

APPENDIX C

GROUND TEMPERATURES

PART

OF

CLOSURE PLAN FOR

TAILINGS CONTAINMENT AREA

Prepared for

Kinross Gold Corporation

LUPIN OPERATION

LIST OF FIGURES

Figure C 1. General thermistor location plan.....	1
Figure C 2. Thermistors at Dam 1a.....	2
Figure C 3. Thermistors at Dam 2	3
Figure C 4. Thermistors at Dam 4	4
Figure C 5. Thermistors in Cell 1 and Dam 3D.....	5
Figure C 6. Thermistors in Cell 3b and K Dam.....	6
Figure C 7. Ground temperatures at 20m depth at Dams 1 and 2.....	7
Figure C 8. Ground temperatures in Cells at 12 to 20m depth	8
Figure C 9. Ground temperature regime at Dam 1a (Thermistor D1A-00-1s)	9
Figure C 10. Ground temperature regime at Dam 2 (Thermistor D2-00-2n)	9
Figure C 11. Ground temperature regime at Dam 4 (Thermistor D4-1).....	10
Figure C 12. Ground temperature regime at Dam 4 (Thermistor D4-3).....	10
Figure C 13. Ground temperature regime at Dam 4 (Thermistor D4-4).....	11
Figure C 14. Ground temperature regime at K Dam (Thermistor DK-3).....	11
Figure C 15. Ground temperature regime at Cell 1 Test Pad (Thermistor TC1-3).....	12
Figure C 16. Ground temperature regime at Esker (Thermistor).....	12
Figure C 17. Ground temperature regime at Dam 3D (Thermistor D3D -1).....	13
Figure C 18. Ground temperature regime in tailings Cell 1, near 3D Dam.....	13
Figure C 19 Ground temperature regime at Cell 1, north end (TC1-3)	14
Figure C 20. Thaw surface progress with time near Dam 3D	14
Figure C 21. Thaw depth with time at K Dam (Thermistors DK-3 and TC3-1)	15

