

Figure 1. Lupin mine, Contwoyto Lake, NWT.

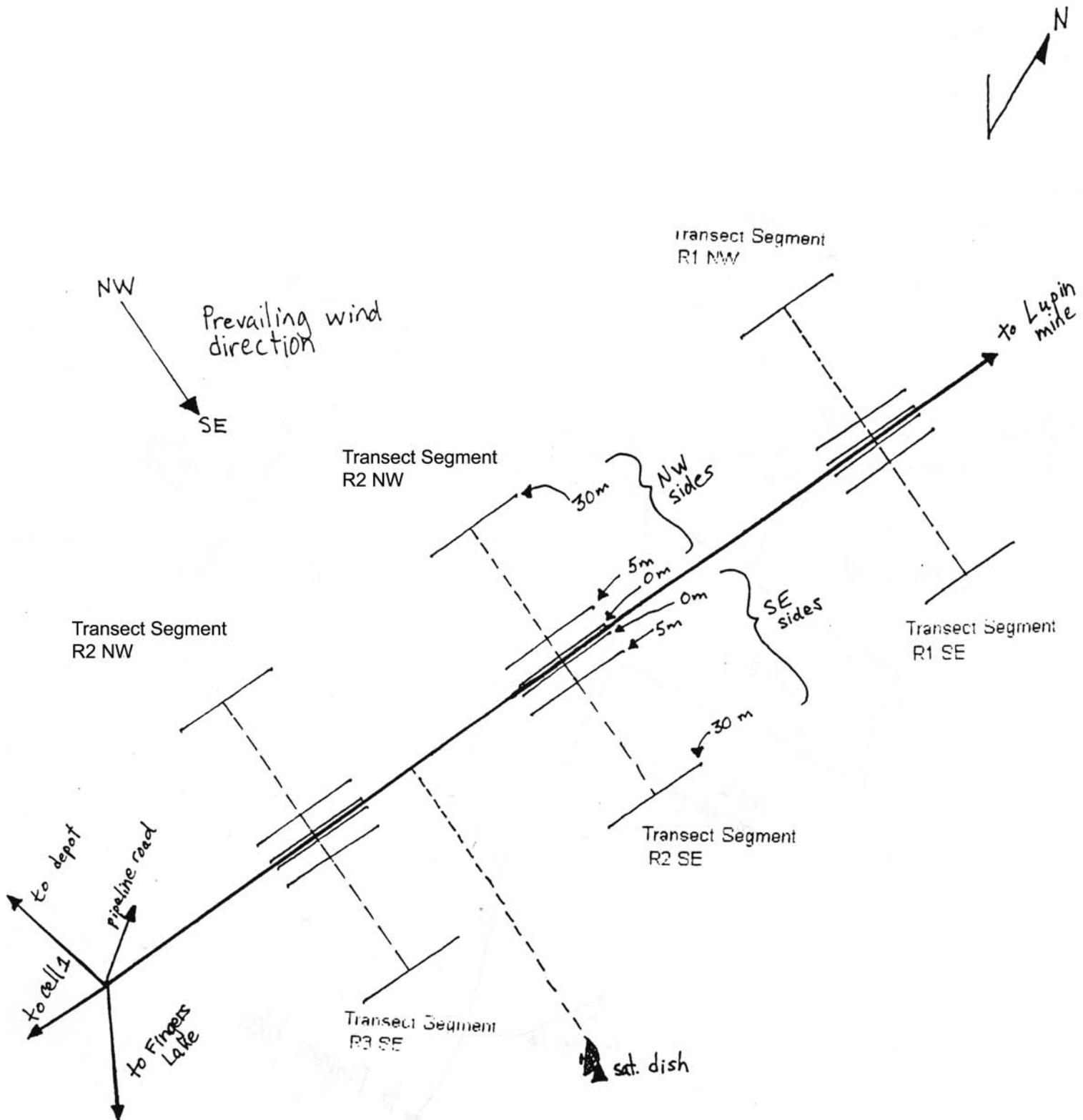


Figure 2. Transects along the road to the tailings area for dust collection and vegetation sample sites, Lupin mine, NWT, 1996-97.

