



March 28, 2016

Government of Yukon
Department of Energy Mines and Resources
Assessment and Abandoned Mines Branch
P.O. Box 2703
Whitehorse, YT Y1A 2C6

ISSUED FOR USE
FILE: W14103577-01
Via Email: jeff.moore@gov.yk.ca

Attention: Mr. Jeff Moore
Type II Project Officer

Subject: 2015 Annual Summary of Piezometer and Ground Temperature Data to February 28, 2016
Mount Nansen Site, YT.

1.0 INTRODUCTION

As requested, Tech EBA Inc. (Tetra Tech EBA) has compiled the ground temperature and piezometer data collected by Yukon Government/Energy Mines and Resources/Assessment and Abandoned Mines (YG-AAM) over the past year. This letter presents updated graphical plots of the previous and most recently collected data with geodetic elevation references. The most recent set of readings included herein are up to and including February 28, 2016 as collected by YG-AAM and/or their designate on site. General information regarding use of this report is noted in Tetra Tech EBA's General Conditions included in **Appendix A**.

2.0 DATA PRESENTATION

A Site Plan showing the locations of existing instrumentation is presented in **Appendix B** as Figure 1, followed by cross sections (Figures 2 and 3) that show the range of measured water levels in the tailings dam and toe berm from interpretation of the 2015 readings. Plots of all collected ground temperature and piezometer readings are presented in **Appendix C** and **Appendix D**, respectively. The digital (Excel 2013) files are also included with this report transmittal.

2.1 Ground Temperature Data (Appendix C)

2.1.1 Tailings Dam (TD)

Figures TD-1 to TD-4 in Appendix C show plots of the temperature history under the main tailings dam from 1998 to present. The data generally shows that the ground temperatures under the dam are warming at the south end and on the western side of the crest (TD-1 and TD-4 respectively), but generally stable at the other locations. The permafrost hasn't migrated upwards into the sand fill, and the top thermistor in TD-1 appears to be indicating a thawing trend.

Figure TD-3 represents temperatures in the sand fill (construction materials) at the north centre of the tailings dam, the scatter of which is probably related to seepage water temperatures.

2.1.2 Toe Berm (TB)

Figures TB-5 to TB-10 in Appendix C show plots of the temperature history under the toe berm from 1998 to present. The data generally shows that the ground temperatures under the centre, north end, and toe (TB-5 to TB-8) are warming. This could be a result of water seepage from the tailings pond through the toe berm. There is

only a few years' worth of data for TB-9 and TB-10; however, the data generally shows that the temperatures are consistent over the monitoring period, with the bottom four thermistors in TB-9, and only the bottom thermistor in TB-10 located in permafrost.

2.1.3 Seepage Collection Dam (SC)

Figures SC-11 to SC-15 in Appendix C show plots of the ground temperature history along and downstream of the frozen core seepage collection dam from 1998 to present. The data generally shows that the north end of the seepage collection dam is warming but has remained frozen (SC-11), the valley bottom is gradually warming at the north toe (SC-12), but stable in the south central toe (SC-13). The data also indicates that the centre of the dam (SC-14) has remained frozen, but gradually warming. The north abutment (SC-15) appears to be frozen at depth, with a progressively thickening active layer.

2.1.4 North Abutment (NA)

Figures NA-16 to NA-19 in Appendix C show plots of ground temperature data taken since these thermistor cables were installed in 1998 (NA-16) and the fall of 2012 (NA-17 to NA-19). Figure NA-16 shows that the ground temperature is frozen and stable. Figures NA-17 to NA-19 show that the top one or two beads in each of these cables are within the active layer, but the bottom beads remain in a permafrost condition. It is still our opinion that there may be some localized zones/unfrozen channels in the north abutment that allow some seepage from the Dome Creek diversion channel to enter the seepage collection pond. Unfortunately, the instrumentation installations do not appear to be within any of these channels.

2.1.5 Upper Tailings Pond

Figure TP-20 in Appendix C is a plot of the ground temperature data measured in the single cable installed at the west end of the tailings pond in the fall of 2012. The upper bead is within the active layer and the bottom beads indicate a permafrost condition at this location.

2.2 Piezometer Data (Appendix D)

As previously noted, the locations of two cross-sections through the dam are shown on Figure 1 in Appendix B, followed by Figures 2 and 3 that show the range of the last year's relevant piezometer readings. The sections don't go right through all the piezometer locations, so the data has been extrapolated/projected as noted at the top of the boreholes. The average of water pressures measured in 2015 as shown on Figures 2 and 3 is generally consistent with an assumed phreatic surface from the tailings pond water elevation to the seepage pond elevation.

In Appendix D, Figures P-1 to P-5 show plots of the presently working piezometers located under the crest of the tailings dam and central section of the tailings dam toe berm. The plots indicate a cyclic response related to changes in the tailings pond water elevation, which would normally be expected. No explanation is offered with respect to why two piezometers in the same borehole, within an unfrozen uniform sand dam, show different water pressures. Regardless, none of the water pressures shown are cause for concern, as they're all well below the ground surface and are not increasing with time.

Data from the newest piezometers installed in the fall of 2012 at the north abutment have not been plotted yet, as thermistor cables indicate permafrost at these locations. The intent of these piezometers was to record water pressure after the ground has thawed. During installation of this instrumentation, the sound of "running water" was heard in the open borehole. This flow is likely directly on top of the permafrost and would not be indicated by a reading from the piezometer below this elevation.

3.0 TEMPERATURE AND PIEZOMETER DATA QUALITY

There is sometimes a large variation in readings in some temperature and piezometer plots, especially before about 2012. This is most likely attributed to reading errors, bad connections (cables not tightened onto readout box) or possibly bad weather conditions at the time of the (manual) readings. Variations in some of the temperature plots are directly related to the temperature beads being located in the active layer, reflecting the effects of changing air temperature.

Most of the non-active layer anomalies are easy to detect on the plots, and obvious bad readings have sometimes been eliminated by Tetra Tech EBA during data reduction and plotting. Since 2012 the readings have been a lot better and more consistent – the data quality in general is considered to reflect actual conditions at the site, and accurate enough to prepare interpretations on ground temperature and water pressure within the structures.

4.0 BOREHOLE LOGS

Appendix E contains the borehole logs for the instrumentation installations presented herein. The logs show the geodetic collar elevations, and can be referred to for further analysis of the temperature and piezometer data.

5.0 DATA COLLECTION SHEETS

Appendix F contains revised data collection sheets reflecting the thermistors and piezometers currently being read on a monthly basis. These data collection sheets were revised in early 2015 and are still applicable for use.

6.0 RECOMMENDATIONS

Tetra Tech EBA's general observation is that none of the temperature or piezometer reading trends create cause for concern or suggest instability in any of the earthfill structures. We recommend that all the ground temperature and piezometer cables reported herein continue to be monitored monthly as has been done for the past several years.

It is recommended that the YG-AAM field staff or their on-site delegates continue to include a brief explanation in the comments section of the piezometer and thermistor data sheets indicating when no readings were able to be recorded.

The piezometer data should also always indicate tailings pond and seepage collection pond water elevations, as read from the installed staff gauges. In winter, top of ice readings should also be taken on the staff gauges – if there is a significant build-up of snow or glaciation around the gauges, this should be recorded on the data sheets.

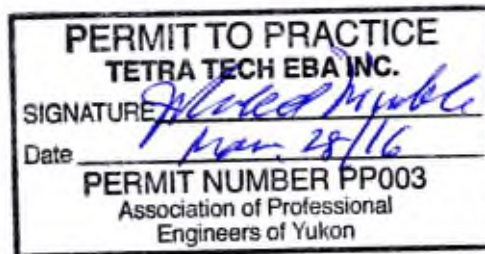
7.0 LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of the Government of Yukon, Energy Mines and Resources, Assessment and Abandoned Mines and their agents. Tetra Tech EBA Inc. (Tetra Tech EBA) does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than Government of Yukon, Energy Mines and Resources, Assessment and Abandoned Mines, or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this report is subject to the terms and conditions stated in Tetra Tech EBA's Services Agreement. Tetra Tech EBA's General Conditions are provided in Appendix A of this report.

8.0 CLOSURE

We trust this report meets your present requirements. If you have any questions or comments, please contact the undersigned.

Respectfully submitted,
Tetra Tech EBA Inc.



J. Richard Trimble, P.Eng., FEC
Principal Consultant, Arctic Region
Direct Line: 867.668.9216
richard.trimble@tetrattech.com

APPENDIX A

TETRA TECH EBA'S GENERAL CONDITIONS

GENERAL CONDITIONS

GEOTECHNICAL REPORT

This report incorporates and is subject to these “General Conditions”.

1.0 USE OF REPORT AND OWNERSHIP

This geotechnical report pertains to a specific site, a specific development and a specific scope of work. It is not applicable to any other sites nor should it be relied upon for types of development other than that to which it refers. Any variation from the site or development would necessitate a supplementary geotechnical assessment.

This report and the recommendations contained in it are intended for the sole use of EBA's Client. EBA does not accept any responsibility for the accuracy of any of the data, the analyses or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than EBA's Client unless otherwise authorized in writing by EBA. Any unauthorized use of the report is at the sole risk of the user.

This report is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of EBA. Additional copies of the report, if required, may be obtained upon request.

2.0 ALTERNATE REPORT FORMAT

Where EBA submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed EBA's instruments of professional service), only the signed and/or sealed versions shall be considered final and legally binding. The original signed and/or sealed version archived by EBA shall be deemed to be the original for the Project.

Both electronic file and hard copy versions of EBA's instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except EBA. EBA's instruments of professional service will be used only and exactly as submitted by EBA.

Electronic files submitted by EBA have been prepared and submitted using specific software and hardware systems. EBA makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

3.0 ENVIRONMENTAL AND REGULATORY ISSUES

Unless stipulated in the report, EBA has not been retained to investigate, address or consider and has not investigated, addressed or considered any environmental or regulatory issues associated with development on the subject site.

4.0 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

Classification and identification of soils and rocks are based upon commonly accepted systems and methods employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system or method prevail, they are specifically mentioned.

Classification and identification of geological units are judgmental in nature as to both type and condition. EBA does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

Where subsurface conditions encountered during development are different from those described in this report, qualified geotechnical personnel should revisit the site and review recommendations in light of the actual conditions encountered.

5.0 LOGS OF TESTHOLES

The testhole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive. Any circumstance which requires precise definition of soil or rock zone transition elevations may require further investigation and review.

6.0 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of test holes and/or soil/rock exposures. Stratigraphy is known only at the locations of the test hole or exposure. Actual geology and stratigraphy between test holes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historic environment. EBA does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional investigation and review may be necessary.

7.0 PROTECTION OF EXPOSED GROUND

Excavation and construction operations expose geological materials to climatic elements (freeze/thaw, wet/dry) and/or mechanical disturbance which can cause severe deterioration. Unless otherwise specifically indicated in this report, the walls and floors of excavations must be protected from the elements, particularly moisture, desiccation, frost action and construction traffic.

8.0 SUPPORT OF ADJACENT GROUND AND STRUCTURES

Unless otherwise specifically advised, support of ground and structures adjacent to the anticipated construction and preservation of adjacent ground and structures from the adverse impact of construction activity is required.

9.0 INFLUENCE OF CONSTRUCTION ACTIVITY

There is a direct correlation between construction activity and structural performance of adjacent buildings and other installations. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer when the final design and construction techniques are known.

10.0 OBSERVATIONS DURING CONSTRUCTION

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, as well as the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations may then serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein.

11.0 DRAINAGE SYSTEMS

Where temporary or permanent drainage systems are installed within or around a structure, the systems which will be installed must protect the structure from loss of ground due to internal erosion and must be designed so as to assure continued performance of the drains. Specific design detail of such systems should be developed or reviewed by the geotechnical engineer. Unless otherwise specified, it is a condition of this report that effective temporary and permanent drainage systems are required and that they must be considered in relation to project purpose and function.

12.0 BEARING CAPACITY

Design bearing capacities, loads and allowable stresses quoted in this report relate to a specific soil or rock type and condition. Construction activity and environmental circumstances can materially change the condition of soil or rock. The elevation at which a soil or rock type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geological materials of the type and in the condition assumed. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions assumed in this report in fact exist at the site.

13.0 SAMPLES

EBA will retain all soil and rock samples for 30 days after this report is issued. Further storage or transfer of samples can be made at the Client's expense upon written request, otherwise samples will be discarded.

14.0 INFORMATION PROVIDED TO EBA BY OTHERS

During the performance of the work and the preparation of the report, EBA may rely on information provided by persons other than the Client. While EBA endeavours to verify the accuracy of such information when instructed to do so by the Client, EBA accepts no responsibility for the accuracy or the reliability of such information which may affect the report.

APPENDIX B

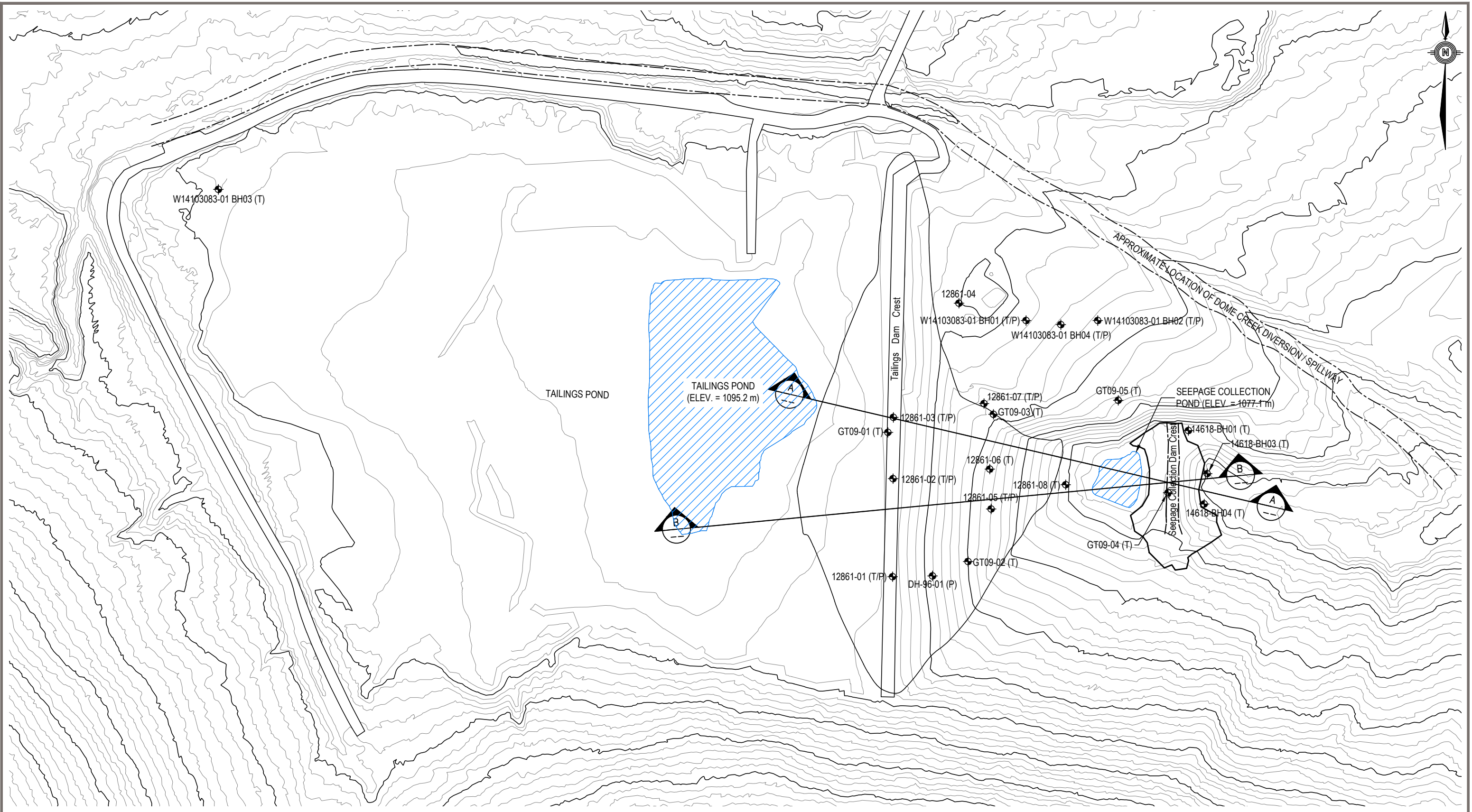
FIGURES

Figure 1: Site Plan Showing Instrumentation and Cross Section Locations

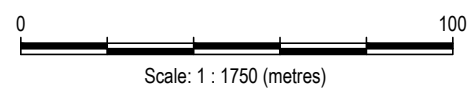
Figure 2: Cross Section A-A' with Water Levels

Figure 3: Cross Section B-B' with Water Levels

Q:\Whitehorse\Drawings\Mt Nansen\2015 Geotechnical Inspection\W14103577-01 Fig. 1_R0.dwg [FIGURE 1] March 17, 2016 - 4:35:57 pm (BY: FULLER, KEN)



- LEGEND:**
- ◆ - INSTRUMENTATION BOREHOLE LOCATION
 - T - THERMISTOR
 - P - PIEZOMETER
 - ▨ - WATER LEVEL (SEPTEMBER 2015)



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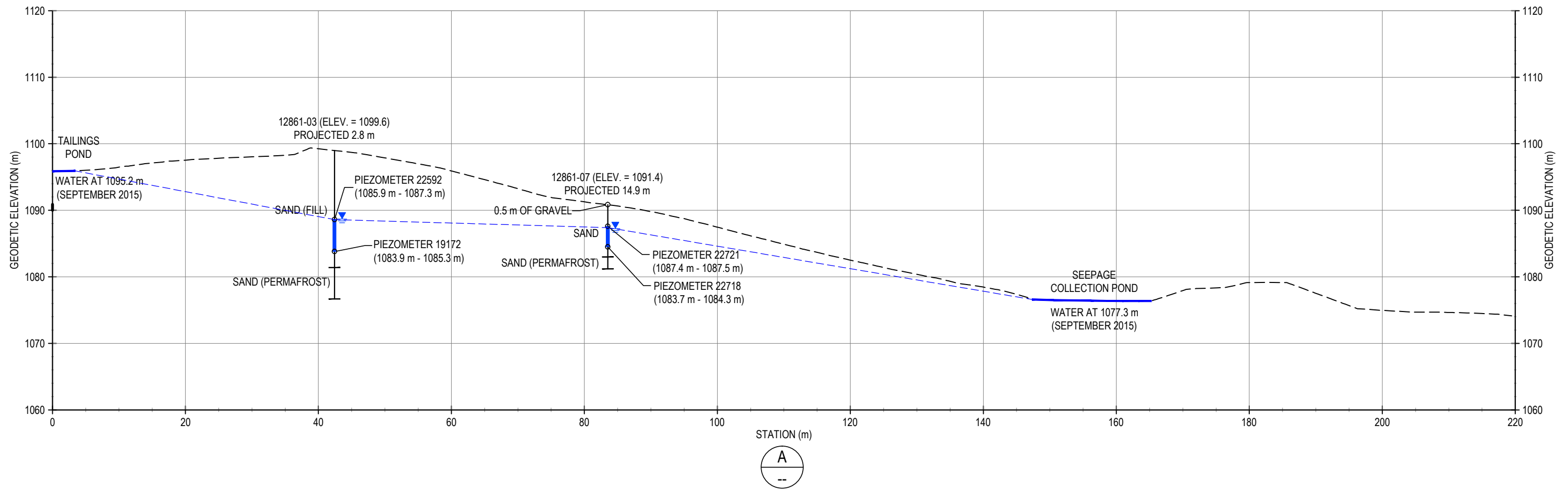
**MOUNT NANSEN ABANDONED MINE SITE
 WEST OF CARMACKS, YUKON**

**SITE PLAN SHOWING LOCATIONS OF
 EXISTING INSTRUMENTATION AND CROSS-SECTIONS**

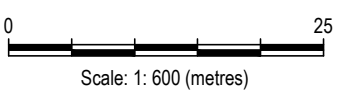
PROJECT NO. W14103577-01	DWN KF	CKD JRT	REV 0
OFFICE EBA-WHSE	DATE March 16, 2016		

Figure 1

Q:\Whitehorse\Drawings\Mt Nansen\W14103577-01 Fig. 2-3, RD.dwg [FIGURE 2] March 17, 2016 - 4:49:33 pm (BY: FULLER, KEN)



LEGEND:
 - INDICATES RANGE OF WATER PRESSURES MEASURED IN 2015
 - INFERRED PHREATIC SURFACE



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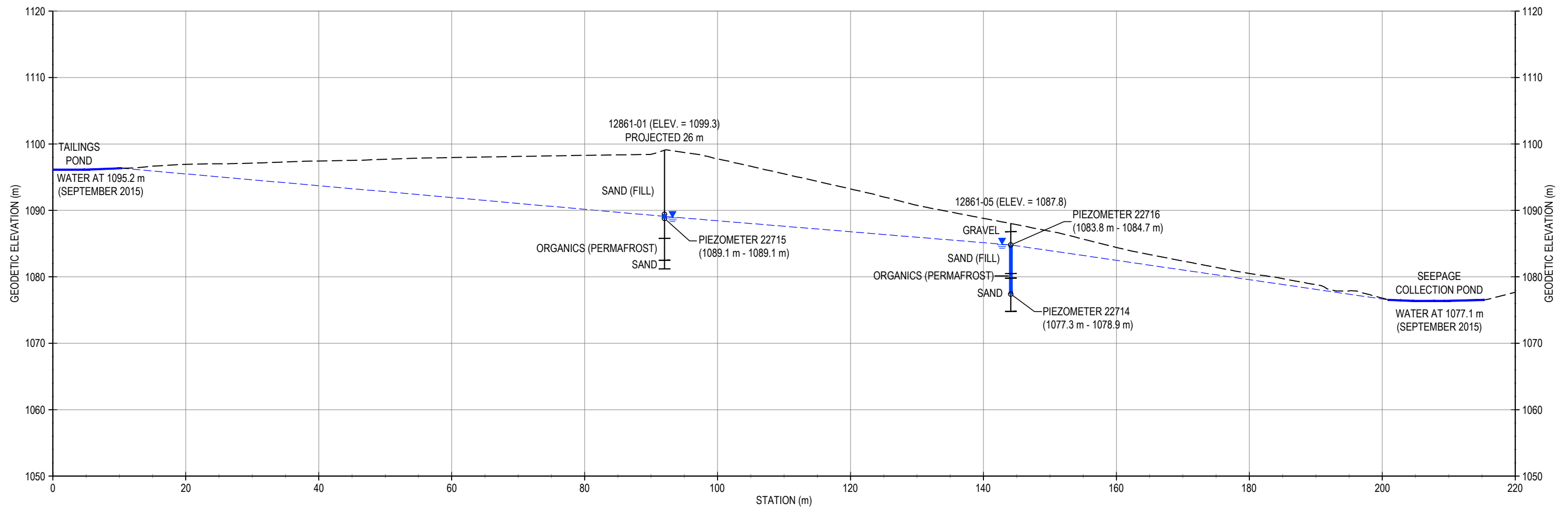
**MOUNT NANSEN ABANDONED MINE SITE
 WEST OF CARMACKS, YUKON**

**SECTION A - A'
 AVERAGE PIEZOMETER READINGS FROM 2015**

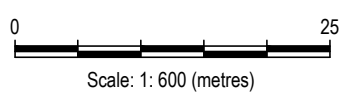
PROJECT NO. W14103577-01	DWN KF	CKD JRT	REV 0
OFFICE EBA-WHSE	DATE March 16, 2016		

Figure 2

Q:\Whitehorse\Drawings\Mt Nansen\W14103577-01 Mt Nansen 2015 Geotechnical Inspection\W14103577-01 Fig. 2-3_P0.dwg [FIGURE 3] March 17, 2016 - 4:46:19 pm (BY: FULLER, KEN)



LEGEND:
 - INDICATES RANGE OF WATER PRESSURES MEASURED IN 2015
 - INFERRED PHREATIC SURFACE



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**MOUNT NANSEN ABANDONED MINE SITE
 WEST OF CARMACKS, YUKON**

**SECTION B - B'
 AVERAGE PIEZOMETER READINGS FROM 2015**

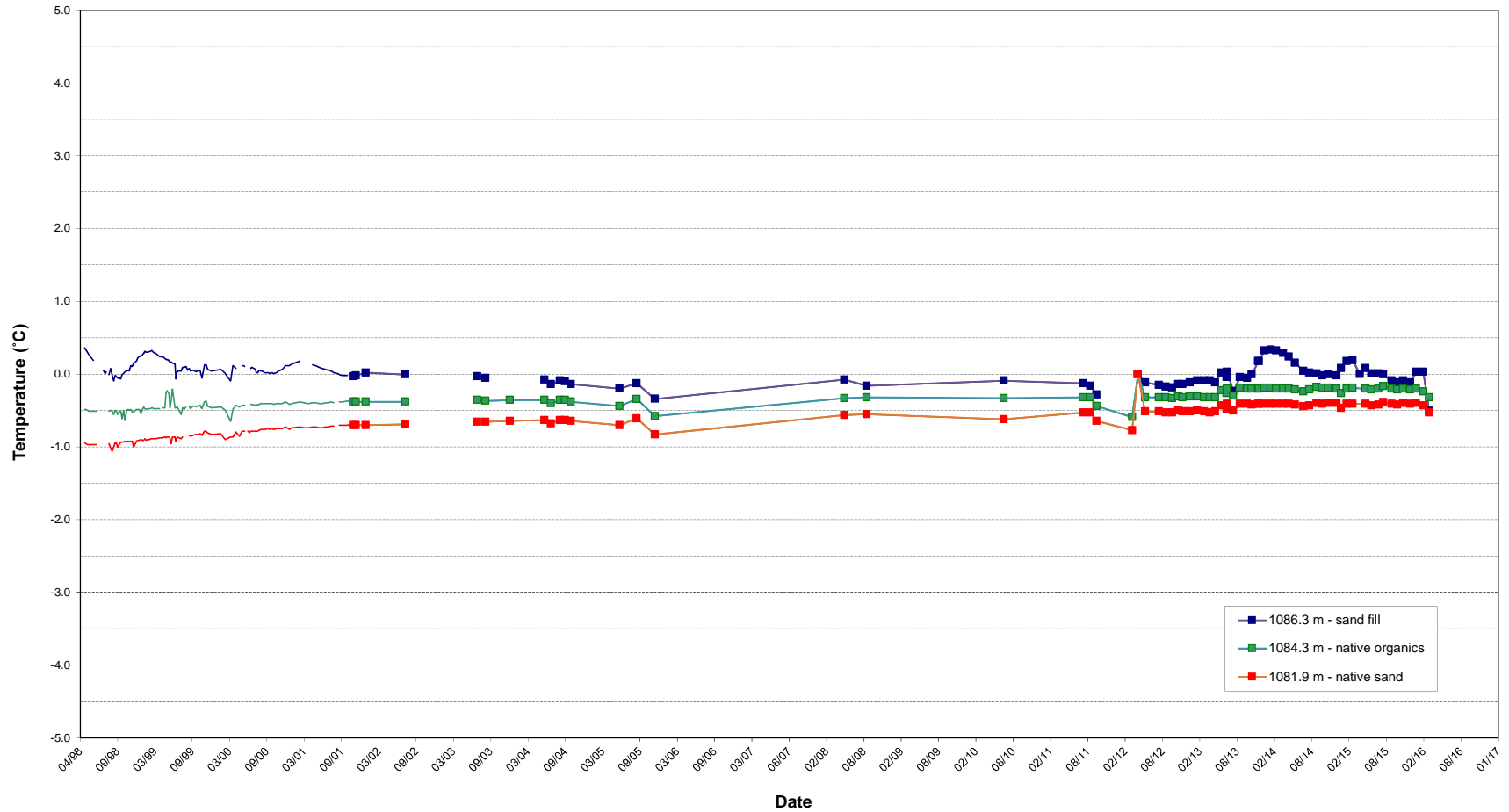
PROJECT NO. W14103577-01	DWN KF	CKD JRT	REV 0
OFFICE EBA-WHSE	DATE March 16, 2016		

