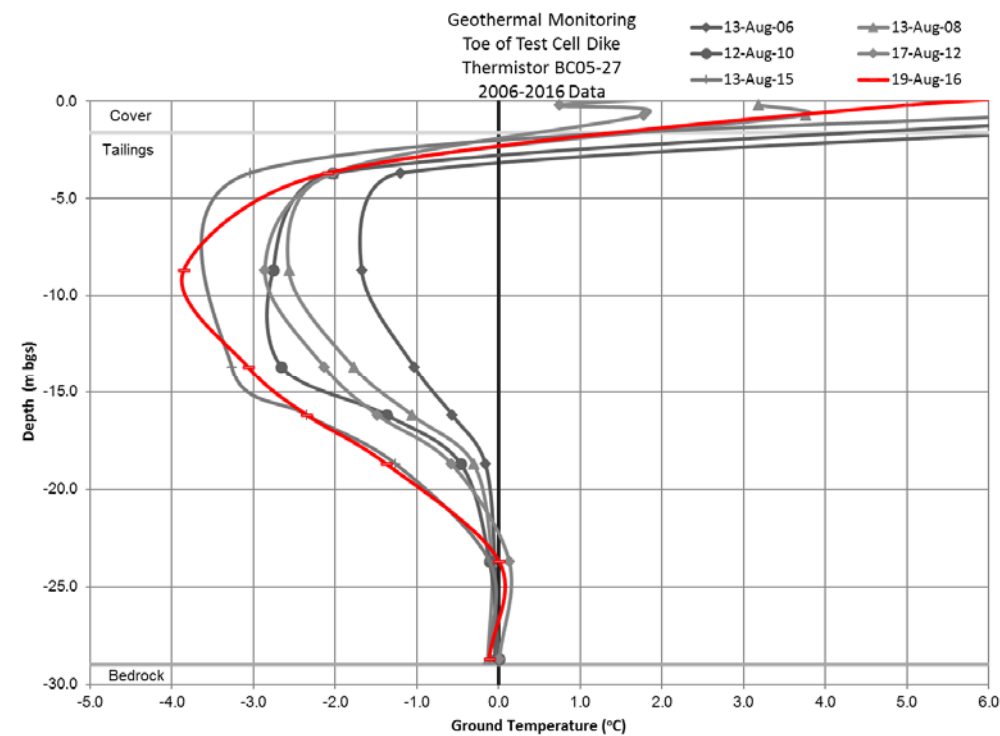
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0255-027-03

DRAWING NO.:
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	DRAWING TITLE: TEST CELL DIKE GEOTECHNICAL MONITORING DATA	
CLIENT: 	PROJECT NO.: 0255-027-03	DRAWING NO.: 16

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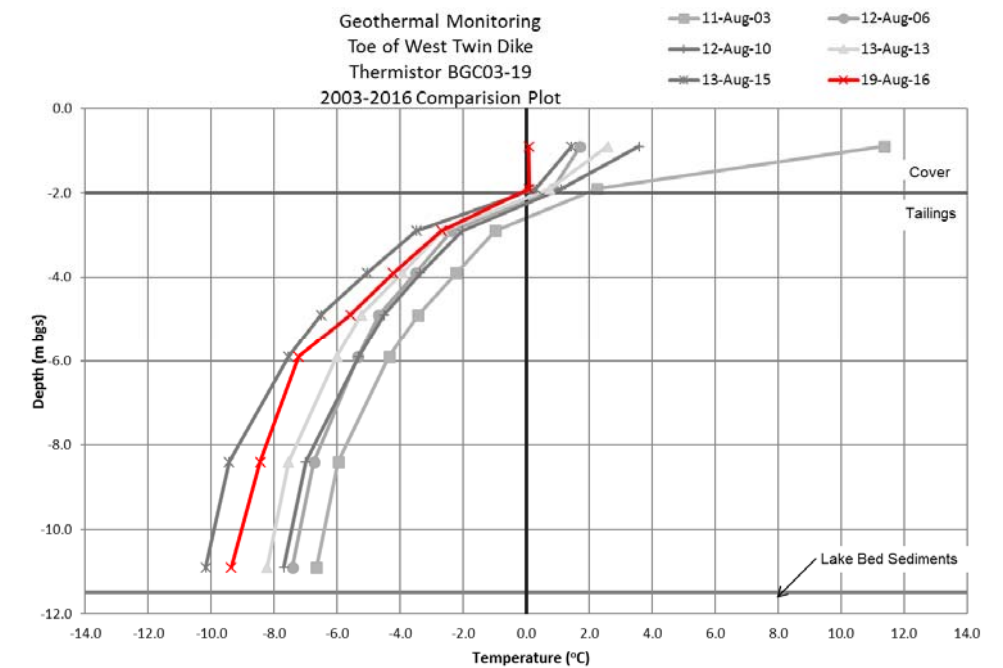
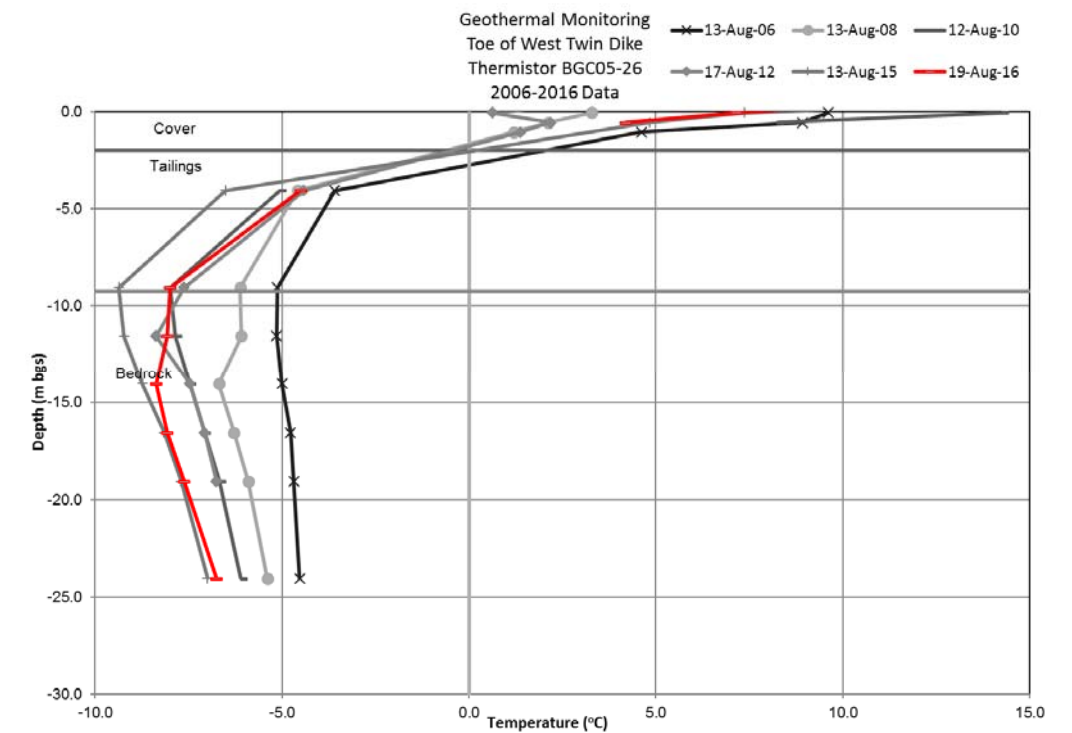
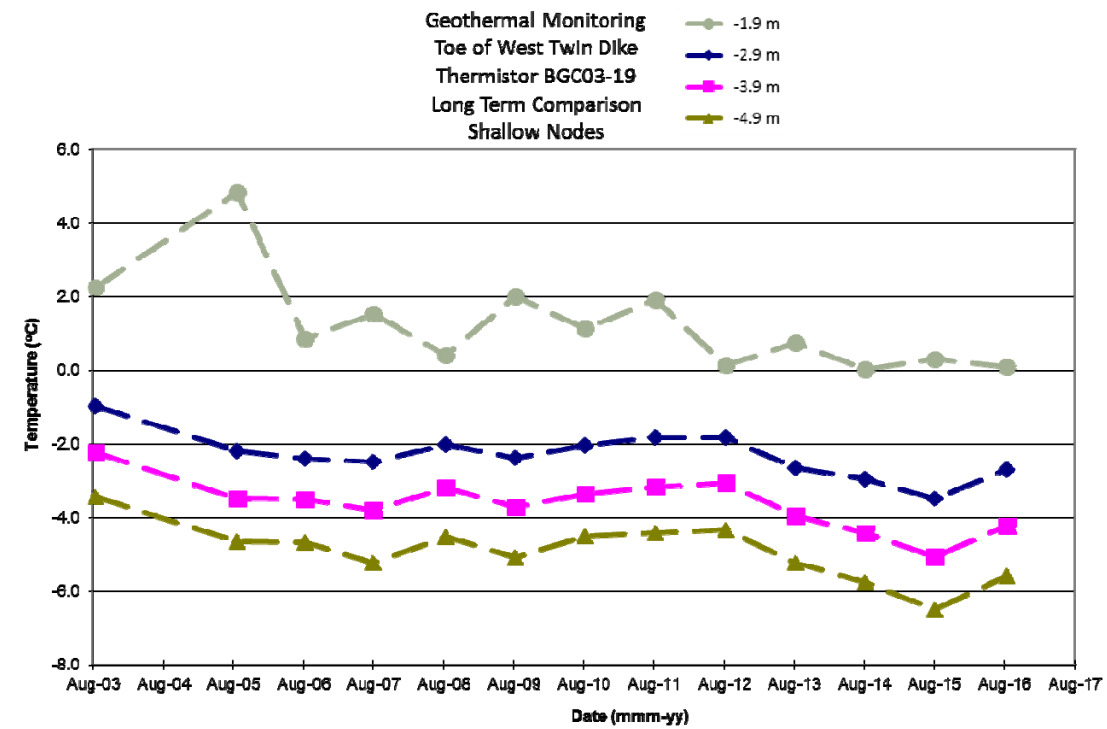
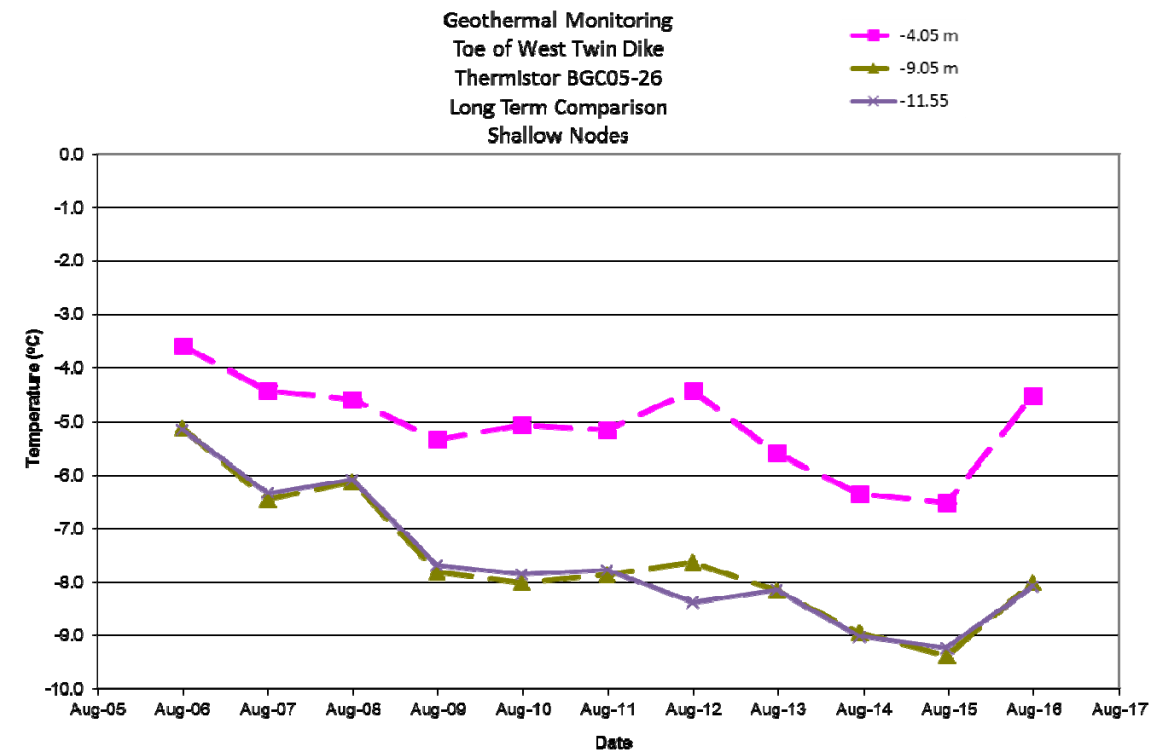