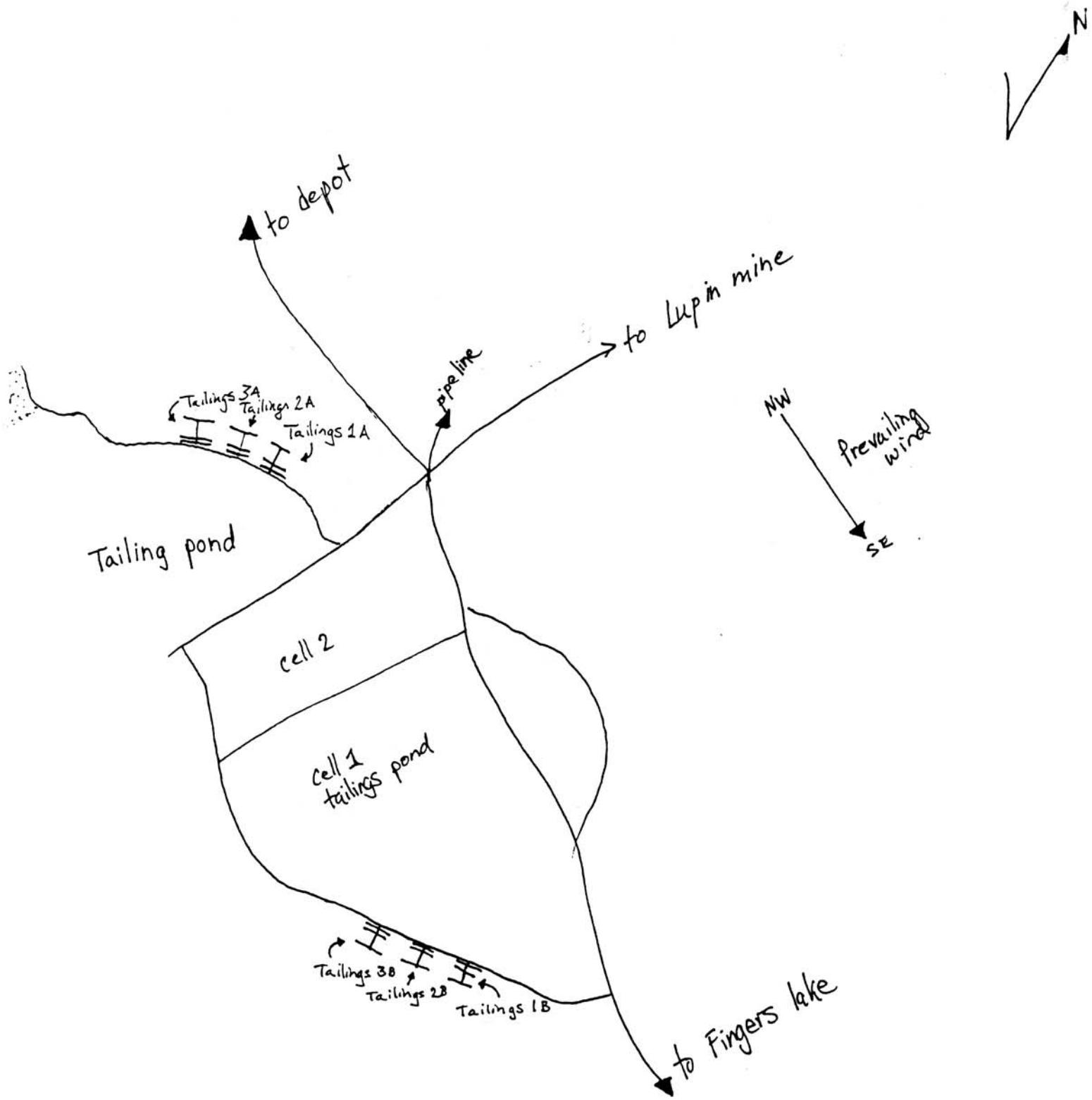


Figure 3. Transects at the tailings area for dust collection and vegetation sample sites, Lupin mine, NWT, 1996-97.

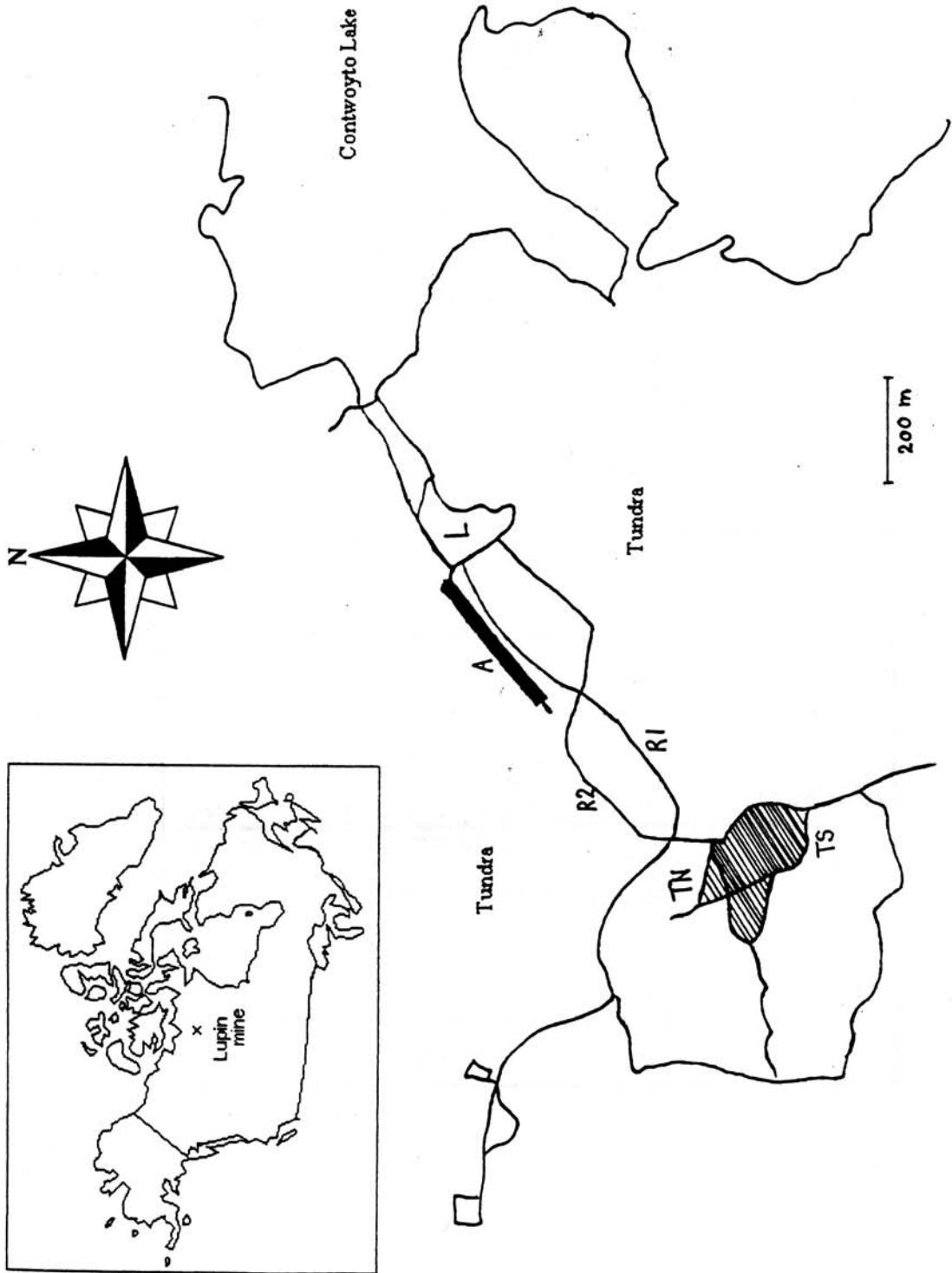


Figure 1. Lupin mine local situation map, showing roads and tailing pond study sites. L = Lupin mine complex; R1 & R2 = road study sites; TN & TS = north and south tailing pond study sites; A = airstrip. For a geographic position of the Lupin mine at $65^{\circ} 46' N$ and $111^{\circ} 14' W$, see insert.