Figure 3

APPENDIX C

THERMISTOR DATA: GROUND TEMPERATURE PROFILES

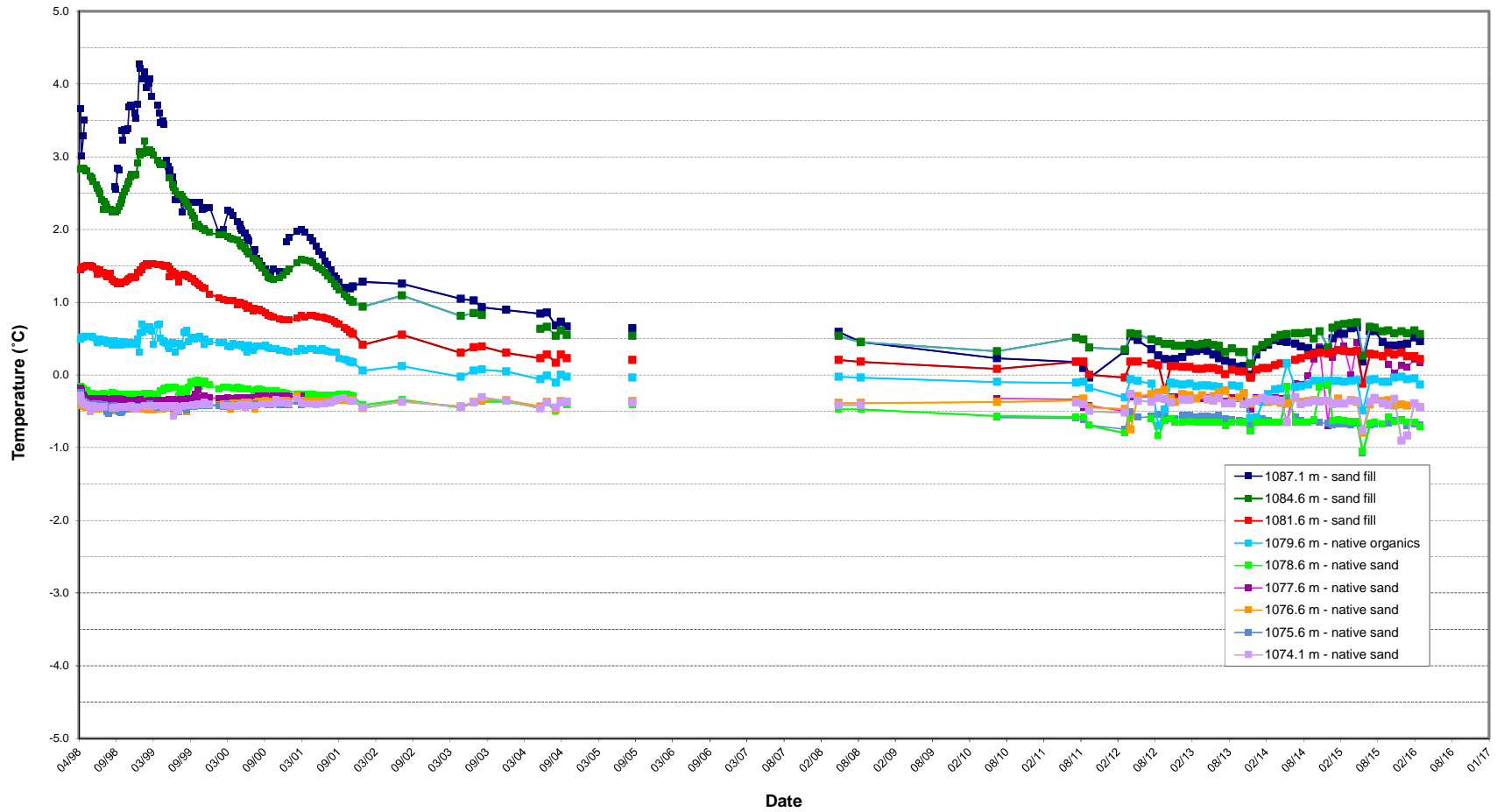
Tailings Dam (TD):	Figures TD-1 to TD-4
Toe Berm (TB):	Figures TB-5 to TB-10
Seepage Collection Dam (SC):	Figures SC-11 to SC15
North Abutment (NA):	Figures NA-16 to NA-19
Upper Tailings Pond (TP):	Figure TP-20



NOTE: 1) BH Location: Crest of Tailings Dam, S End
 2) Ground surface: 1099.3 m.
 3) Fill and native ground interface: 1085.8 m.

Serial No. 1178
 Date Installed: 98-03-24

Figure TD-1
 Ground Temperature Profiles
 BH 12861-01

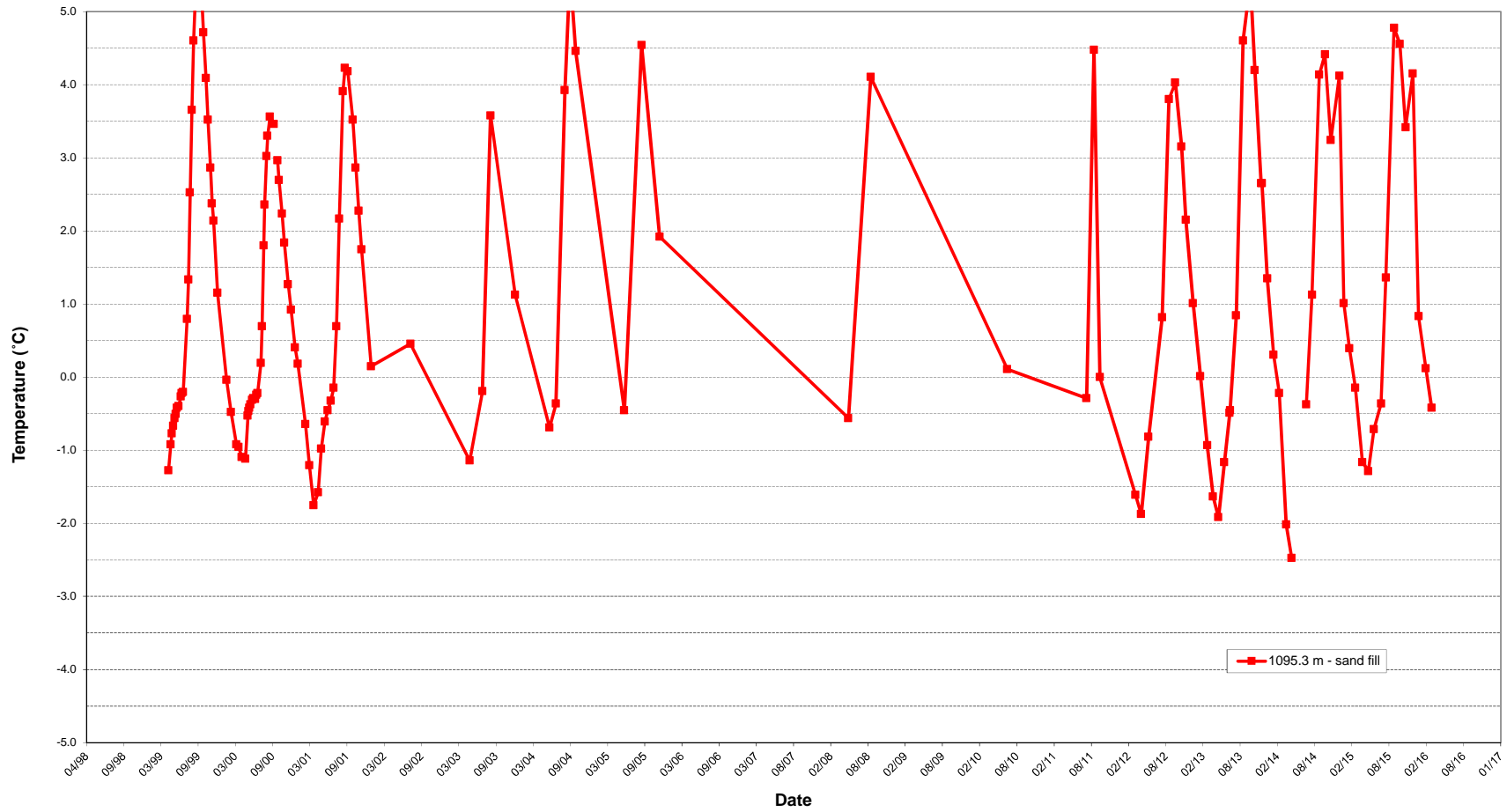


NOTE: 1) BH Location: Crest of Tailings Dam, South Centre
2) Ground surface: 1099.4 m.
3) Fill and native ground interface: 1080.3 m.

Serial No. 1179
Date Installed: 98-03-25

Figure TD-2

Ground Temperature Profiles
BH 12861-02

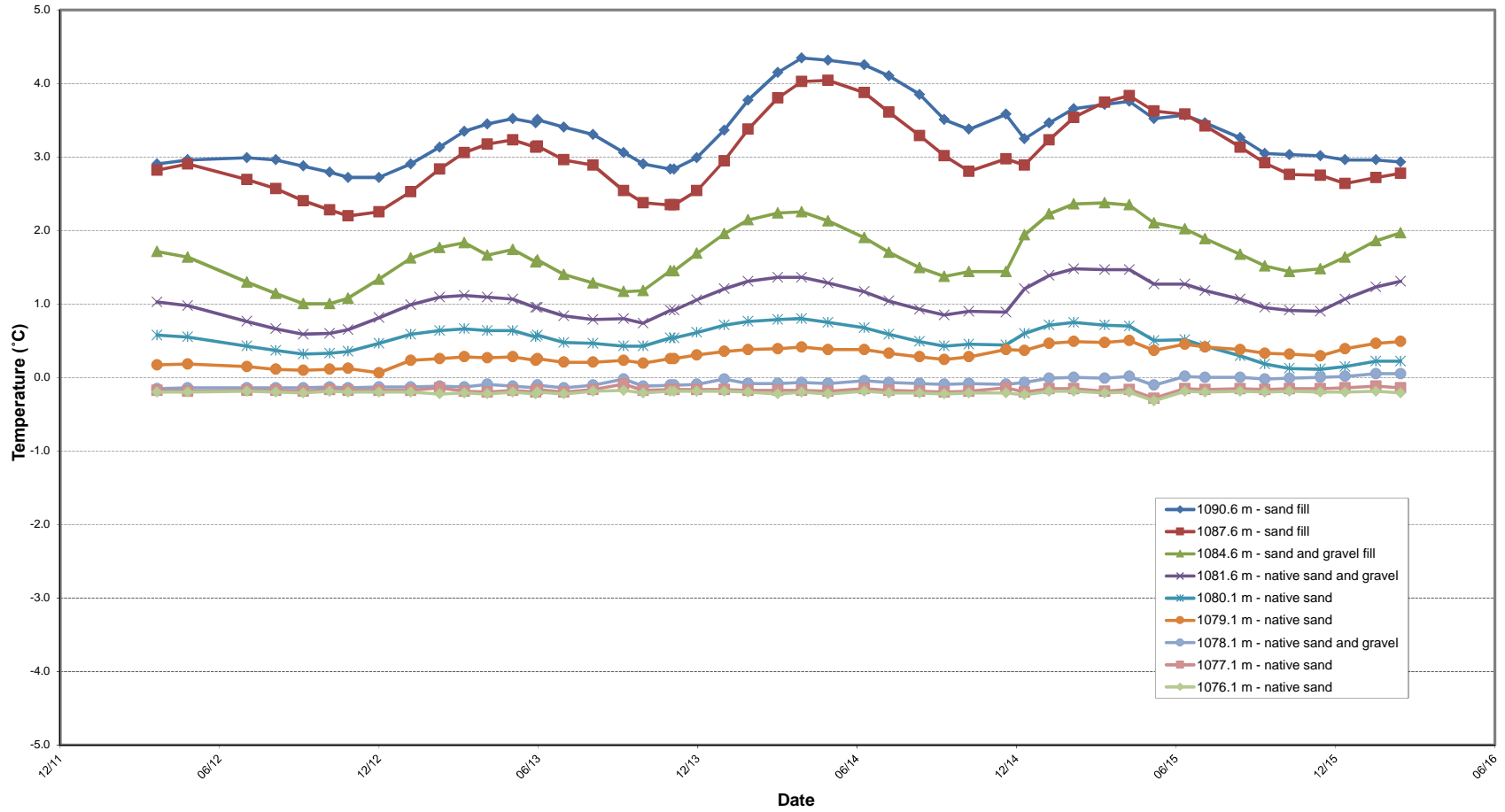


NOTE: 1) BH Location: Crest of Tailings Dam, North Centre
 2) Ground surface: 1099.6 m.
 3) Fill and native ground interface: unknown.
 4) Top two readings removed due to seasonal frost effects.

Serial No. 1180
 Date Installed: 98-03-31

Figure TD-3

Ground Temperature Profiles
 BH 12861-03



NOTE: 1) BH Location: Crest of Tailings Dam, Centre
 2) Ground surface: 1099.6 m
 3) Top reading removed due to seasonal frost effects.
 4) No data collected from bottom two beads of the thermistor cable to February 2014.

Serial No. Cable 1
 Date Installed: 09-07-19

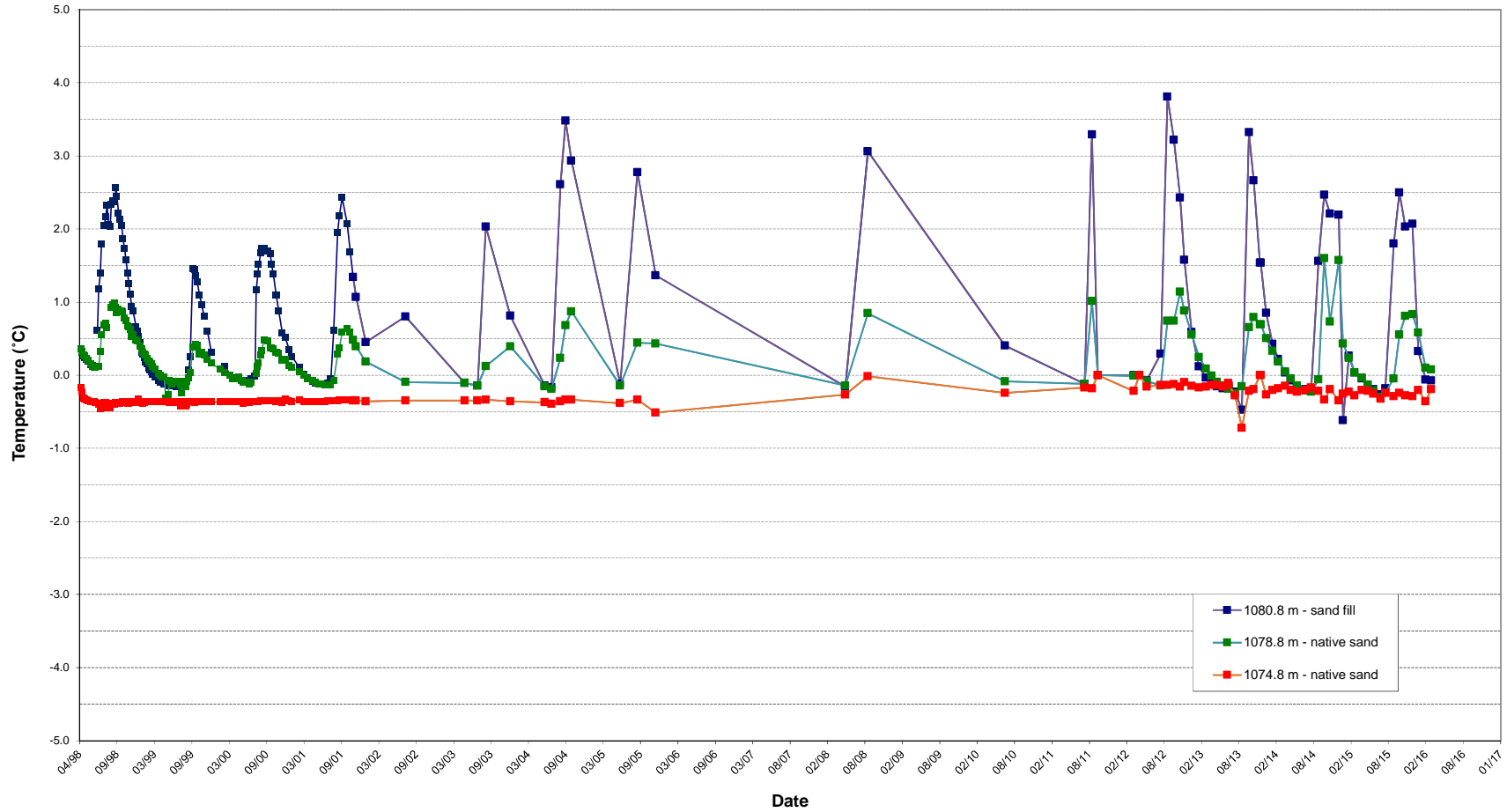
Figure TD-4

Ground Temperature Profiles
 GT09-01 Cable #1

Mount Nansen Toe Berm Monitoring
Abandoned Mount Nansen Mine - Carmacks, Yukon

W14103577-01

Last Updated: 28-Feb-16

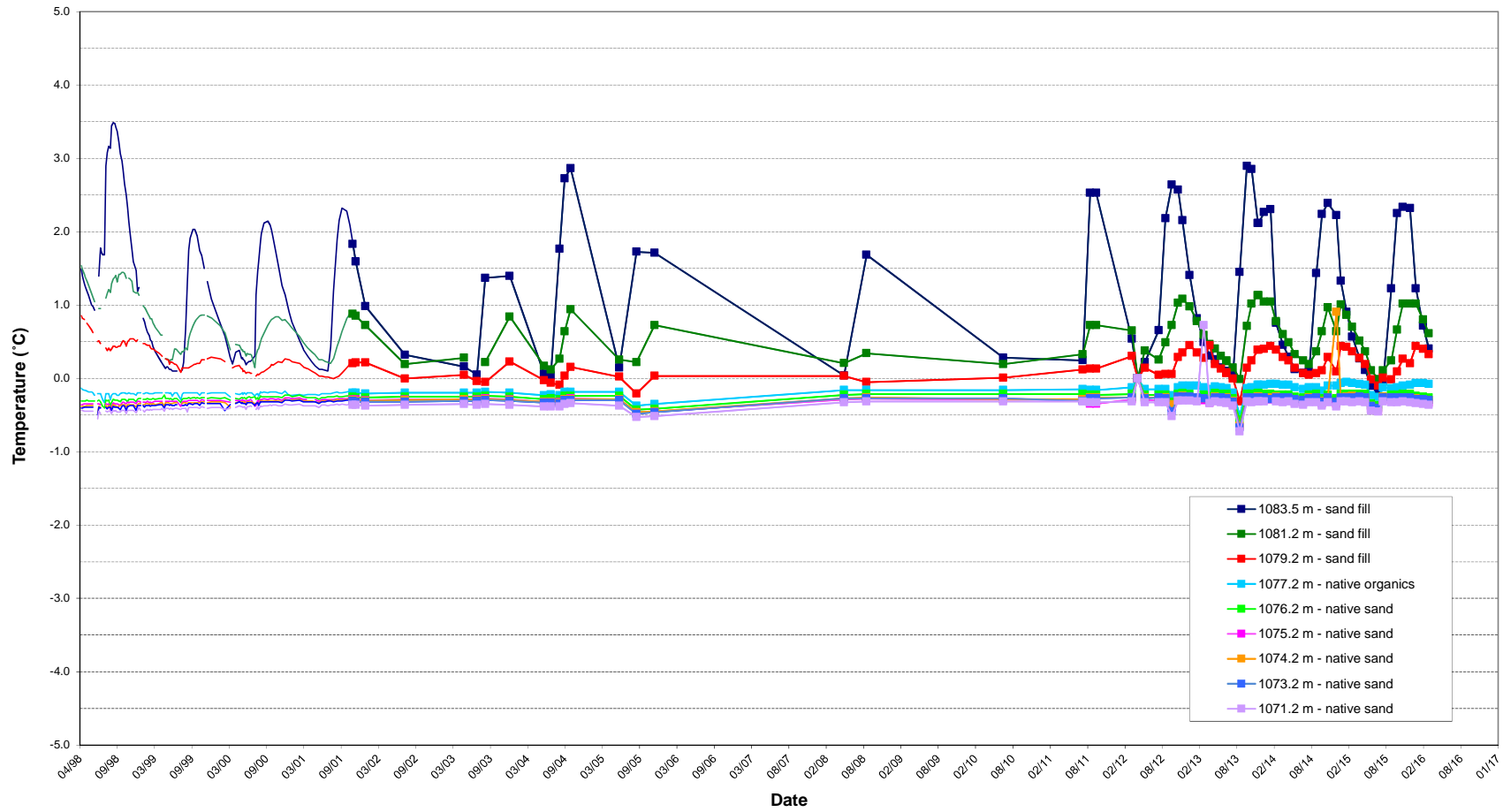


NOTE: 1) BH Location: Crest of Toe Berm, South Centre
2) Ground surface: 1087.8 m.
3) Fill and native ground interface: 1080.5 m.

Serial No. 1181
Date Installed: 98-03-28

Figure TB-5

Ground Temperature Profiles
BH 12861-05



NOTE: 1) BH Location: Crest of Toe Berm, North Centre
2) Ground surface: 1088.0 m.
3) Fill and native ground interface: 1078.0 m.

Figure TB-6

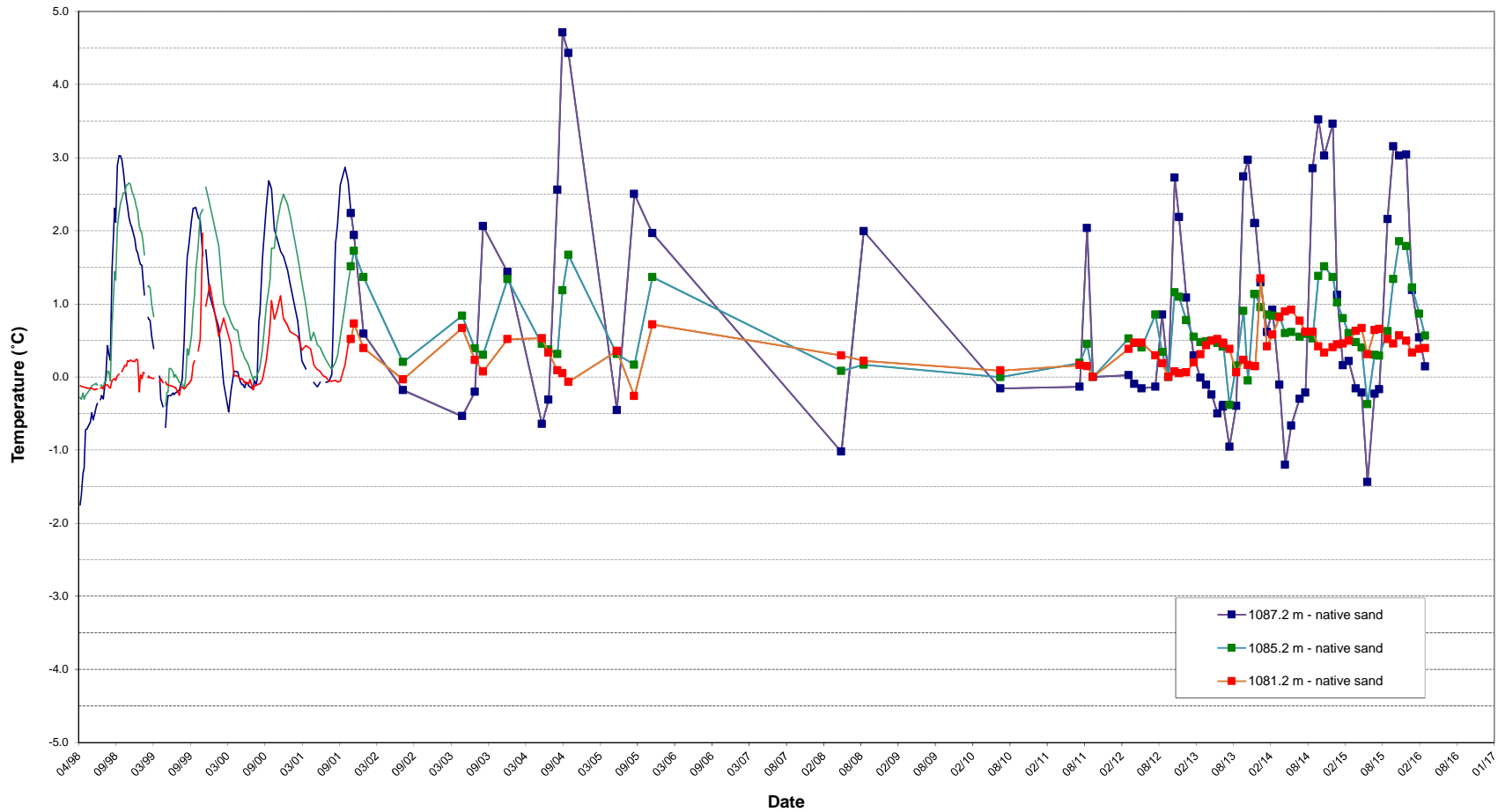
Ground Temperature Profiles
BH 12861-06

Serial No. 1182
Date Installed: 98-03-30

Mount Nansen Toe Berm Monitoring
Abandoned Mount Nansen Mine - Carmacks, Yukon

W14103577-01

Last Updated: 28-Feb-16

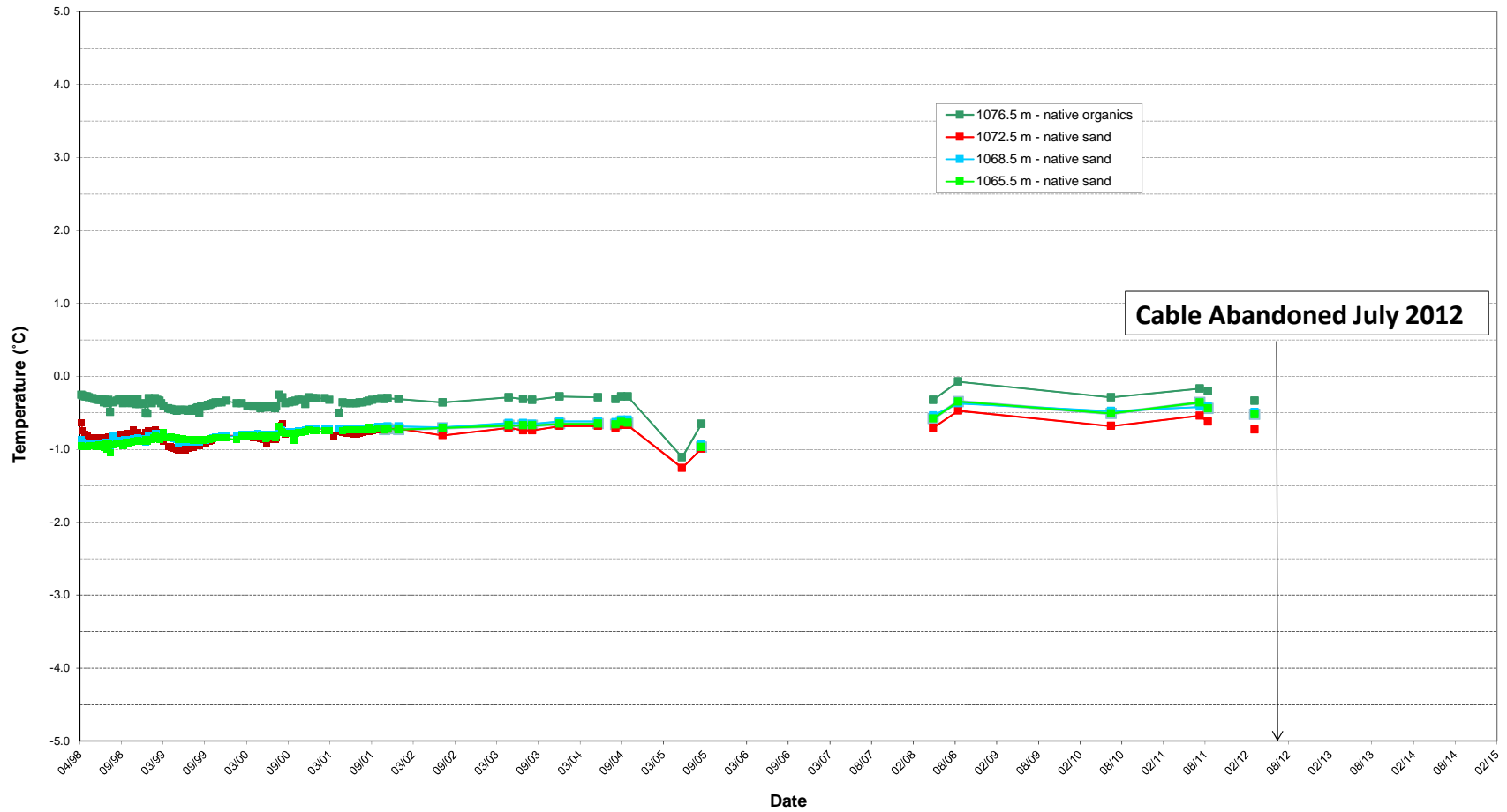


NOTE: 1) BH Location: North End of Toe Berm
2) Ground surface: 1091.4 m.
3) Fill and native ground interface: 1090.8 m.