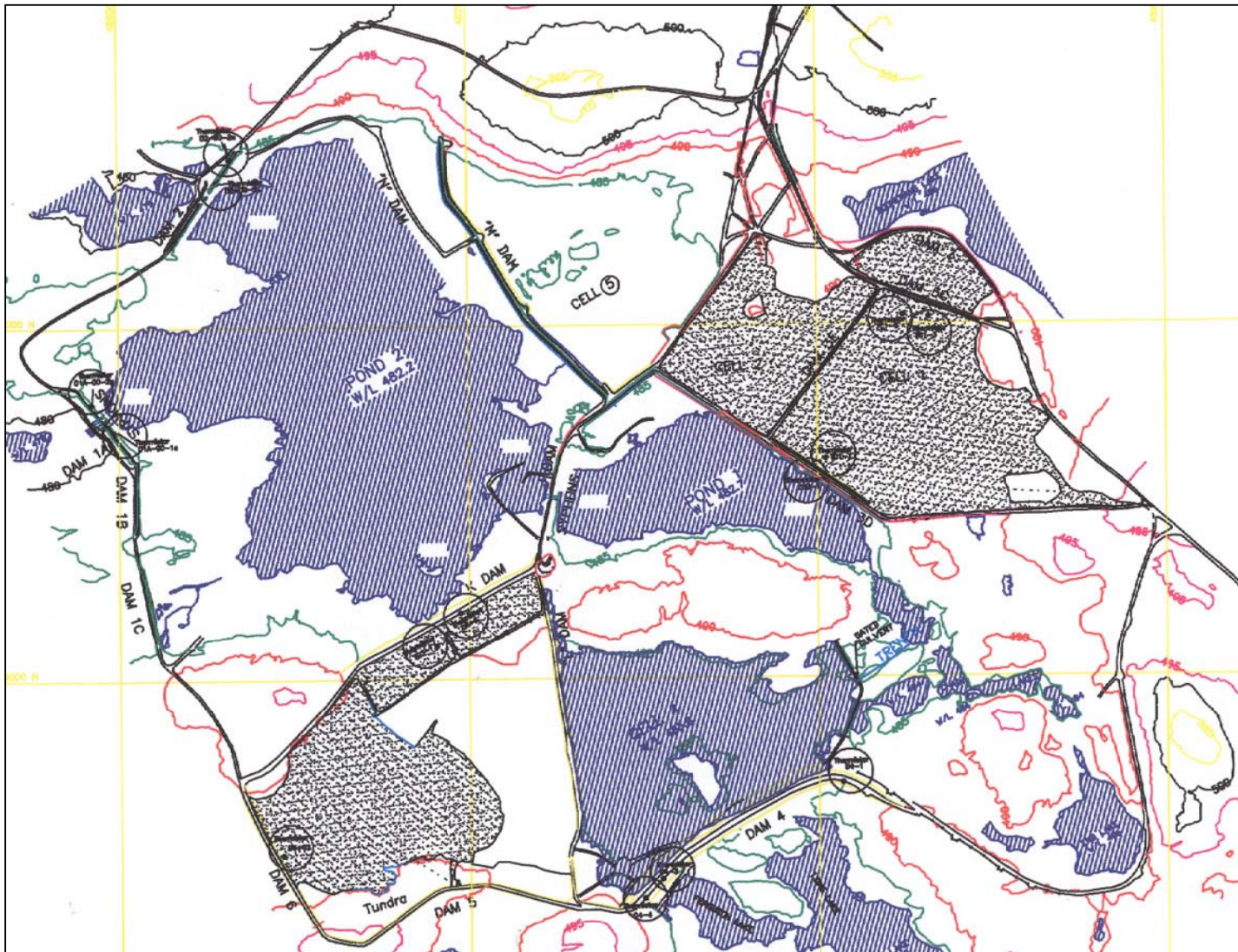


Figure C 1. General thermistor location plan

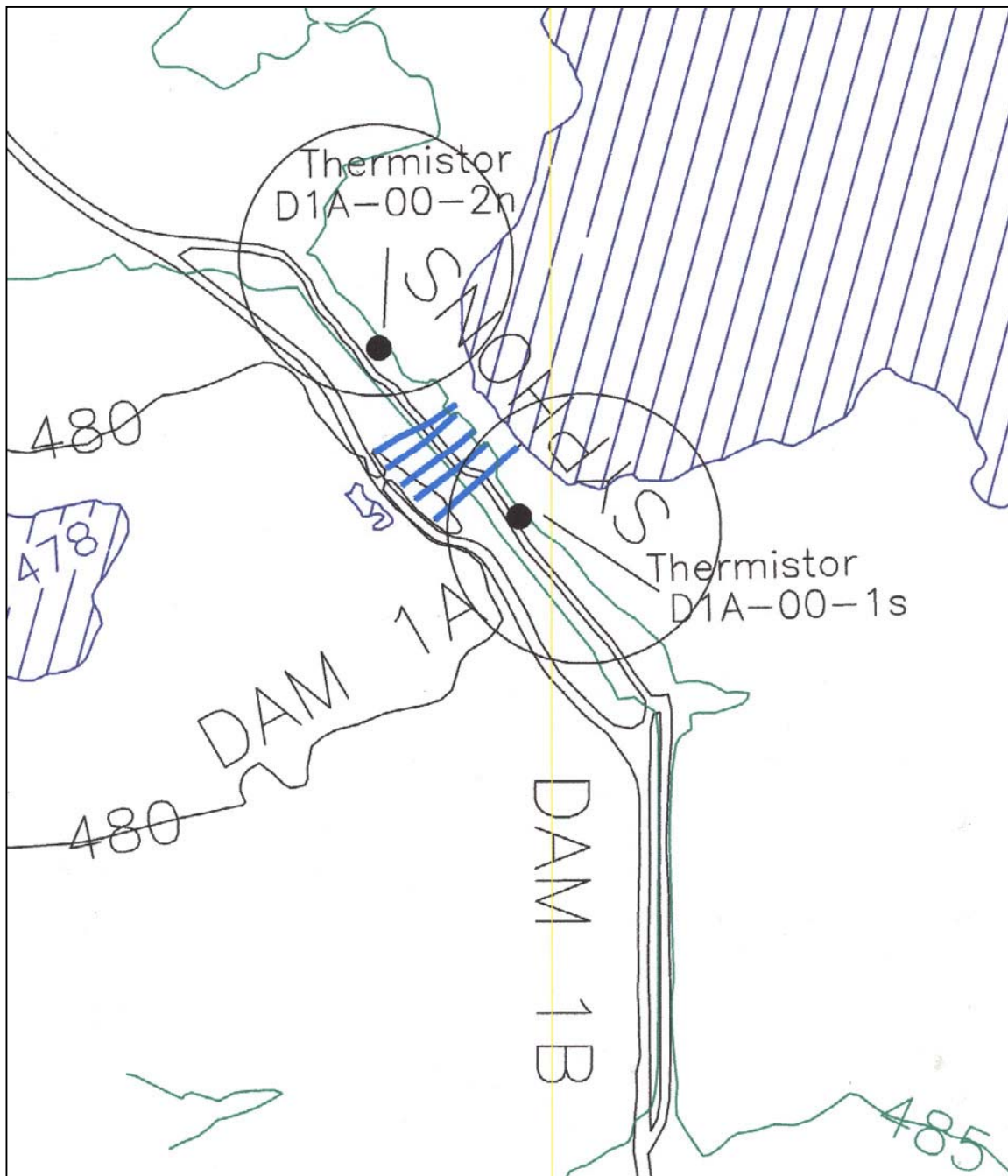


Figure C 2. Thermistors at Dam 1a