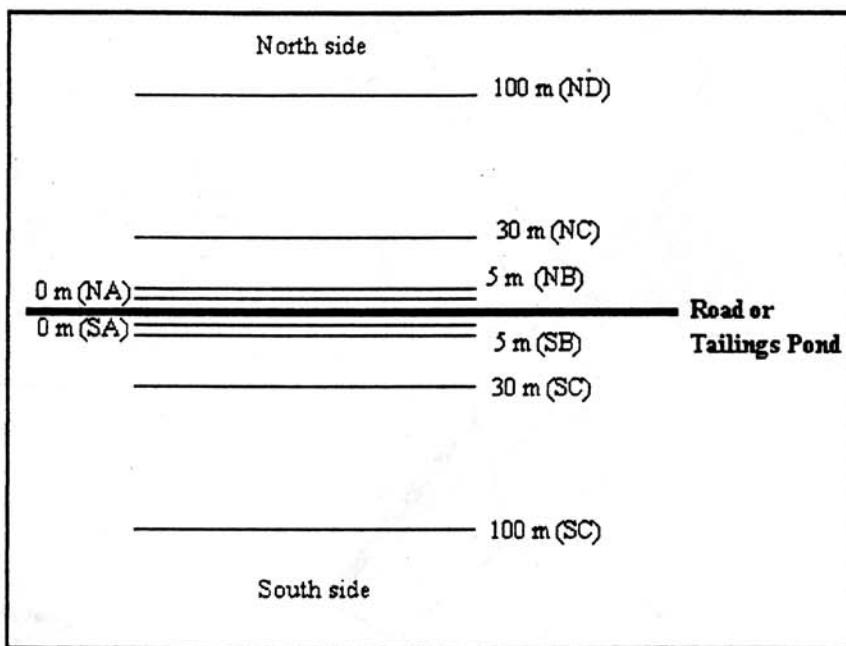


Figure 2. Design of sampling zones at the road and tailings sites. The zones were spaced at 0 m (margins of road and tailings pond), 5 m, 30 m, and 100 m distances and were 1 m wide.

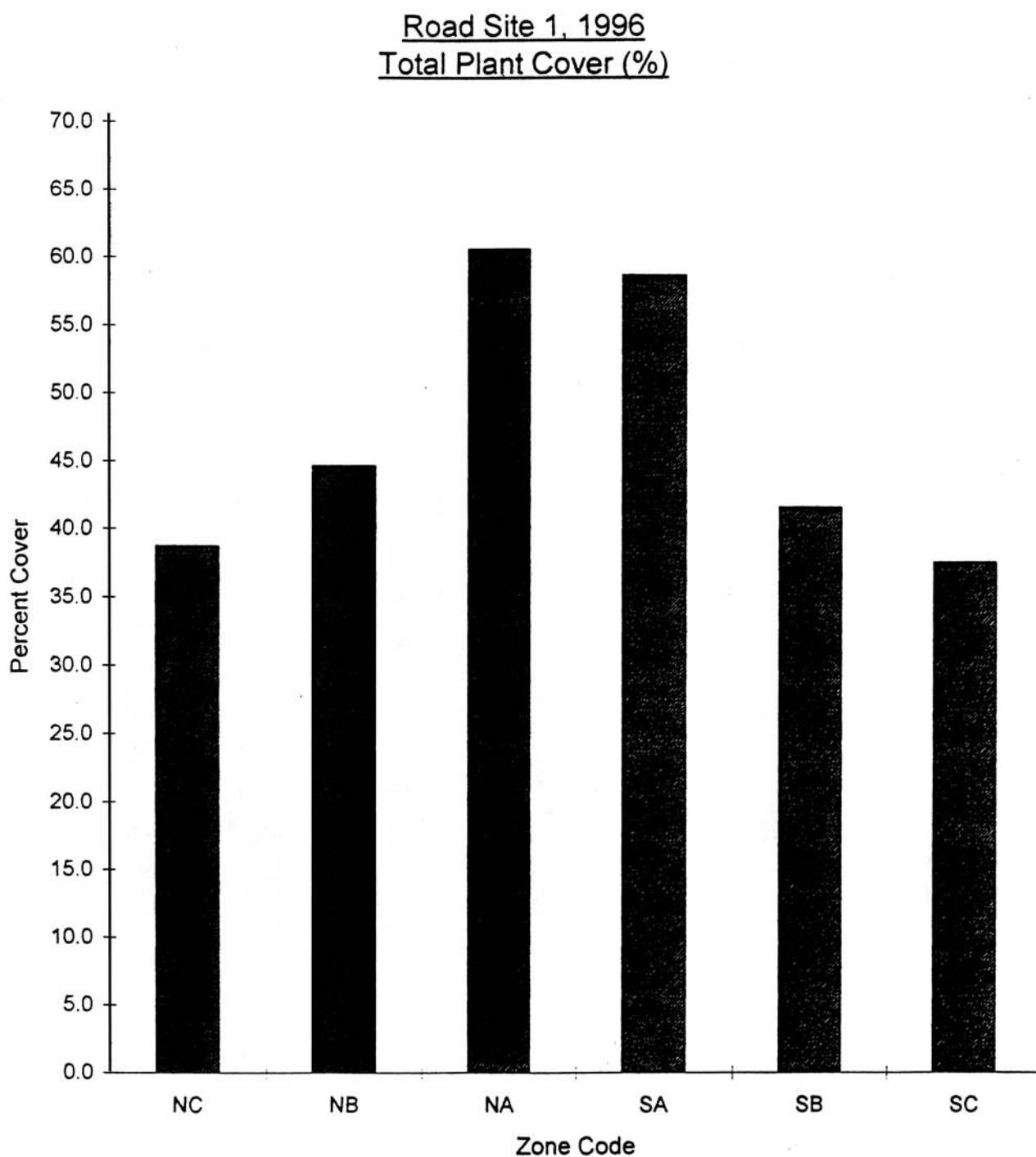


Figure 3. Gravel Road 1, 1996, total plant cover (%) in zones of a northern and southern zone transect (mean; $n=45$). For exact values see Appendix 2.0. For legend to zones see Fig. 2.