REPORT TITLE:
NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

DRAWING TITLE:
TOE OF TEST CELL DIKE TAILINGS COVER
GEOTECHNICAL MONITORING DATA

PROJECT NO.:
0255-027-03

DRAWING NO.:
17



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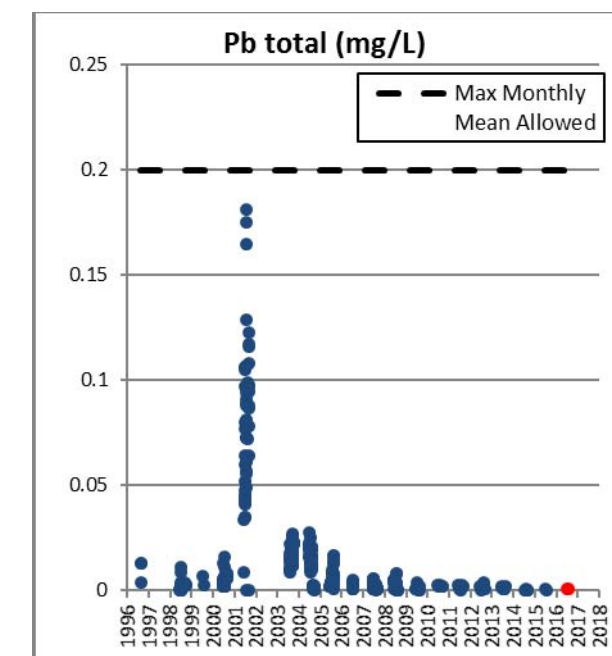
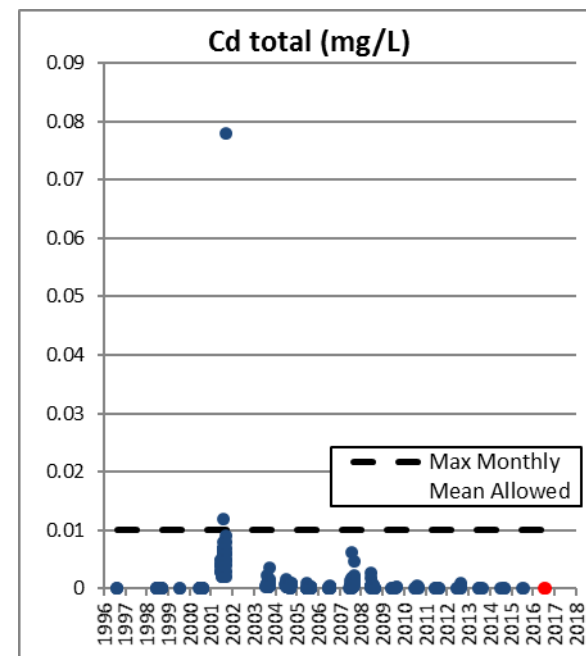
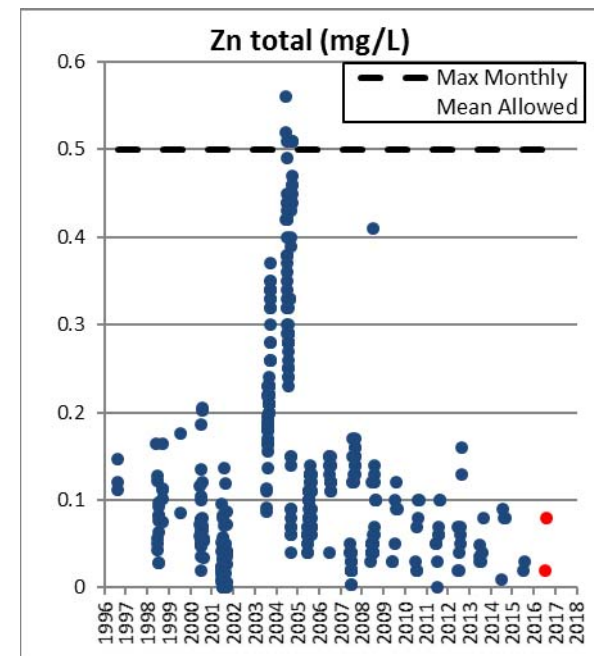
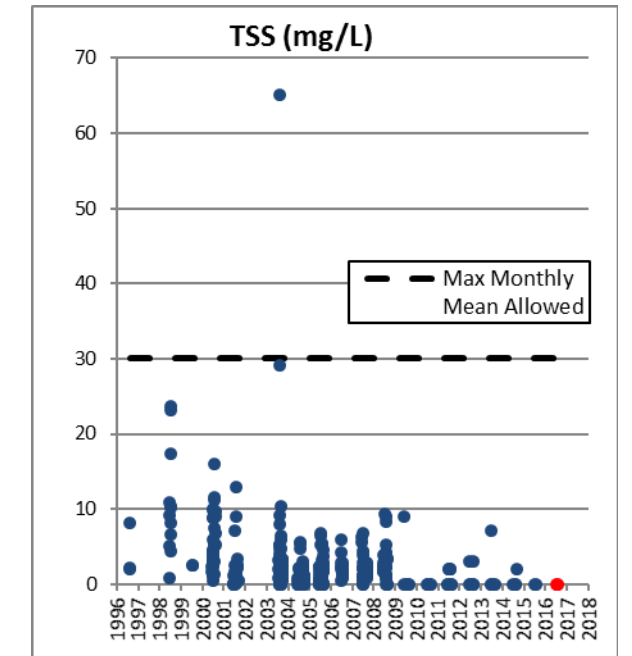
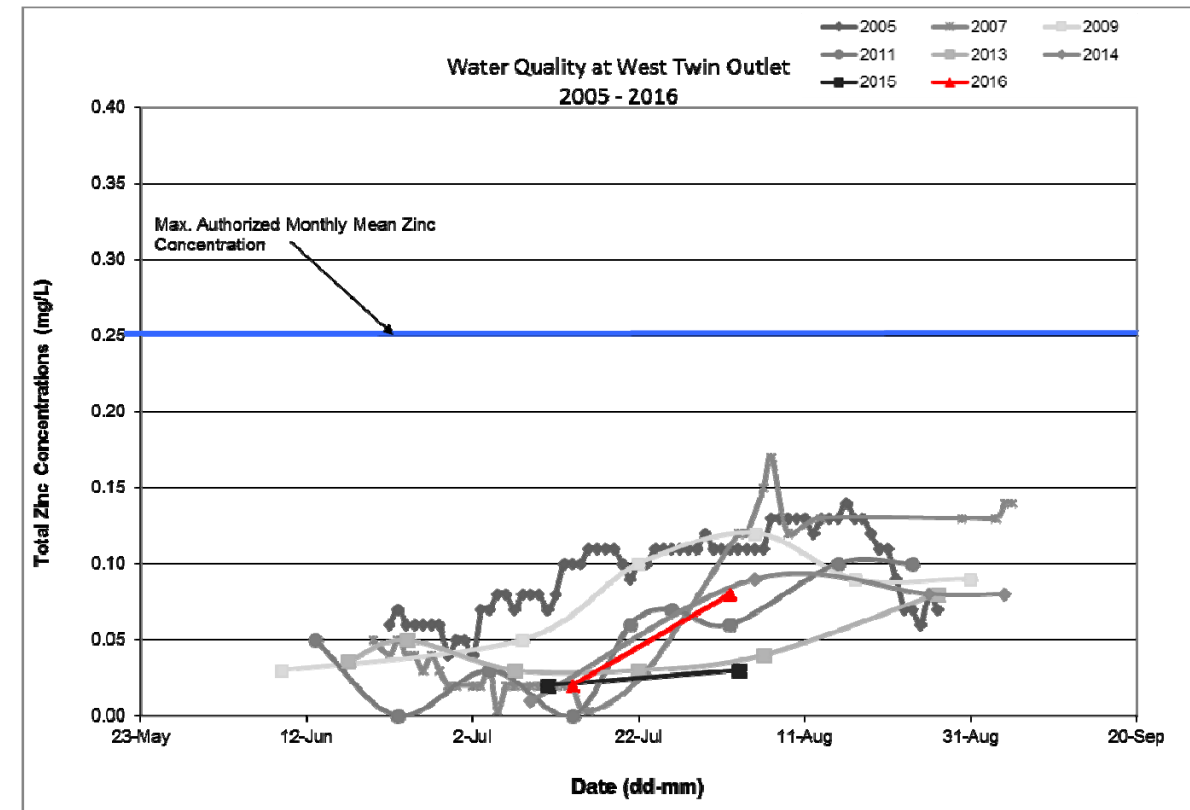
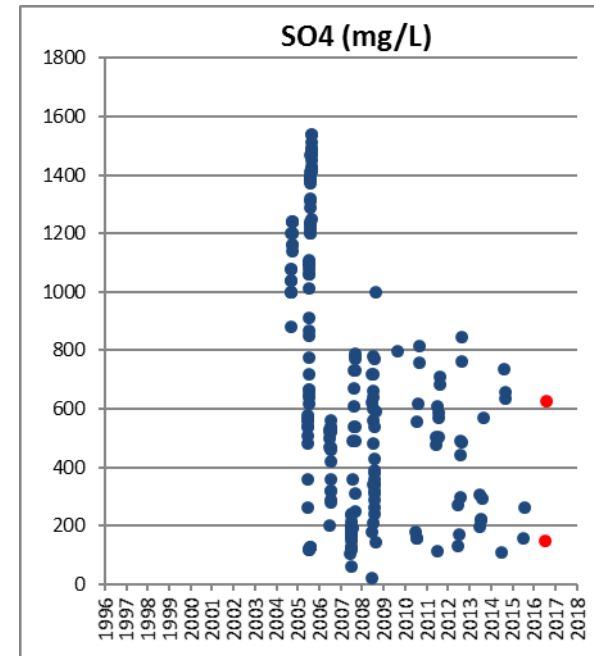


REPORT TITLE:
NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

DRAWING TITLE:
TOE OF WEST TWIN DIKE TAILINGS COVER
GEOTECHNICAL MONITORING DATA

PROJECT NO.:
0255-027-03

DRAWING NO.:
18



*Water Quality data supplied by Stantec by email to BGC on January 18, 2017.
 *Data points represent individual water samples, and may not be representative of the true annual maximum concentrations.

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BGC ENGINEERING INC.

AN APPLIED EARTH SCIENCES COMPANY

CLIENT:

REPORT TITLE: NANISVIK MINE 2016 ANNUAL GEOTECHNICAL INSPECTION	
DRAWING TITLE: WEST TWIN DISPOSAL AREA WATER QUALITY DATA	
PROJECT NO.: 0255-027-03	DRAWING NO.: 19