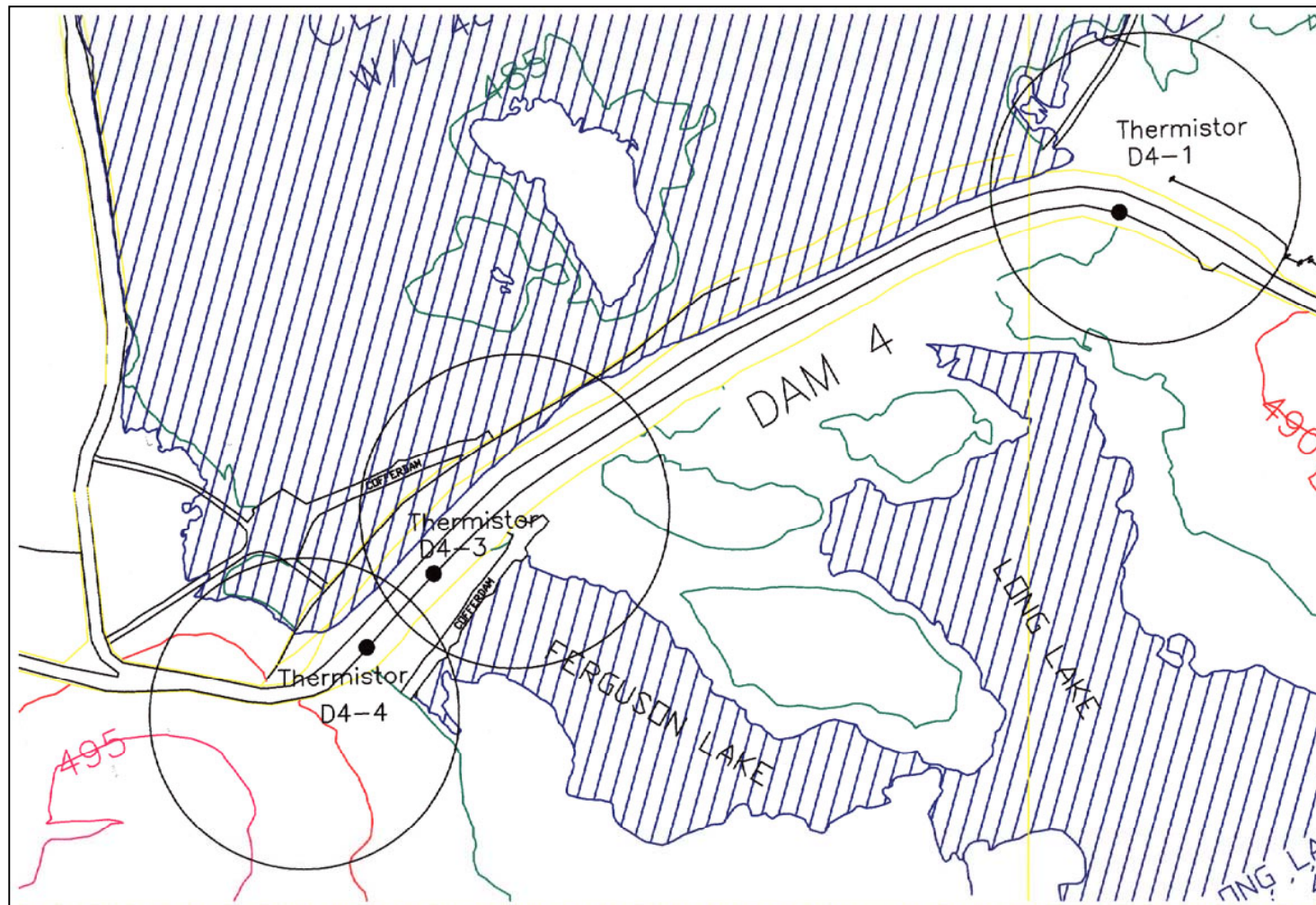


Figure C 4. Thermistors at Dam 4

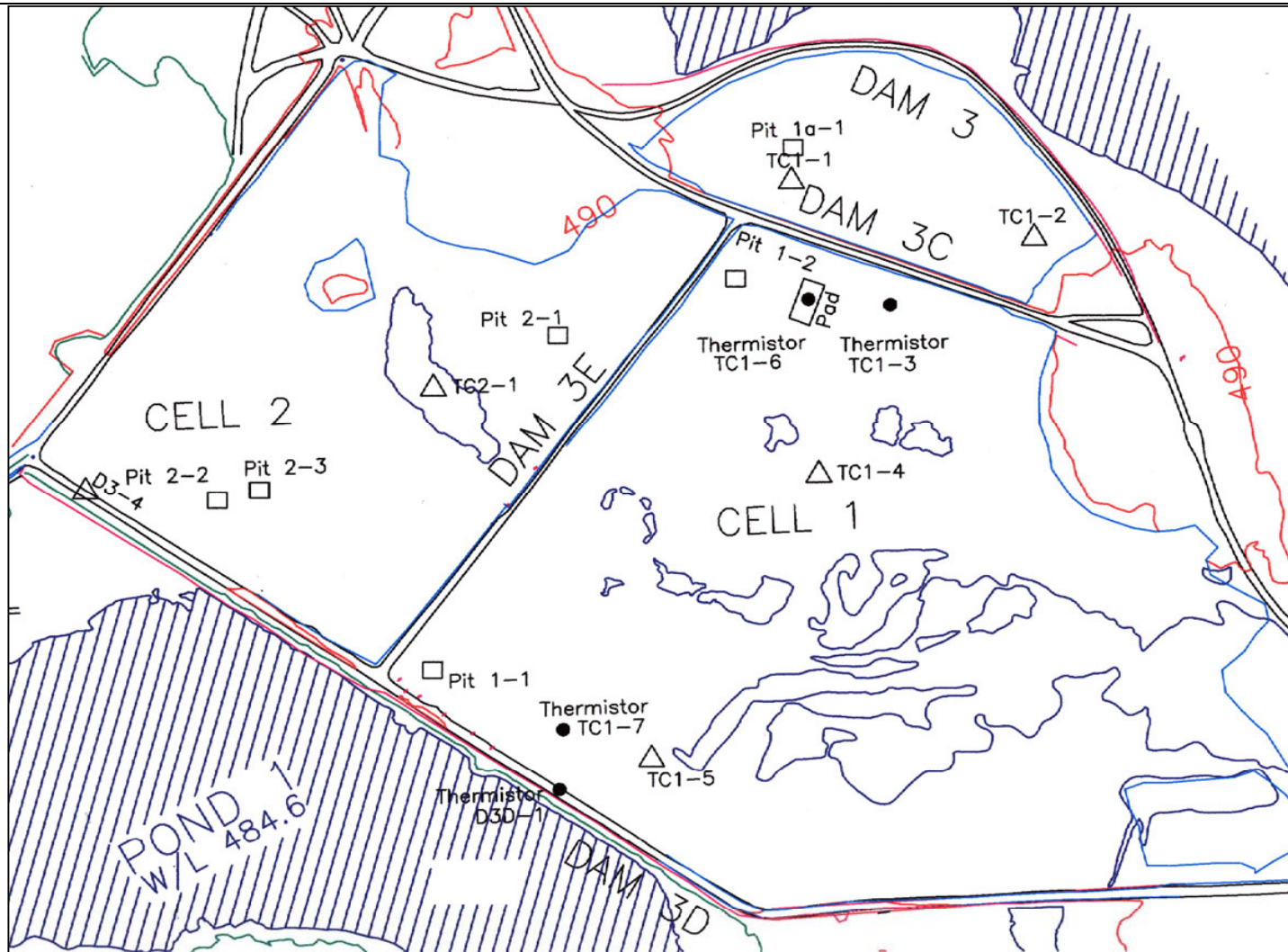


Figure C 5. Thermistors in Cell 1 and Dam 3D