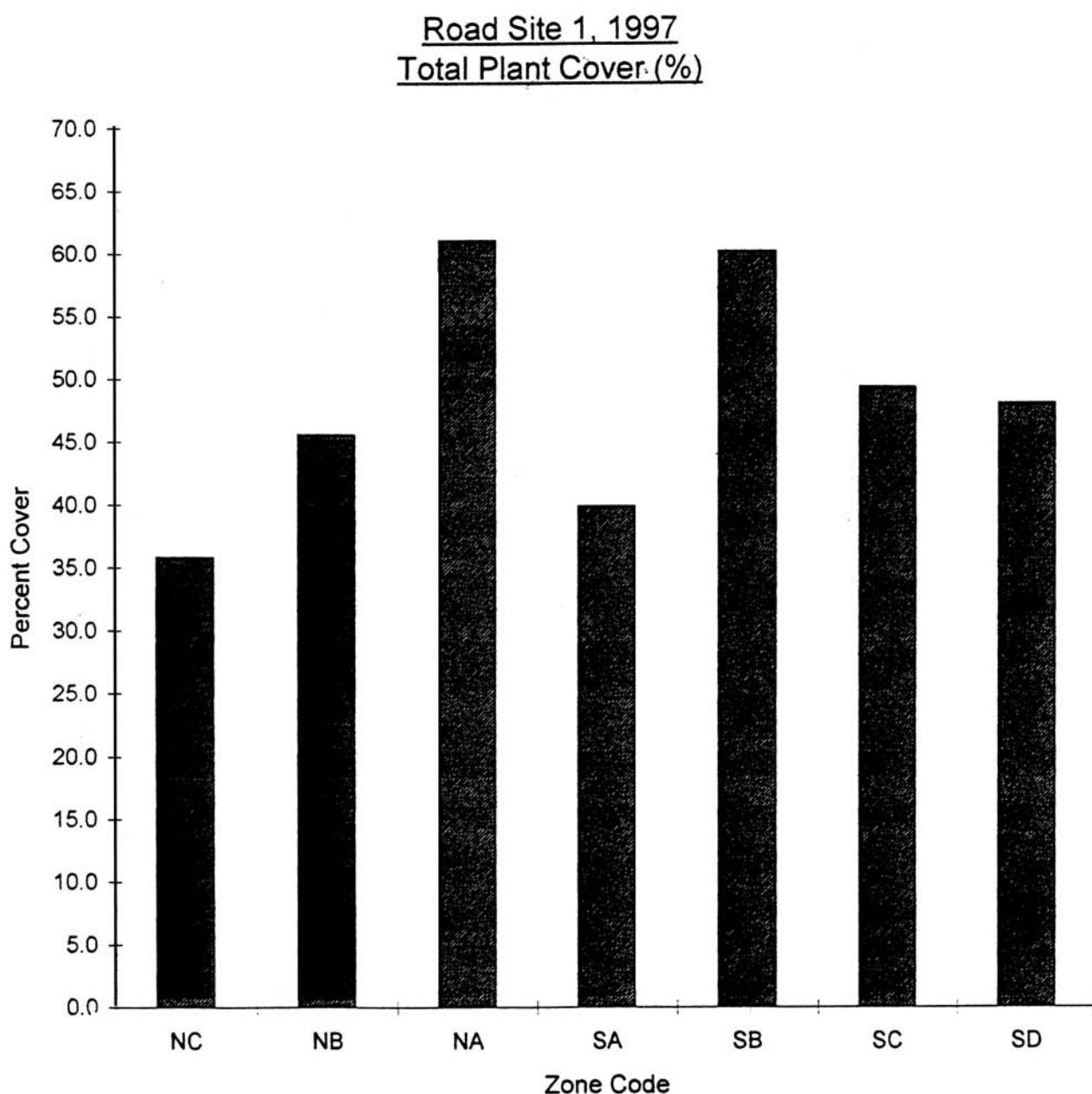


Figure 4. Gravel Road 1, 1997, total plant cover (%) in zones of a northern and southern zone transect (mean; n= 45). For exact values see Appendix 2.0. For legend to zones see Fig. 2.