Serial No. 1183
Date Installed: 98-03-31

Figure TB-7

Ground Temperature Profiles
BH 12861-07

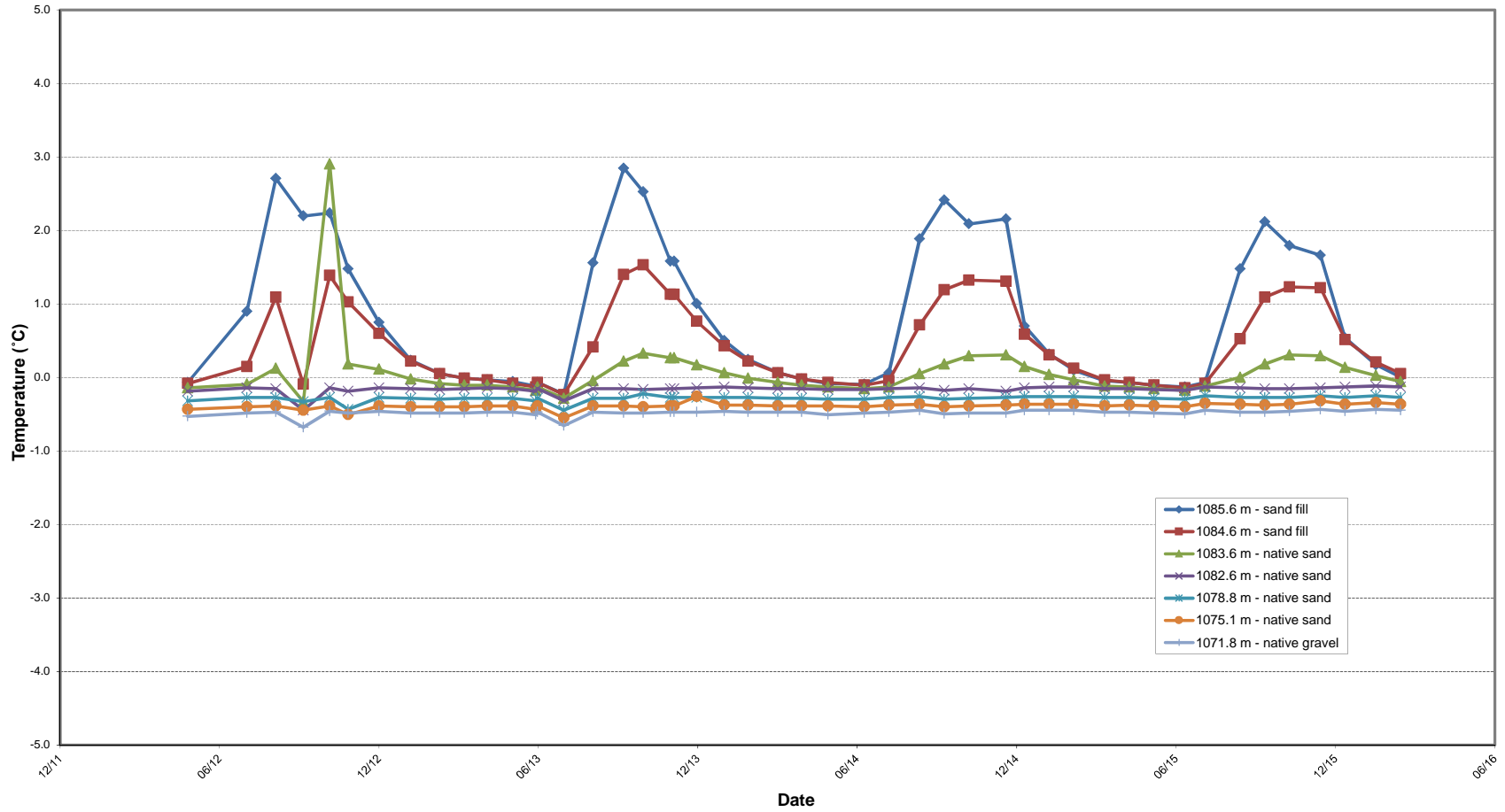


NOTE: 1) BH Location: Downstream Toe of Dam
 2) Ground surface: 1080.7 m.
 3) Fill and native ground interface: 1077.4 m.
 4) Top three thermistor beads not shown due to seasonal frost effects.

Serial No. 1143
 Date Installed: 98-03-30

Figure TB-8

Ground Temperature Profiles
 BH 12861-08

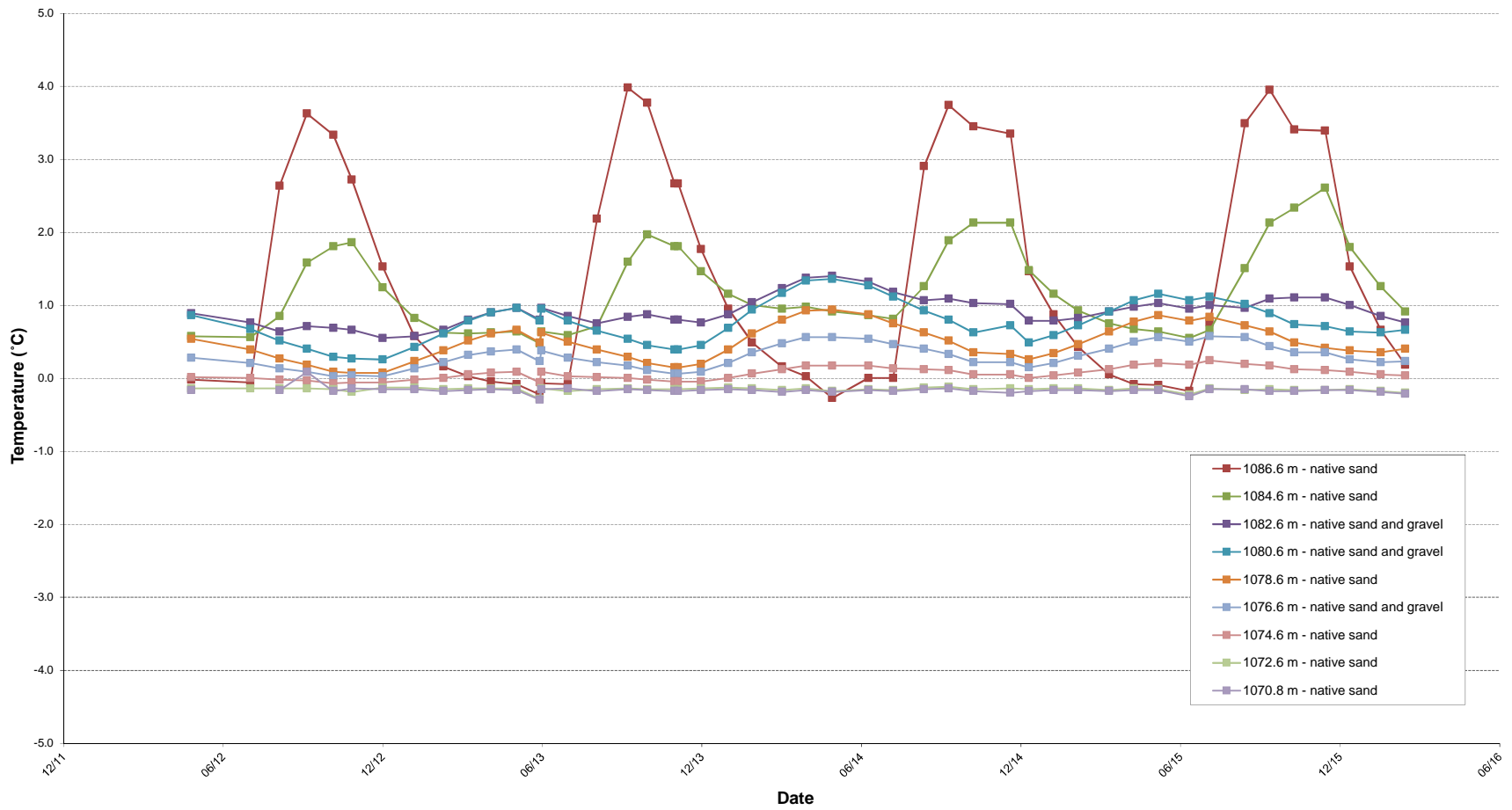


NOTE: 1) BH Location: Toe Berm - South Side
2) Ground surface: 1088.6 m
3) Top one reading removed due to seasonal frost effects.
4) Only data from 2012-February 2014 received.
5) Edited data for September 30, 2012.

Serial No. Cable 5
Date Installed: 09-07-17

Figure TB-9

Ground Temperature Profiles
GT09-02 Cable #5

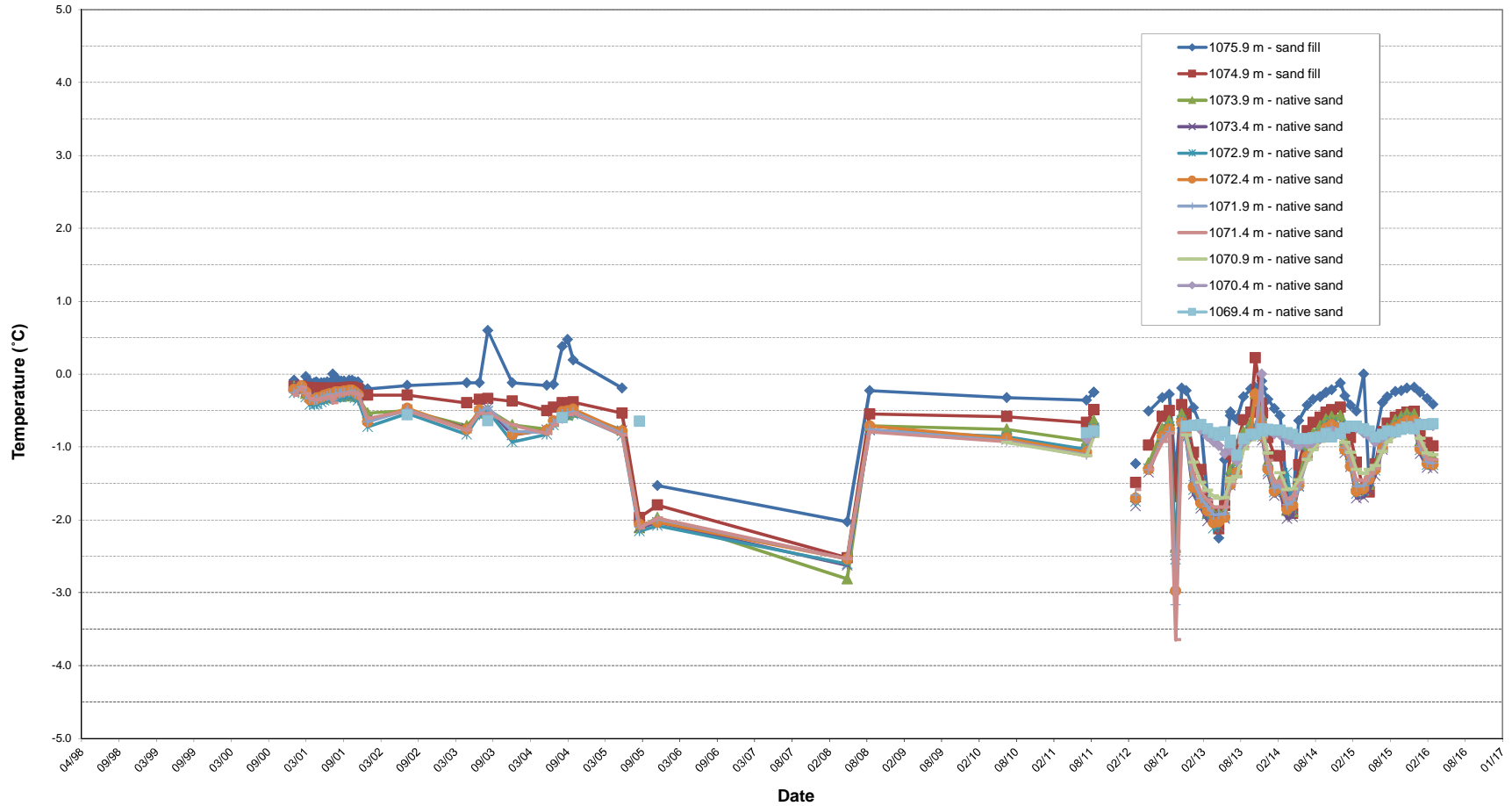


NOTE: 1) BH Location: Toe Berm - North Side
 2) Ground surface: 1090.6 m
 3) Top one reading removed due to seasonal frost effects.
 4) Only data from 2012-February 2014 received.

Serial No. Cable 4
 Date Installed: 09-07-19

Figure TB-10

Ground Temperature Profiles
 GT09-03 Cable #4

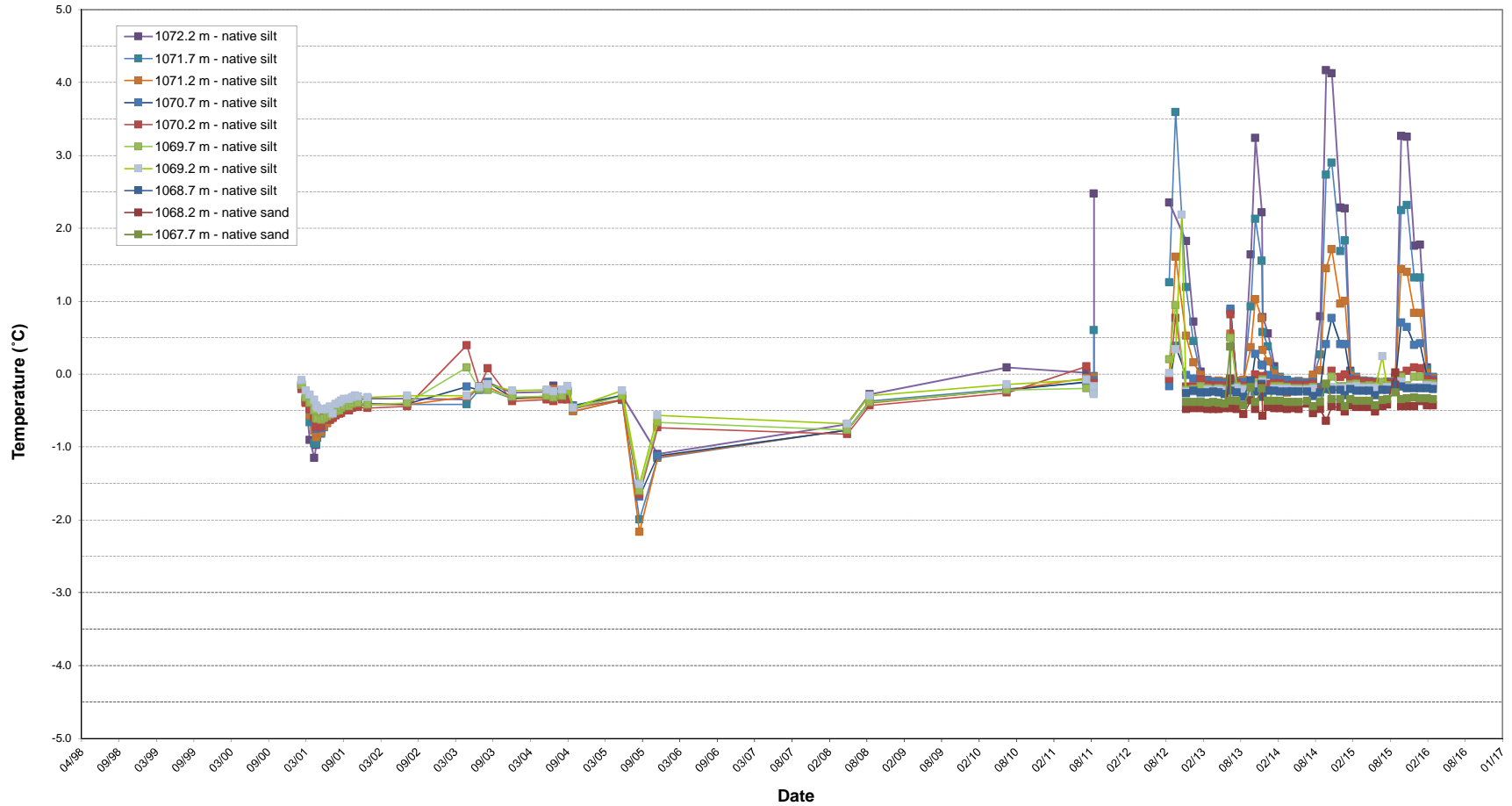


NOTE: 1) BH Location: Crest of Seepage Dam, N End
 2) Ground surface: 1078.4 m.
 3) Top two readings removed due to seasonal frost effects.
 4) No data recorded for bottom three readings.

Serial No. 1385

Figure SC-11

Ground Temperature Profiles
 14618-BH01

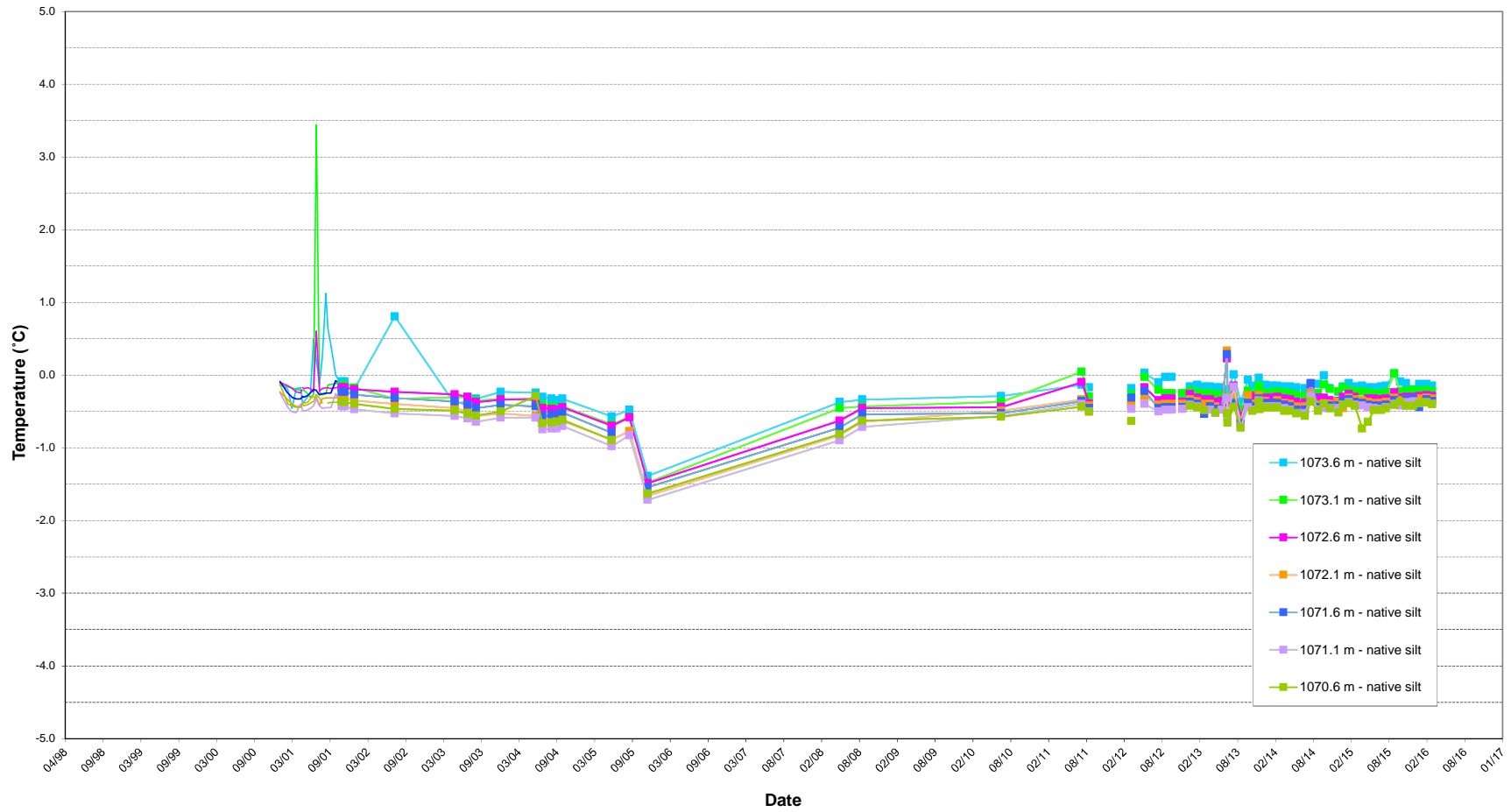


NOTE: 1) BH Location: Toe of Seepage Dam, North Centre
 2) Ground surface: 1074.7 m
 3) Top three beads not functioning
 4) No data recorded for bottom three readings
 5) Only recent data collected for Beads #11, 12, and 13.

Serial No. 1383
 Date Installed: 01-01-20

Figure SC-12

Ground Temperature Profiles
 14618-BH03

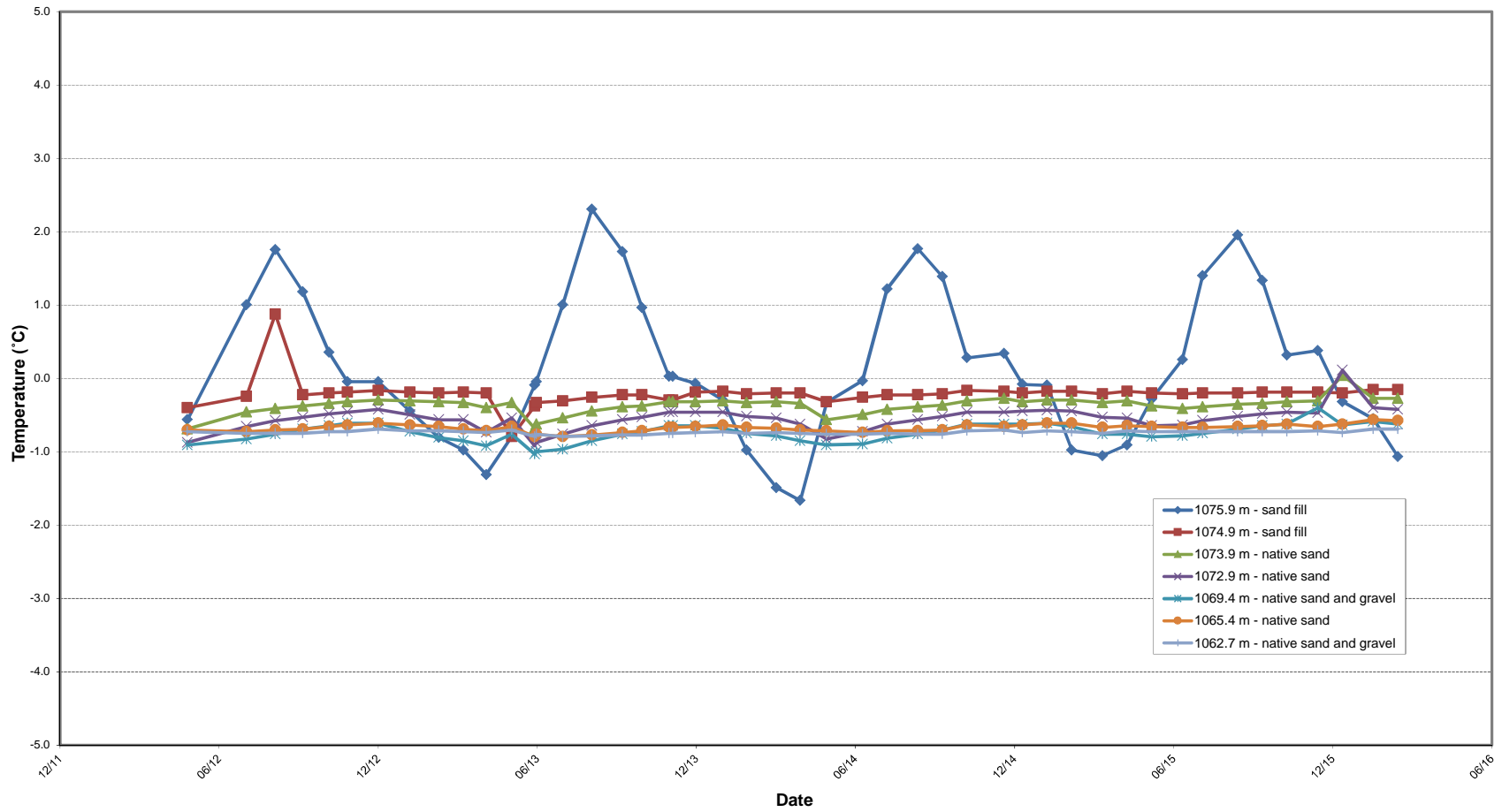


NOTE: 1) BH Location: Toe of Seepage Dam, South Centre
 2) Ground surface: 1076.1 m.
 3) Top three readings removed due to seasonal frost effects.
 4) No readings taken on bottom three to six beads depending on the date.