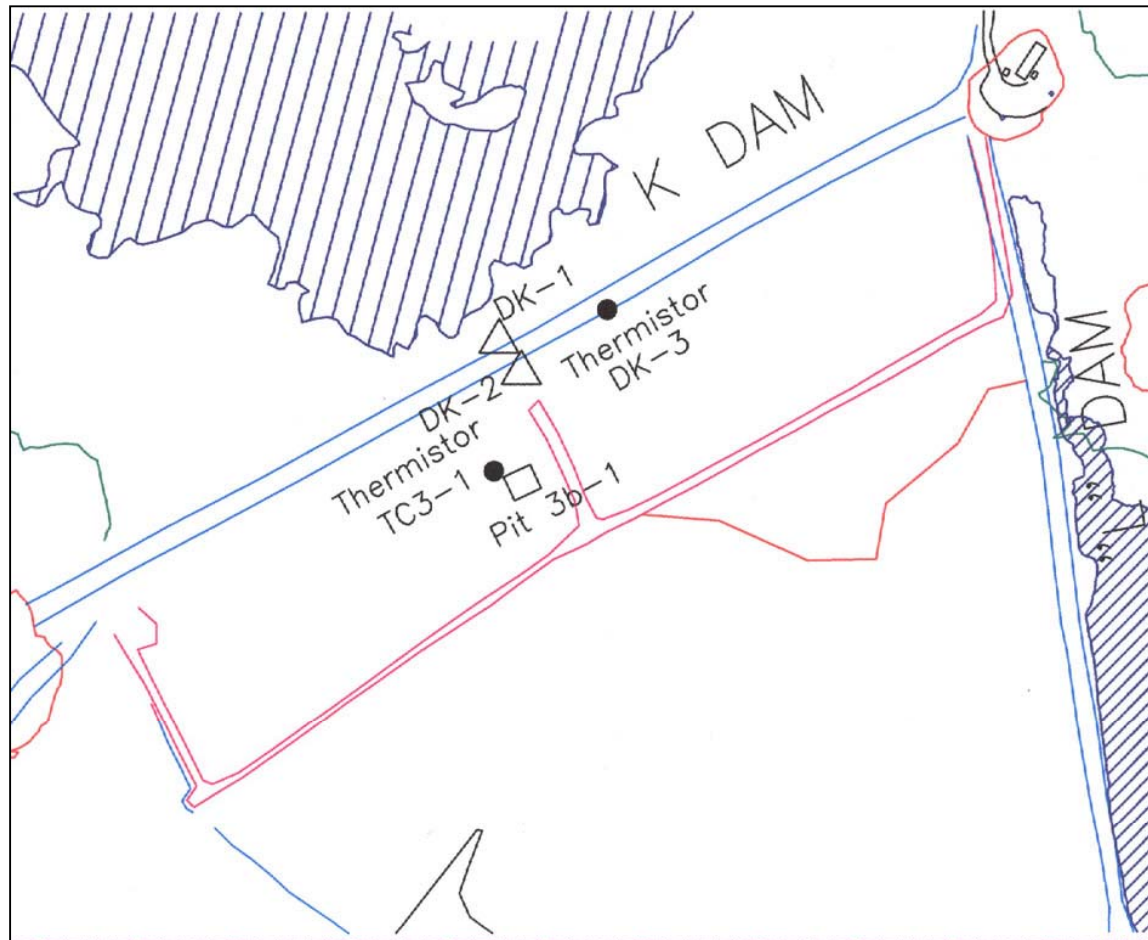


Figure C 6. Thermistors in Cell 3b and K Dam

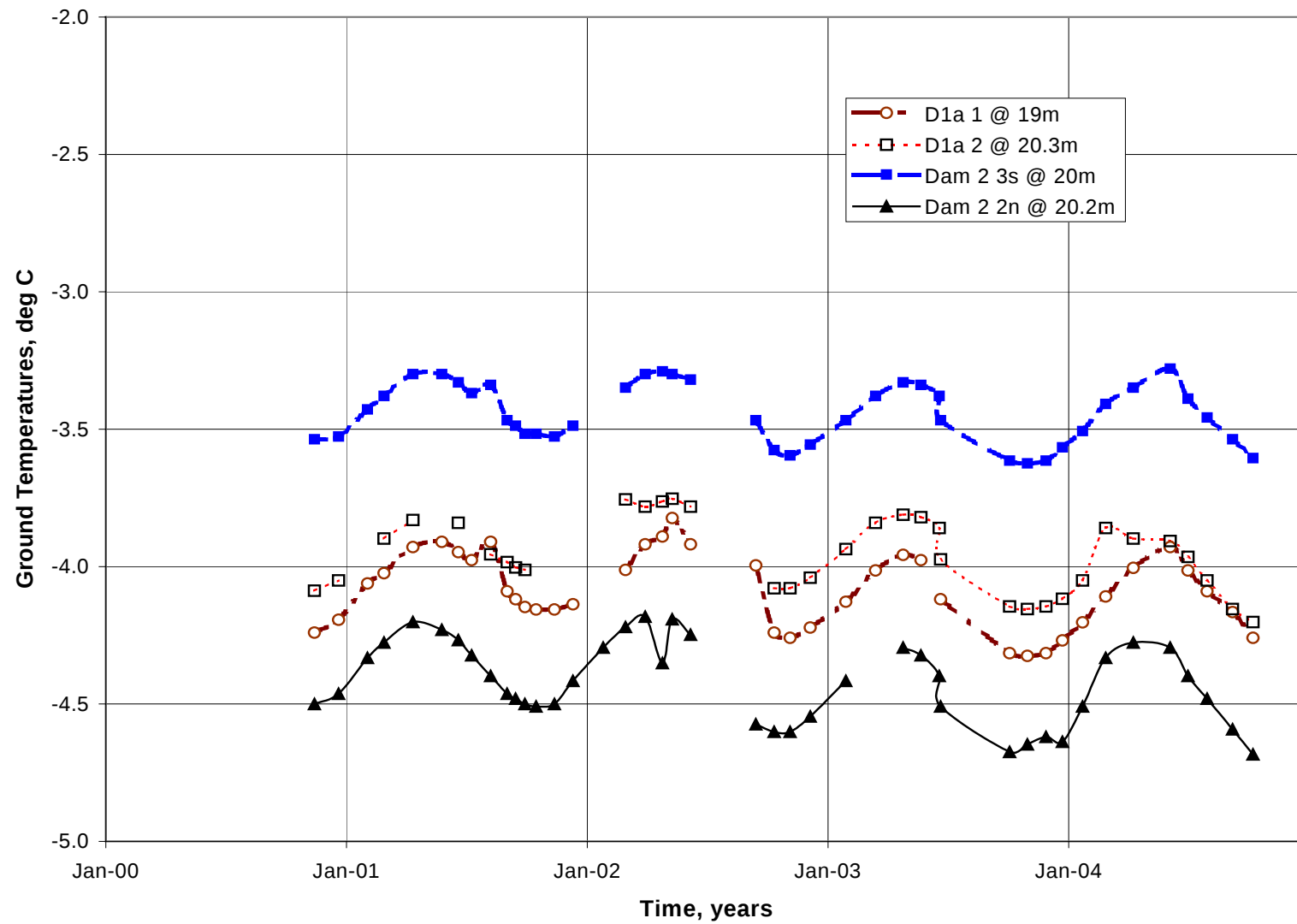
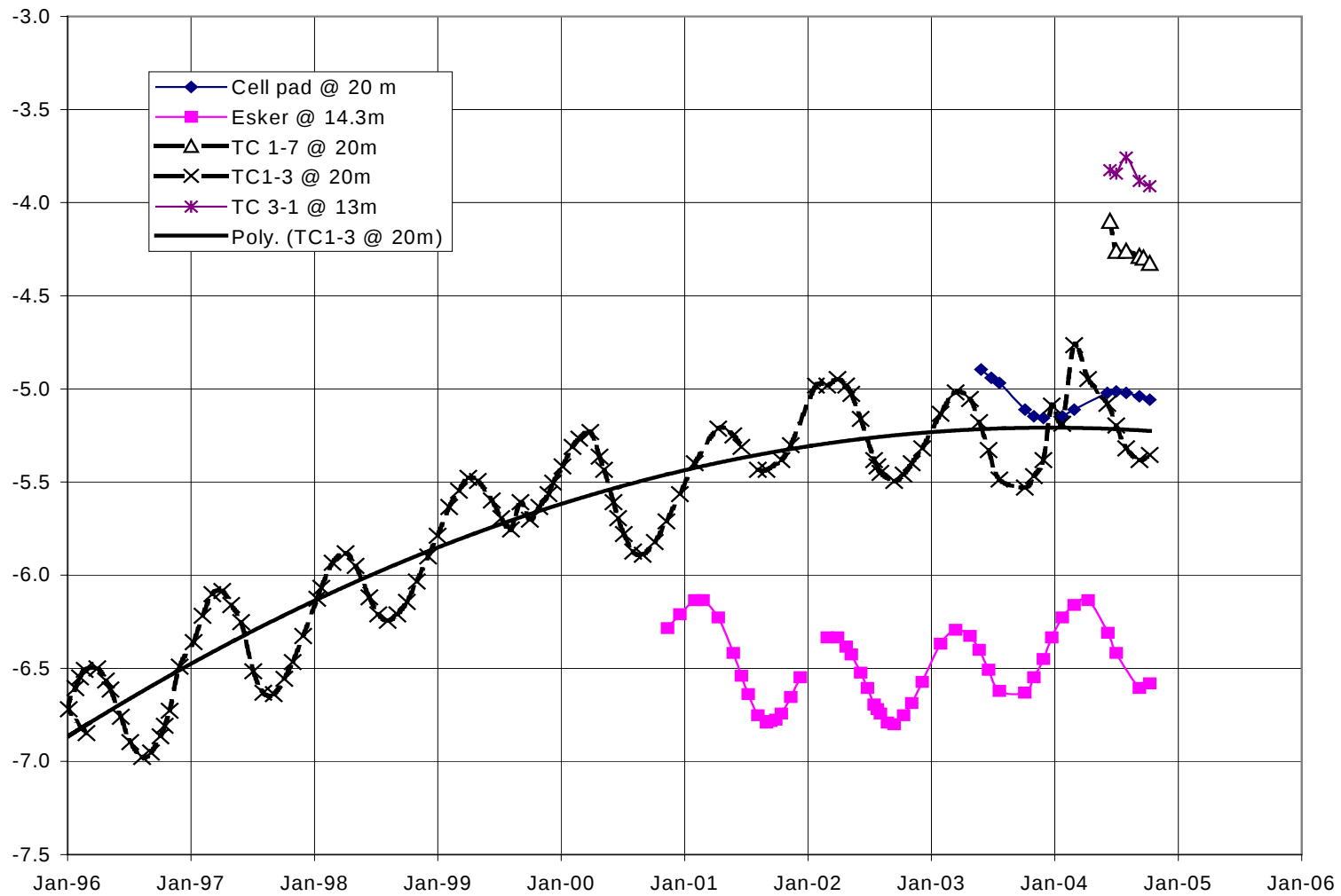