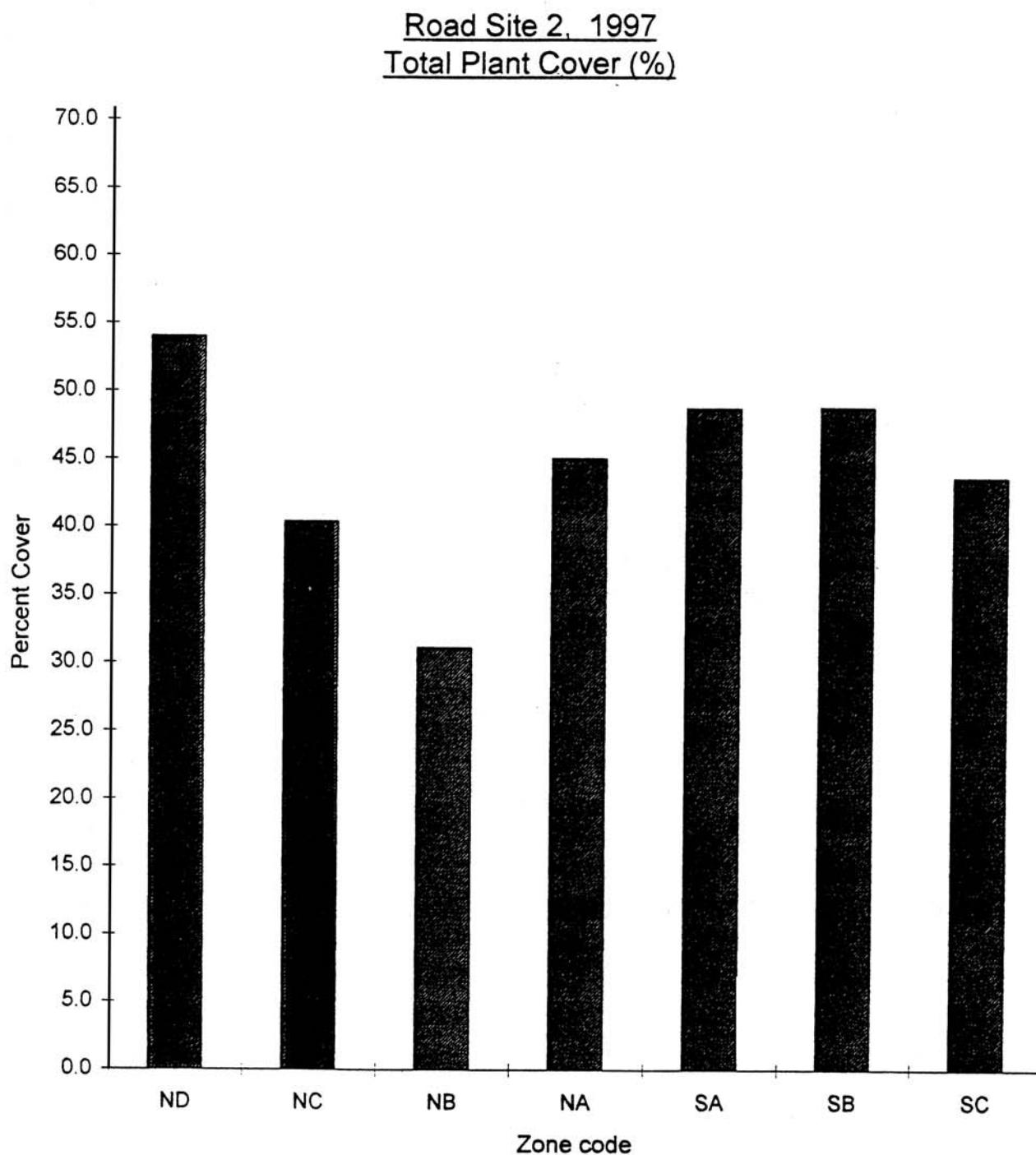


Figure 5. Gravel Road 2, 1997, total plant cover (%) in zones of a northern and southern zone transect (mean; $n= 45$). For exact values see Appendix 2.0. For legend to zones see Fig. 2.