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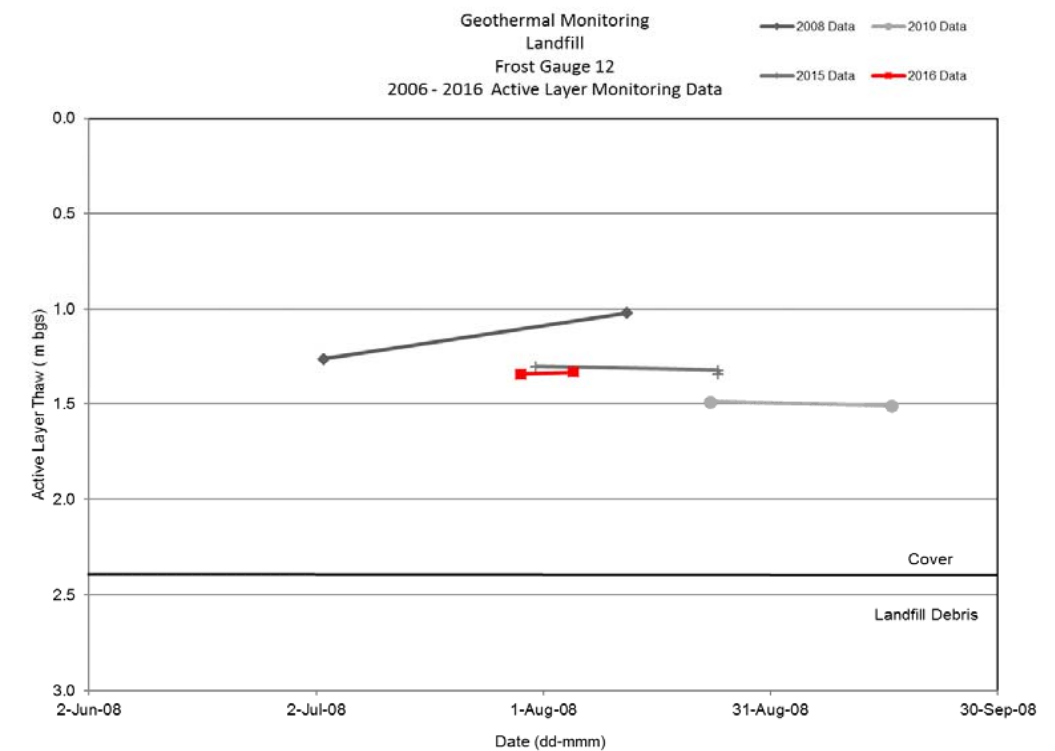
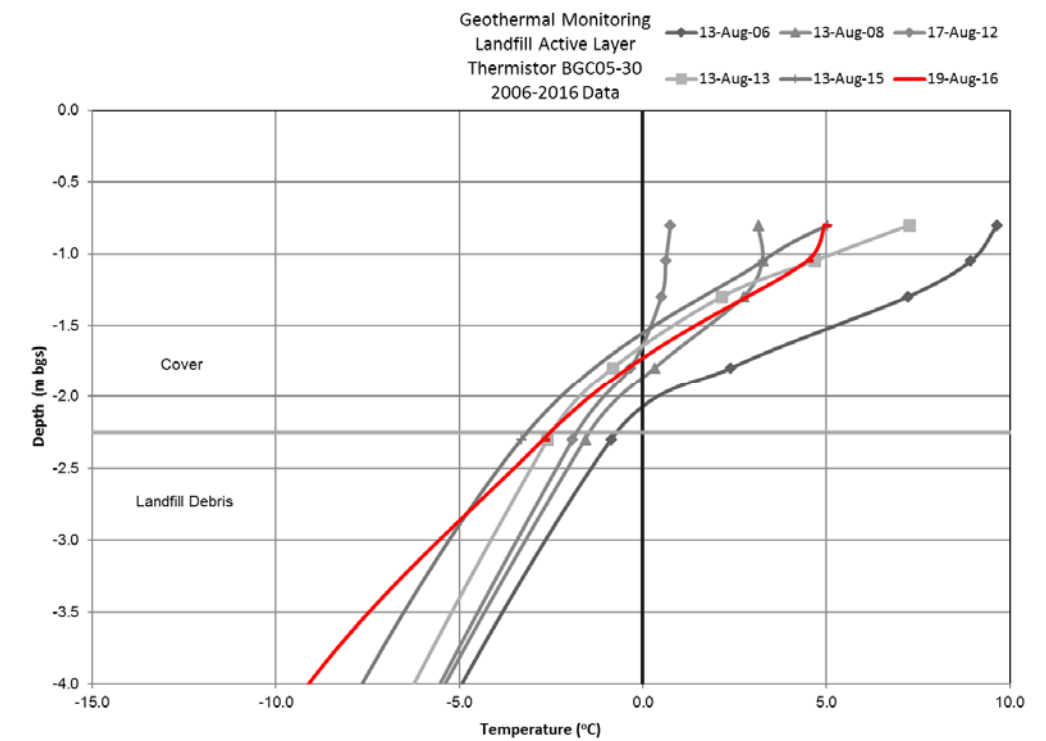
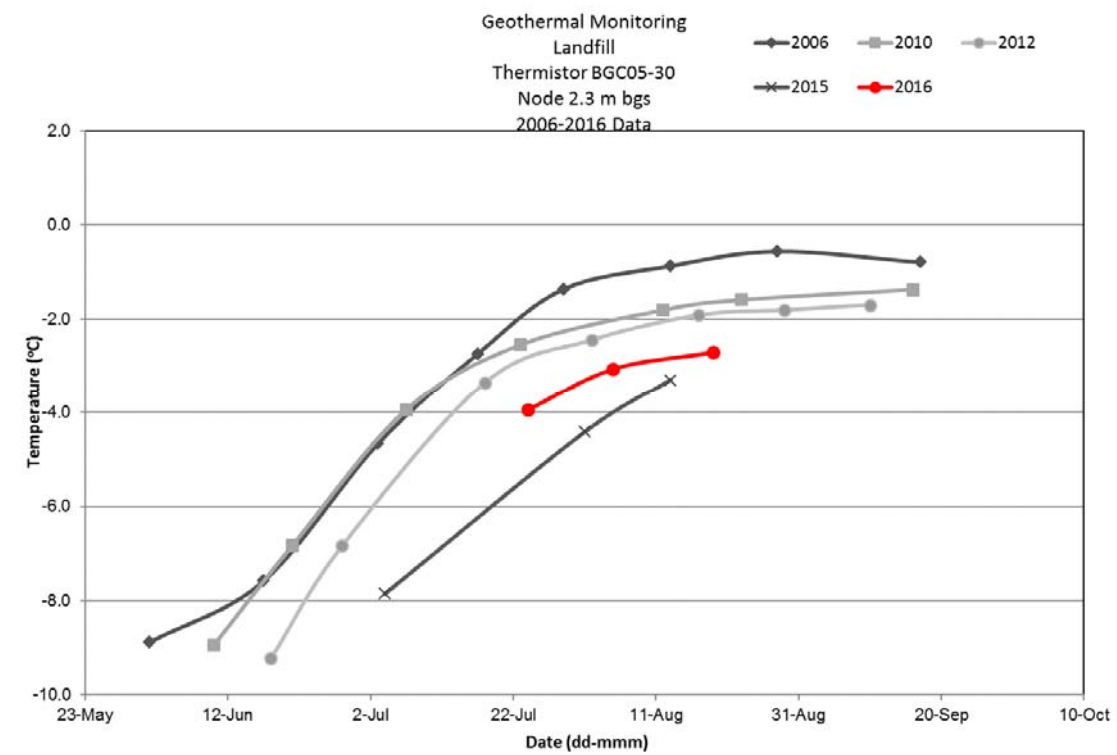
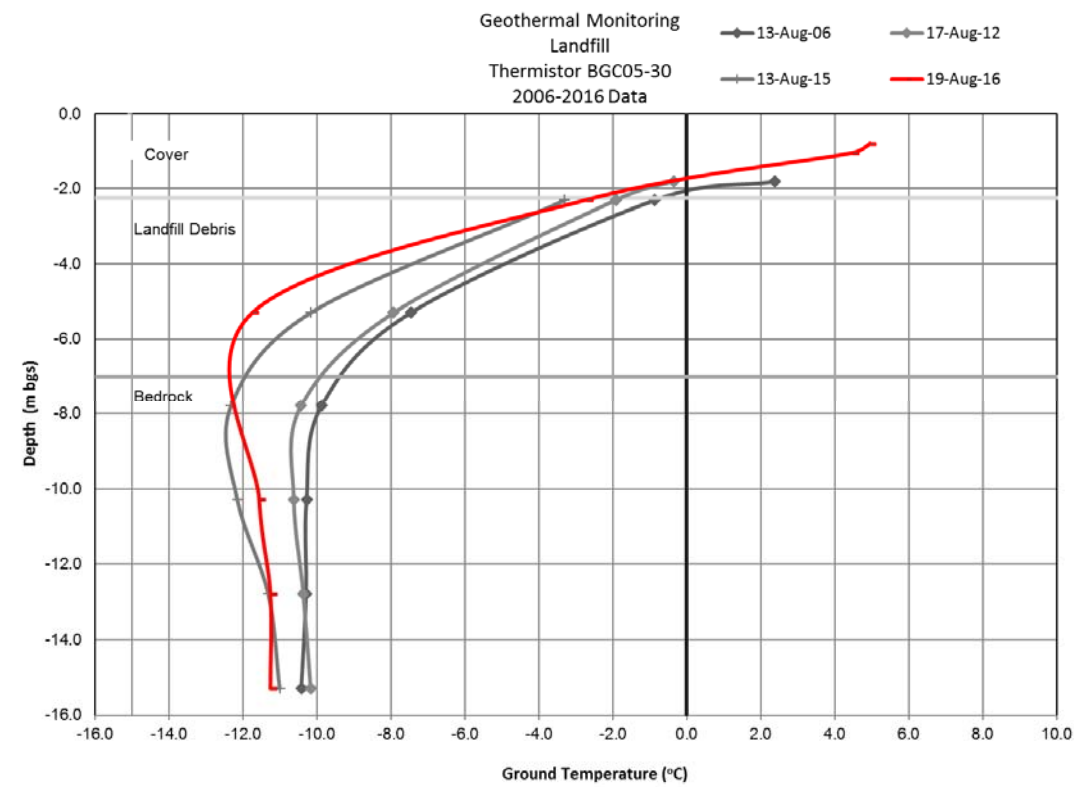
SCALE:	1:1,000
DATE:	JAN 2017
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CHECKED:	SG
APPROVED:	GKC

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PROJECT: NANISIVIK MINE 2016 ANNUAL GEOTECHNICAL INSPECTION	
TITLE: LANDFILL COVER	
PROJECT No.: 0255-027-03	DWG No.: 20

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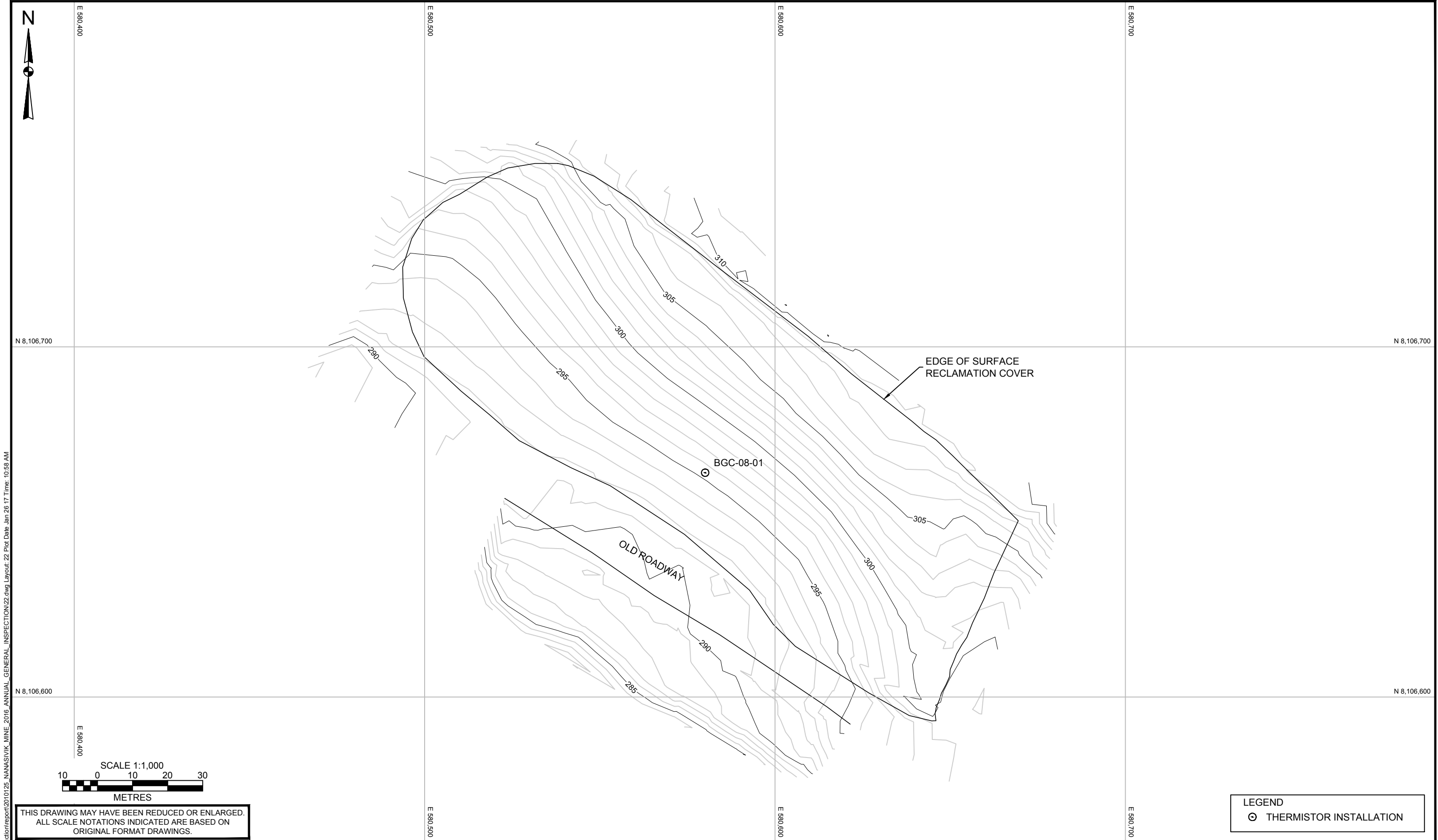