Figure C 7. Ground temperatures at 20m depth at Dams 1 and 2



**Figure C 8. Ground temperatures in Cells at 12 to 20m depth
ground temperatures in Cell 1 from 1980 to 2004**

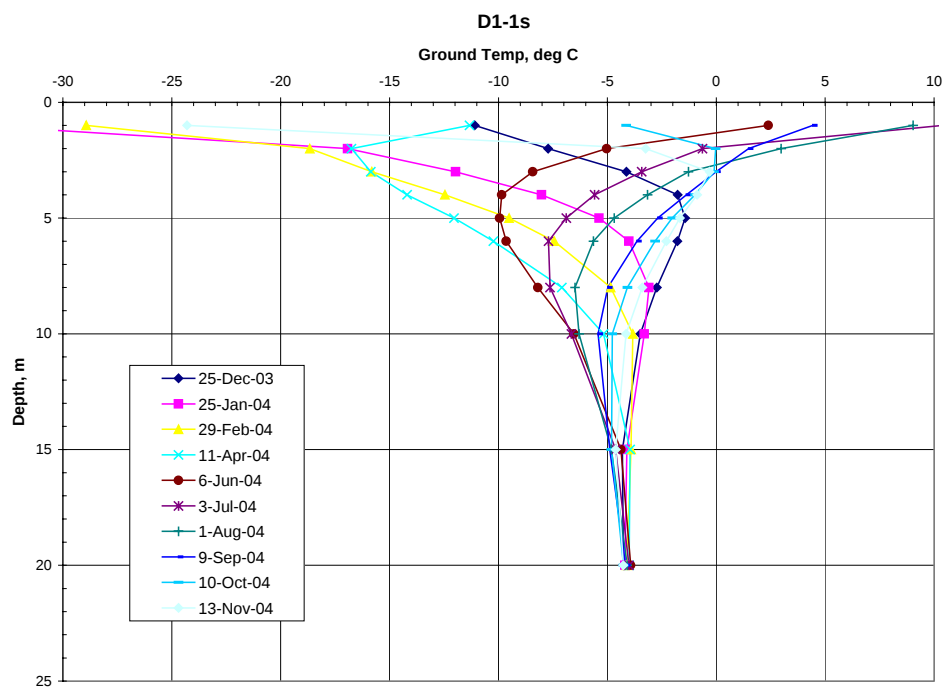


Figure C 9. Ground temperature regime at Dam 1a (Thermistor D1A-00-1s)

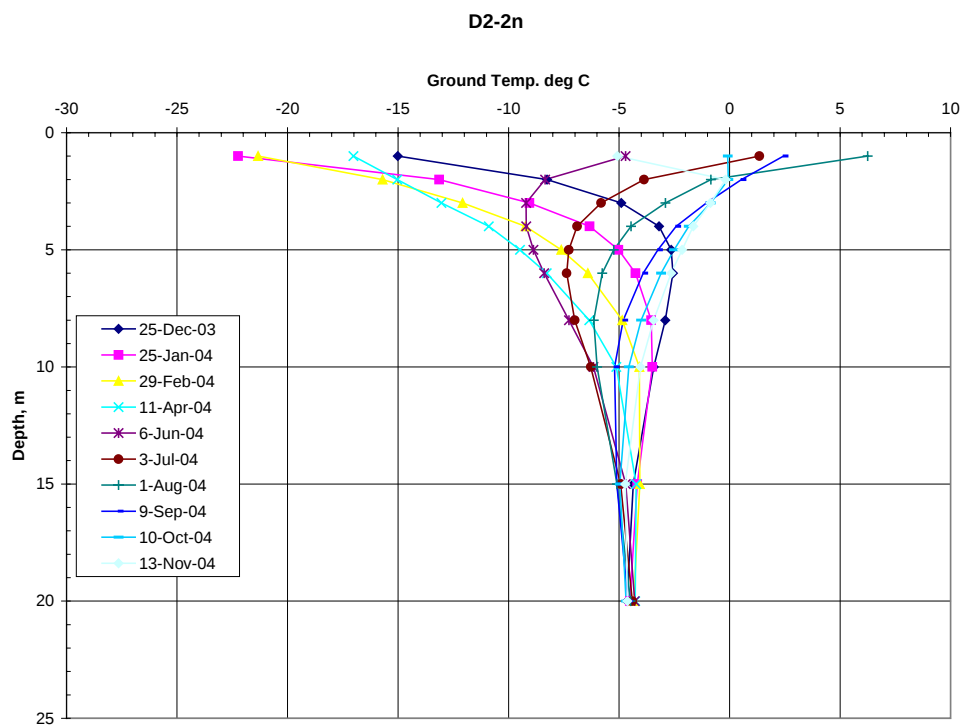


Figure C 10. Ground temperature regime at Dam 2 (Thermistor D2-00-2n)

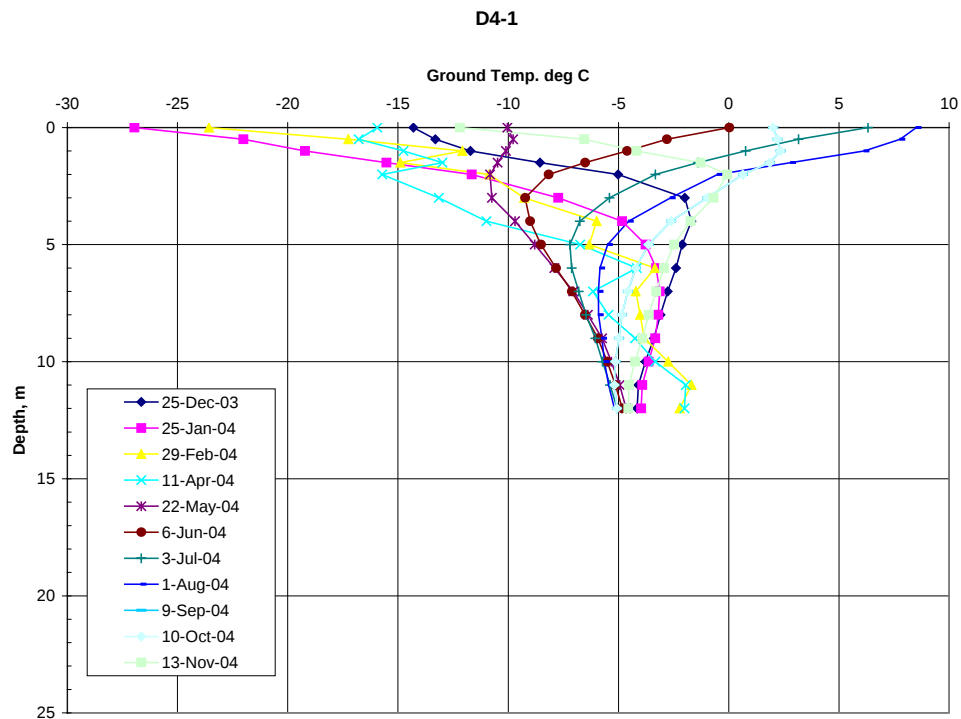


Figure C 11. Ground temperature regime at Dam 4 (Thermistor D4-1)