Road Site 1, 1996
Dust Deposition Profile

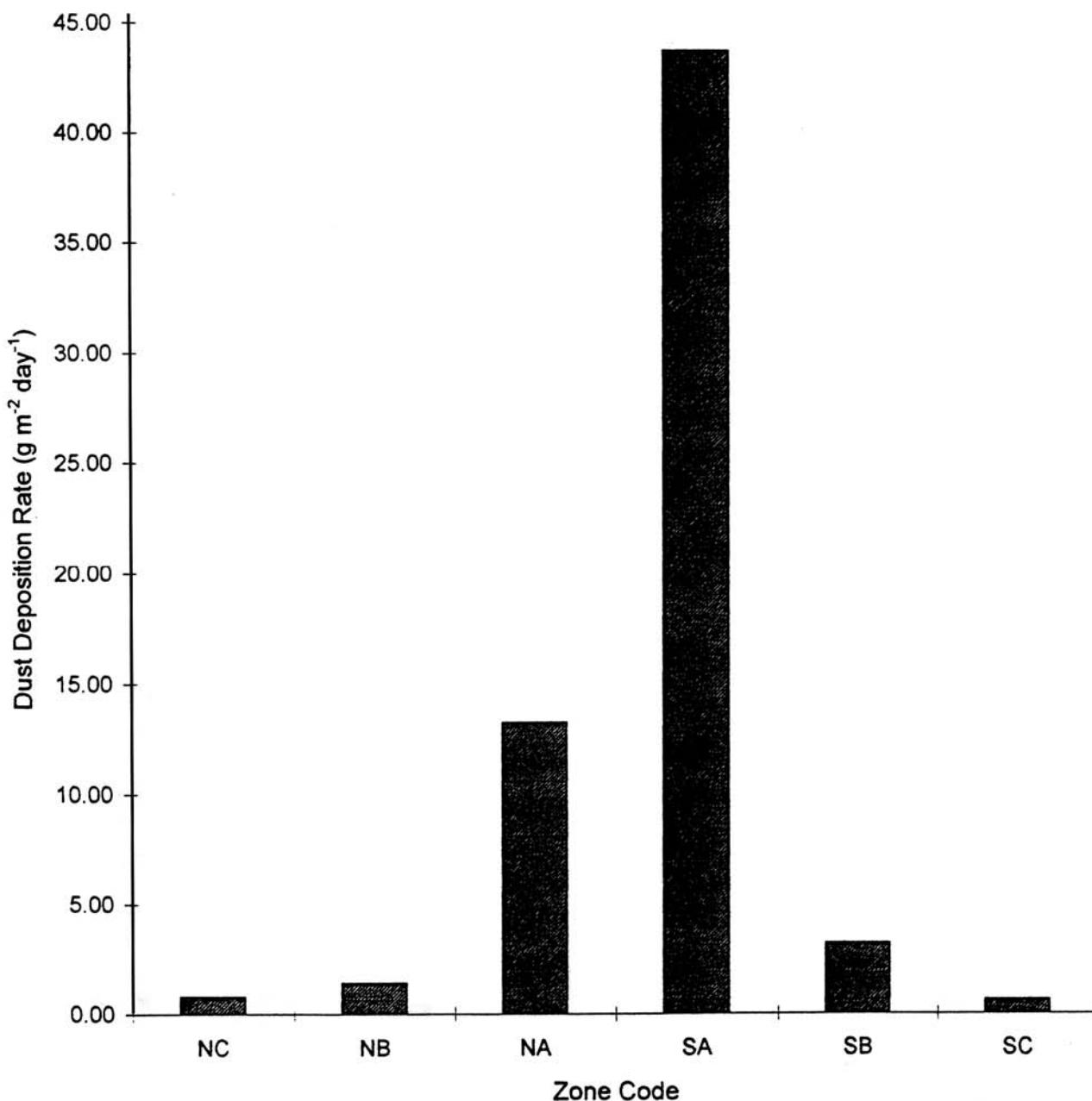


Figure 6 . Gravel Road 1, 1996, dust deposition rates in zones of a northern and southern zone transect (mean; $n=9$). For exact values see Appendix 2.0. For legend to zones see Fig. 2.

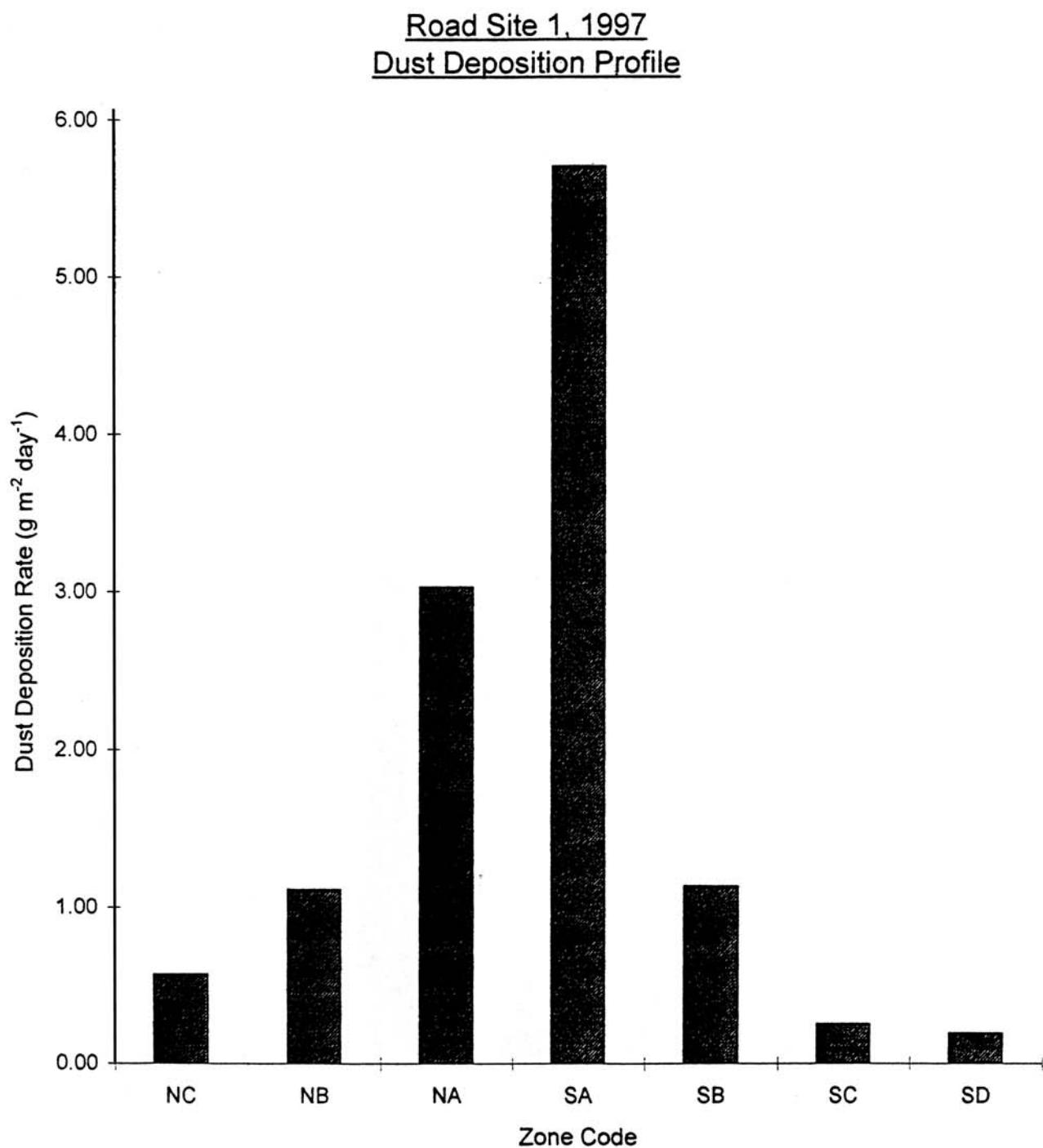


Figure 7. Gravel Road 1, 1997, dust deposition rates in zones of a northern and southern zone transect (mean; $n=27$). For exact values see Appendix 2.0. For legend to zones see Fig. 2.