REPORT TITLE:
NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

DRAWING TITLE:
LANDFILL COVER
GEOTECHNICAL MONITORING DATA

PROJECT NO.:
0255-027-03

DRAWING NO.:
21



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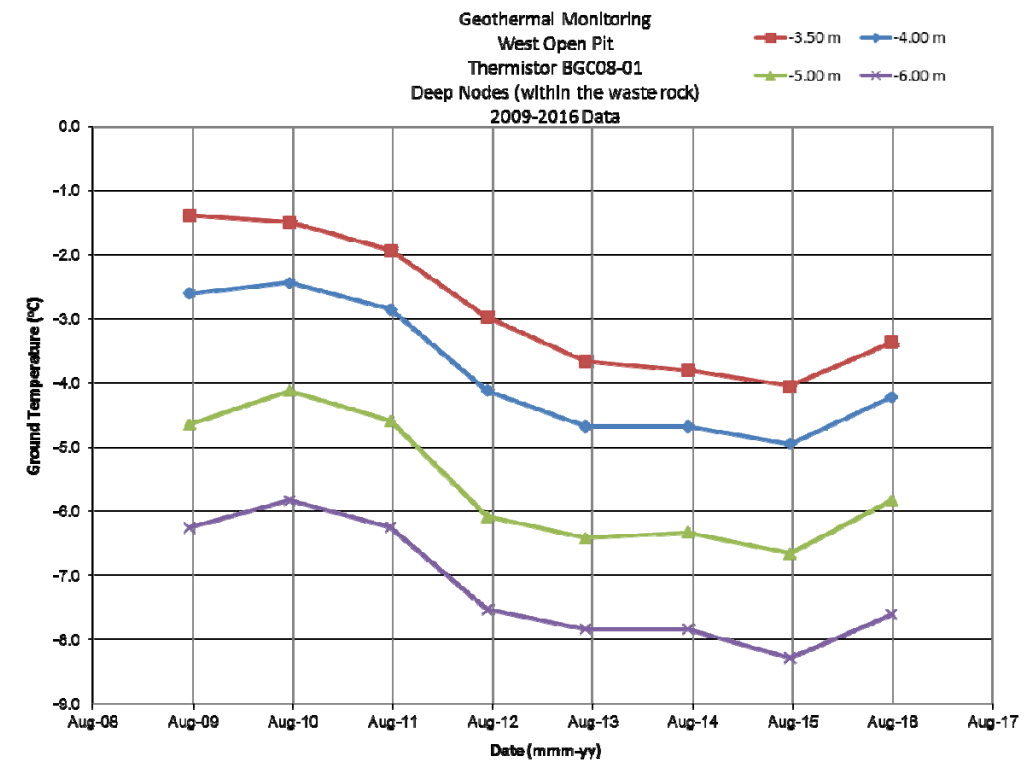
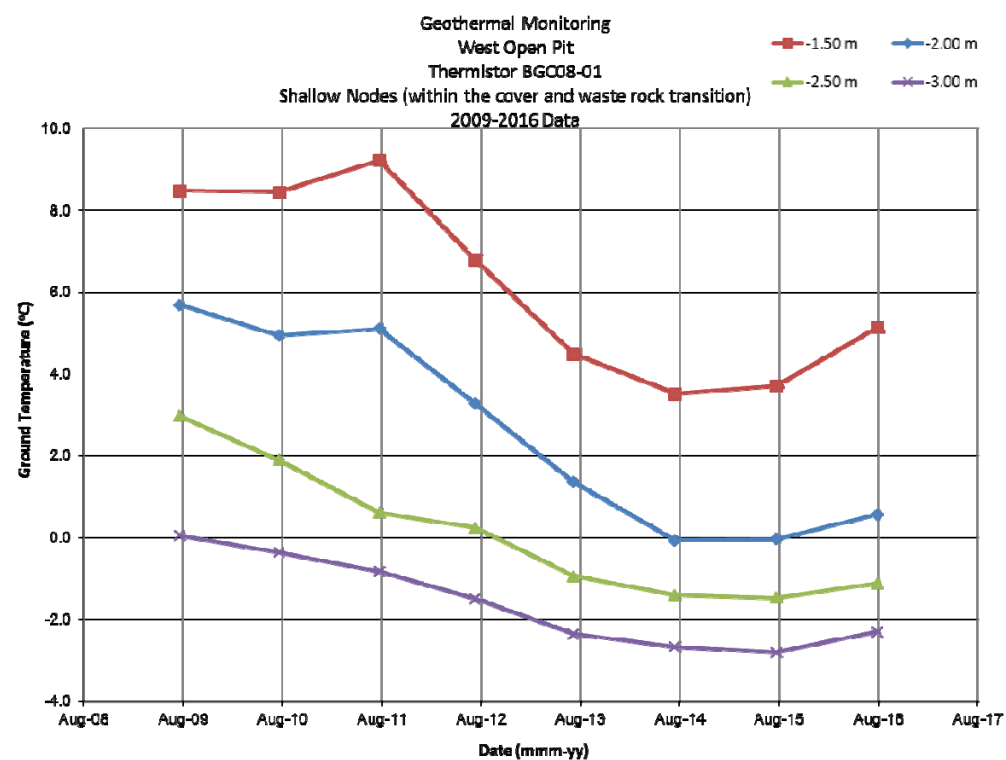
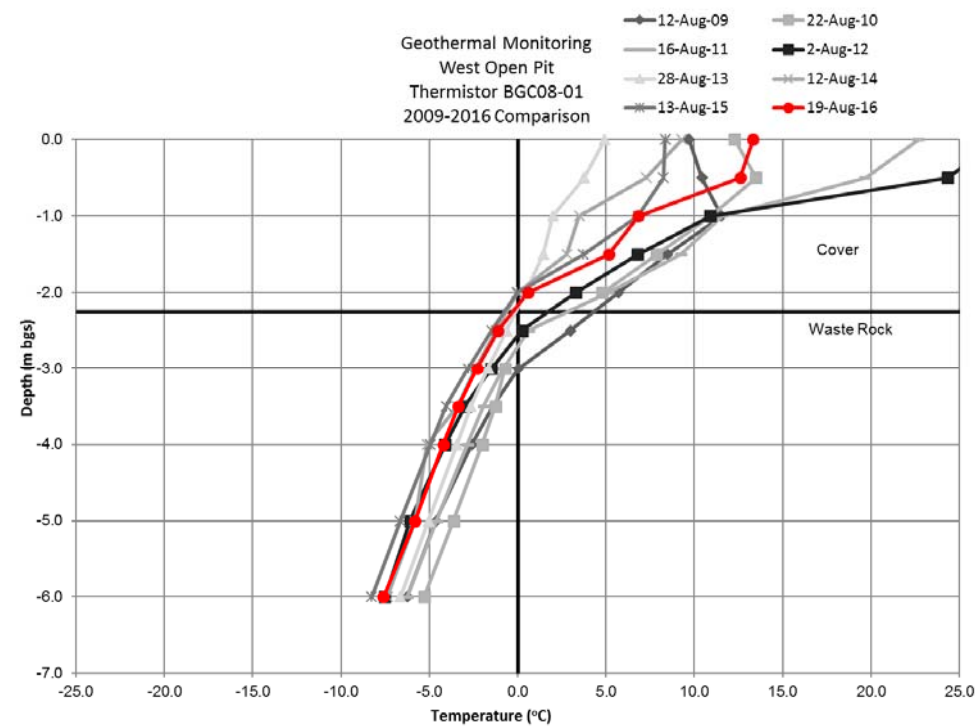
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DATE:	MAR 2017
DRAWN:	COC
CHECKED:	SG
APPROVED:	GKC

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PROJECT: NANISIVIK MINE 2016 ANNUAL GEOTECHNICAL INSPECTION	
TITLE: WEST OPEN PIT WASTE ROCK COVER	
PROJECT No.: 0255-027-03	DWG No.: 22

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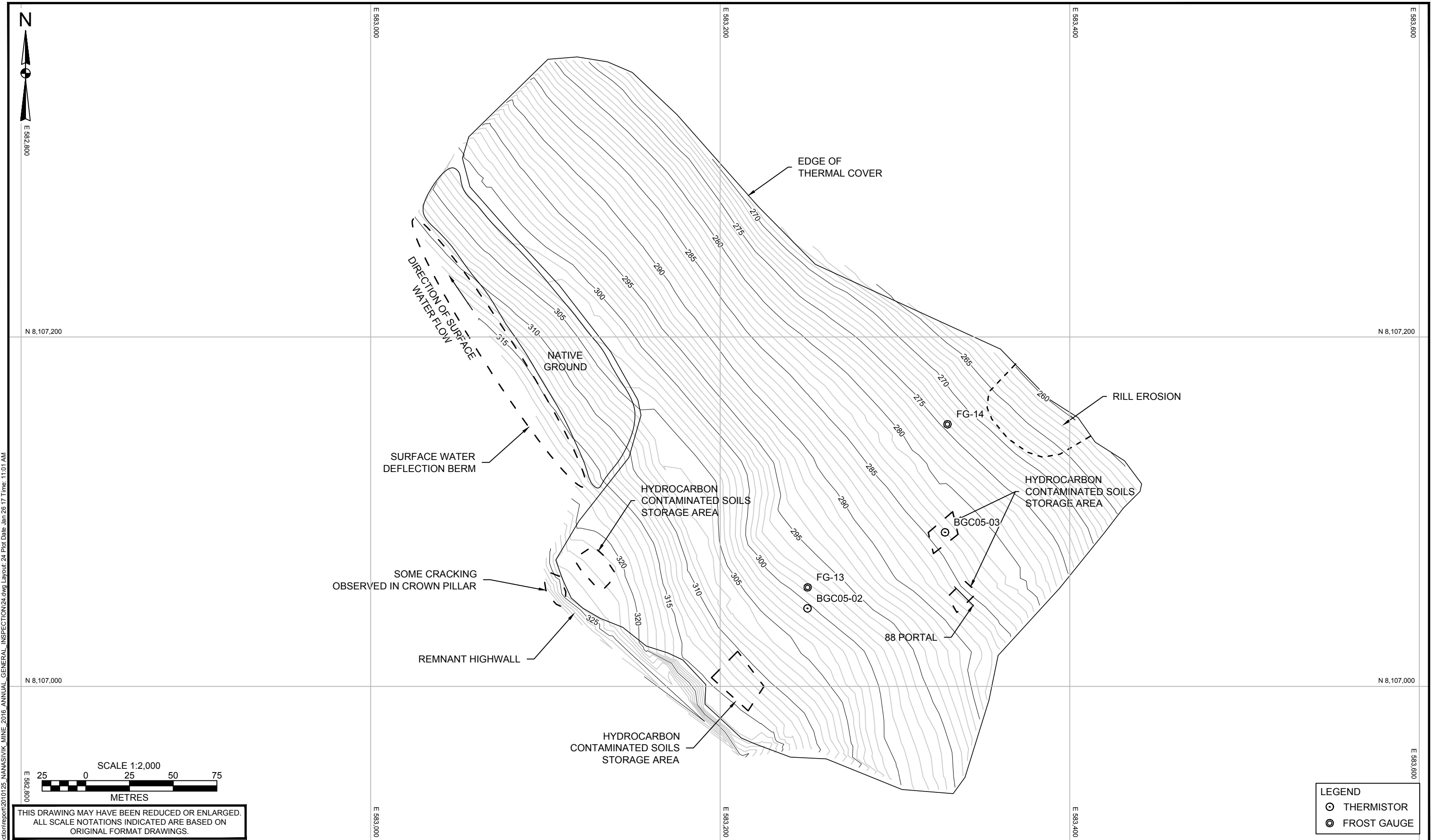


REPORT TITLE:
NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

DRAWING TITLE:
WEST OPEN PIT WASTE ROCK COVER
GEOTECHNICAL MONITORING DATA

PROJECT NO.:
0255-027-03

DRAWING NO.:
23



THIS DRAWING MAY HAVE BEEN REDUCED OR ENLARGED.
ALL SCALE NOTATIONS INDICATED ARE BASED ON
ORIGINAL FORMAT DRAWINGS.