Serial No. 1384
 Date Installed: 01-01-20

Figure SC-13

Ground Temperature Profiles
 14618-BH04

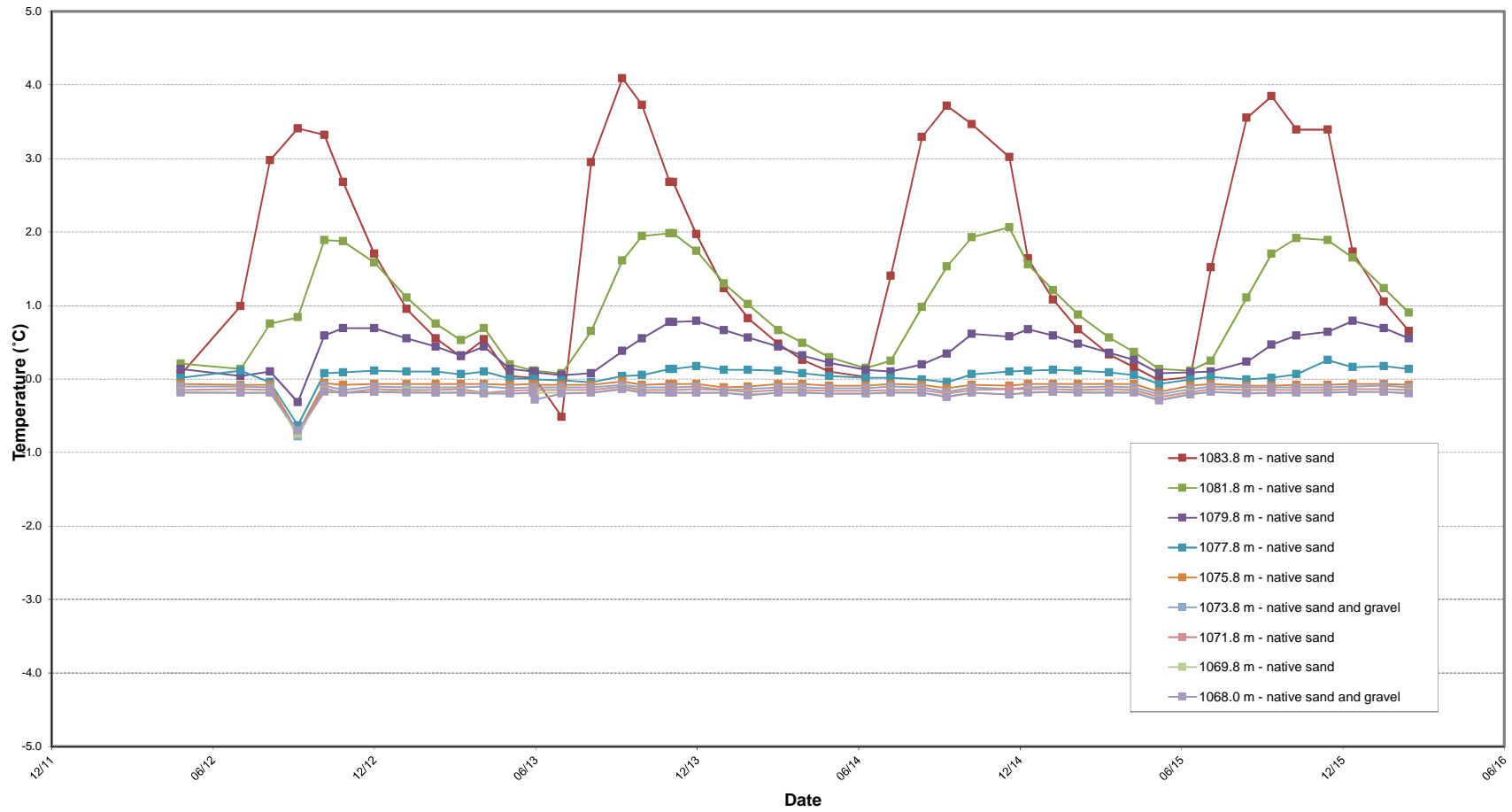


NOTE: 1) BH Location: Crest of Seepage Collection Dam
 2) Ground surface: 1078.9 m
 3) Only data from 2012-February 2014 received.
 4) Top one reading removed due to seasonal frost effects.

Serial No. Cable 3
 Date Installed: 09-07-16

Figure SC-14

Ground Temperature Profiles
 GT09-04 Cable #3



NOTE: 1) BH Location: North Abutment Above Seepage Collection Pond
 2) Ground surface: 1087.8 m
 3) Top one reading removed due to seasonal frost effects.
 4) Only data from 2012-February 2014 received.
 5) Edited data for September 30, 2012.

Serial No. Cable 2
 Date Installed: 09-07-17

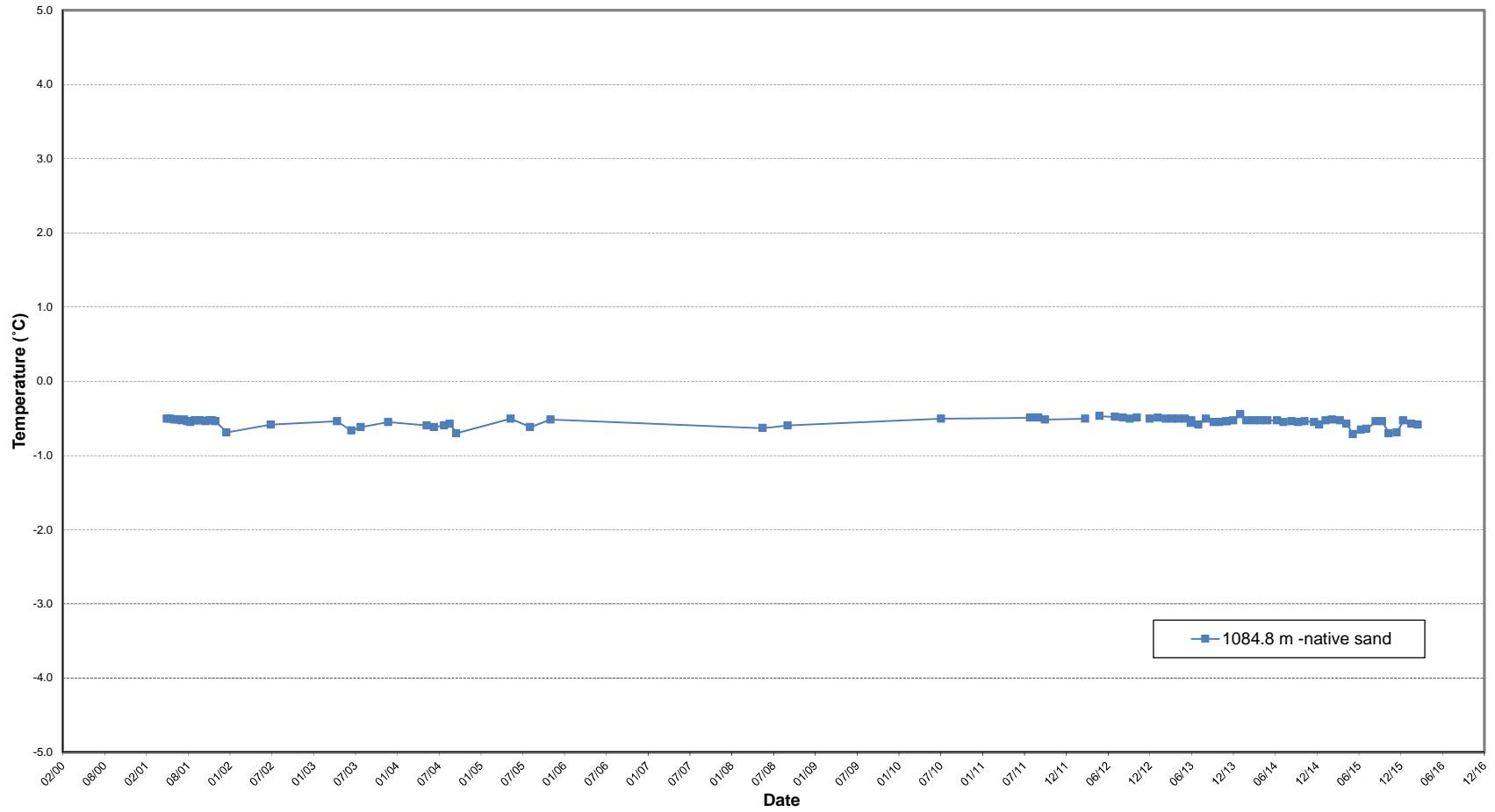
Figure SC-15

Ground Temperature Profiles
 GT09-05 Cable #2

Mount Nansen North Abutment Monitoring
Abandoned Mount Nansen Mine - Carmacks, Yukon

W14103577-01

Last Updated: 28-Feb-16

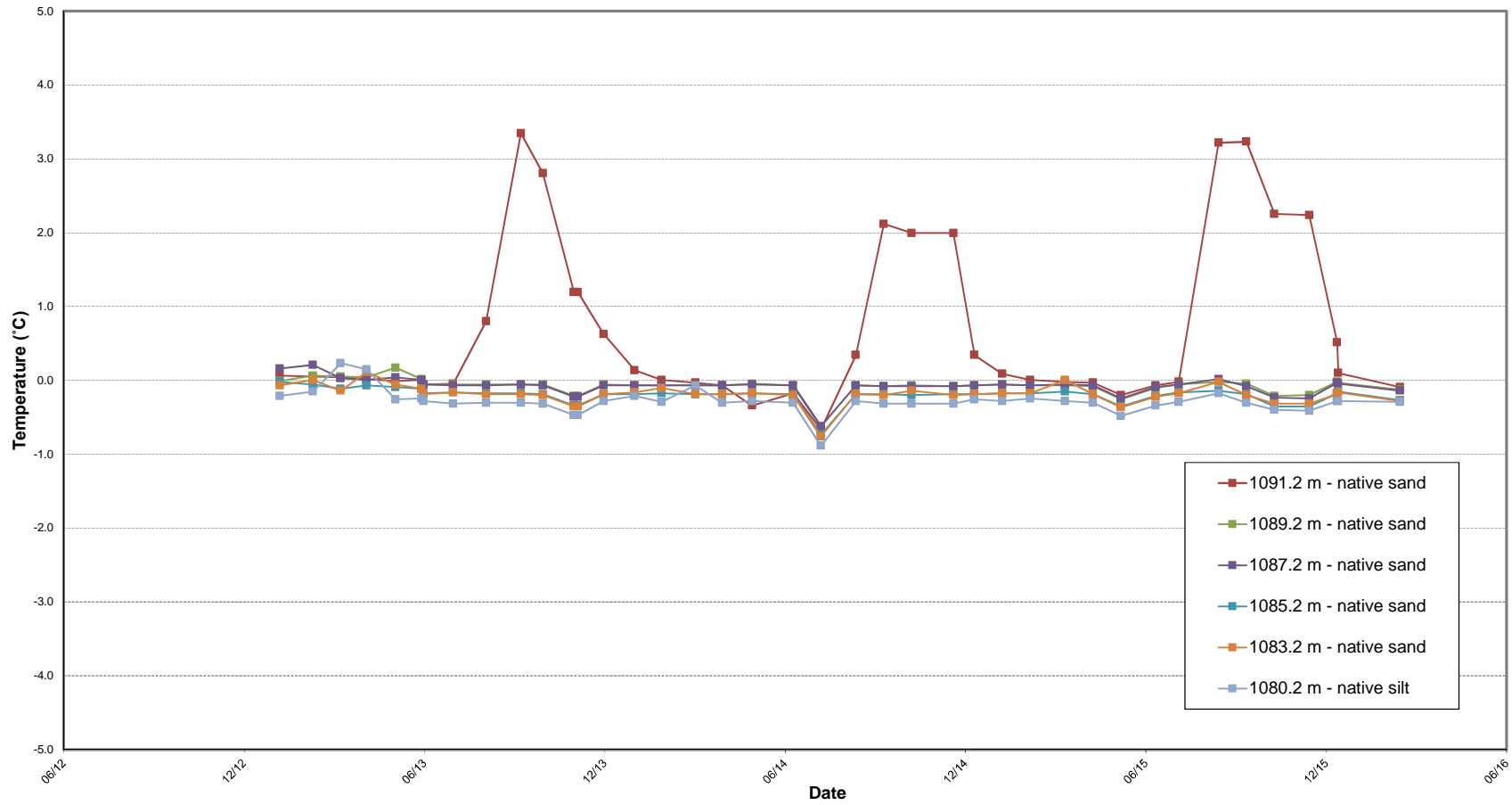


NOTE: 1) BH Location: North Abutment Above Seepage Collection Pond
2) Ground surface: 1095.5 m

Serial No. 1
Date Installed: 98-03-30

Figure NA-16

Ground Temperature Profiles
BH 12861-04



NOTE: 1) BH Location: North Abutment Above Seepage Collection Pond
 2) Ground surface: 1094.8 m
 3) Top two readings removed due to seasonal frost effects.

Serial No. 2364
 Date Installed: 10-01-2012

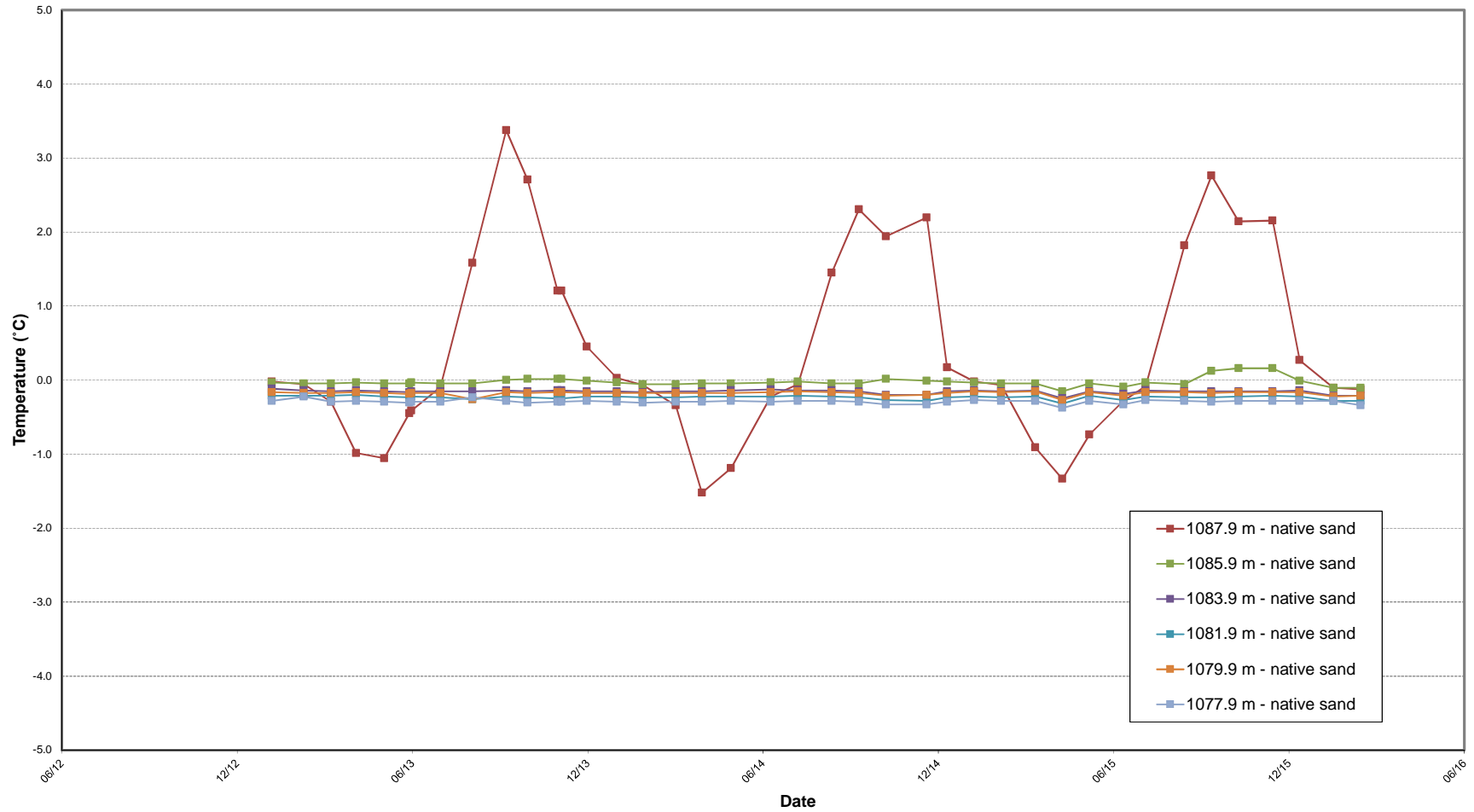
Figure NA-17

Ground Temperature Profiles
 W14103083-01 BH01

Mount Nansen North Abutment Monitoring
Abandoned Mount Nansen Mine - Carmacks, Yukon

W14103577-01

Last Updated: 28-Feb-16

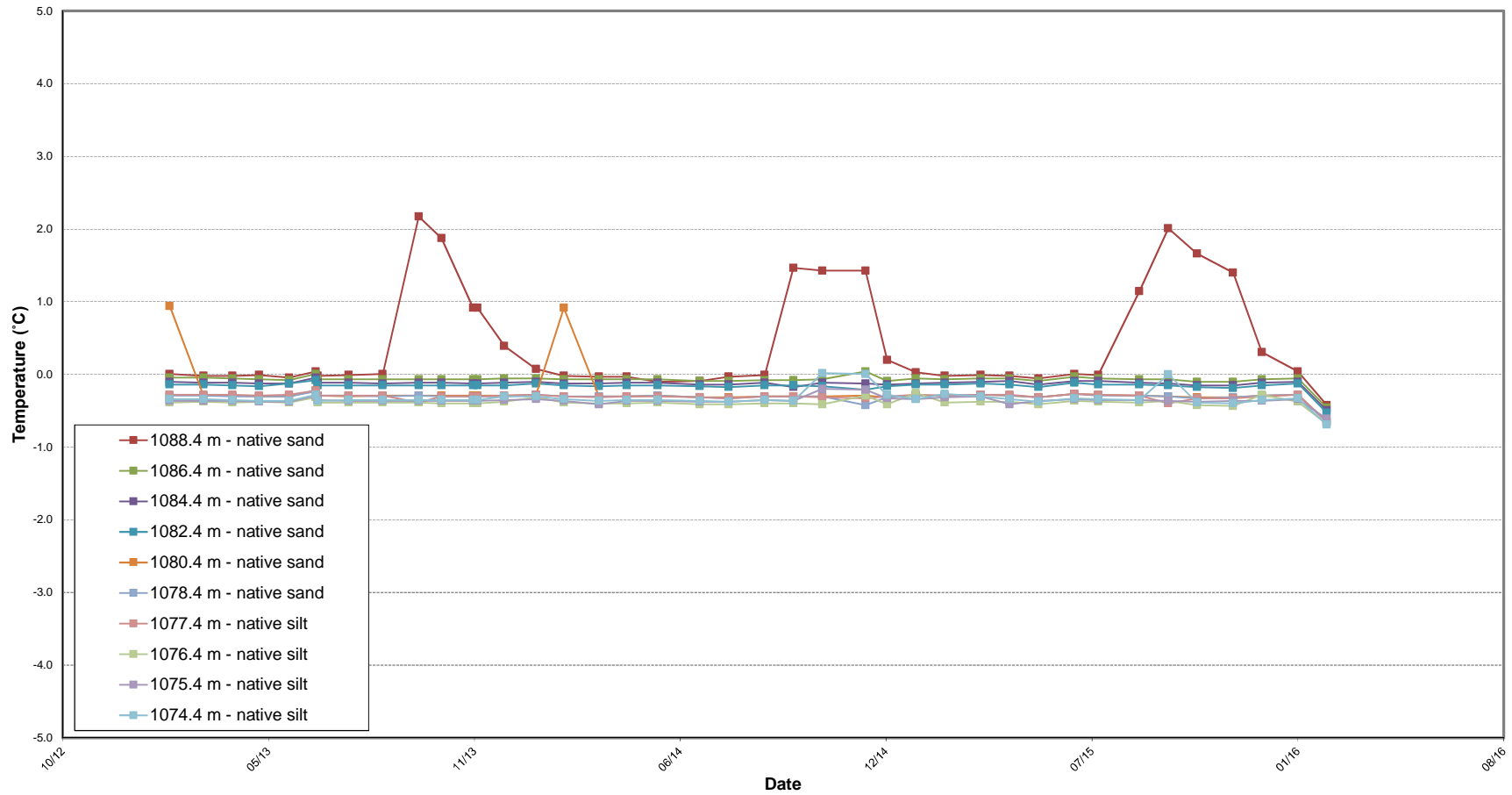


NOTE: 1) BH Location: North Abutment Above Seepage Collection Pond
2) Ground surface: 1091.6 m
3) Top one reading removed due to seasonal frost effects.

Serial No. 2365
Date Installed: 10-02-2012

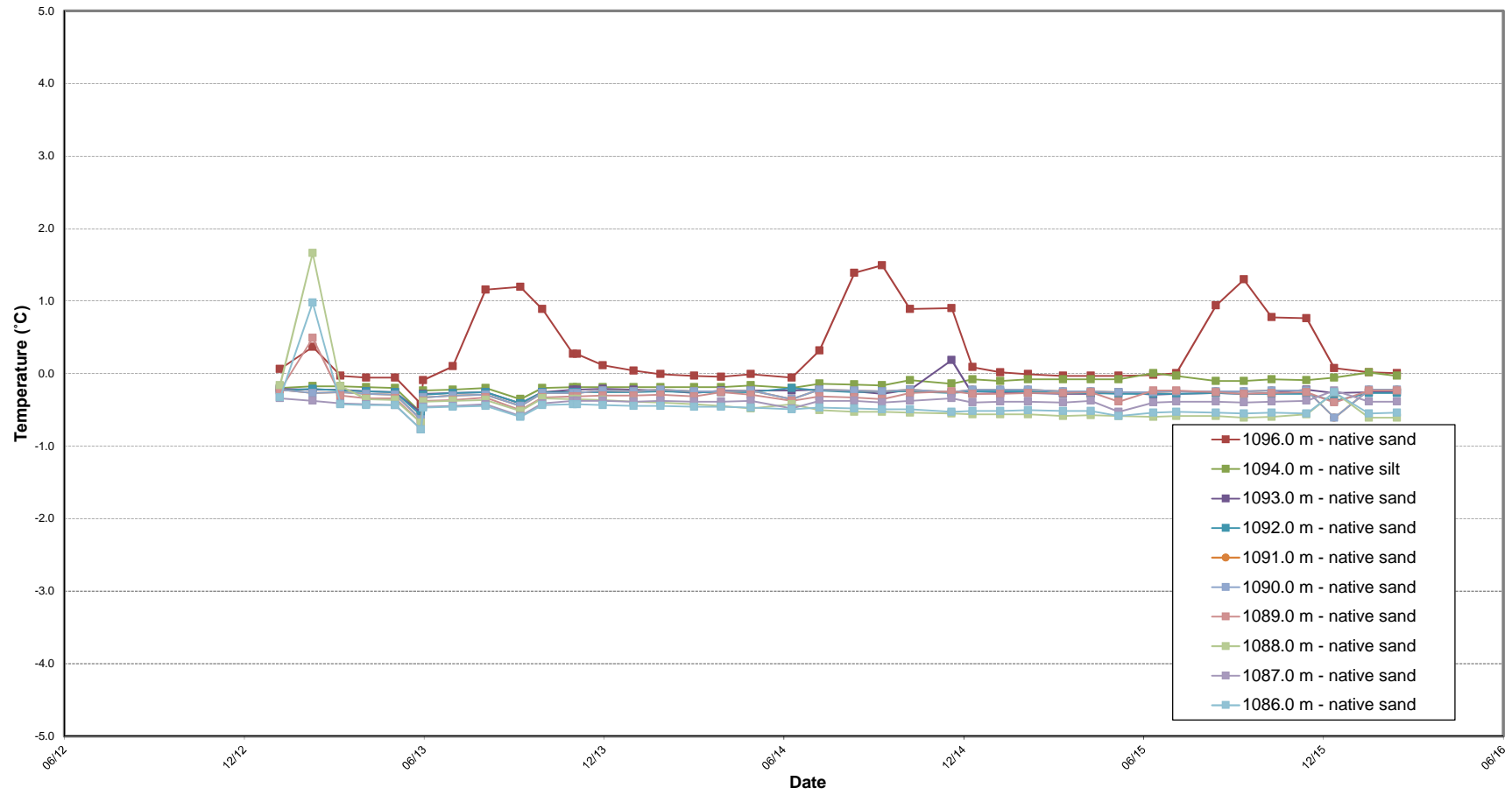
Figure NA-18

Ground Temperature Profiles
W14103083-01 BH02



NOTE: 1) BH Location: North Abutment Above Seepage Collection Pond
 2) Ground surface: 1092.8 m
 3) Top one reading removed due to seasonal frost effects.
 Serial No. 2363
 Date Installed: 10-02-2012

Figure NA-19
 Ground Temperature Profiles
 W14103083-01 BH04



NOTE: 1) BH Location: Upper Tailings Pond, East Side
 2) Ground surface: 1099.0 m
 3) Top one reading removed due to seasonal frost effects.

Serial No. 2362
 Date Installed: 10-02-2012

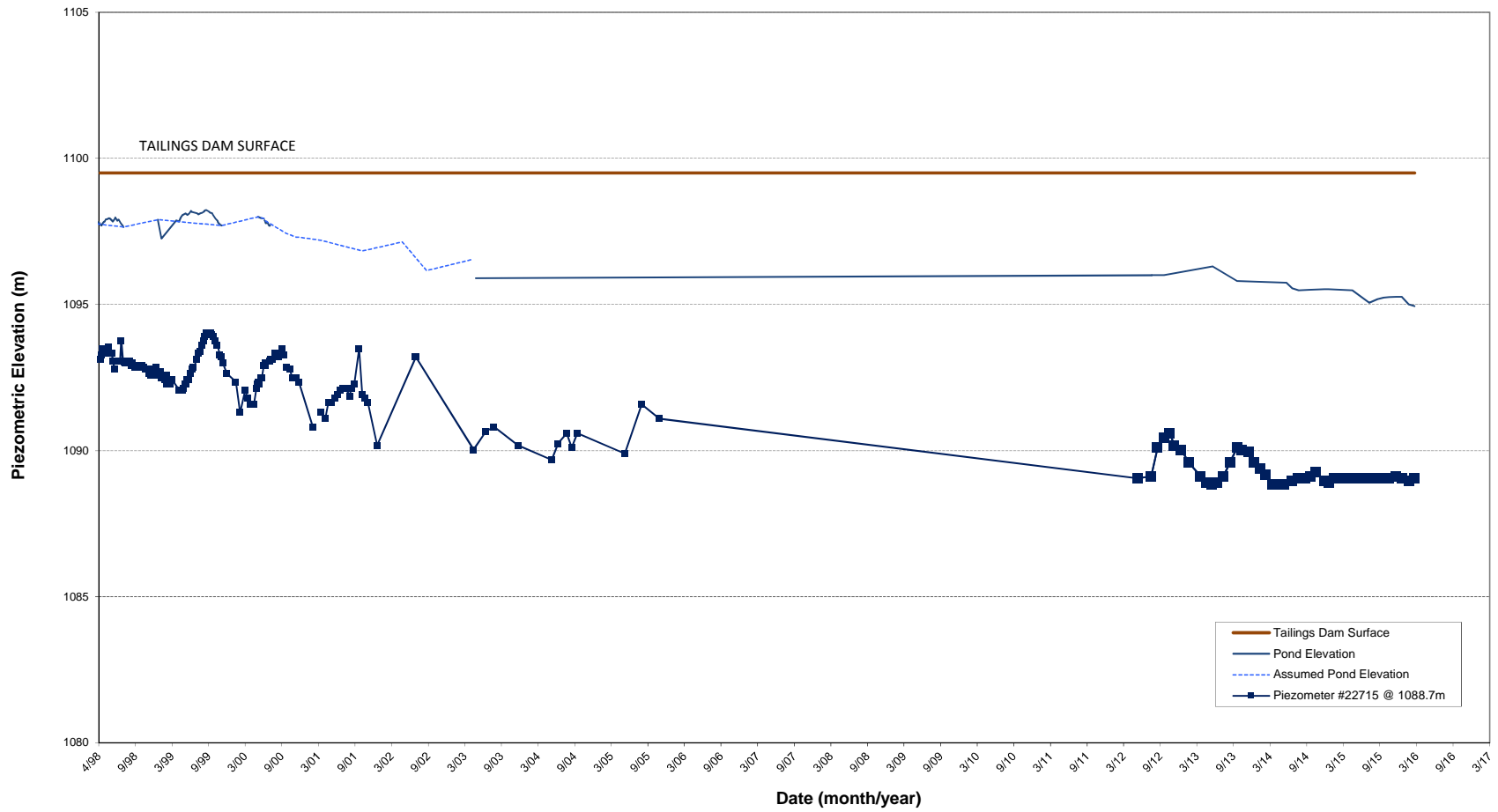
Figure TP-20

Ground Temperature Profiles
 W14103083-01 BH03

APPENDIX D

PIEZOMETER DATA: PIEZOMETRIC ELEVATION PROFILES

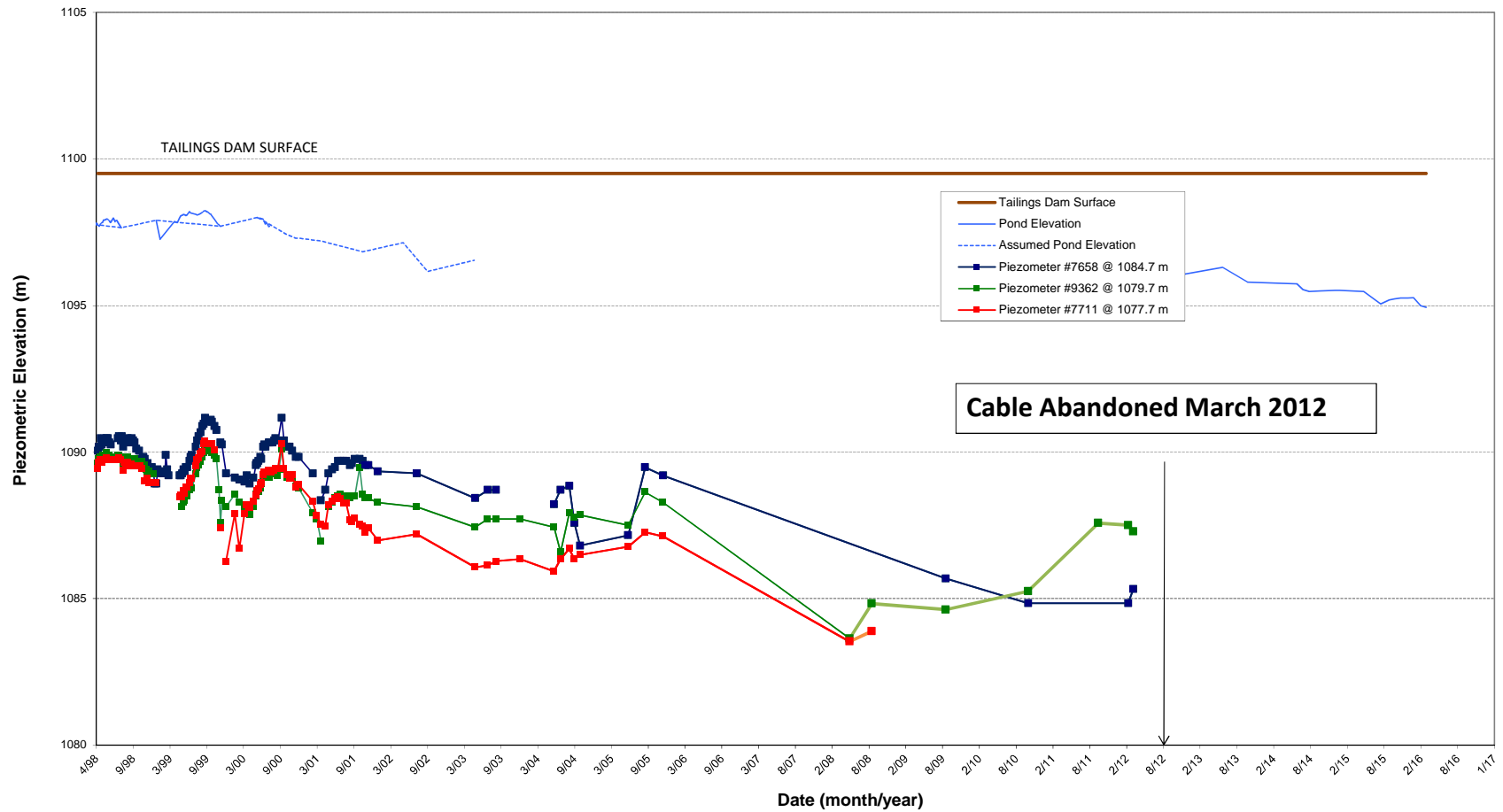
Tailings Dam:	Figures P-1 to P-3
Toe Berm: Figures	P-4 to P-5



NOTE: 1) BH Location: Crest of Dam, S End
 2) Ground surface: 1099.3 m.
 3) Fill and native ground interface: 1137.7 m.