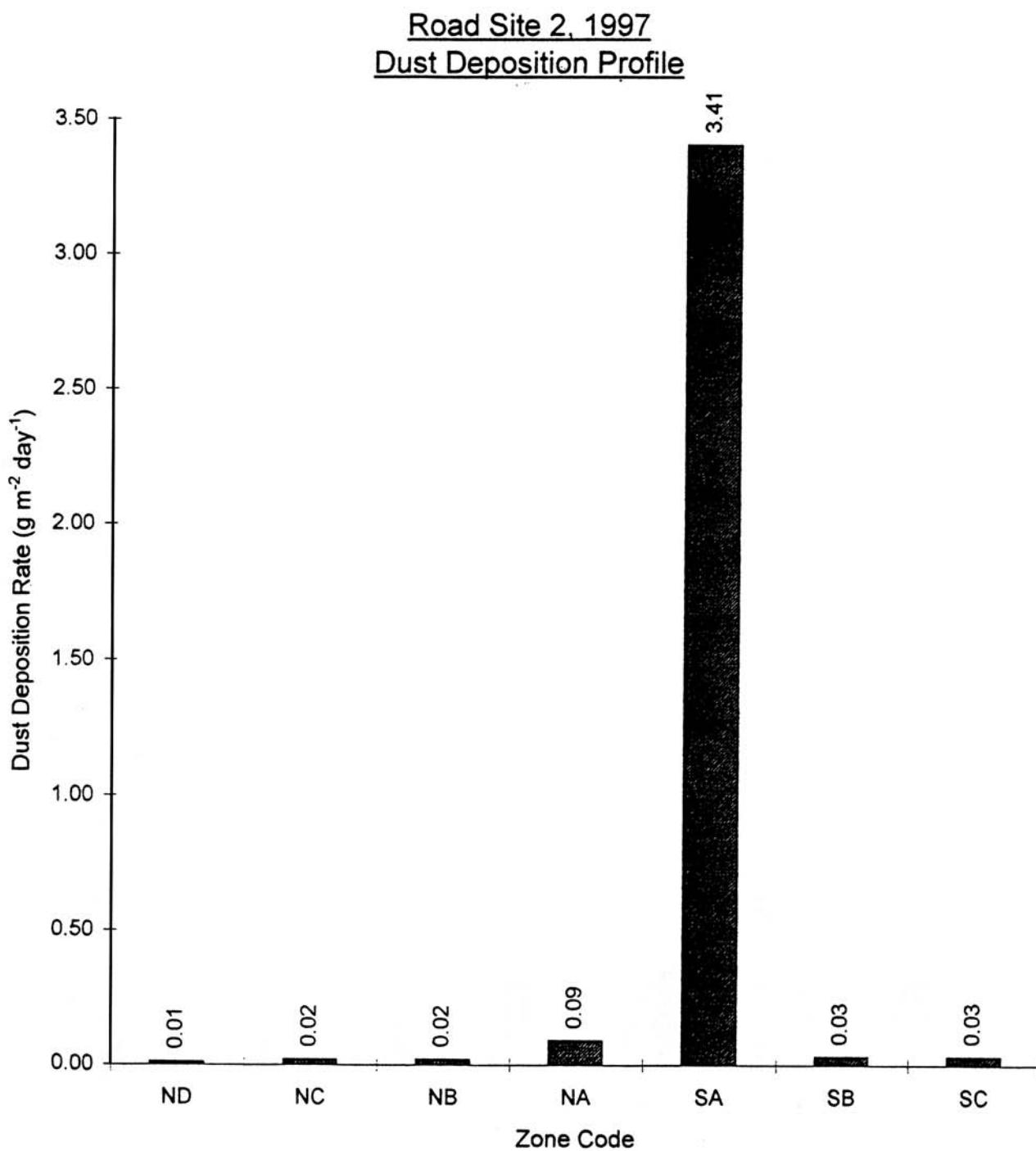


Figure 8 . Gravel Road 2, 1997, dust deposition rates in zones of a northern and southern zone transect (mean; $n= 18$). For exact values see Appendix 2.0. For legend to zones see Fig. 2.