- LEGEND
- ⊙ THERMISTOR
 - ⊙ FROST GAUGE

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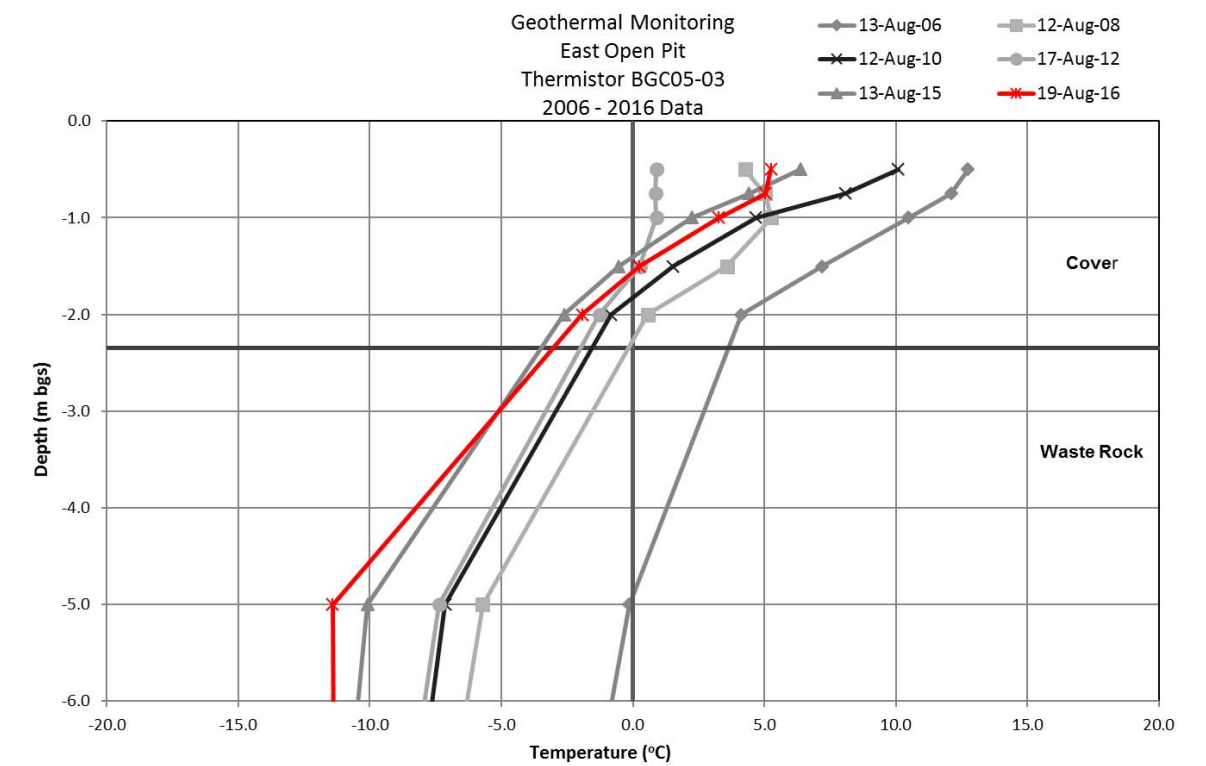
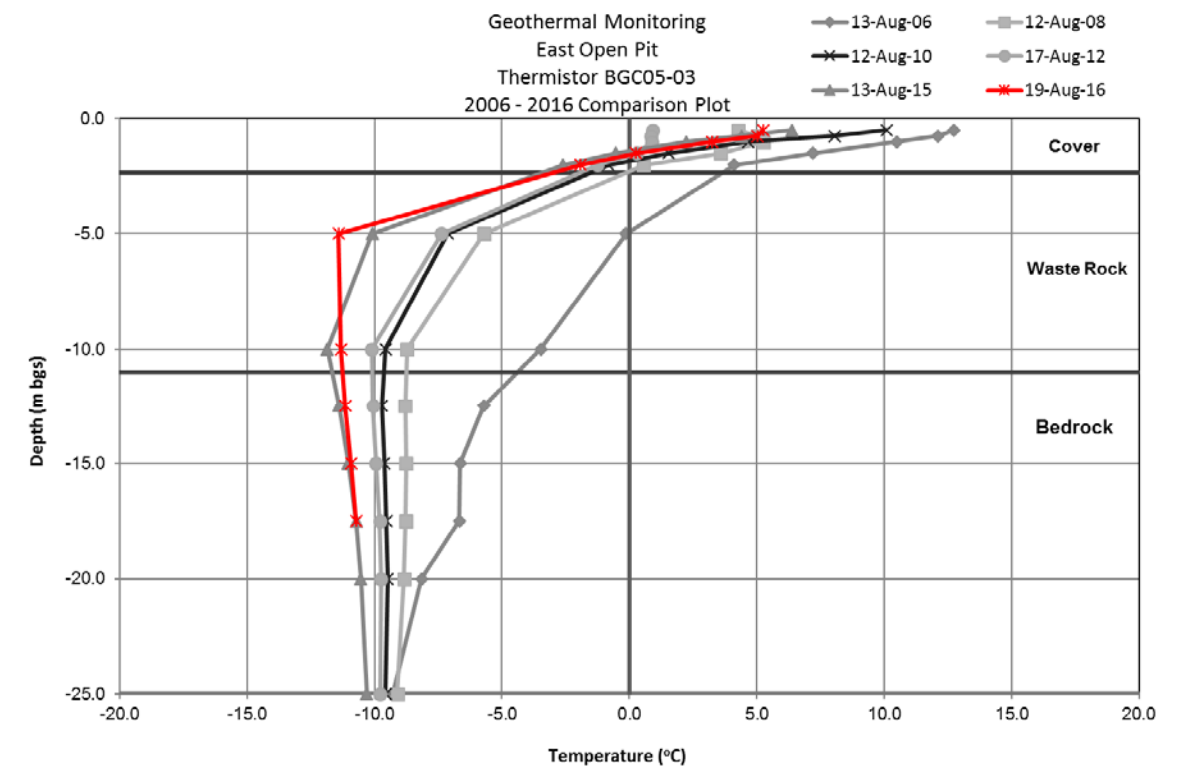
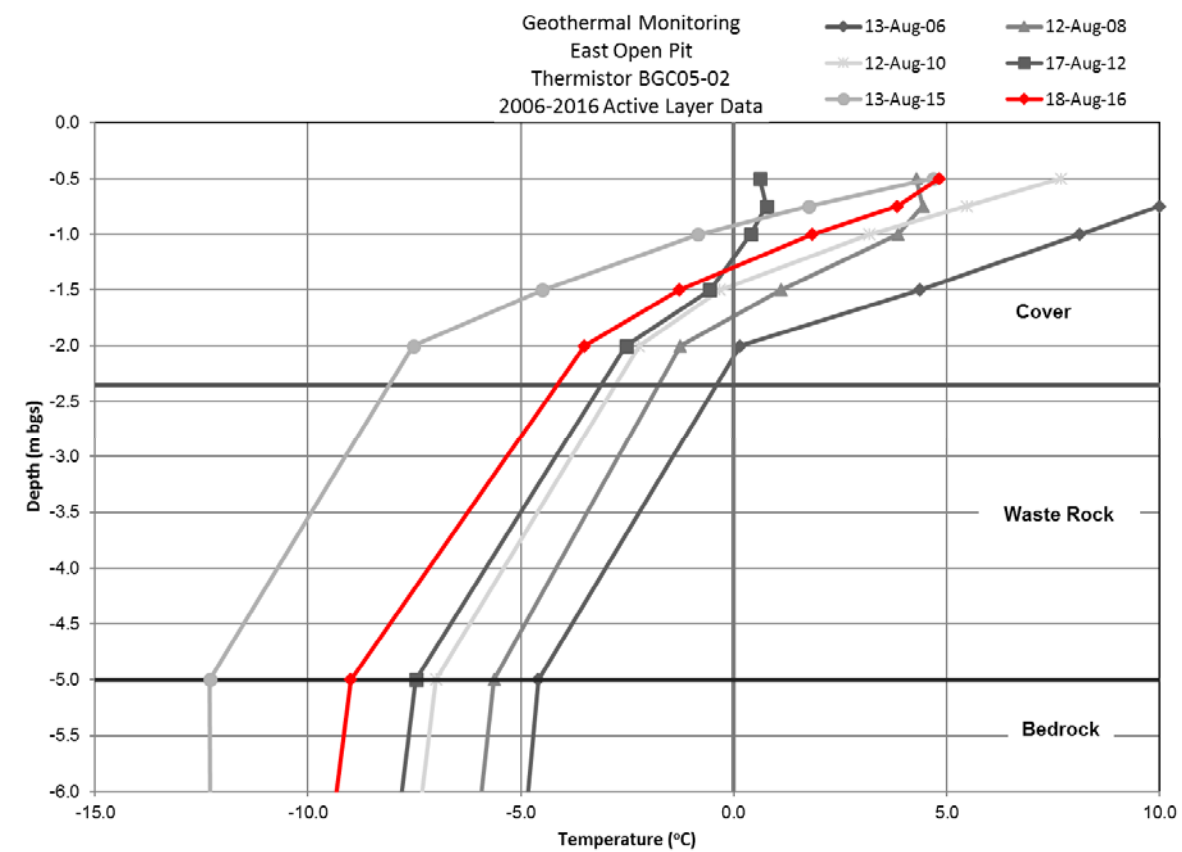
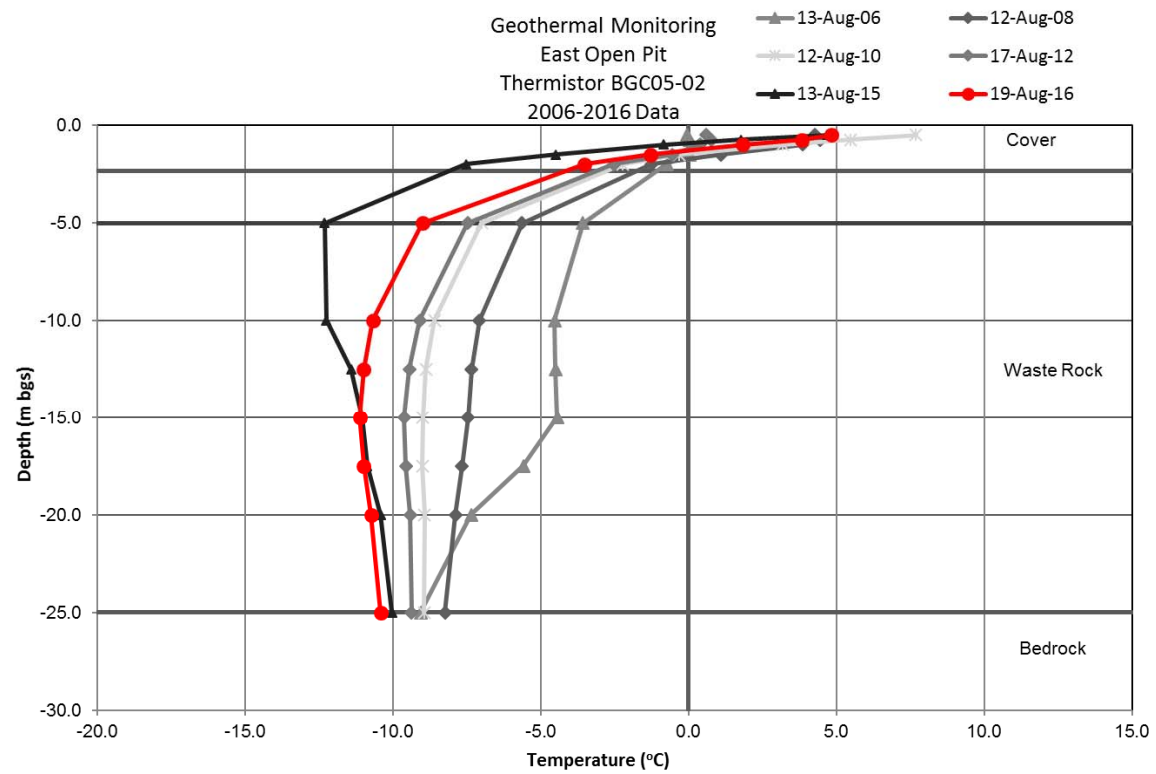
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PROJECT: NANISIVIK MINE 2016 ANNUAL GEOTECHNICAL INSPECTION	
TITLE: EAST OPEN PIT WASTE ROCK COVER	
PROJECT No.: 0255-027-03	DWG No.: 24