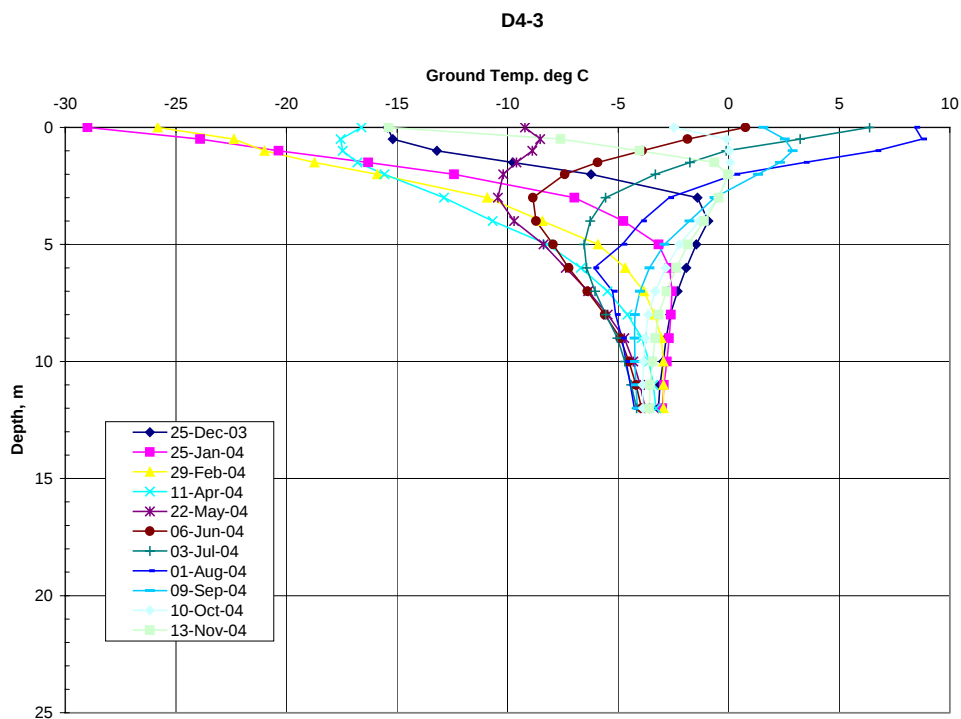


Figure C 12. Ground temperature regime at Dam 4 (Thermistor D4-3)

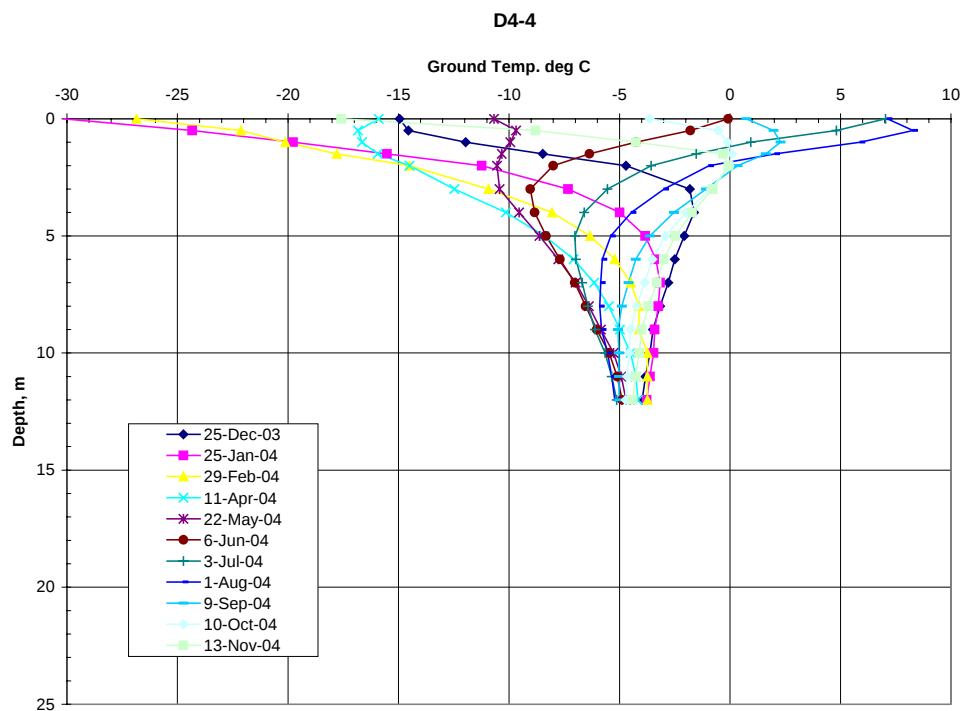


Figure C 13. Ground temperature regime at Dam 4 (Thermistor D4-4)

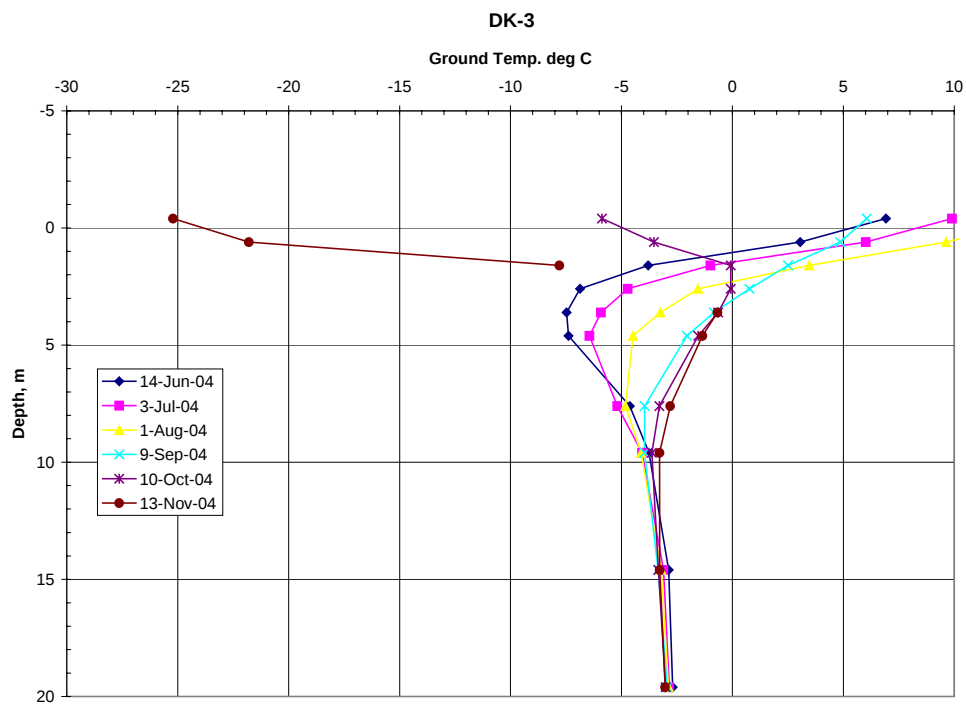


Figure C 14. Ground temperature regime at K Dam (Thermistor DK-3)