Date Installed: 98-03-24

Figure P-1
 Piezometric Elevation Profile
 BH 12861-01

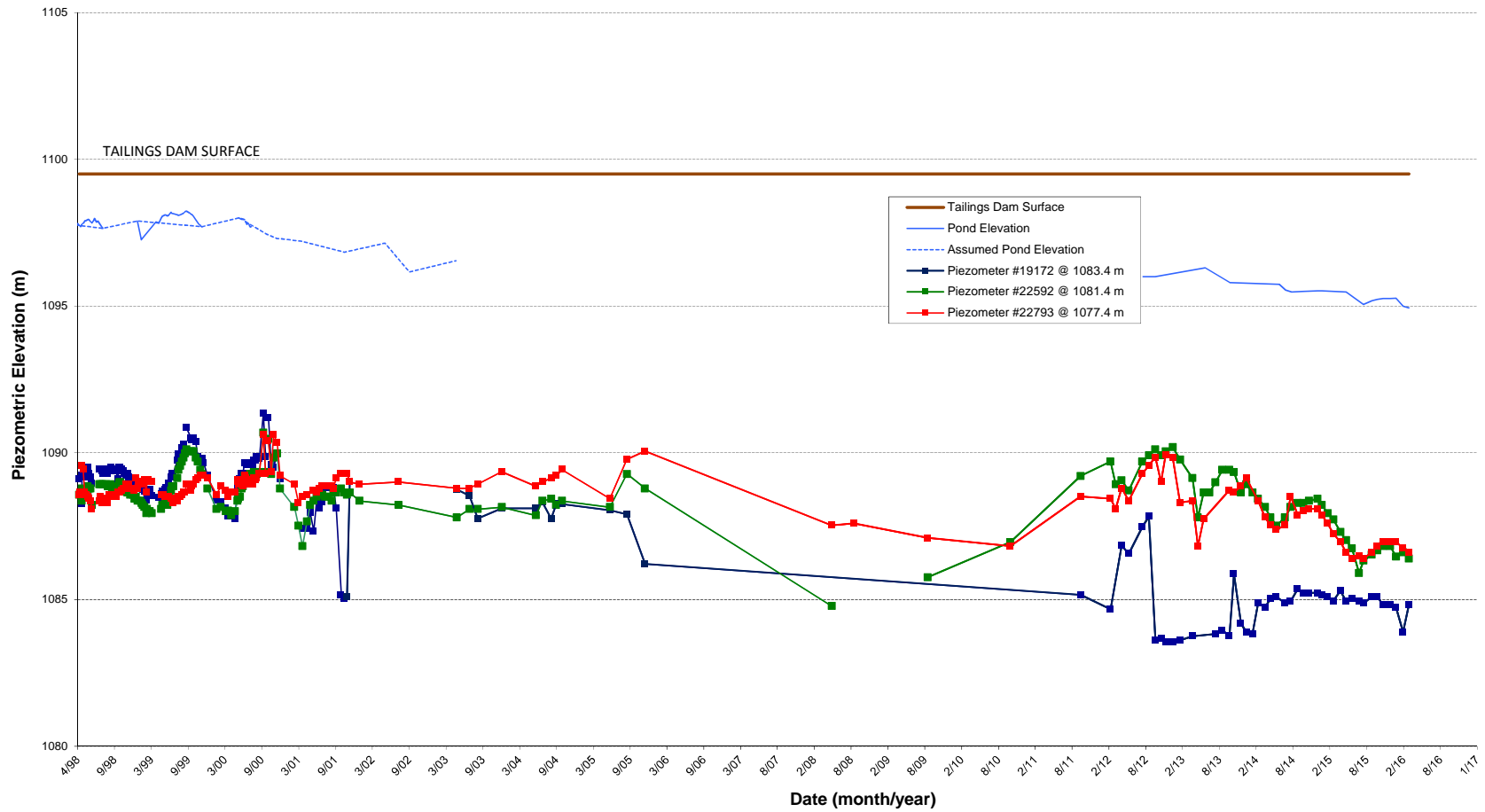


NOTE: 1) BH Location: Crest of Dam, Centre
 2) Ground surface: 1099.4 m.
 3) Fill and native ground interface: 1080.3 m.
 4) Piezometer not functioning/abandoned July 2012.

Date Installed: 98-03-25

Figure P-2

Piezometric Elevation Profiles
BH 12861-02

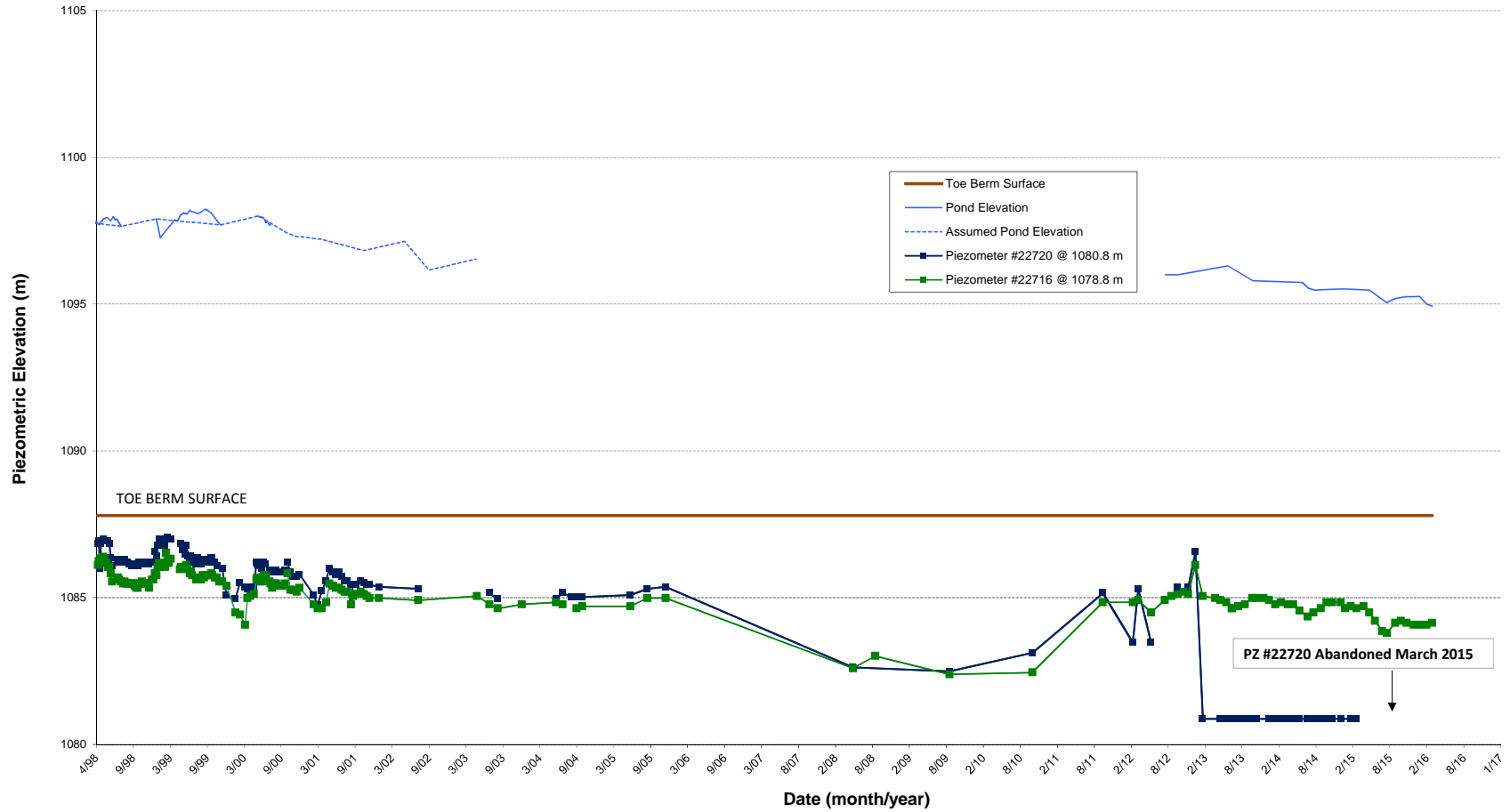


NOTE: 1) BH Location: Crest of Dam, N End
 2) Ground surface: 1099.6 m.
 3) Fill and native ground interface: unknown.

Figure P-3

Piezometric Elevation Profiles
 BH 12861-03

Date Installed: 98-03-31

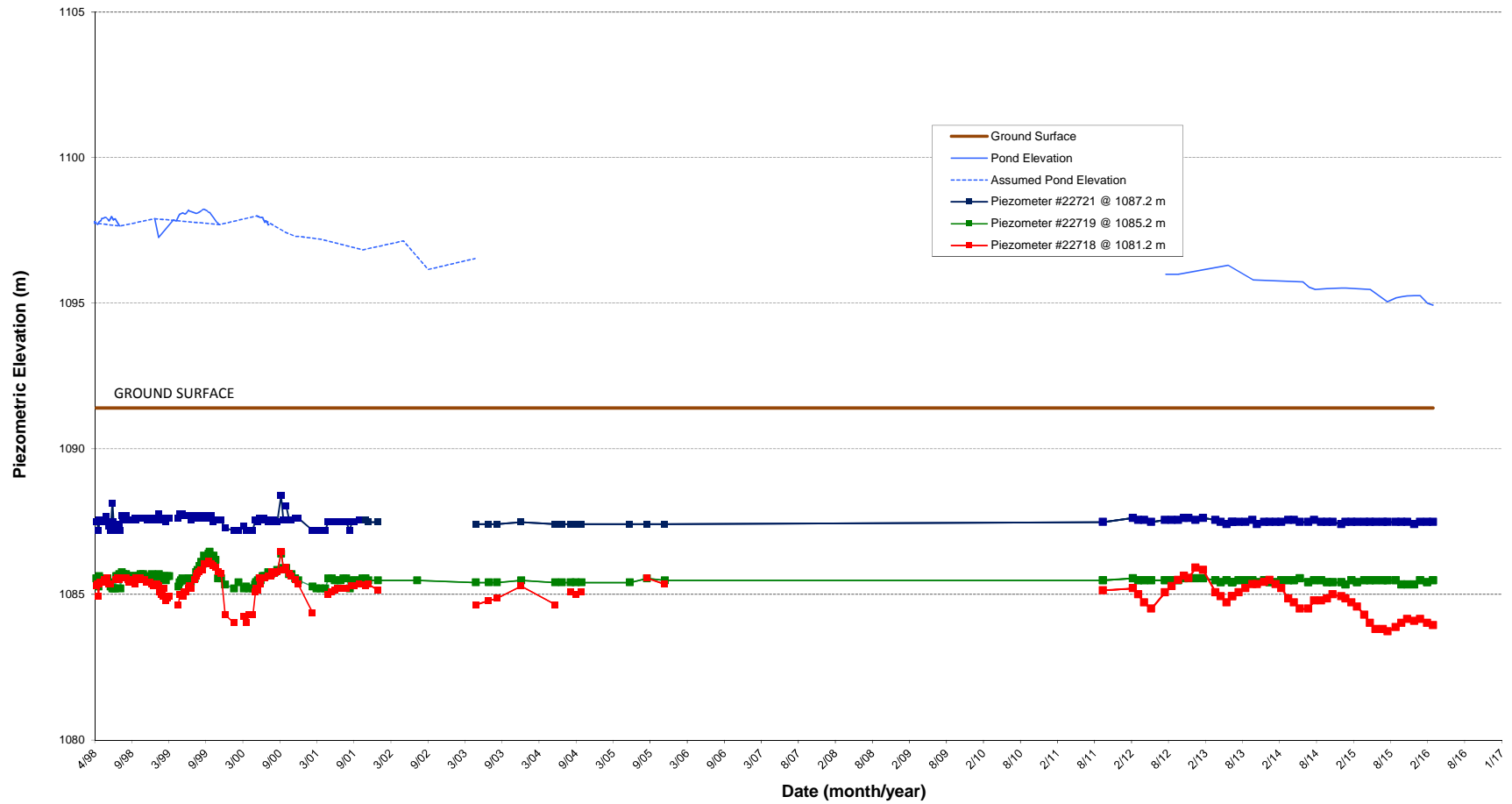


NOTE: 1) BH Location: Crest of Toe Berm, Centre
 2) Ground surface: 1087.8 m.
 3) Fill and native ground interface: 1080.5 m.

Date Installed: 98-03-28

Figure P-4

Piezometric Elevation Profiles
 BH 12861-05



NOTE: 1) BH Location: North Abutment north of Toe Berm
2) Ground surface: 1091.4 m.
3) Fill and native ground interface: 1090.8 m.

Date Installed: 98-03-31

Figure P-5

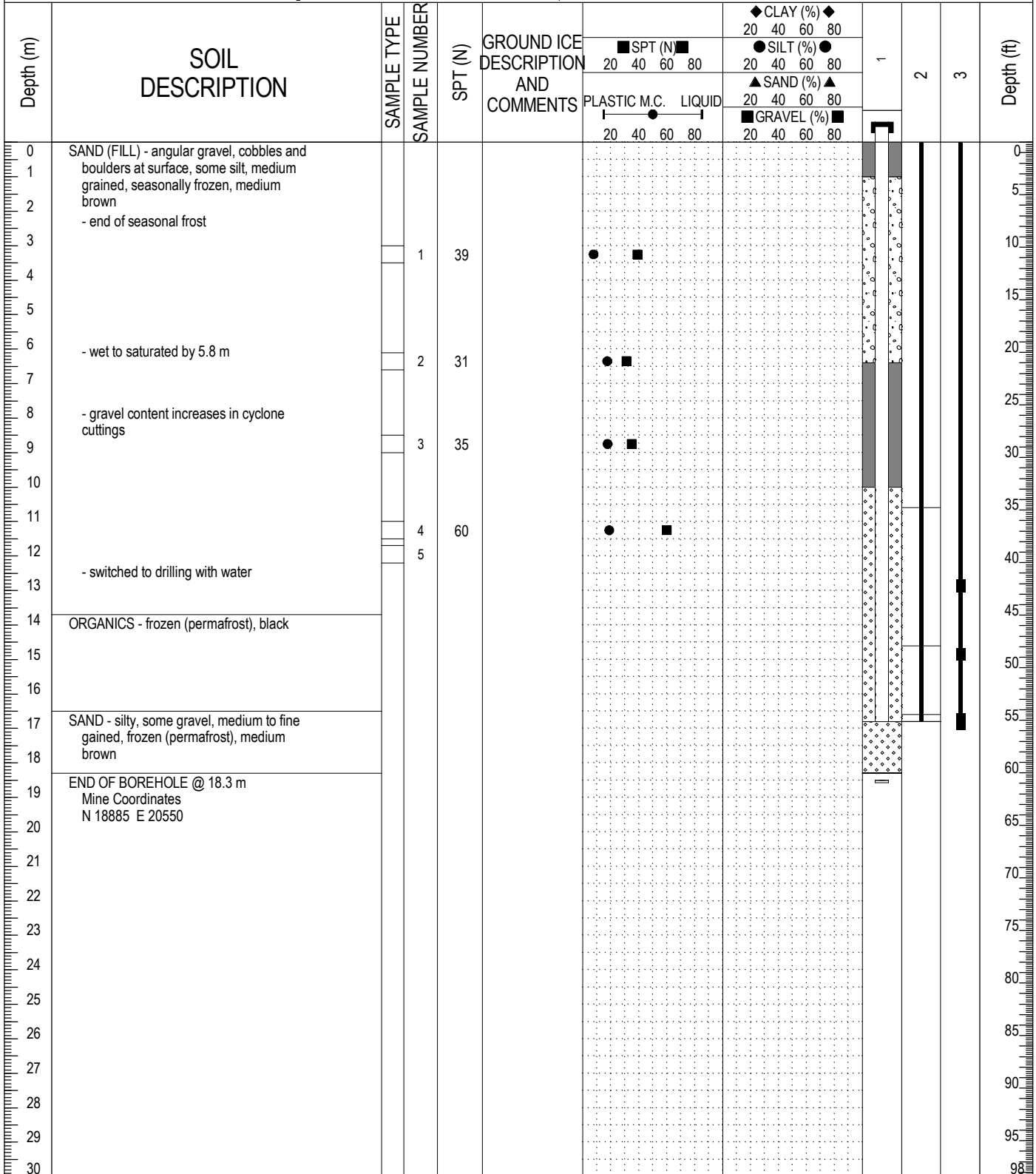
Piezometric Elevation Profiles
BH 12861-07


APPENDIX E

BOREHOLE LOGS FROM INSTRUMENTATION INSTALLATIONS

INSTRUMENTATION INSTALLATION	BYG NATURAL RESOURCES	BOREHOLE NO: 12861-01
MT. NANSEN MINE	DRILL: SCHRAMM AIR ROTARY	PROJECT NO: 0201-97-12861
NW OF CARMACKS, YT		

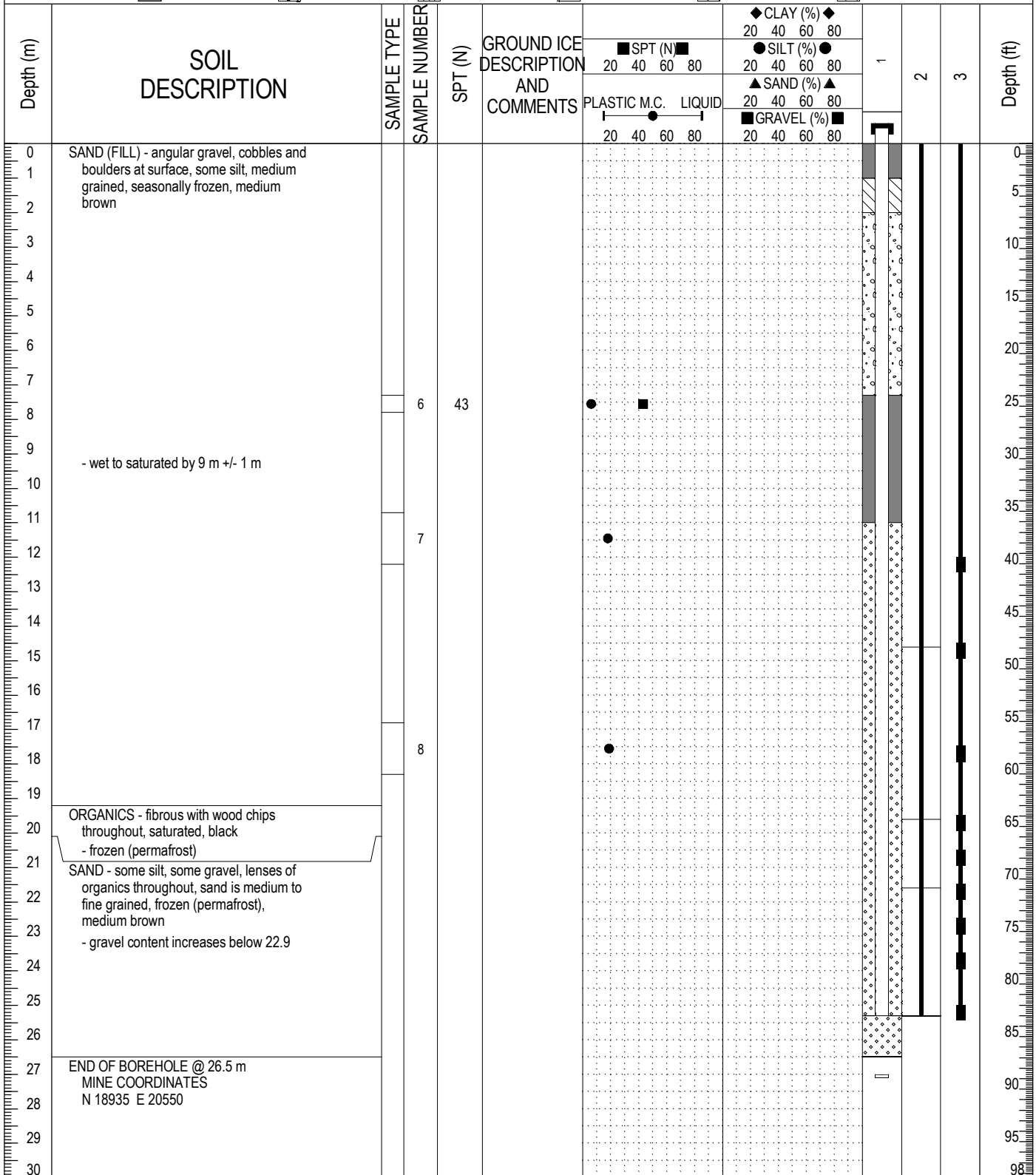
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BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND



 A TETRA TECH COMPANY	LOGGED BY: MCP	COMPLETION DEPTH: 18.3m
	REVIEWED BY: JRT	COMPLETE: 98/03/24
	DRAWING NO:	Page 1 of 1

INSTRUMENTATION INSTALLATION	BYG NATURAL RESOURCES	BOREHOLE NO: 12861-02
MT. NANSEN MINE	DRILL: SCHRAMM AIR ROTARY	PROJECT NO: 0201-97-12861
NW OF CARMACKS, YT		

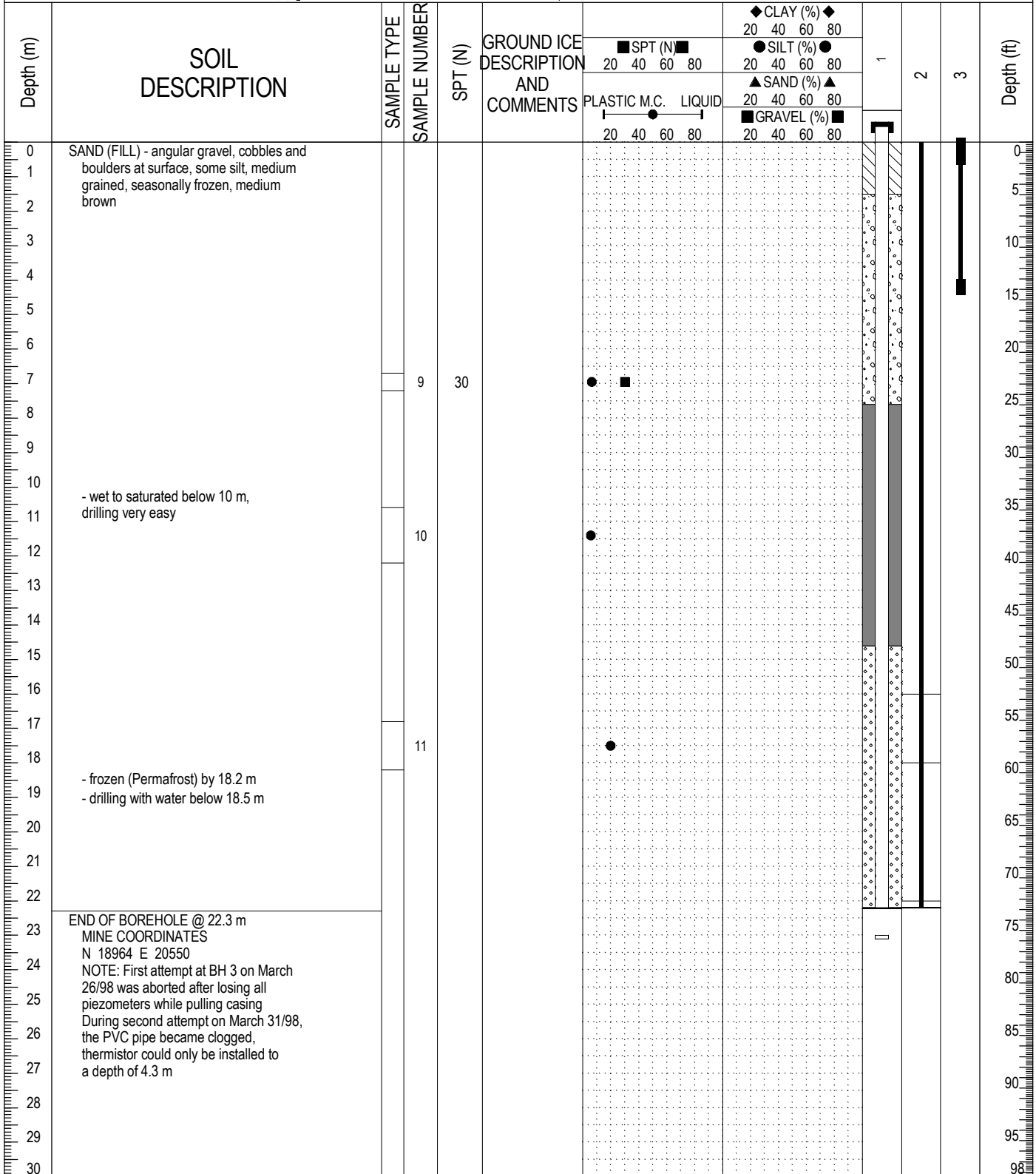
SAMPLE TYPE	<input type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE
BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND