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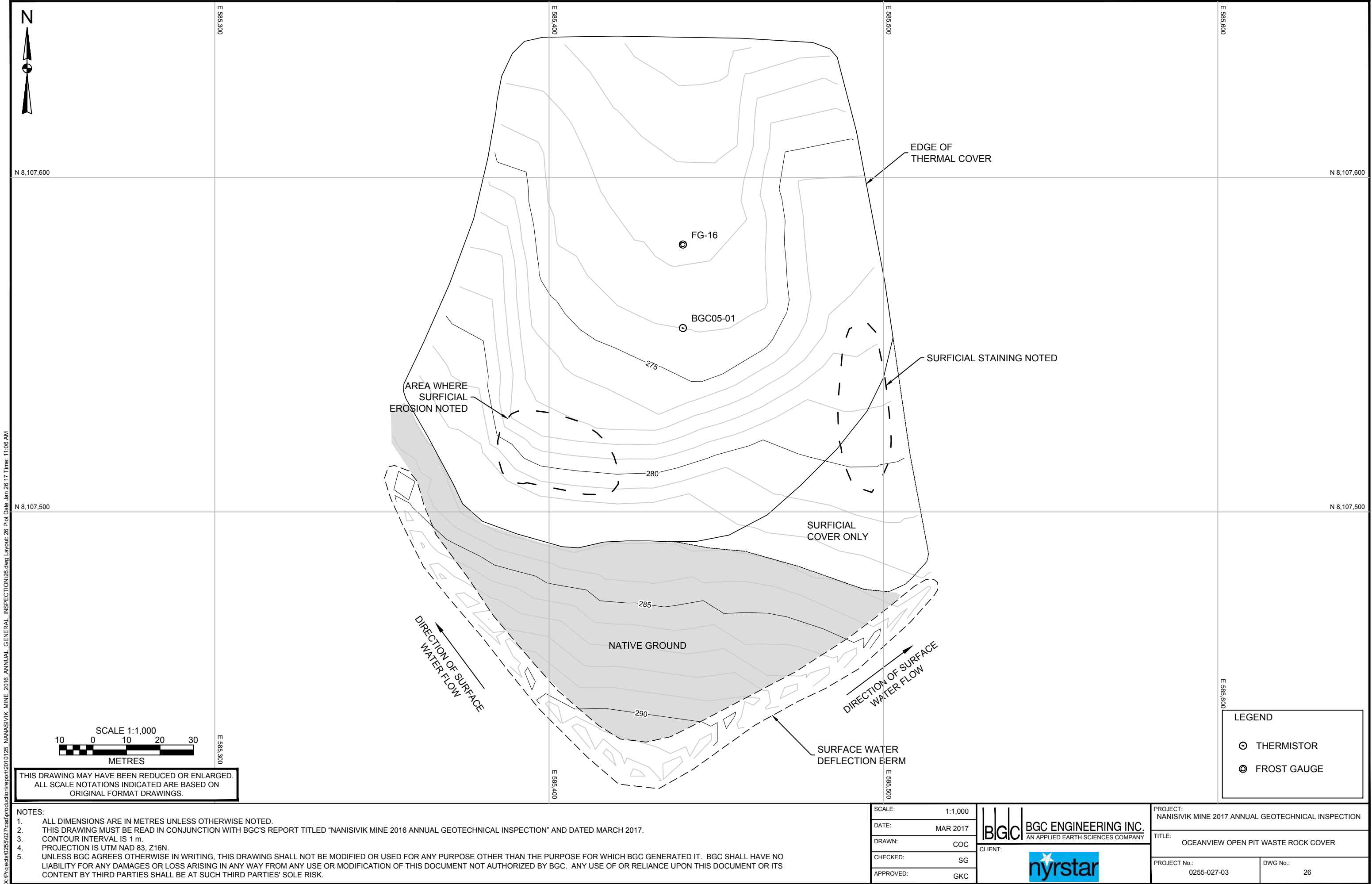
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NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

DRAWING TITLE:
EAST OPEN PIT WASTE ROCK COVER
GEOTECHNICAL MONITORING DATA

PROJECT NO.:
0255-027-03

DRAWING NO.:
25

DRAWING TO BE READ WITH BGC REPORT TITLED: "NANISVIK MINE 2016 GEOTECHNICAL INSPECTION", DATED MAR 2017



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DATE:	MAR 2017
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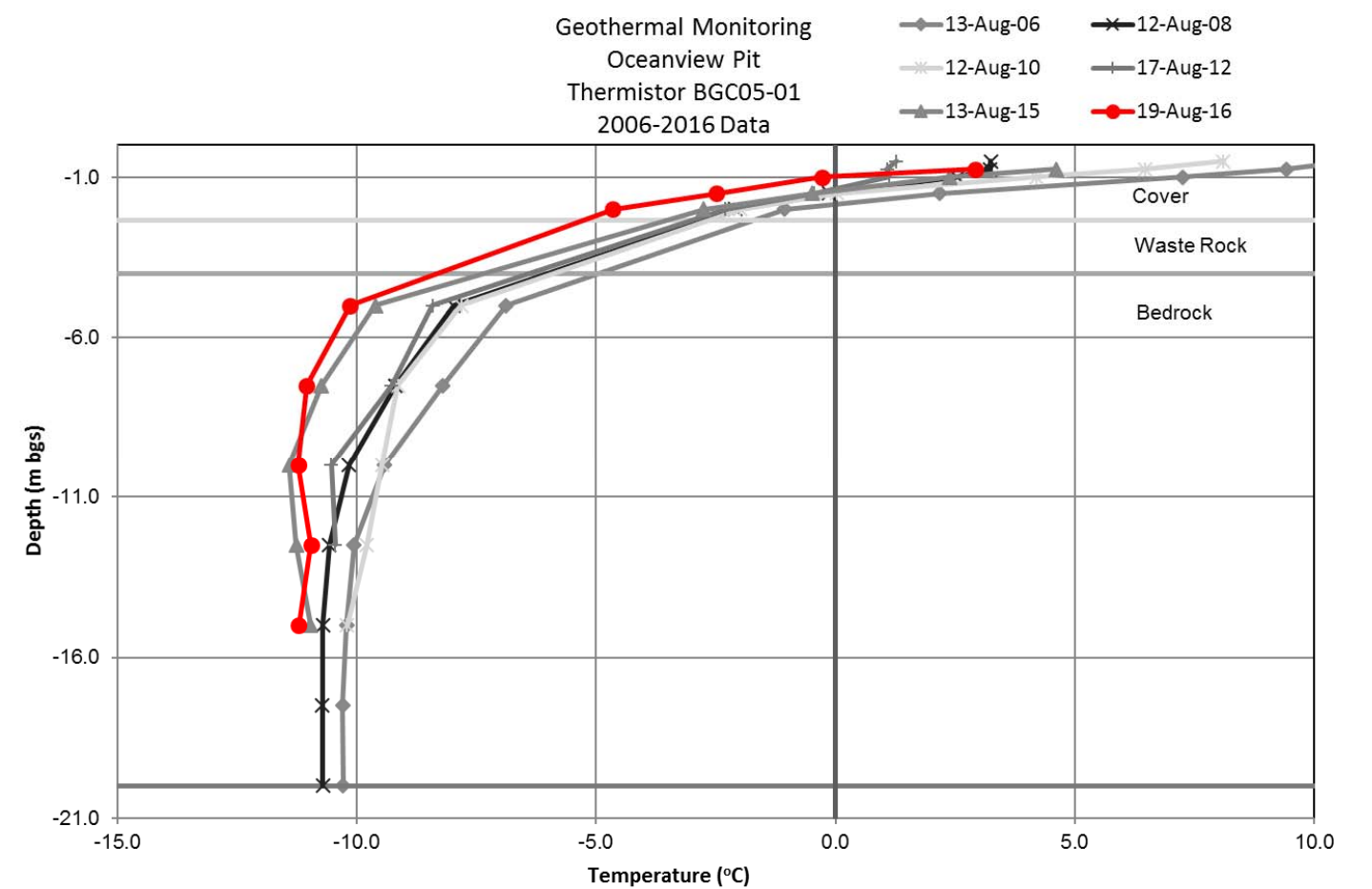
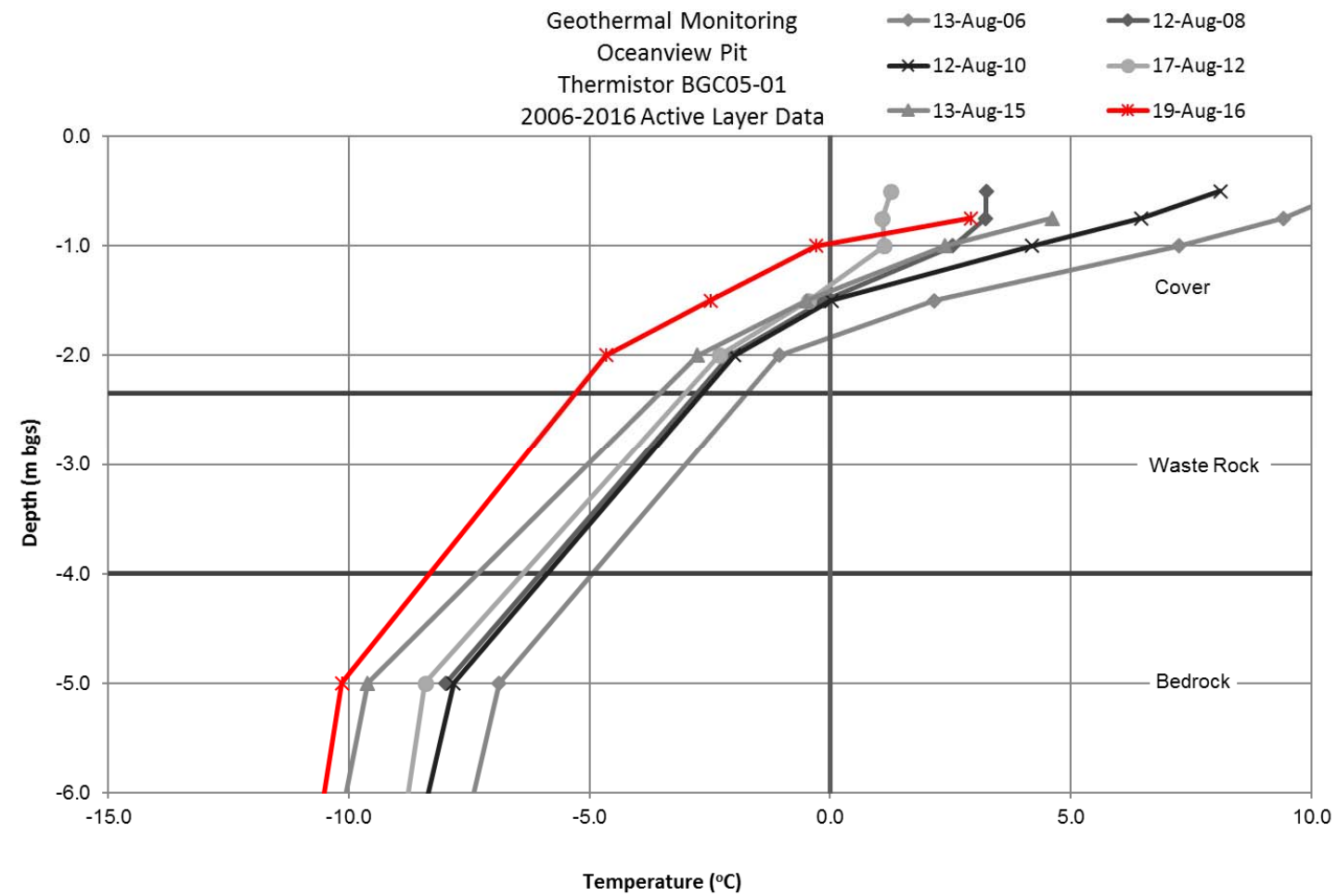
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nyrstar

PROJECT: NANISIVIK MINE 2017 ANNUAL GEOTECHNICAL INSPECTION	
TITLE: OCEANVIEW OPEN PIT WASTE ROCK COVER	
PROJECT No.: 0255-027-03	DWG No.: 26



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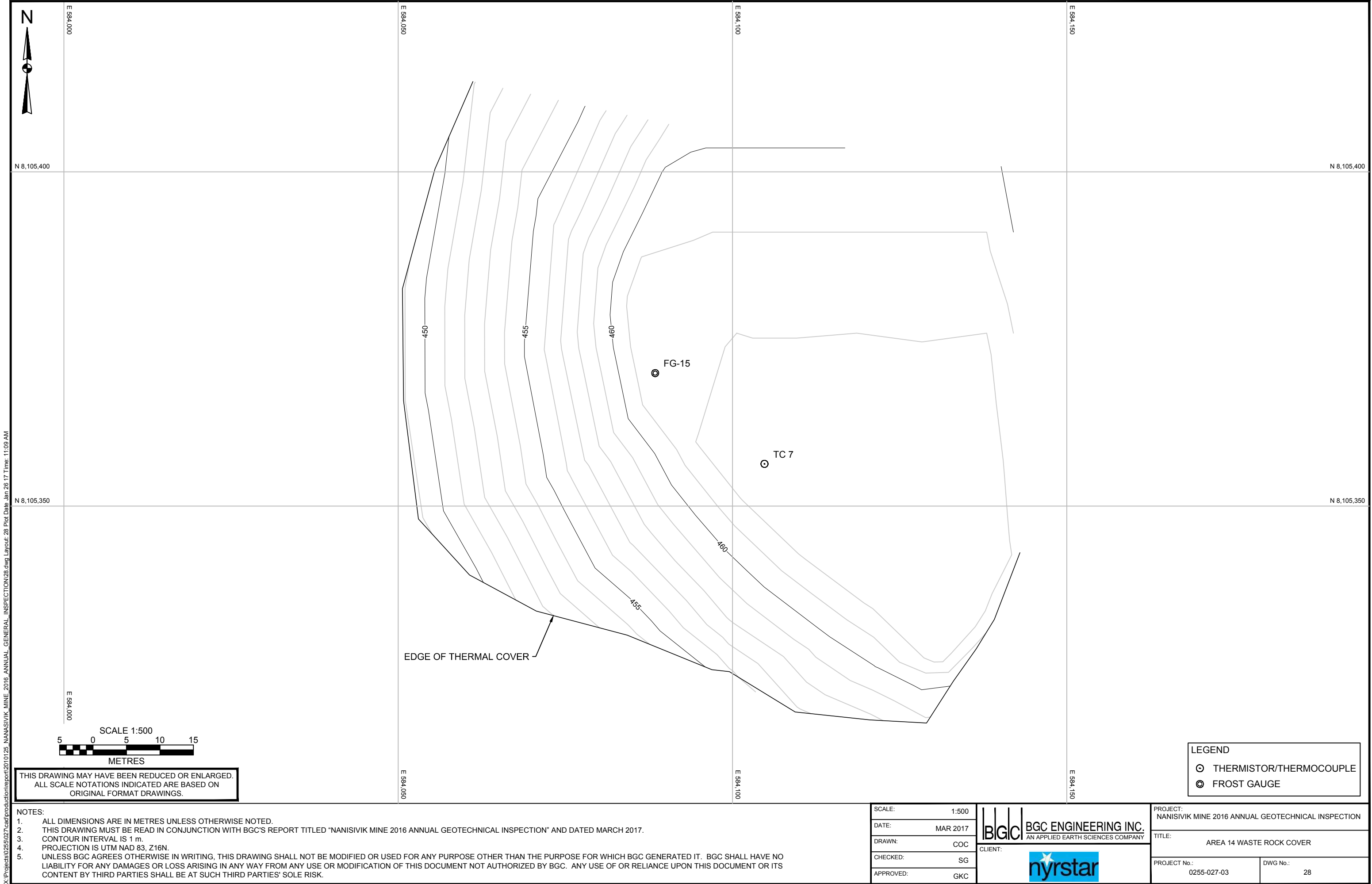