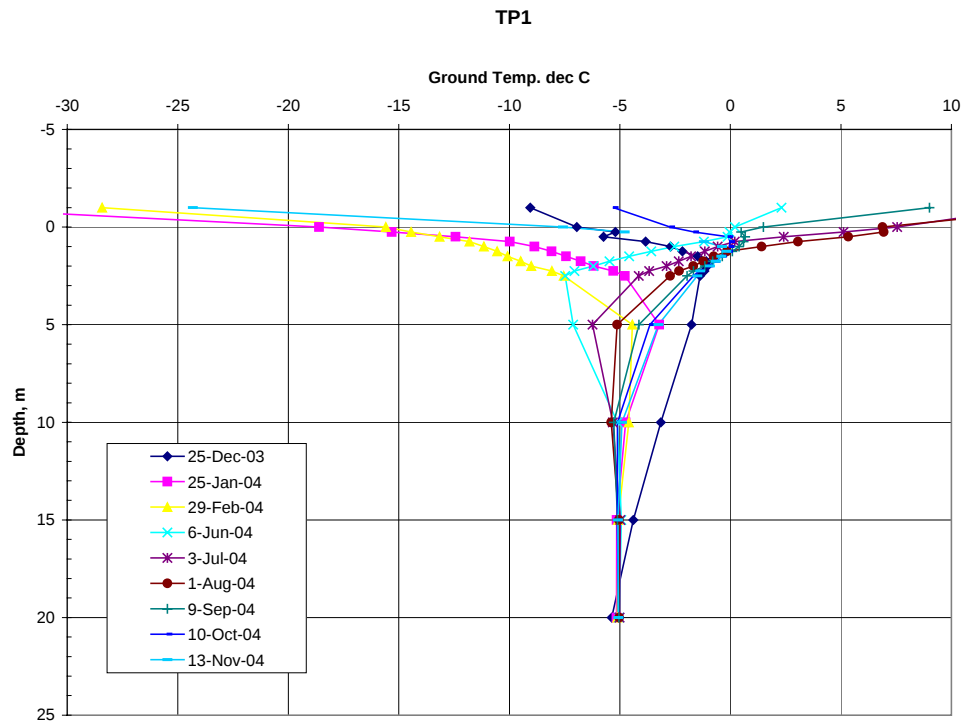


Figure C 15. Ground temperature regime at Cell 1 Test Pad (Thermistor TC1-3)

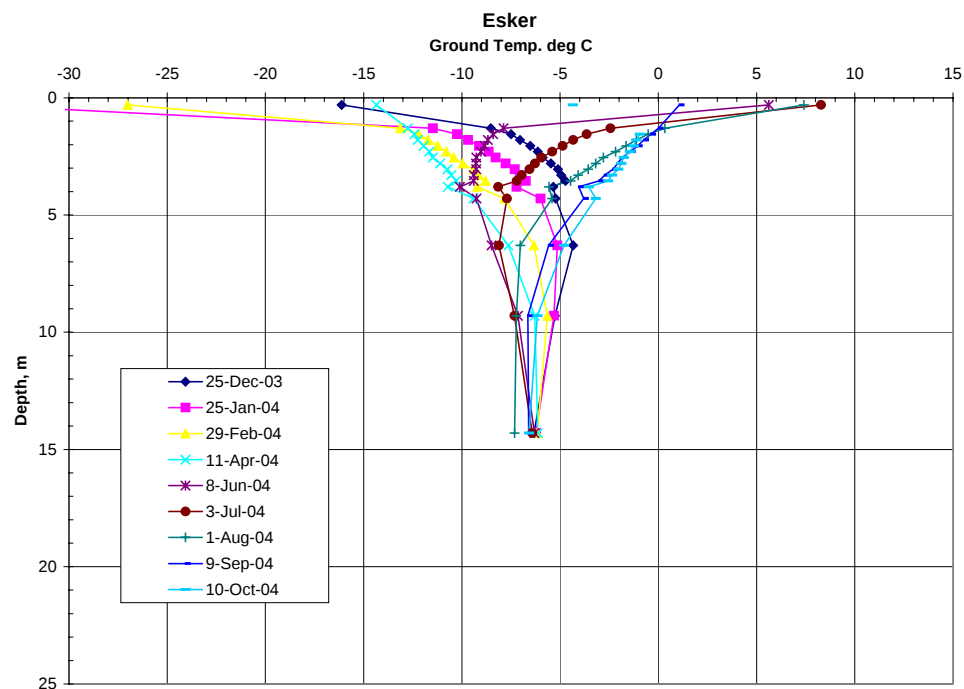


Figure C 16. Ground temperature regime at Esker (Thermistor)

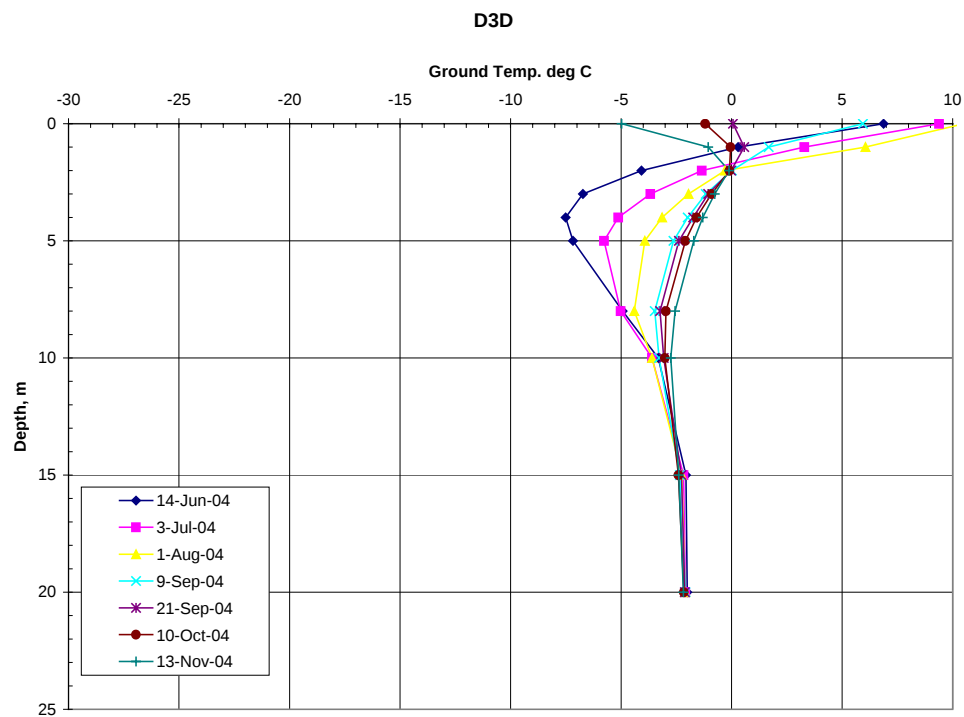


Figure C 17. Ground temperature regime at Dam 3D (Thermistor D3D -1)

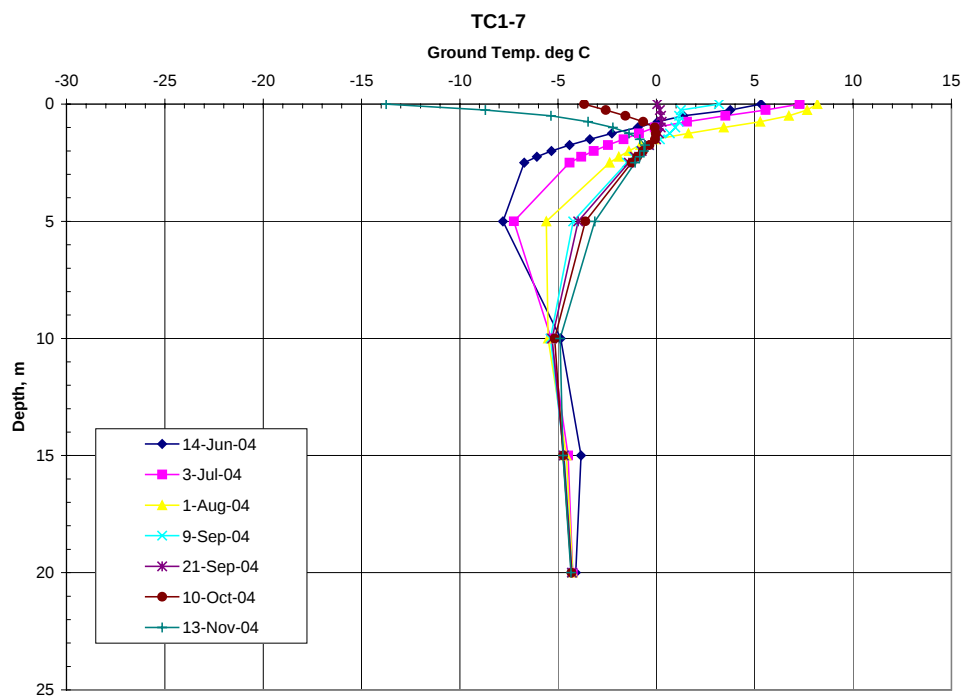


Figure C 18. Ground temperature regime in tailings Cell 1, near 3D Dam
(Thermistor TC1-7)