	LOGGED BY: MCP	COMPLETION DEPTH: 26.5m
	REVIEWED BY: JRT	COMPLETE: 98/03/25
	DRAWING NO:	Page 1 of 1

INSTRUMENTATION INSTALLATION	BYG NATURAL RESOURCES	BOREHOLE NO: 12861-03
MT. NANSEN MINE	DRILL: SCHRAMM AIR ROTARY	PROJECT NO: 0201-97-12861
NW OF CARMACKS, YT		

SAMPLE TYPE	<input checked="" type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE
BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND

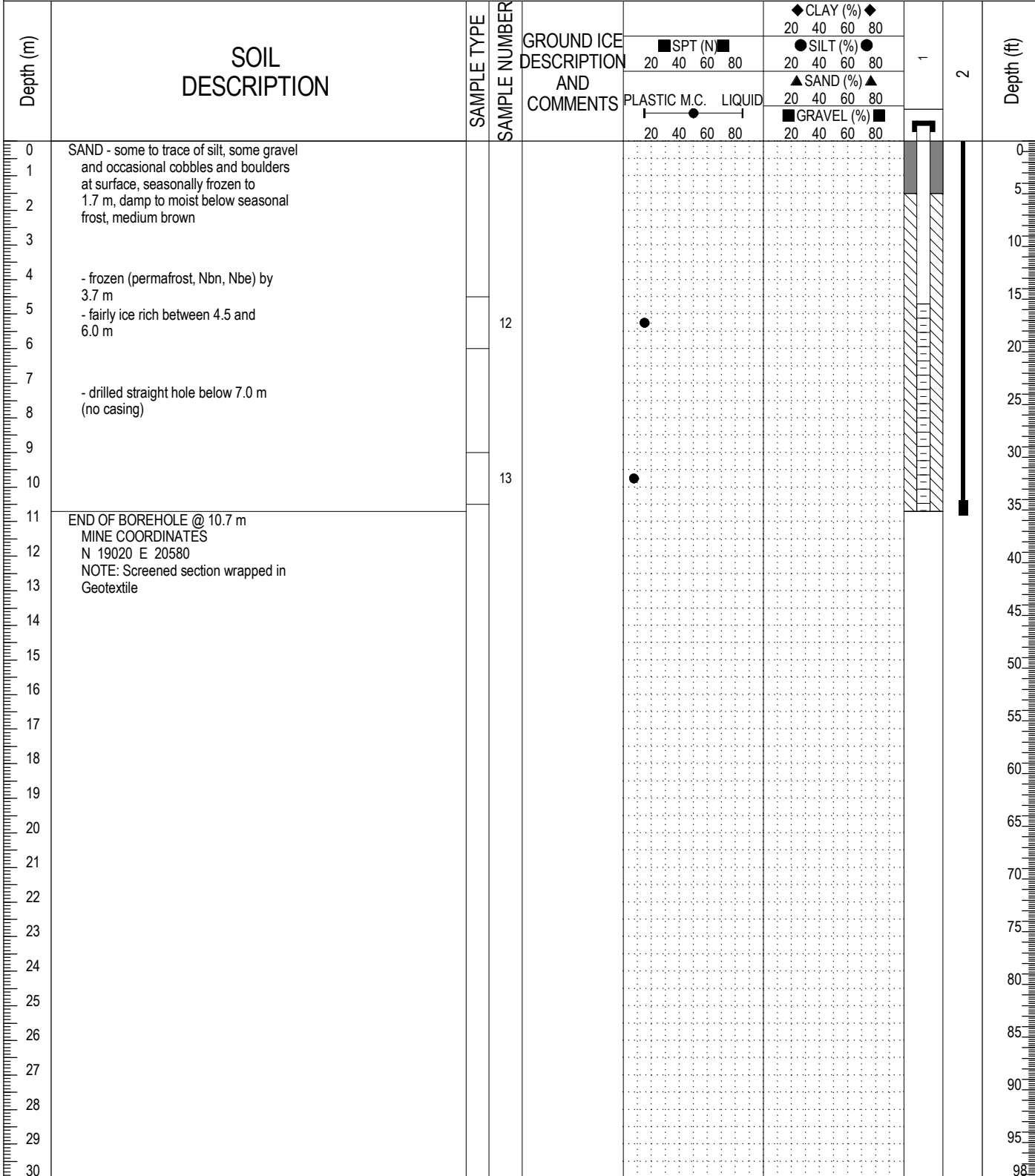



END OF BOREHOLE @ 22.3 m
MINE COORDINATES
N 18964 E 20550
NOTE: First attempt at BH 3 on March 26/98 was aborted after losing all piezometers while pulling casing. During second attempt on March 31/98, the PVC pipe became clogged, thermistor could only be installed to a depth of 4.3 m

 A TETRA TECH COMPANY	LOGGED BY: MCP	COMPLETION DEPTH: 22.3m
	REVIEWED BY: JRT	COMPLETE: 98/03/31
	DRAWING NO:	Page 1 of 1

INSTRUMENTATION INSTALLATION	BYG NATURAL RESOURCES	BOREHOLE NO: 12861-04
MT. NANSEN MINE	DRILL: SCHRAMM AIR ROTARY	PROJECT NO: 0201-97-12861
NW OF CARMACKS, YT		

SAMPLE TYPE	<input checked="" type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE
BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND




	LOGGED BY: MCP	COMPLETION DEPTH: 10.7m
	REVIEWED BY: JRT	COMPLETE: 98/03/27
	DRAWING NO:	Page 1 of 1

INSTRUMENTATION INSTALLATION	BYG NATURAL RESOURCES	BOREHOLE NO: 12861-05
MT. NANSEN MINE	DRILL: SCHRAMM AIR ROTARY	PROJECT NO: 0901-97-12861
NW OF CARMACKS, YT		

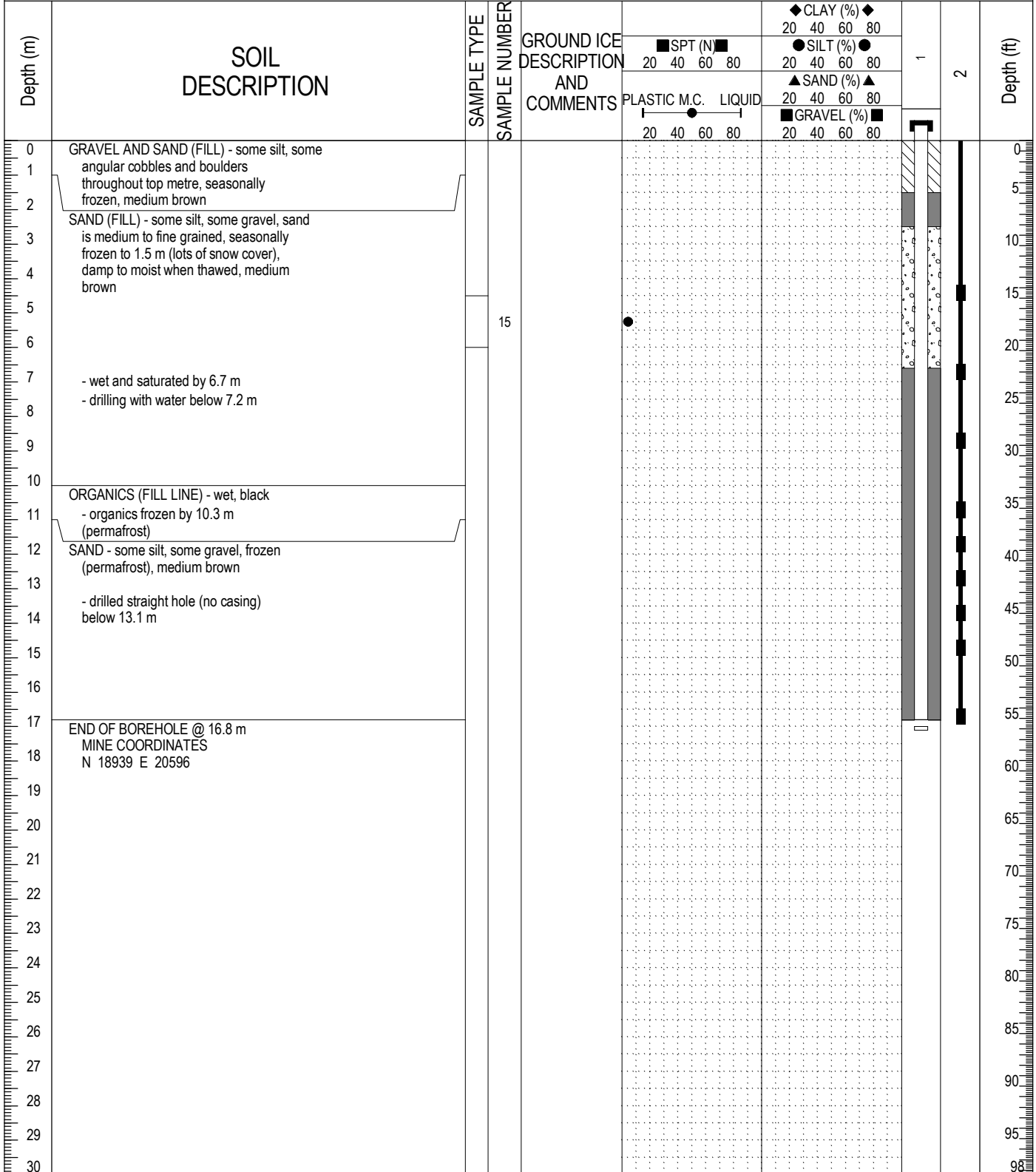
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BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND


Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	SPT (N)	GROUND ICE DESCRIPTION AND COMMENTS	SPT (N)		CLAY (%)		SILT (%)		SAND (%)		GRAVEL (%)		Depth (ft)
						20	40	20	40	60	80	20	40	60	80	
0	GRAVEL AND SAND (FILL) - some silt, some angular cobbles and boulders, seasonally frozen, medium brown															0
1																5
2	SAND (FILL) - some silt, medium to fine grained, seasonally frozen to 1.9 m, moist to wet below frost, dark olive brown															10
3																15
4																20
5																25
6																30
7	- saturated with water table at approximately 6.0 m															35
8	ORGANICS - frozen (permafrost), black - slow drilling below 7.3 m		14	12												40
9	SAND - some silt, some gravel, occasional cobbles and boulders, coarser with depth (more rock chips in cuttings), frozen (permafrost), medium brown															45
10																50
11																55
12																60
13	END OF BOREHOLE @ 13 m															65
14	MINE COORDINATES															70
15	NOTE: The 100 mm above the fill line at 7.3 m is frozen indicating possible freeze back into fill															75
16	NOTE: Last 150 mm section of split spoon was into permafrost therefore use first two blow counts for strength determinations															80
17																85
18																90
19																95
20																98

 A TETRA TECH COMPANY	LOGGED BY: MCP	COMPLETION DEPTH: 13m
	REVIEWED BY: JRT	COMPLETE: 98/03/28
	DRAWING NO:	Page 1 of 1

INSTRUMENTATION INSTALLATION	BYG NATURAL RESOURCES	BOREHOLE NO: 12861-06
MT. NANSEN MINE	DRILL: SCHRAMM AIR ROTARY	PROJECT NO: 0201-97-12861
NW OF CARMACKS, YT		

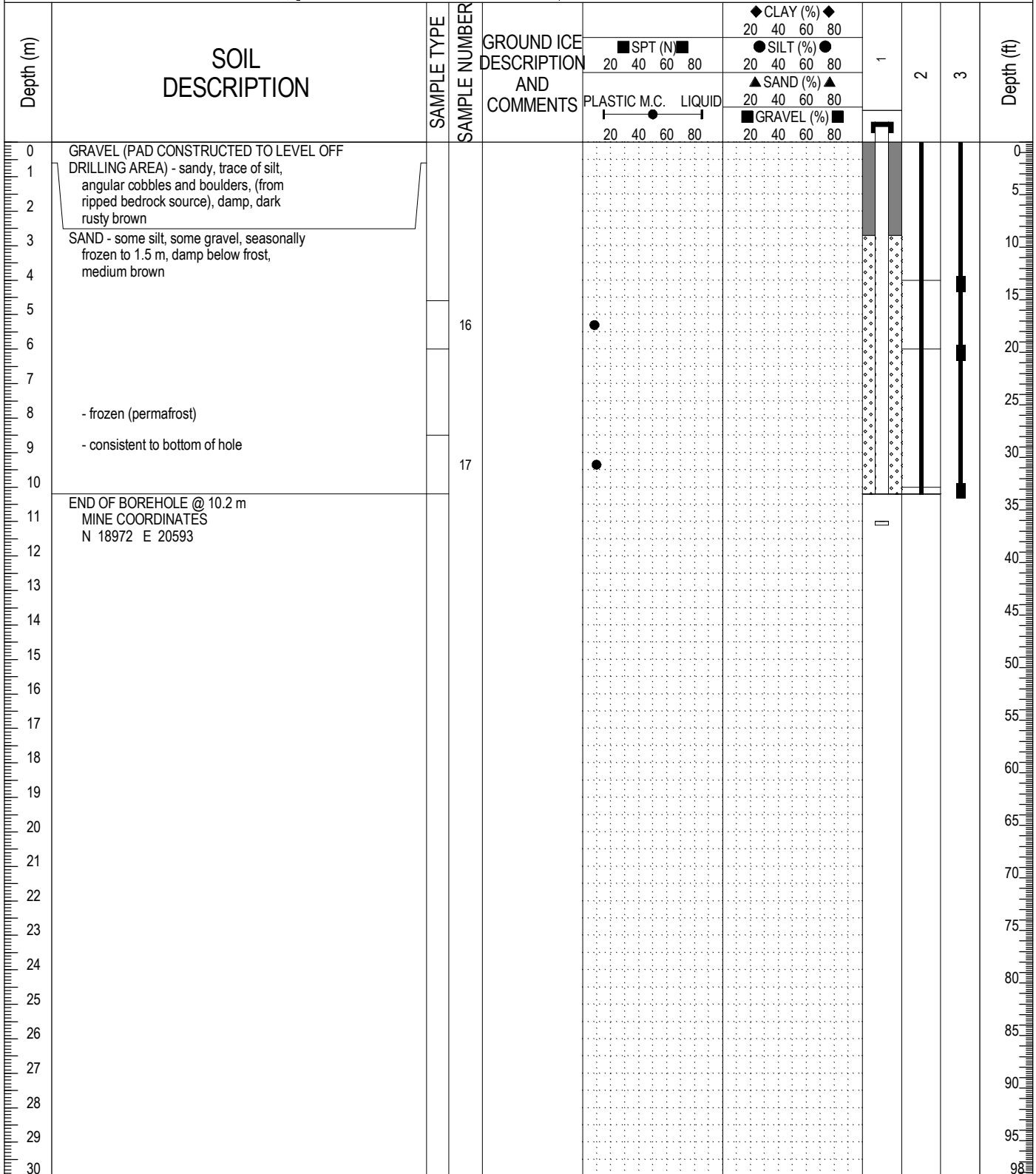
SAMPLE TYPE	<input type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE
BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND




 A TETRA TECH COMPANY	LOGGED BY: MCP	COMPLETION DEPTH: 16.8m
	REVIEWED BY: JRT	COMPLETE: 98/03/30
	DRAWING NO:	Page 1 of 1

INSTRUMENTATION INSTALLATION	BYG NATURAL RESOURCES	BOREHOLE NO: 12861-07
MT. NANSEN MINE	DRILL: SCHRAMM AIR ROTARY	PROJECT NO: 0901-97-12861
NW OF CARMACKS, YT		

SAMPLE TYPE	<input type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE
BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND




 A TETRA TECH COMPANY	LOGGED BY: MCP	COMPLETION DEPTH: 10.2m
	REVIEWED BY: JRT	COMPLETE: 98/03/31
	DRAWING NO:	Page 1 of 1

INSTRUMENTATION INSTALLATION	BYG NATURAL RESOURCES	BOREHOLE NO: 12861-08
MT. NANSEN MINE	DRILL: SCHRAMM AIR ROTARY	PROJECT NO: 0901-97-12861
NW OF CARMACKS, YT		

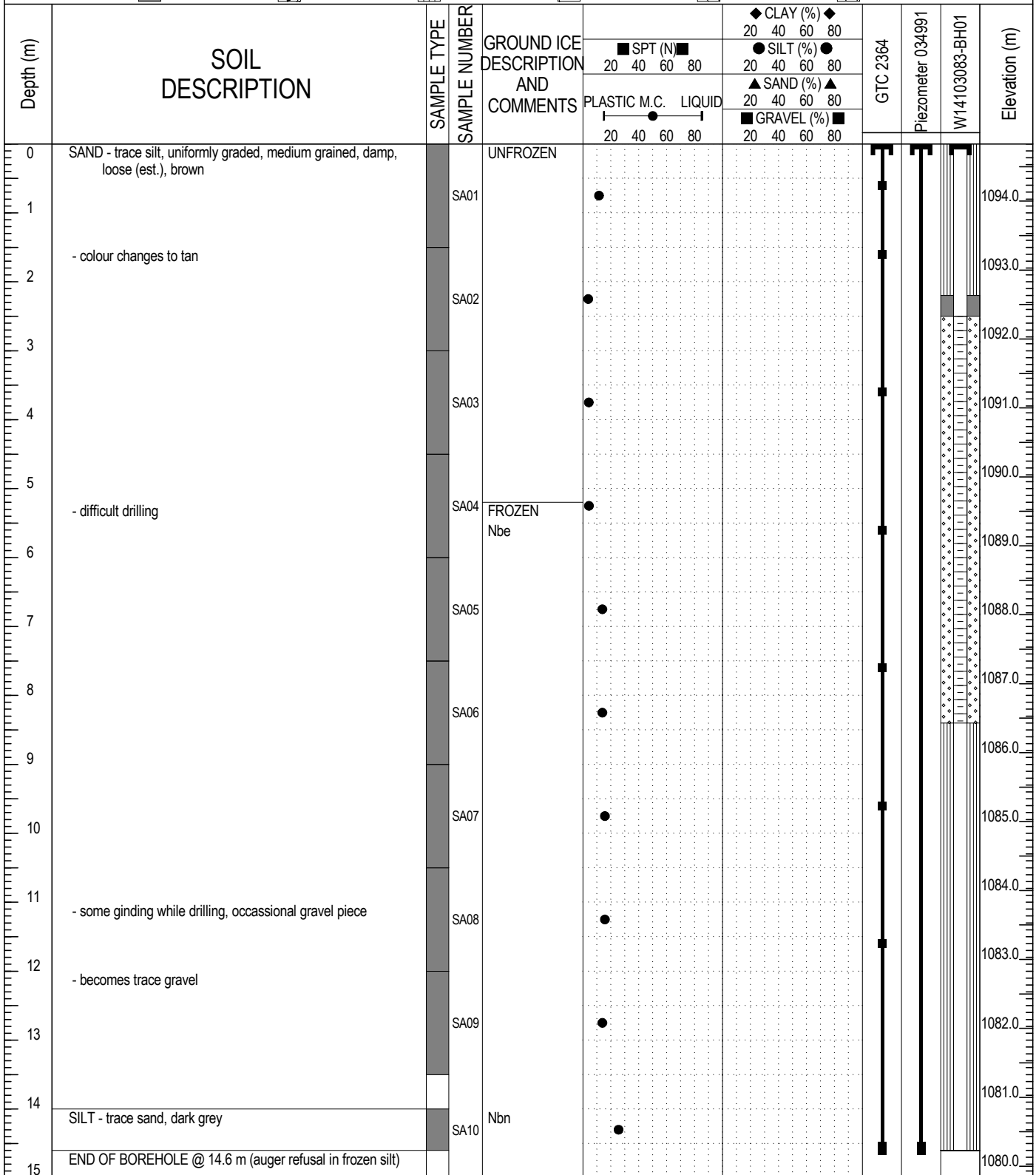
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BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND


Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	GROUND ICE DESCRIPTION AND COMMENTS	SPT (N)		CLAY (%)		SILT (%)		SAND (%)		GRAVEL (%)		Depth (ft)
				20	40	60	80	20	40	60	80	20	40	
0	SURFACE BOULDER (DITCH ARMOUR) - up to 1 m in size, angular													0
1	SAND (FILL) - some silt, some gravel, occasional cobbles and boulders throughout, seasonally frozen, medium brown													5
2	- frozen (permafrost), indicates some freeze back into fill													10
3	ORGANICS - frozen (permafrost) black													15
4	SAND - some silt, some gravel, frozen (permafrost) drilling, wet so can't determine permafrost description, medium brown													20
5	- drilled straight hole (no casing) below 7.0 m													25
6														30
7														35
8														40
9														45
10														50
11														55
12														60
13														65
14														70
15														75
16	END OF BOREHOLE @ 15.2 m													80
17	MINE COORDINATES													85
18	N 18932 E 20634													90
19	NOTE: No samples; drilled with water from surface													95
20														98

 A TETRA TECH COMPANY	LOGGED BY: MCP	COMPLETION DEPTH: 15.2m
	REVIEWED BY: JRT	COMPLETE: 98/03/30
	DRAWING NO:	Page 1 of 1

Fall 2012 Geotechnical	CLIENT: YG - Assessment and Abandoned Mines	BOREHOLE NO: W14103083-BH01
Drilling and Instrumentation	DRILL: CME 75/Hollow Stem Auger	PROJECT NO: W14103083-01
Mt. Nansen Mine Site, YT	6880668N; 389526E; Zone 8	ELEVATION: 1094.83m

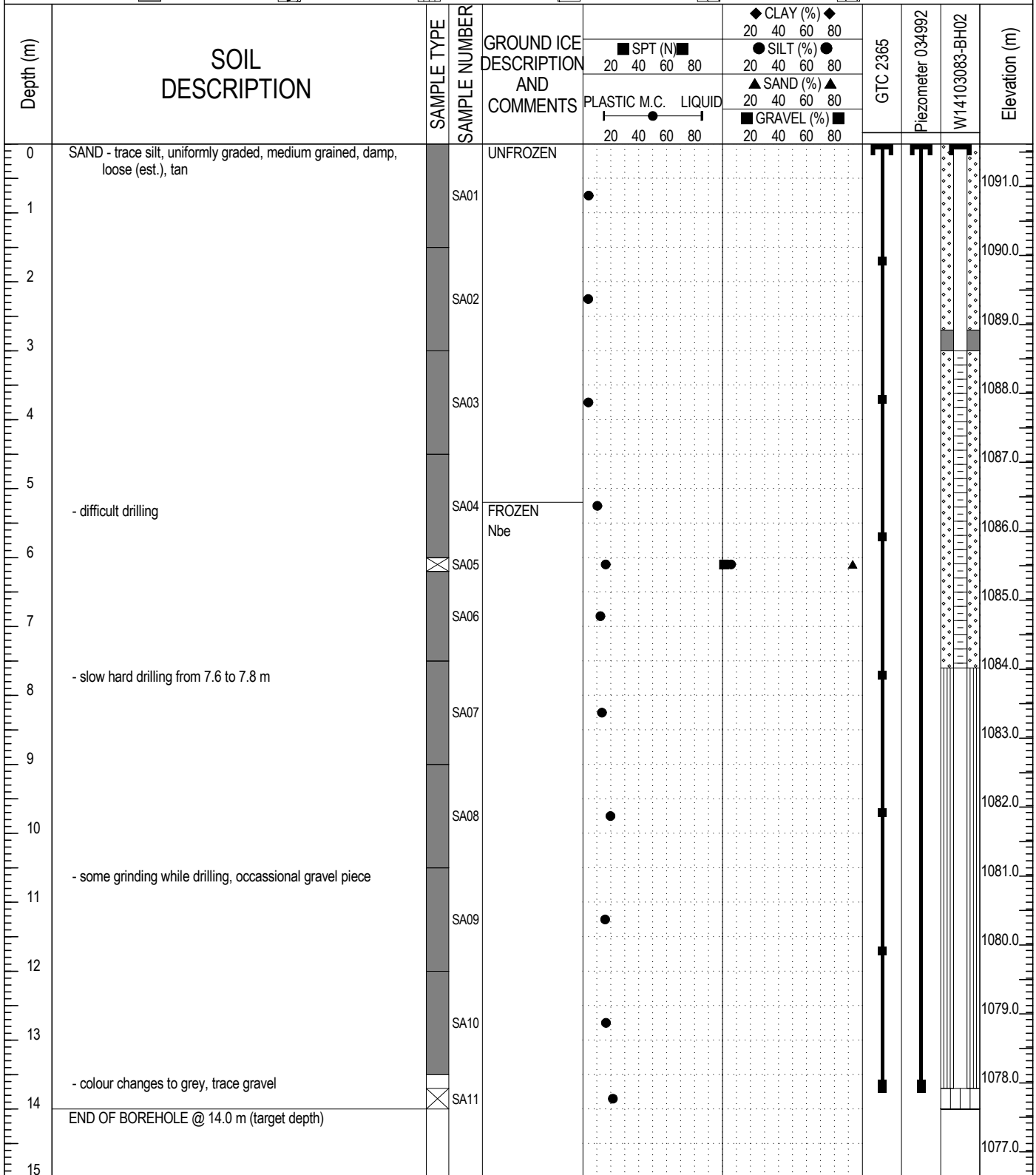
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BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND



 A TETRA TECH COMPANY	LOGGED BY: JTP	COMPLETION DEPTH: 14.6m
	REVIEWED BY: JRT	COMPLETE: 10/1/2012
	DRAWING NO:	Page 1 of 1

Fall 2012 Geotechnical	CLIENT: YG - Assessment and Abandoned Mines	BOREHOLE NO: W14103083-BH02
Drilling and Instrumentation	DRILL: CME 75/Hollow Stem Auger	PROJECT NO: W14103083-01
Mt. Nansen Mine Site, YT	6880668N; 389561E; Zone 8	ELEVATION: 1091.62m

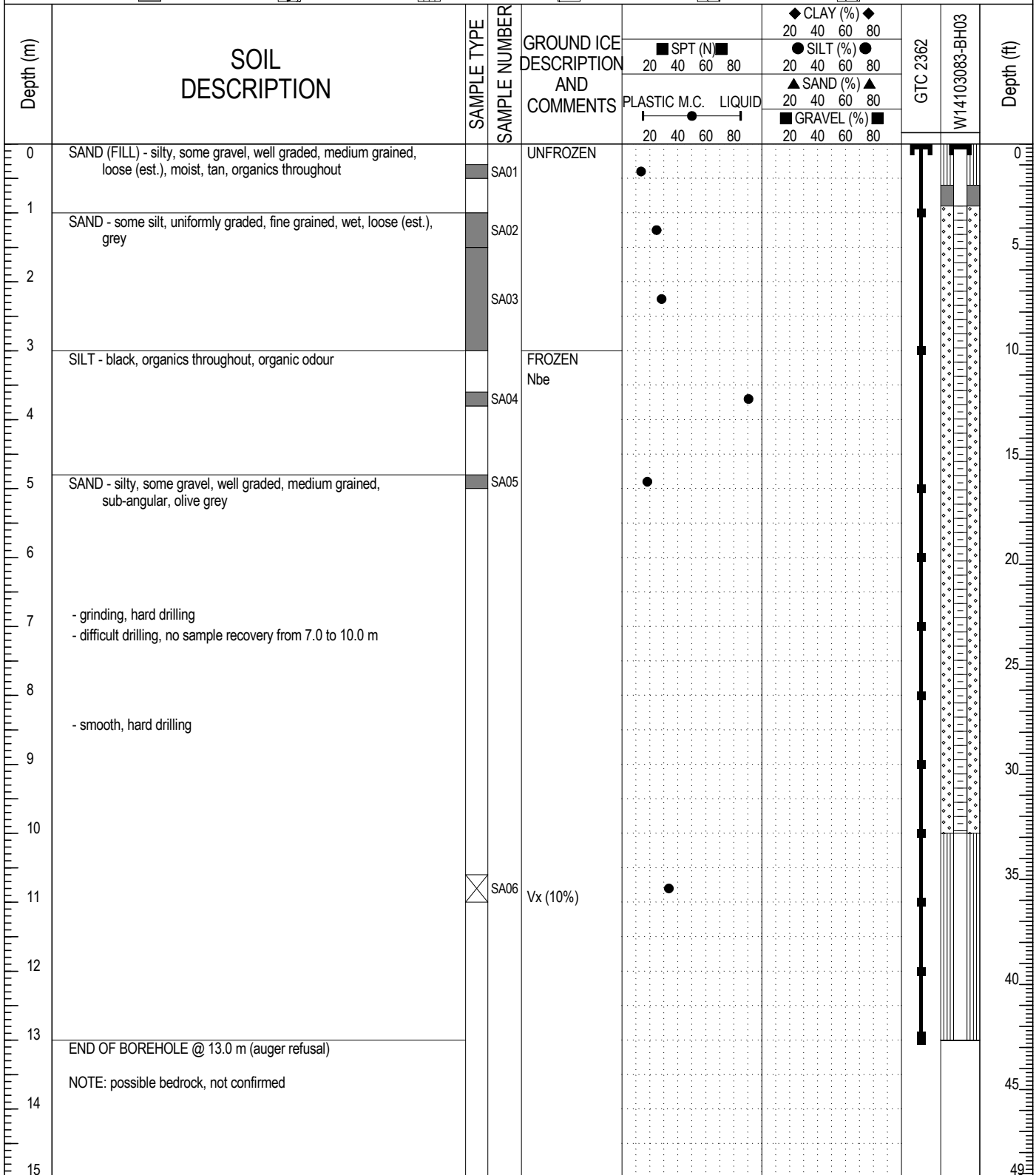
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BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND