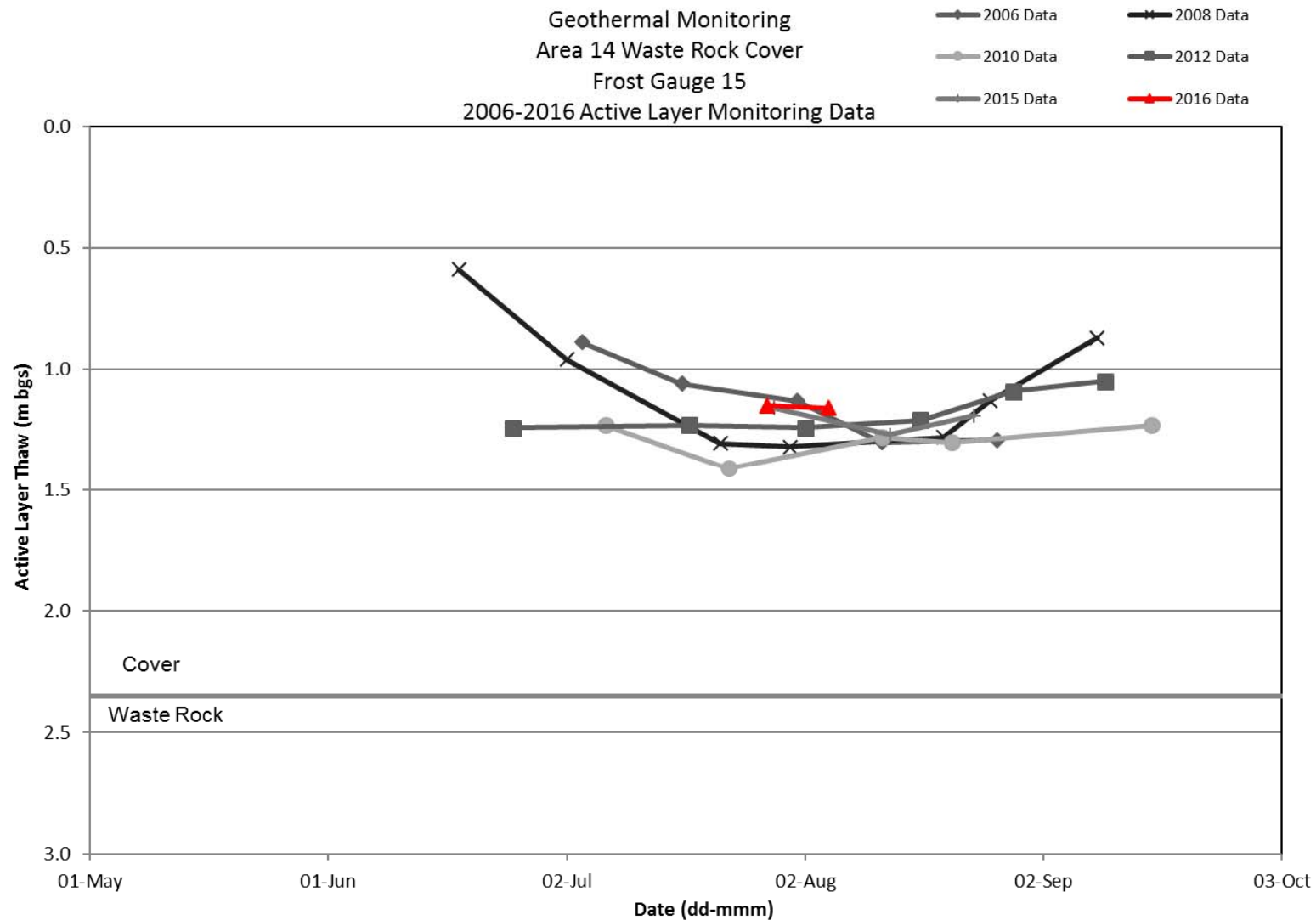
REPORT TITLE:
NANISVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

DRAWING TITLE:
OCEANVIEW PIT WASTE ROCK COVER
GEOTECHNICAL MONITORING DATA

PROJECT NO.:
0255-027-03

DRAWING NO.:
27





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DRAWN: SG
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APPROVED: GKC

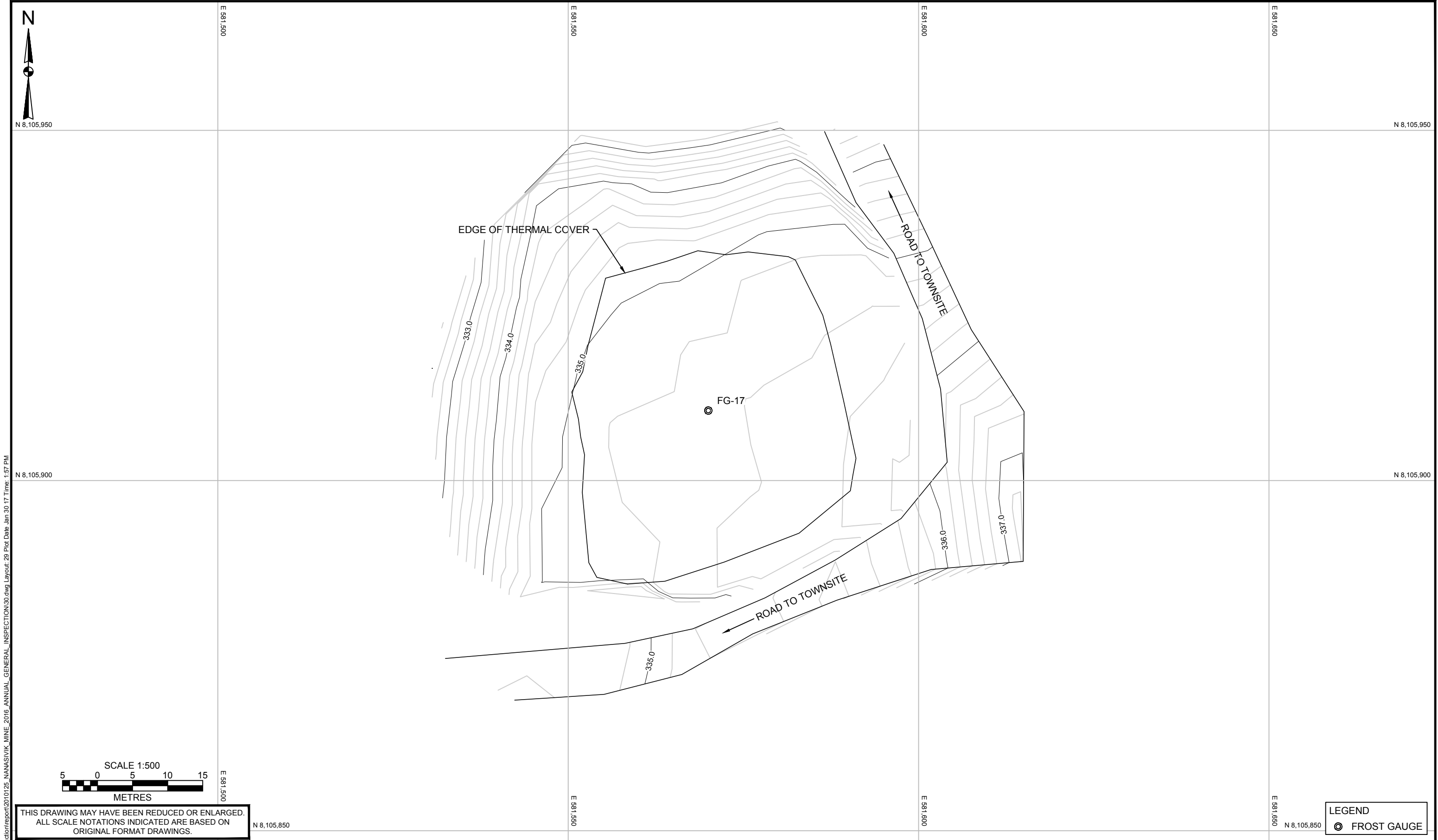
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PROJECT: NANISIVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION

TITLE: AREA 14 WASTE ROCK COVER
MONITORING DATA

DWG No.: 29
PROJ No.: 0255-027-03
REV:



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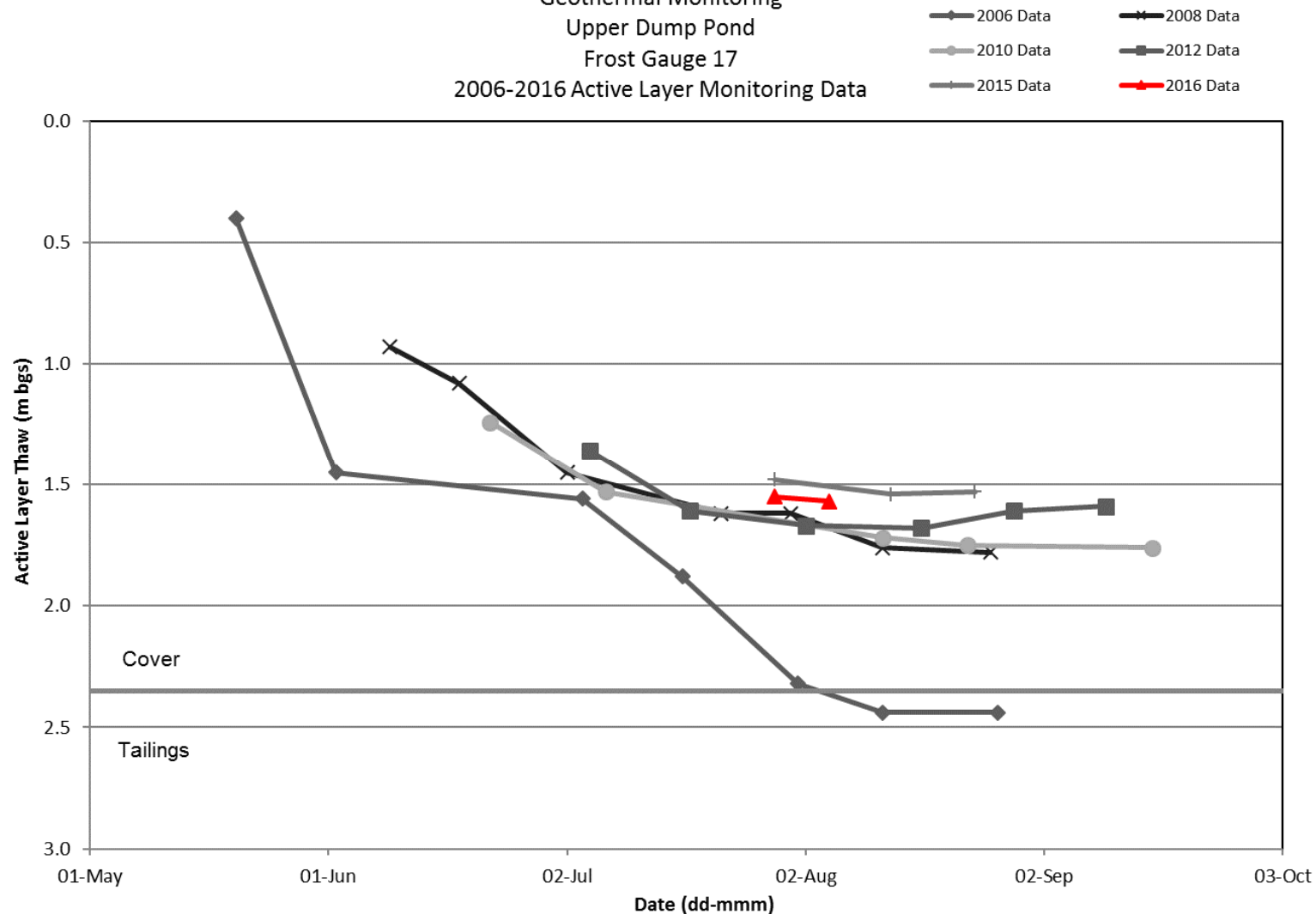
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PROJECT: NANISIVIK MINE 2016 ANNUAL GEOTECHNICAL INSPECTION	
TITLE: UPPER DUMP POND TAILINGS COVER	
PROJECT No.: 0255-027-03	DWG No.: 30