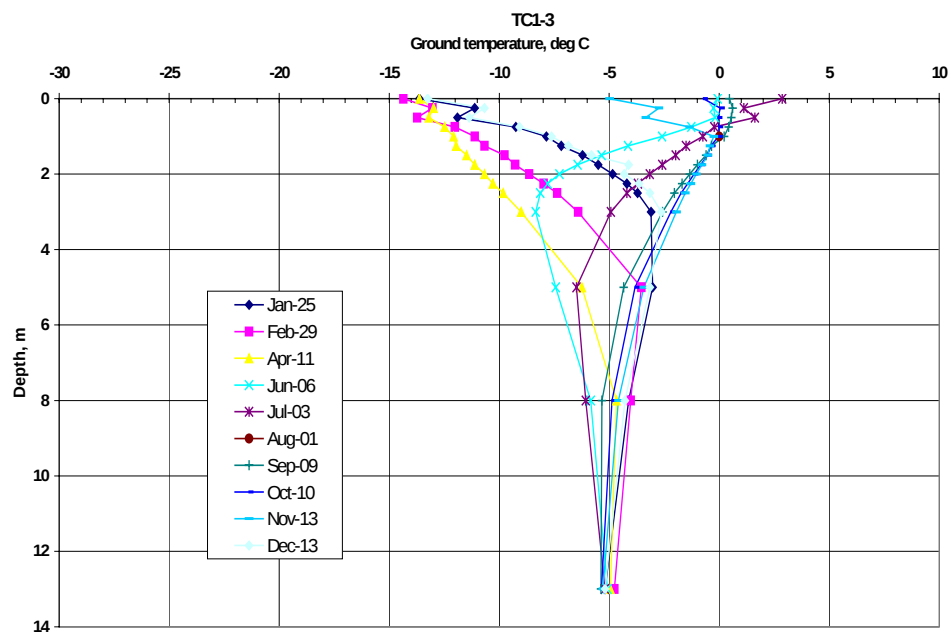


Figure C 19 Ground temperature regime at Cell 1, north end (TC1-3)

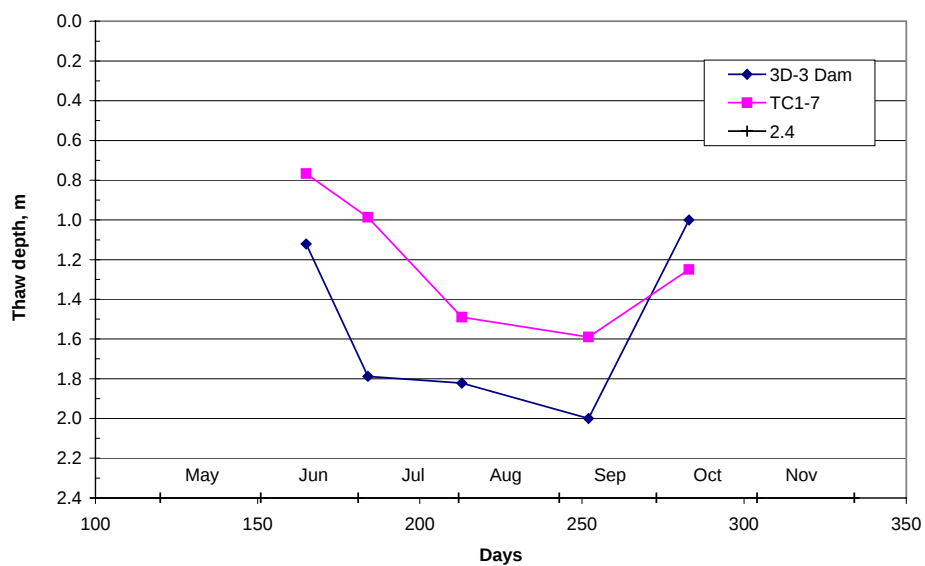


Figure C 20. Thaw surface progress with time near Dam 3D

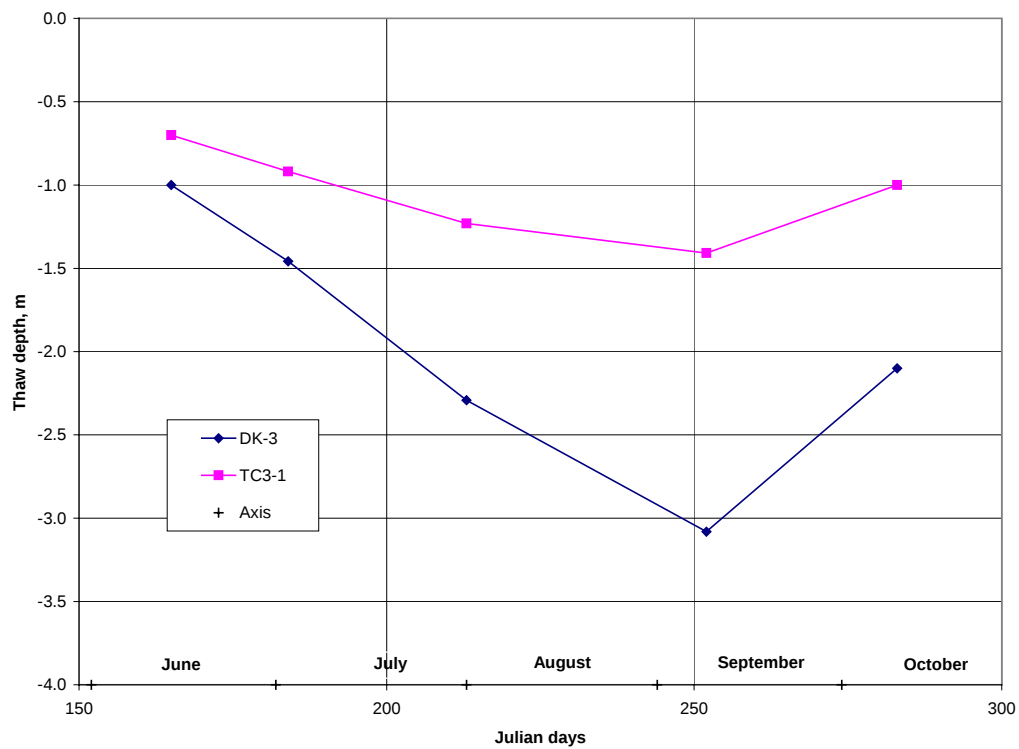


Figure C 21. Thaw depth with time at K Dam (Thermistors DK-3 and TC3-1)