	LOGGED BY: JTP	COMPLETION DEPTH: 14m
	REVIEWED BY: JRT	COMPLETE: 10/2/2012
	DRAWING NO:	Page 1 of 1

Fall 2012 Geotechnical	CLIENT: YG - Assessment and Abandoned Mines	BOREHOLE NO: W14103083-BH03
Drilling and Instrumentation	DRILL: CME 75/Hollow Stem Auger	PROJECT NO: W14103083-01
Mt. Nansen Mine Site, YT	6880732N; 389132E; Zone 8	

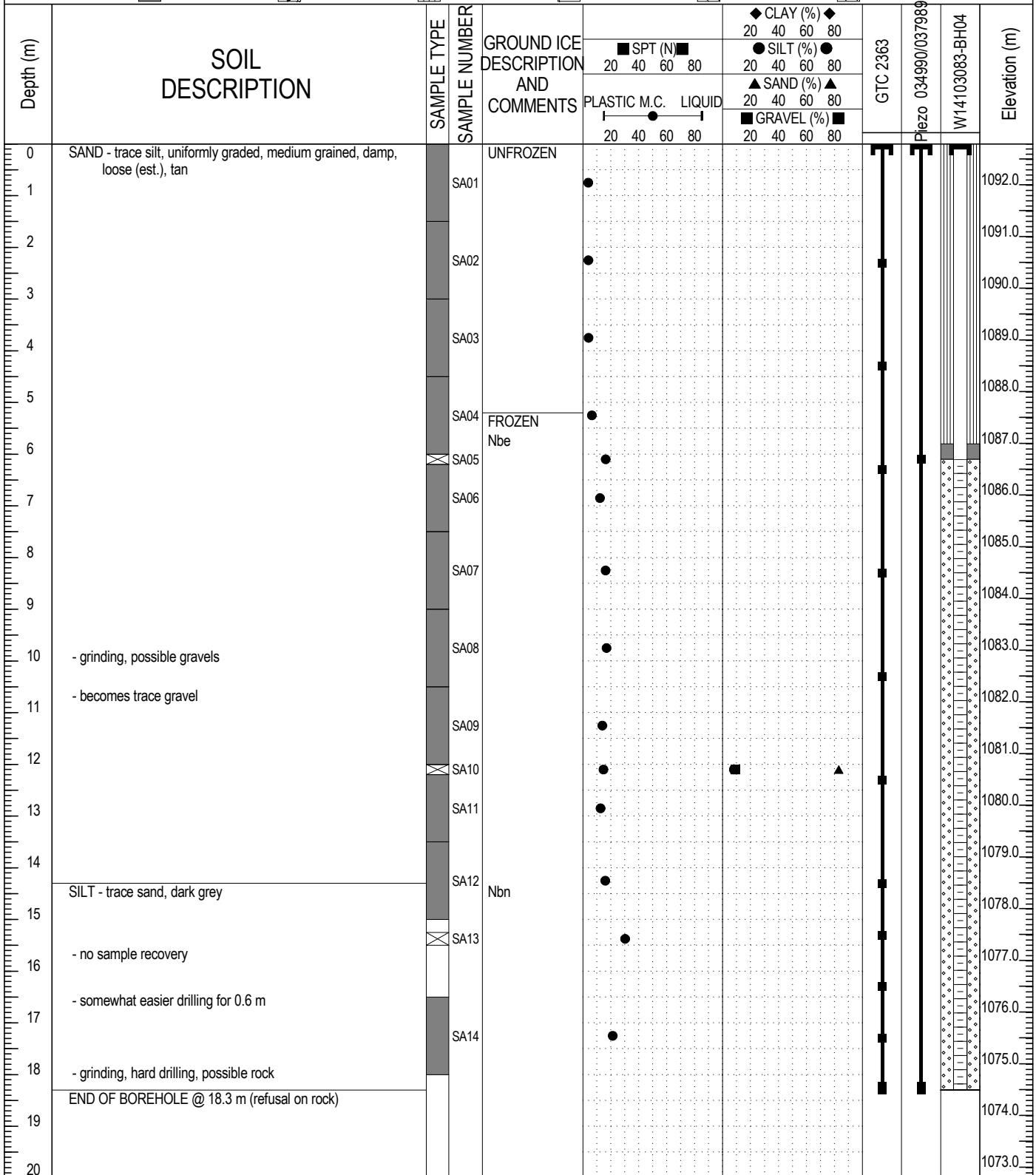
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BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND



 A TETRA TECH COMPANY	LOGGED BY: JTP	COMPLETION DEPTH: 13m
	REVIEWED BY: JRT	COMPLETE: 10/2/2012
	DRAWING NO:	Page 1 of 1

Fall 2012 Geotechnical	CLIENT: YG - Assessment and Abandoned Mines	BOREHOLE NO: W14103083-BH04
Drilling and Instrumentation	DRILL: CME 75/Hollow Stem Auger	PROJECT NO: W14103083-01
Mt. Nansen Mine Site, YT	6880666N; 389543E; Zone 8	ELEVATION: 1092.79m

SAMPLE TYPE	<input checked="" type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE
BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND



	LOGGED BY: JTP	COMPLETION DEPTH: 18.3m
	REVIEWED BY: JRT	COMPLETE: 10/3/2012
	DRAWING NO:	Page 1 of 1

Drilling/Instrument Installation: CLIENT: DIAND - Yukon Region BOREHOLE NO: 14618-BH01
 Mount Nansen Mine Site, DRILL: Schramm Air Rotary PROJECT NO: 0201-0014618
 Carmacks, YT ELEVATION: 1130.75m 1078.4

SAMPLE TYPE: DISTURBED NO RECOVERY SPT A-CASING SHELBY TUBE CORE
 BACKFILL TYPE: BENTONITE PEA GRAVEL SLOUGH GROUT DRILL CUTTINGS SAND


Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	GROUND ICE DESCRIPTION AND COMMENTS	SPT (N)		CLAY (%)		SILT (%)		SAND (%)		Elevation (m)
				20	40	60	80	20	40	60	80	
0	SAND (FILL) - trace of silt, fine to medium grained, light brown, dry											
1												1130.0
2												1129.0
3												1128.0
4												1127.0
5	-becomes silty at about 4.5 m -color changes to a dark grey around 4.5 m											1126.0
6												1125.0
7												1124.0
8												1123.0
9												1122.0
10												1121.0

LOGGED BY: JSB COMPLETION DEPTH: 13.1m
 REVIEWED BY: JRT COMPLETE: 1/1/2018
 DRAWING NO: Page 1 of 2

Drilling/Instrument Installation	CLIENT: DIAND - Yukon Region	BOREHOLE NO: 14618-BH01
Mount Nansen Mine Site,	DRILL: Schramm Air Rotary	PROJECT NO: 0201-0014618
Carmacks, YT		ELEVATION: 1130.75m

SAMPLE TYPE	<input checked="" type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND

Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	GROUND ICE DESCRIPTION AND COMMENTS	SPT (N)		PLASTIC M.C.		LIQUID		CLAY (%)	SILT (%)	SAND (%)	GRAVEL (%)	Elevation (m)
				20	40	60	80	20	40					
10														1120.0
11														1119.0
12														1118.0
13	-frozen at approximately 12.2 m													1117.0
14	END OF BOREHOLE 13.1 m -water table at 4.5 m -thermistor cable #1385 installed													1116.0
15														1115.0
16														1114.0
17														1113.0
18														1112.0
19														1111.0
20														1110.0

 A TETRA TECH COMPANY	LOGGED BY: JSB	COMPLETION DEPTH: 13.1m
	REVIEWED BY: JRT	COMPLETE: 1/1/2018
	DRAWING NO:	Page 2 of 2

Drilling/Instrument Installation	CLIENT: DIAND - Yukon Region	BOREHOLE NO: 14618-BH03
Mount Nansen Mine Site,	DRILL: Schramm Air Rotary	PROJECT NO: 0201-0014618
Carmacks, YT		ELEVATION: 1126.8m 1074.74m

SAMPLE TYPE	<input checked="" type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE
BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND


Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	GROUND ICE DESCRIPTION AND COMMENTS	SPT (N)		CLAY (%)		SILT (%)		SAND (%)		GRAVEL (%)		Elevation (m)
				20	40	60	80	20	40	60	80	20	40	
0	GRAVEL - sandy, silty													1126.0
1	SILT - sandy, wet, dark brownish black													1125.0
2														1124.0
3														1123.0
4														1122.0
5	- becomes moist at about 4.5 m													1121.0
6														1120.0
7	SAND - trace of gravel, trace of silt, medium to coarse sand, fine grained gravel, loose, moist, light yellowish brown													1119.0
8														1118.0
9	- sand becomes fine grained below 8.5 m - becomes silty below 8.5 m - colour changes to medium grey at about 8.5 m													1117.0
10	- frozen below 9.4 m													1117.0

 A TETRA TECH COMPANY	LOGGED BY: JSB	COMPLETION DEPTH: 10m
	REVIEWED BY: JRT	COMPLETE: 1/1/2020
	DRAWING NO:	Page 1 of 2

Drilling/Instrument Installation	CLIENT: DIAND - Yukon Region	BOREHOLE NO: 14618-BH03
Mount Nansen Mine Site,	DRILL: Schramm Air Rotary	PROJECT NO: 0201-0014618
Carmacks, YT		ELEVATION: 1126.8m

SAMPLE TYPE	<input type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE
BACKFILL TYPE	<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND

Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	GROUND ICE DESCRIPTION AND COMMENTS	SPT (N)	PLASTIC M.C.	LIQUID	CLAY (%)	SILT (%)	SAND (%)	GRAVEL (%)	Elevation (m)
				20 40 60 80	20 40 60 80	20 40 60 80	20 40 60 80	20 40 60 80	20 40 60 80	20 40 60 80	
10	END OF BOREHOLE @ 10.0 m - thermistor cable #1383 installed										1116.0
11											1115.0
12											1114.0
13											1113.0
14											1112.0
15											1111.0
16											1110.0
17											1109.0
18											1108.0
19											1107.0
20											1107.0

 A TETRA TECH COMPANY	LOGGED BY: JSB	COMPLETION DEPTH: 10m
	REVIEWED BY: JRT	COMPLETE: 1/1/2020
	DRAWING NO:	Page 2 of 2

Drilling/Instrument Installation CLIENT: DIAND - Yukon Region BOREHOLE NO: 14618-BH04
 Mount Nansen Mine Site, DRILL: Schramm Air Rotary PROJECT NO: 0201-0014618
 Carmacks, YT ELEVATION: 1127.25m **1076.1**

SAMPLE TYPE DISTURBED NO RECOVERY SPT A-CASING SHELBY TUBE CORE
 BACKFILL TYPE BENTONITE PEA GRAVEL SLOUGH GROUT DRILL CUTTINGS SAND


Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	GROUND ICE DESCRIPTION AND COMMENTS	SPT (N)		CLAY (%)		SILT (%)		SAND (%)		GRAVEL (%)	Elevation (m)
				20	40	20	40	60	80	20	40		
0	SAND - silty, gravelly											1127.0	
1	SILT - sandy											1126.0	
2	- poor recovery due to water and fine grained soils											1125.0	
3												1124.0	
4												1123.0	
5												1122.0	
6												1121.0	
7												1120.0	
8												1119.0	
9												1118.0	
10													

LOGGED BY: JSB COMPLETION DEPTH: 10.4m
 REVIEWED BY: JRT COMPLETE: 1/1/2020
 DRAWING NO: Page 1 of 2

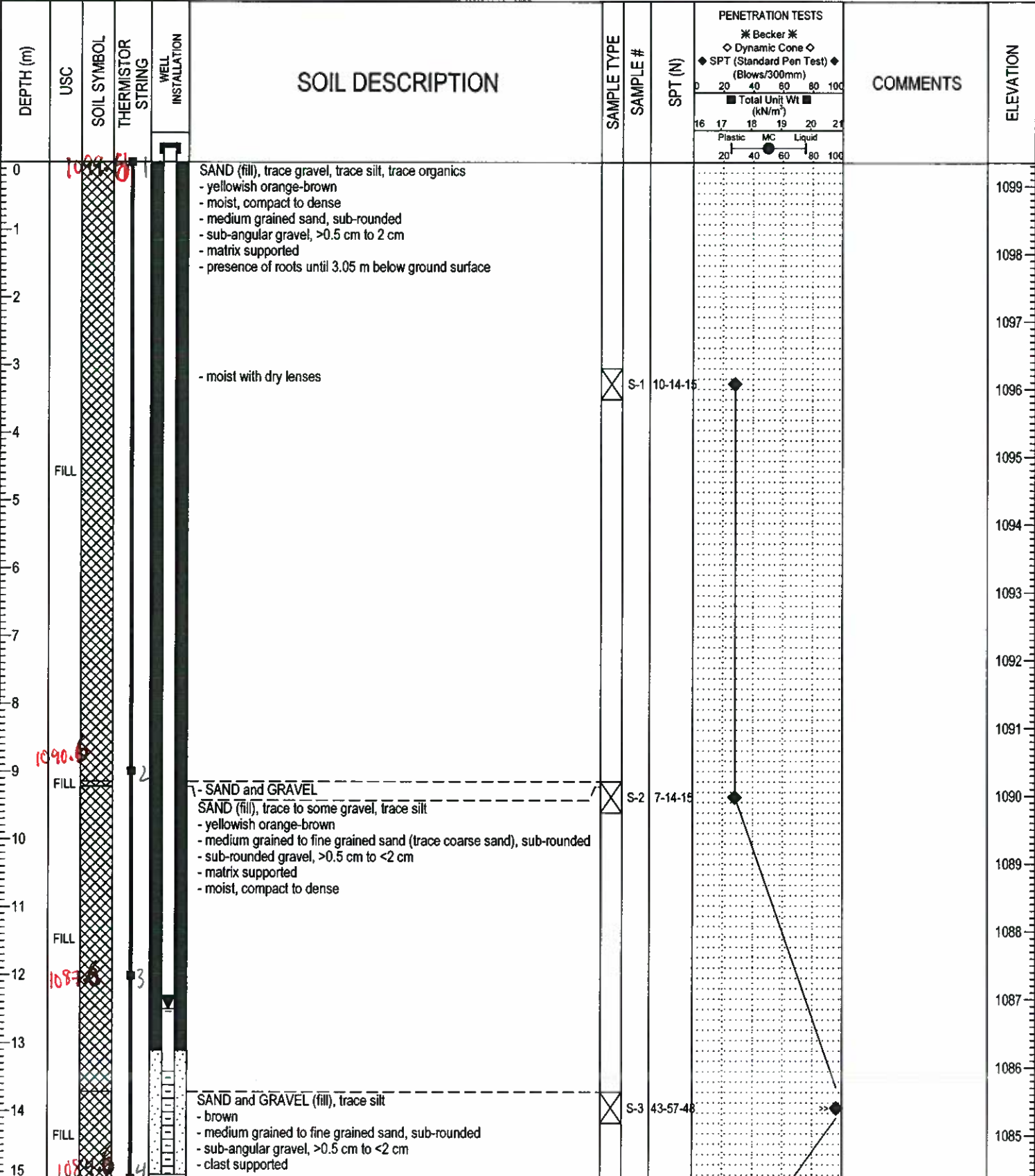
Drilling/Instrument Installation	CLIENT: DIAND - Yukon Region	BOREHOLE NO: 14618-BH04
Mount Nansen Mine Site,	DRILL: Schramm Air Rotary	PROJECT NO: 0201-0014618
Carmacks, YT		ELEVATION: 1127.25m

SAMPLE TYPE	<input checked="" type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND

Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	GROUND ICE DESCRIPTION AND COMMENTS	SPT (N)		PLASTIC M.C.		LIQUID		CLAY (%)	SILT (%)	SAND (%)	GRAVEL (%)	Elevation (m)	
				20	40	60	80	20	40						60
10	END OF BOREHOLE @ 10.4 m - water table encountered - thermistor cable #1384 installed													1117.0	
11														1116.0	
12															1115.0
13															1114.0
14															1113.0
15															1112.0
16															1111.0
17															1110.0
18															1109.0
19															1108.0
20															

 A TETRA TECH COMPANY	LOGGED BY: JSB	COMPLETION DEPTH: 10.4m
	REVIEWED BY: JRT	COMPLETE: 1/1/2020
	DRAWING NO:	Page 2 of 2

PROJECT: Mt. Nansen Mine Closure	CLIENT: Yukon Government - EMR	TESTHOLE NO: GT09-01 / MW09-23
LOCATION: Tailings Dam Crest, near TH-03 UTM N 2,097,210.5 E 118,707.1		PROJECT NO.: 112359
CONTRACTOR: Geotech Drilling Ltd.	METHOD: Geoprobe 8040DT, Air Rotary-114 mm	ELEVATION (m): 1099.6
SAMPLE TYPE	<input type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE	
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> CUTTINGS <input type="checkbox"/> SAND	

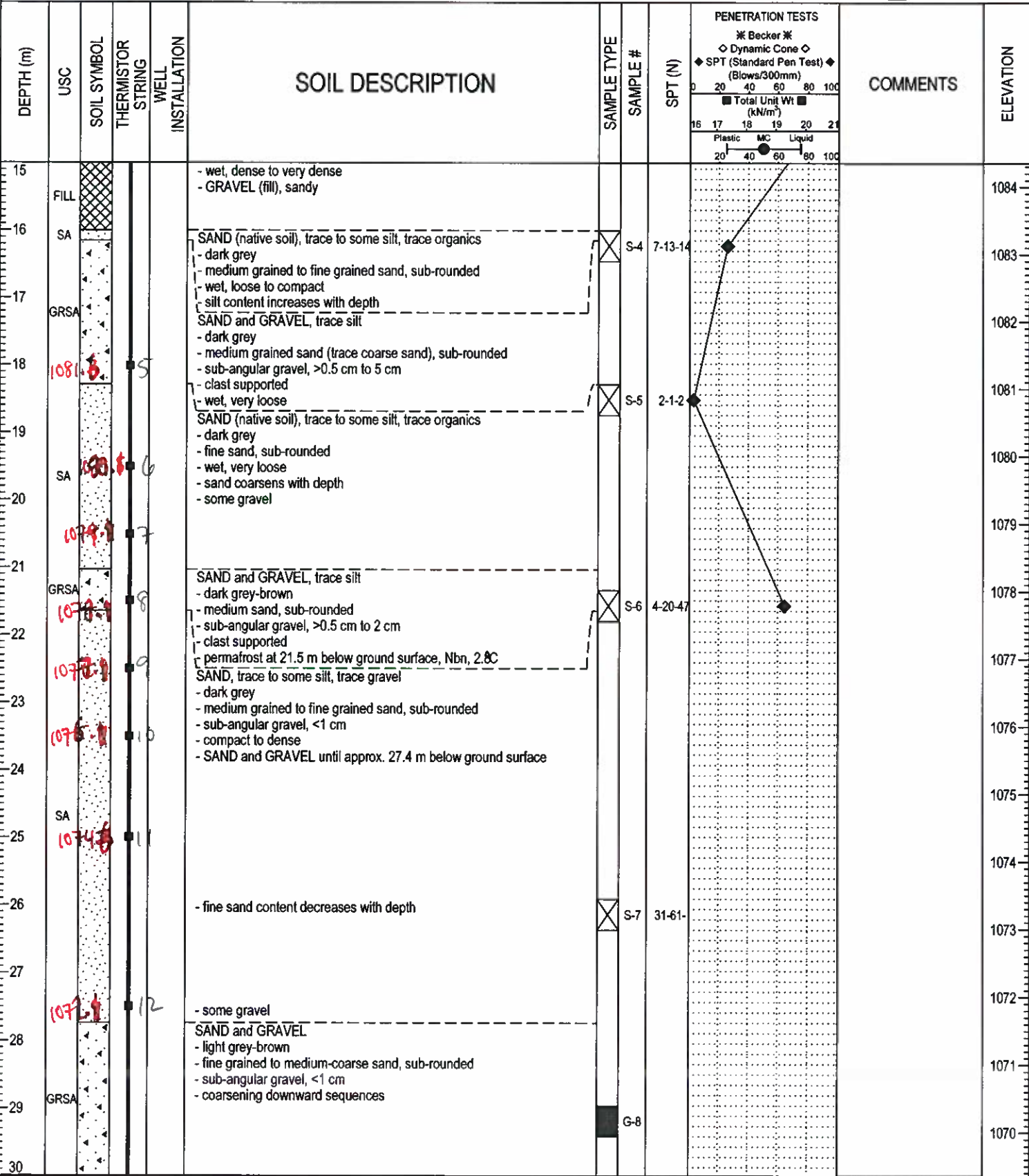


LOG OF TEST HOLE FIG-2010-06-01-BOREHOLE LOGS-112359.GPJ UMA WINN.GDT 1/6/10



LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 30.18 m
REVIEWED BY: Alex Knop	COMPLETION DATE: 19/7/09
PROJECT ENGINEER: Ken Skaffeld	Page 1 of 3

PROJECT: Mt. Nansen Mine Closure	CLIENT: Yukon Government - EMR	TESTHOLE NO: GT09-01 / MW09-23
LOCATION: Tailings Dam Crest, near TH-03 UTM N 2,097,210.5 E 118,707.1		PROJECT NO.: 112359
CONTRACTOR: Geotech Drilling Ltd.	METHOD: Geoprobe 8040DT, Air Rotary-114 mm	ELEVATION (m): 1099.461
SAMPLE TYPE	GRAB <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE <input type="checkbox"/>	
BACKFILL TYPE	BENTONITE <input type="checkbox"/> GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> CUTTINGS <input type="checkbox"/> SAND <input type="checkbox"/>	



LOG OF TEST HOLE FIG-2010-08-01-BOREHOLE LOGS-112359.GPJ UMA WINN.GDT 1/8/10



LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 30.18 m
REVIEWED BY: Alex Knop	COMPLETION DATE: 19/7/09
PROJECT ENGINEER: Ken Skaffeld	Page 2 of 3

PROJECT: Mt. Nansen Mine Closure		CLIENT: Yukon Government - EMR		TESTHOLE NO: GT09-01 / MW09-23	
LOCATION: Tailings Dam Crest, near TH-03 UTM N 2,097,210.5 E 118,707.1				PROJECT NO.: 112359	
CONTRACTOR: Geotech Drilling Ltd.			METHOD: Geoprobe 8040DT, Air Rotary-114 mm		ELEVATION (m): 1099.61
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> NO RECOVERY
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input checked="" type="checkbox"/> CUTTINGS
					<input type="checkbox"/> CORE

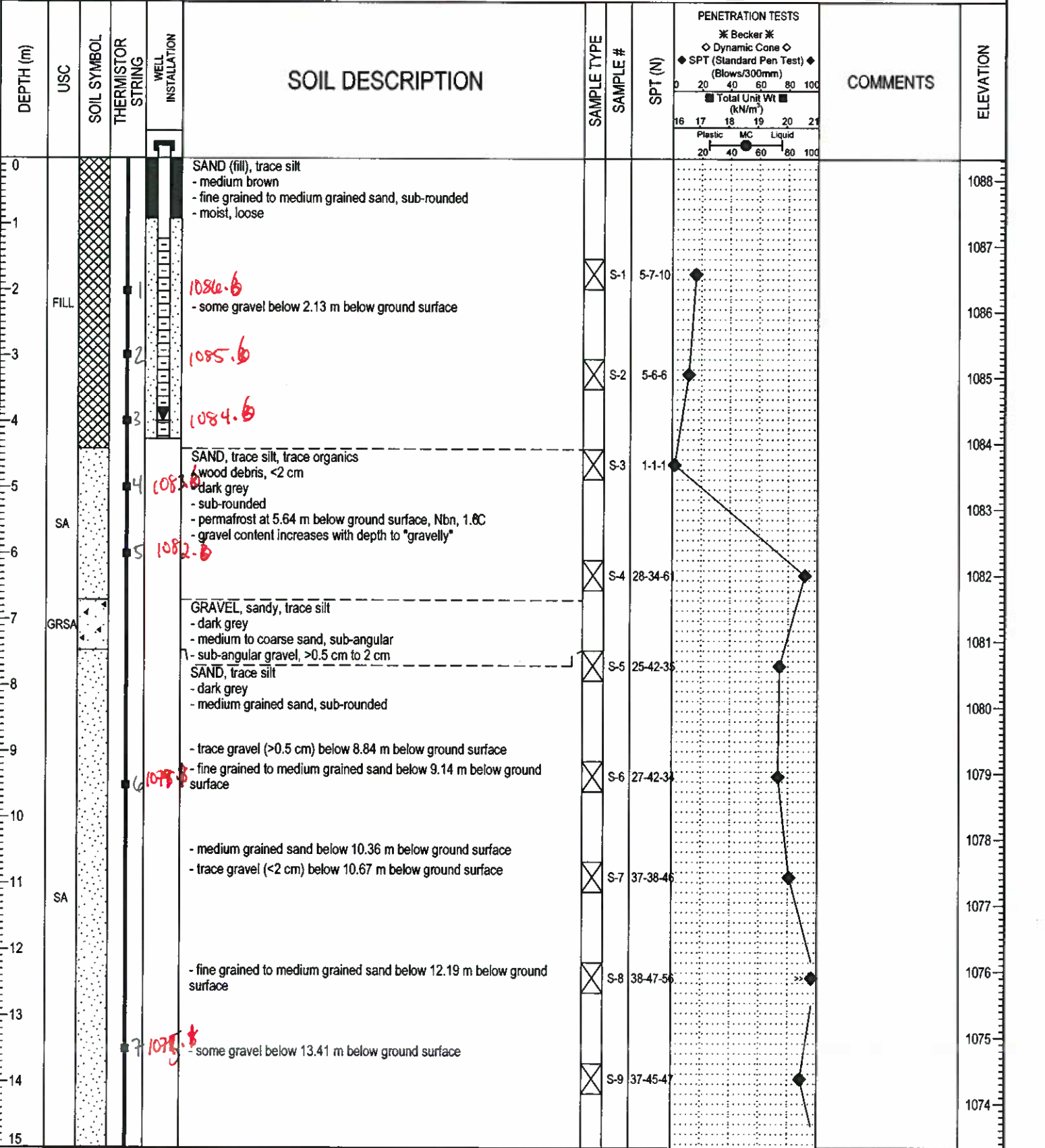
DEPTH (m)	USC	SOIL SYMBOL	THERMISTOR STRING	WELL INSTALLATION	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION
									* Becker *	Dynamic Cone		
30	1069.6			B	END OF DRILLING at 30.18 m in permafrost (refusal)							1069
31					- 10 cm of heaving at 17.53 m below ground surface							1068
32					MW09-23 install: - Screen interval: 13.41 m - 14.94 m - Screen type: 10-Slot 2" PVC SCHED 40 - Filler pack interval: 13.11 m - 14.94 m - Bentonite seal from ground surface to 13.11 m - WL: 13.409 mTPVC (21-Jul-09, 8:30:00 AM)							1067
33					Thermistor install: - 2" PVC pipe SCHED 40 - grout from 30.2 m below ground surface to ground surface - 1" PVC pipe SCHED 40 install inside the 2" PVC pipe SCHED 40 - grout inside the annulus space							1066
34												1065
35												1064
36												1063
37												1062
38												1061
39												1060
40												1059
41												1058
42												1057
43												1056
44												1055
45												



LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 30.18 m
REVIEWED BY: Alex Knop	COMPLETION DATE: 19/7/09
PROJECT ENGINEER: Ken Skaffeld	Page 3 of 3

LOG OF TEST HOLE FIG-2010-06-01-BOREHOLE LOGS-112359.GPJ UMA WINN.GDT 1/6/10

PROJECT: Mt. Nansen Mine Closure	CLIENT: Yukon Government - EMR	TESTHOLE NO: GT09-02 / MW09-22
LOCATION: Tailings Dam, on Road from South Abutment UTM N 2,097,191.5 E 118,719.0		PROJECT NO.: 112359
CONTRACTOR: Geotech Drilling Ltd.	METHOD: Geoprobe 8040DT, Air Rotary-114 mm	ELEVATION (m): 1088.856
SAMPLE TYPE	GRAB <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> SPLIT SPOON <input checked="" type="checkbox"/> BULK <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE <input type="checkbox"/>	
BACKFILL TYPE	BENTONITE <input type="checkbox"/> GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> CUTTINGS <input type="checkbox"/> SAND <input type="checkbox"/>	



LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 16.77 m
REVIEWED BY: Alex Knop	COMPLETION DATE: 17/7/09
PROJECT ENGINEER: Ken Skaffeld	

LOG OF TEST HOLE FIG-2010-08-01-BOREHOLE LOGS-112359.GPJ UMA WINN.GDT 1/6/10

PROJECT: Mt. Nansen Mine Closure	CLIENT: Yukon Government - EMR	TESTHOLE NO: GT09-02 / MW09-22
LOCATION: Tailings Dam, on Road from South Abutment UTM N 2,097,191.5 E 118,719.0	PROJECT NO.: 112359	
CONTRACTOR: Geotech Drilling Ltd.	METHOD: Geoprobe 8040DT, Air Rotary-114 mm	ELEVATION (m): 1088.856
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE	
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> CUTTINGS <input type="checkbox"/> SAND	

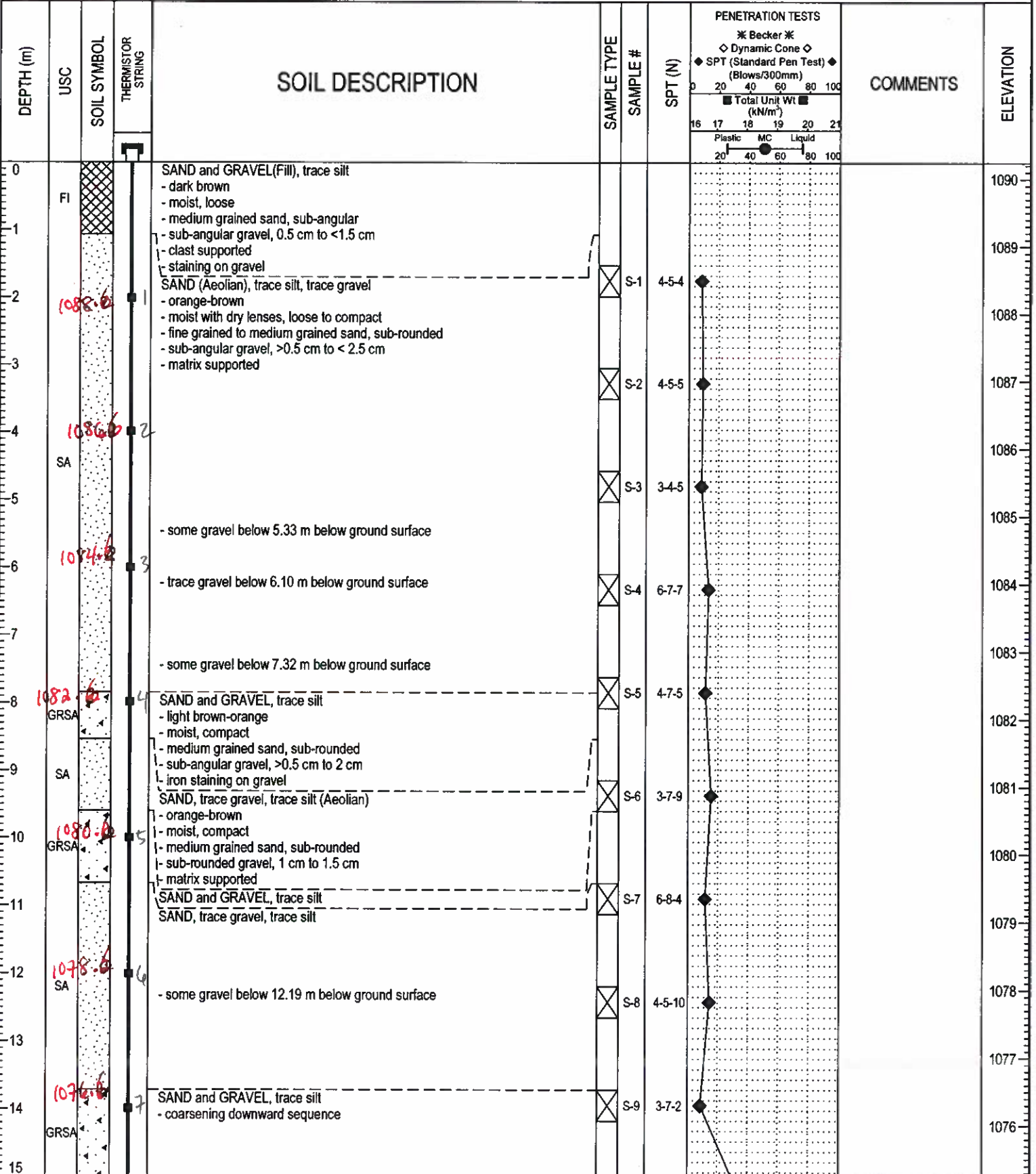
DEPTH (m)	USC	SOIL SYMBOL	THERMISTOR STRING	WELL INSTALLATION	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION
									Becker	Dynamic Cone		
15	SA											1073
16	GRSA				GRAVEL, sandy, trace silt - yellowish orange - fine grained to medium grained sand, sub-rounded - sub-angular gravel, >0.5 cm to 2 cm - clast supported			38-49-60				1072
17					END OF DRILLING at 16.77 m in permafrost (refusal)							1071
18					MW09-22 install: - Screen interval: 1.22 m - 4.27 m - Screen type: 10-Slot 2" PVC SCHED 40 - Filter pack interval: 0.92 m - 4.27 m - Bentonite seal from ground surface to 0.92 m - WL: 4.845 mTPVC (22-Jul-09, 8:33:00 AM)							1070
19					Thermistor install: - 1" PVC pipe SCHED 40 - Tip at 16.77 m below ground surface							1069
20												1068
21												1067
22												1066
23												1065
24												1064
25												1063
26												1062
27												1061
28												1060
29												1059
30												

LOG OF TEST HOLE FIG-2010-06-01-BOREHOLE LOGS-112359.GPJ LIMA WINN.GDT 1/8/10



LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 16.77 m
REVIEWED BY: Alex Knop	COMPLETION DATE: 17/7/09
PROJECT ENGINEER: Ken Skaffeld	Page 2 of 2

PROJECT: Mt. Nansen Mine Closure	CLIENT: Yukon Government - EMR	TESTHOLE NO: GT09-03
LOCATION: Tailings Dam, North Terrace UTM N 2,097,213.3 E 118,722.8		PROJECT NO.: 112359
CONTRACTOR: Geotech Drilling Ltd.	METHOD: Geoprobe 8040DT, Air Rotary-114 mm	ELEVATION (m): 1090.2 SS
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE	
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> CUTTINGS <input type="checkbox"/> SAND	



AZCOM

LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 19.87 m
REVIEWED BY: Alex Knop	COMPLETION DATE: 19/7/09
PROJECT ENGINEER: Ken Skaffeld	Page 1 of 2

PROJECT: Mt. Nansen Mine Closure	CLIENT: Yukon Government - EMR	TESTHOLE NO: GT09-03
LOCATION: Tailings Dam, North Terrace UTM N 2,097,213.3 E 118,722.8		PROJECT NO.: 112359
CONTRACTOR: Geotech Drilling Ltd.	METHOD: Geoprobe 8040DT, Air Rotary-114 mm	ELEVATION (m): 1090.255
SAMPLE TYPE	<input type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE	
BACKFILL TYPE	<input type="checkbox"/> BENTONITE <input type="checkbox"/> GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> CUTTINGS <input type="checkbox"/> SAND	

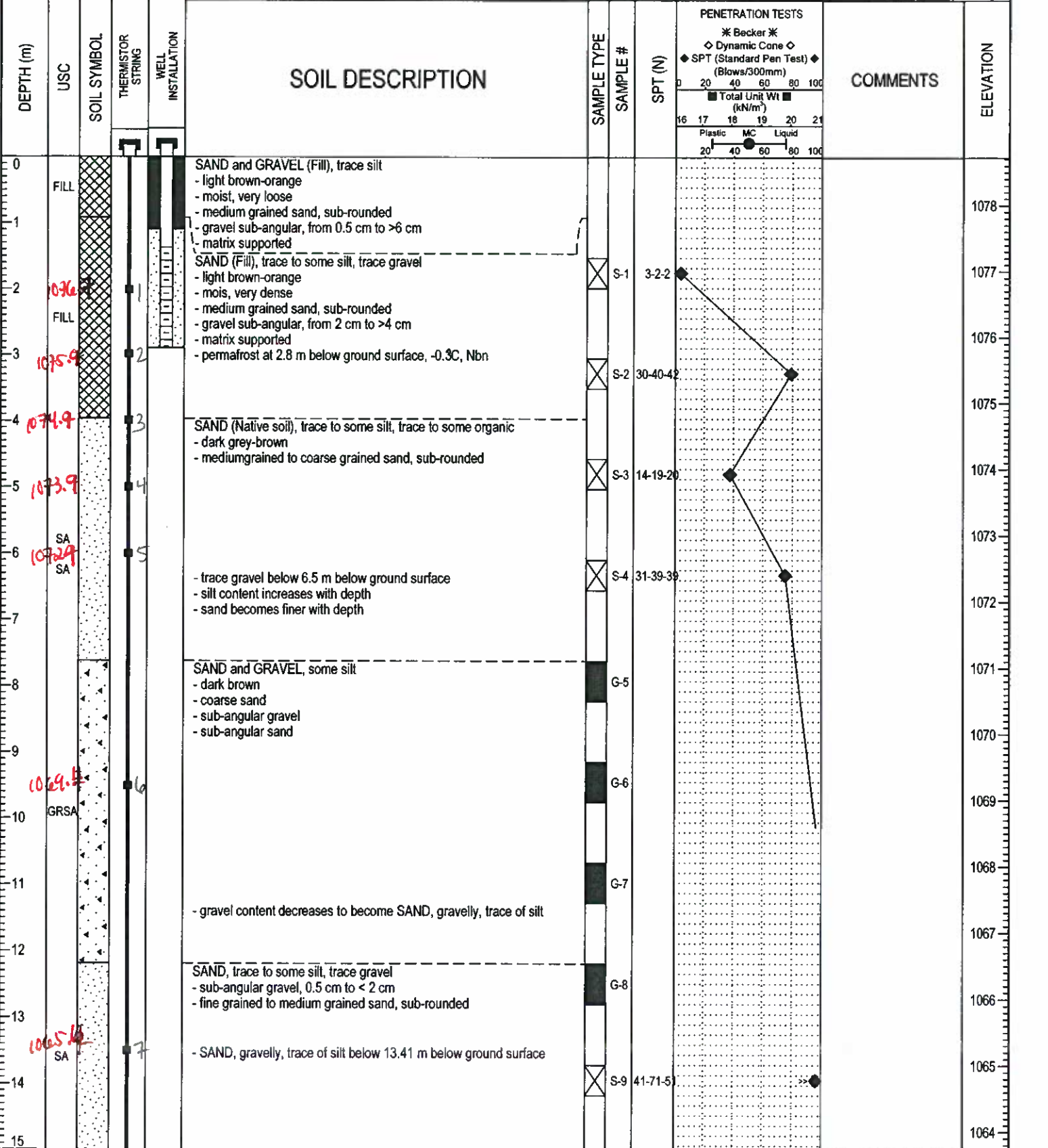
DEPTH (m)	USC	SOIL SYMBOL	THERMISTOR STRING	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION
								* Becker *	◇ Dynamic Cone ◇		
15	GRSA			GRAVEL, sandy, trace silt - coarsening downward sequence	<input checked="" type="checkbox"/>	S-10	5-24-16	40	18		1075
16	GRSA										1074
17				SAND, some silt, trace gravel - olive grey - very dense - fine grained to medium grained sand, sub-rounded - sub-angular, >0.5 cm to 1 cm - permafrost at 16.52 m below ground surface	<input checked="" type="checkbox"/>	S-11	25-52-34	80	20		1073
18	SA										1072
19											1071
20				END OF DRILLING at 19.87 m in permafrost (refusal)							1070
21				Thermistor install: - 1" PVC pipe SCHED 40 - Tip at 19.86 m below ground surface							1069
22											1068
23											1067
24											1066
25											1065
26											1064
27											1063
28											1062
29											1061
30											1060

LOG OF TEST HOLE FIG-2010-06-01-BOREHOLE LOGS-112359.GPJ UMA WINN.GDT 1/8/10



LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 19.87 m
REVIEWED BY: Alex Knop	COMPLETION DATE: 19/7/09
PROJECT ENGINEER: Ken Skaffeld	Page 2 of 2

PROJECT: Mt. Nansen Mine Closure	CLIENT: Yukon Government - EMR	TESTHOLE NO: GT09-04 / MW09-20
LOCATION: Seepage Dam Crest UTM N 2,097,202.0 E 118,747.9		PROJECT NO.: 112359
CONTRACTOR: Geotech Drilling Ltd.	METHOD: Geoprobe 8040DT, Air Rotary-114 mm	ELEVATION (m): 1078.794
SAMPLE TYPE	<input type="checkbox"/> GRAB <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPLIT SPOON <input type="checkbox"/> BULK <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE	
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> CUTTINGS <input type="checkbox"/> SAND	



LOG OF TEST HOLE FIG-2010-06-01-BOREHOLE LOGS-112359.GPJ UMA WINN GDT 1/8/10



LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 16.23 m
REVIEWED BY: Alex Knop	COMPLETION DATE: 16/7/09
PROJECT ENGINEER: Ken Skaffeld	Page 1 of 2

PROJECT: Mt. Nansen Mine Closure		CLIENT: Yukon Government - EMR		TESTHOLE NO: GT09-04 / MW09-20		
LOCATION: Seepage Dam Crest UTM N 2,097,202.0 E 118,747.9				PROJECT NO.: 112359		
CONTRACTOR: Geotech Drilling Ltd.		METHOD: Geoprobe 8040DT, Air Rotary-114 mm		ELEVATION (m): 1078.94		
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> CUTTINGS	<input type="checkbox"/> SAND

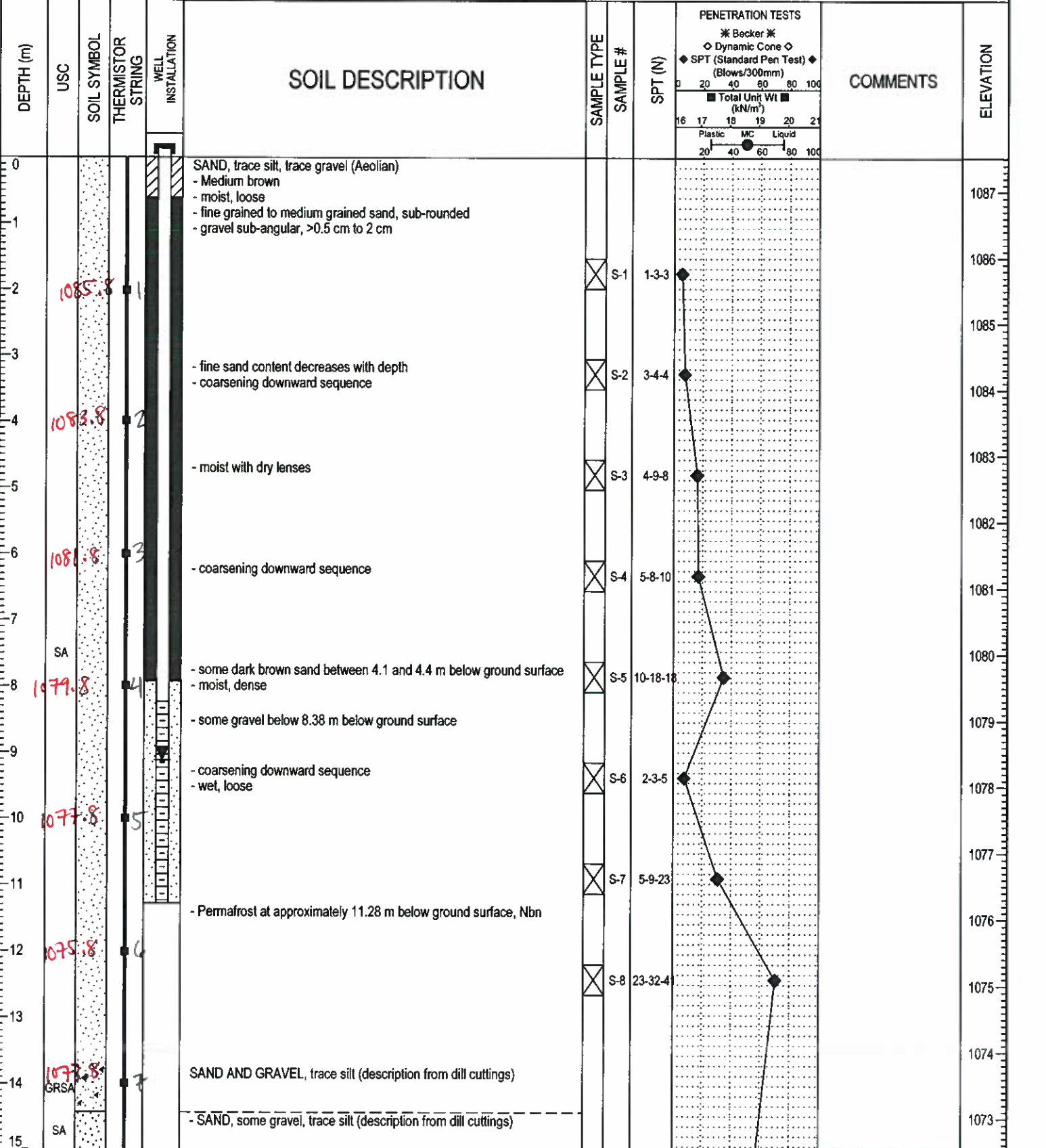
DEPTH (m)	USC	SOIL SYMBOL	THERMISTOR STRING	WELL INSTALLATION	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	SPT (N)	PENETRATION TESTS		COMMENTS	ELEVATION
									* Becker * ◇ Dynamic Cone ◇ ◆ SPT (Standard Pen Test) ◆ (Blows/300mm) Total Unit Wt (kN/m ²)	Plastic MC Liquid 20 40 60 80 100		
15	SA				SAND and GRAVEL, trace of silt - dark grey-brown - medium sand, sub-rounded - gravel sub-angular, from 0.5 cm to > 4 cm - silt content increases with depth - permafrost temperature: 0.9C description: Nbn END OF DRILLING at 16.23 m in permafrost (refusal)	<input checked="" type="checkbox"/> S-10		67				1063
16	GRSA											1062
17												1061
18												1060
19												1059
20												1058
21												1057
22												1056
23												1055
24												1054
25												1053
26												1052
27												1051
28												1050
29												1049
30												1049



LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 16.23 m
REVIEWED BY: Alex Knop	COMPLETION DATE: 16/7/09
PROJECT ENGINEER: Ken Skaffeld	Page 2 of 2

LOG OF TEST HOLE FIG-2010-08-01-BOREHOLE LOGS-112359.GPJ UMA WINN.GDT 1/6/10

PROJECT: Mt. Nansen Mine Closure		CLIENT: Yukon Government - EMR		TESTHOLE NO: GT09-05 / MW09-24		
LOCATION: North terrace, near Seepage Dam UTM N 2,097,214.2 E 118,738.1				PROJECT NO.: 112359		
CONTRACTOR: Geotech Drilling Ltd.		METHOD: Geoprobe 8040DT, Air Rotary-114 mm		ELEVATION (m): 1087.5 <i>1087.8</i>		
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> CUTTINGS	<input type="checkbox"/> SAND

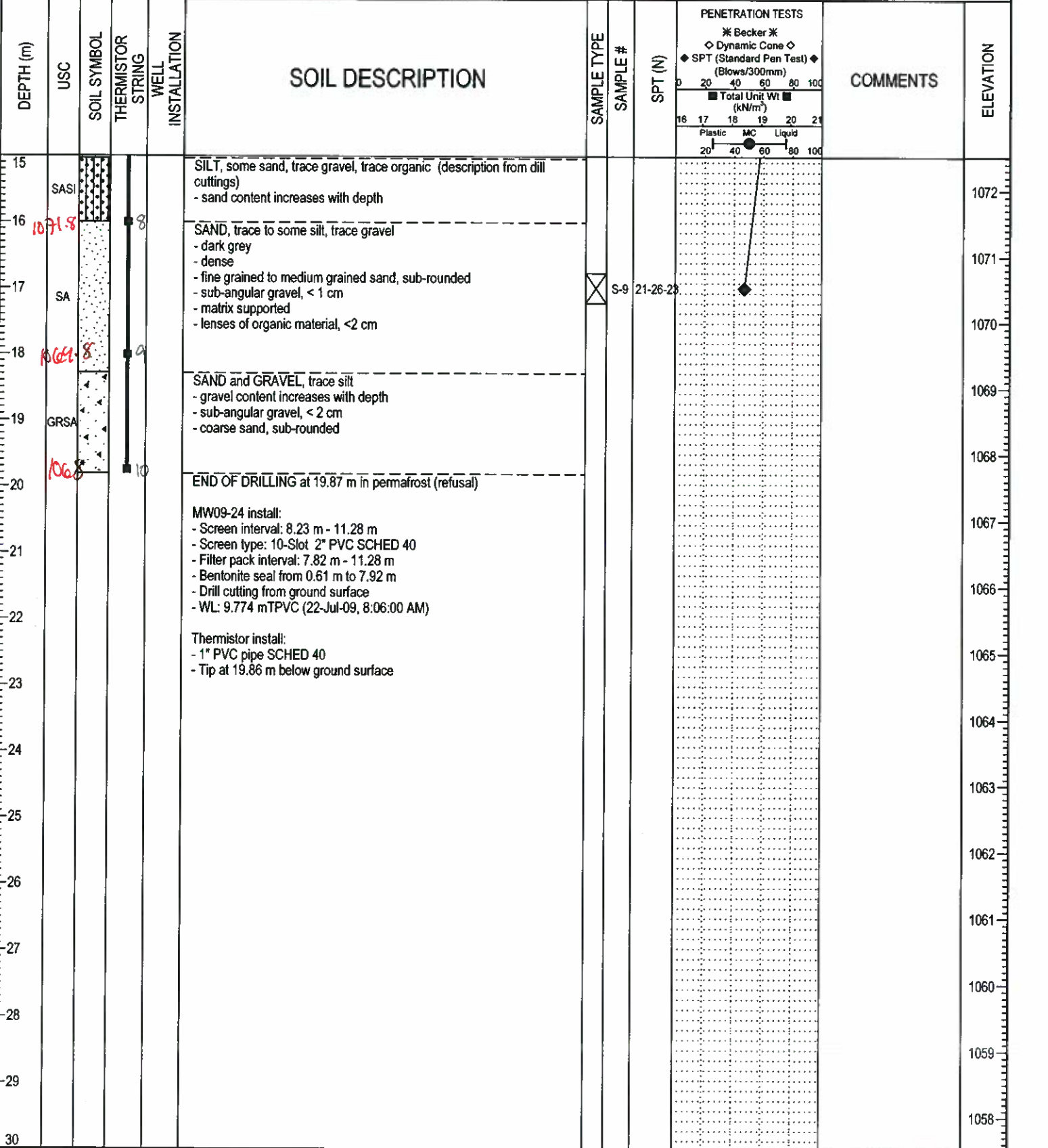


LOG OF TEST HOLE FIG-2010-06-01 BOREHOLE LOGS-112359.GPJ UMA WINN.GDT 1/6/10



LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 19.87 m
REVIEWED BY: Alex Knop	COMPLETION DATE: 21/7/09
PROJECT ENGINEER: Ken Skaffeld	Page 1 of 2

PROJECT: Mt. Nansen Mine Closure		CLIENT: Yukon Government - EMR		TESTHOLE NO: GT09-05 / MW09-24	
LOCATION: North terrace, near Seepage Dam UTM N 2,097,214.2 E 118,738.1				PROJECT NO.: 112359	
CONTRACTOR: Geotech Drilling Ltd.		METHOD: Geoprobe 8040DT, Air Rotary-114 mm		ELEVATION (m): 4087.5 / 1087.8	
SAMPLE TYPE		METHOD		ELEVATION (m)	
<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE
BACKFILL TYPE		METHOD		ELEVATION (m)	
<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> CUTTINGS	<input type="checkbox"/> SAND



LOG OF TEST HOLE FIG-2010-06-01-BOREHOLE LOGS-112359.GPJ UMA WINN.GDT 1/6/10



LOGGED BY: Marc Lavigne	COMPLETION DEPTH: 19.87 m
REVIEWED BY: Alex Knop	COMPLETION DATE: 21/7/09
PROJECT ENGINEER: Ken Skaffeld	Page 2 of 2

APPENDIX F

2016 DATA COLLECTION SHEETS FOR THERMISTOR AND PIEZOMETER READINGS

(Excel File to be used by YG is included with report PDF)

MT. NANSEN PIEZOMETER FIELD DATA SHEET

Date: _____ Technician: _____ Outside Temp: _____
 Updated March 2016

Borehole	Piezometer No.	Reading (psi)	Bypass Position	Comments
EBA BH01	22715		Bypass Open	
			Bypass Closed	
EBA BH03	19172		Bypass Open	
			Bypass Closed	
	22592		Bypass Open	
			Bypass Closed	
	22793		Bypass Open	
			Bypass Closed	
EBA BH05	22714		Bypass Open	
			Bypass Closed	
	22716		Bypass Open	
			Bypass Closed	
EBA BH07	22718		Bypass Open	
			Bypass Closed	
	22719		Bypass Open	
			Bypass Closed	
	22721		Bypass Open	
			Bypass Closed	
W14103083-BH01	34991		Bypass Open	
			Bypass Closed	
Measured Depth to Water from Ground Surface (m):				
W14103083-BH02	34992		Bypass Open	
			Bypass Closed	
Measured Depth to Water from Ground Surface (m):				
W14103083-BH04	34990		Bypass Open	
			Bypass Closed	
	34989		Bypass Open	
			Bypass Closed	
Measured Depth to Water from Ground Surface (m)				

Seepage Pond Staff Gauge Reading or Top of Ice (m): _____
 Seepage Pond Flow Meter: _____ L/min

Tailings Pond Staff Gauge Reading or Top of Ice (m) _____
 Staff Gauge 1 or 2?: _____