Geothermal Monitoring
Upper Dump Pond
Frost Gauge 17
2006-2016 Active Layer Monitoring Data



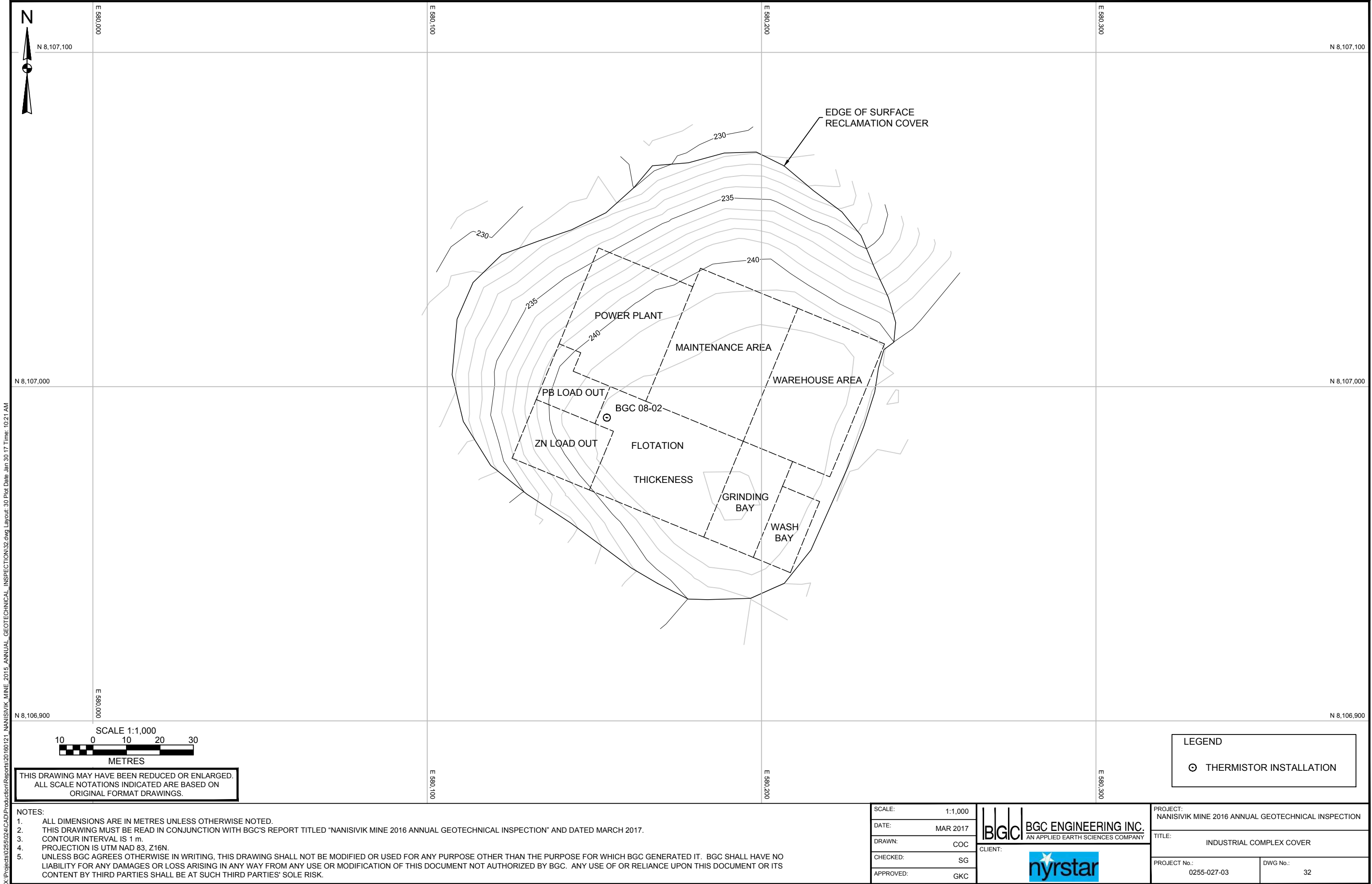
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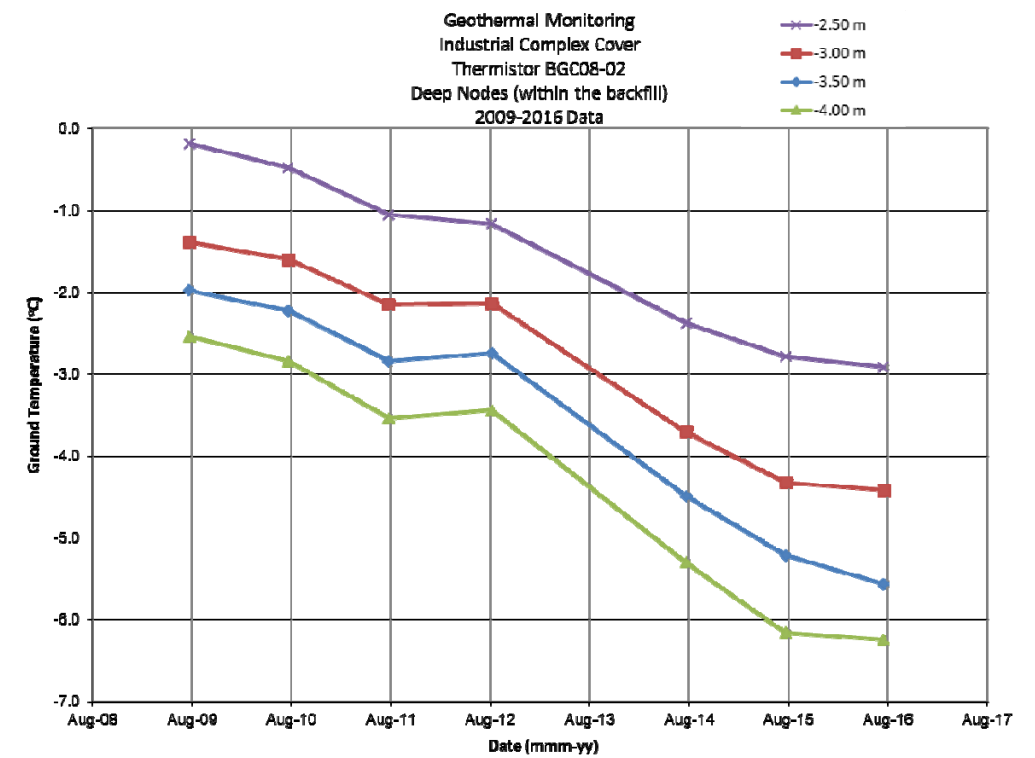
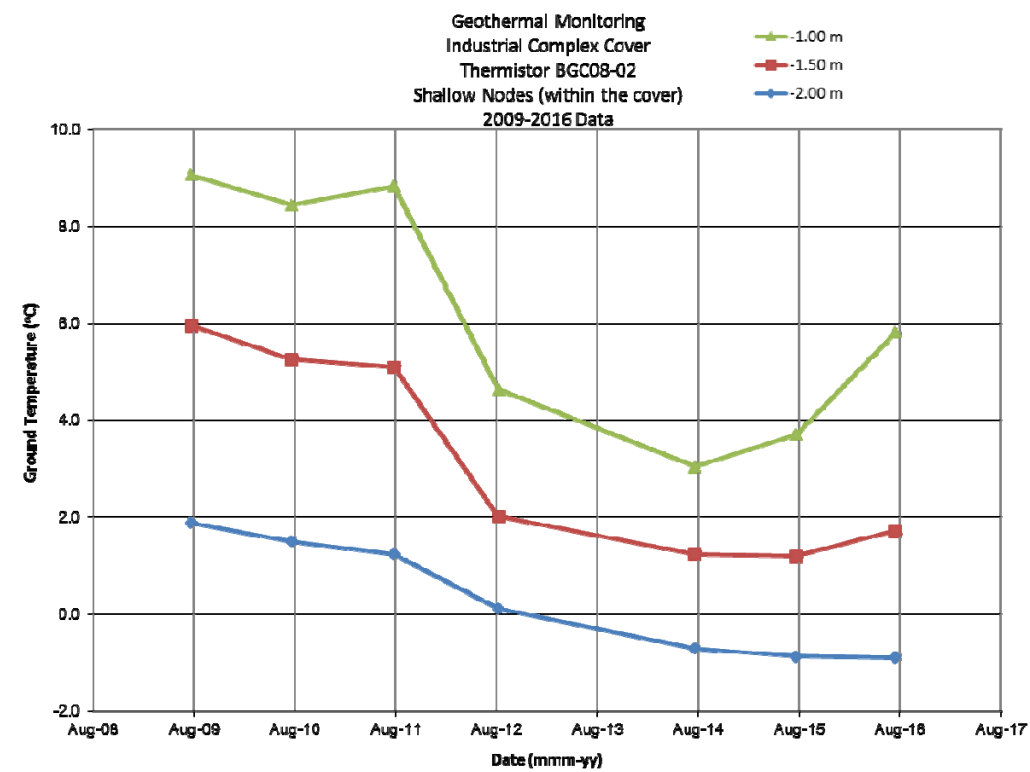
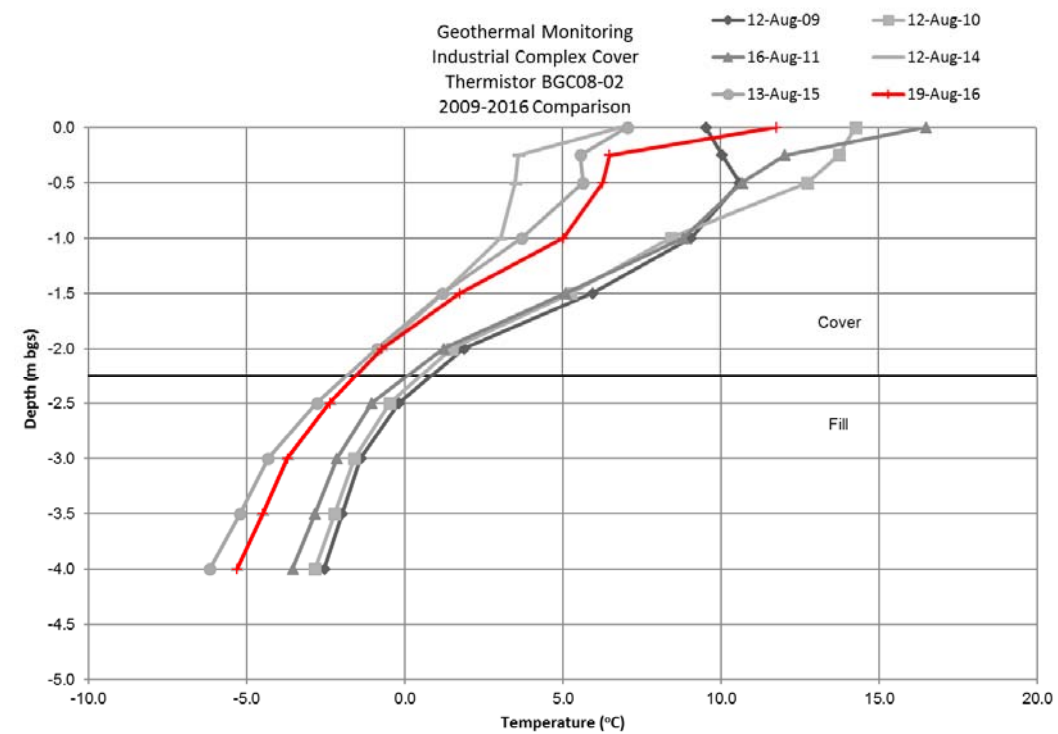
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PROJECT: NANISIVIK MINE
2016 ANNUAL GEOTECHNICAL INSPECTION
TITLE: UPPER DUMP POND TAILINGS COVER
MONITORING DATA
DWG No.: 31
PROJ No.: 0255-027-03
REV:





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 BGC ENGINEERING INC. AN APPLIED EARTH SCIENCES COMPANY	REPORT TITLE: NANISVIK MINE 2016 ANNUAL GEOTECHNICAL INSPECTION	
	DRAWING TITLE: INDUSTRIAL COMPLEX COVER GEOTECHNICAL MONITORING DATA	
CLIENT: 	PROJECT NO.: 0255-027-03	DRAWING NO.: 33