Road Site 1, 1997
Moisture Profile

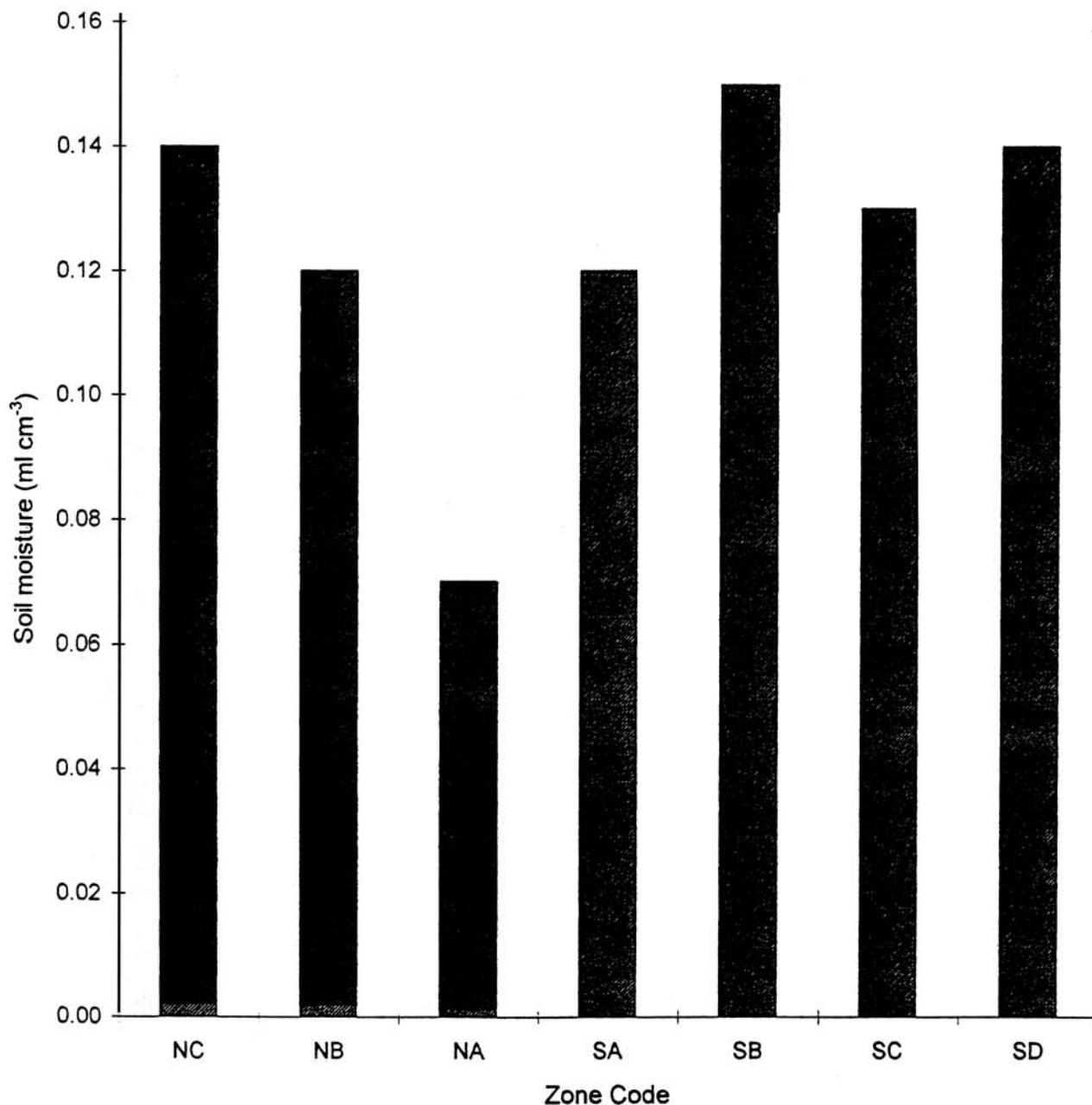


Figure 9. Gravel Road 1, 1997, soil moisture content per volume in zones of a northern and southern zone transect (mean; n= 18). For exact values see Appendix 2.0. For legend to zones see Fig. 2.

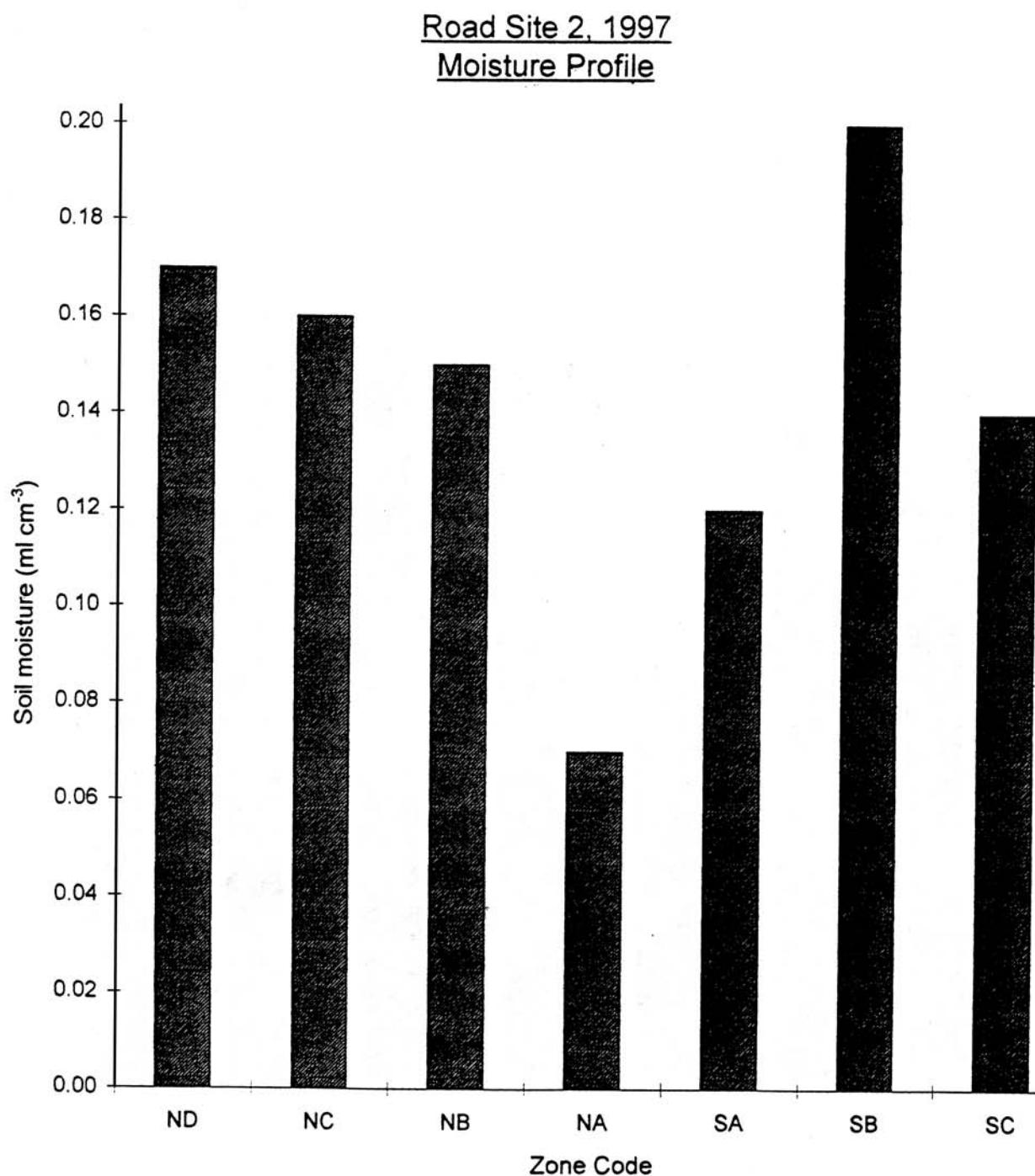


Figure 10. Gravel Road 2, 1997, soil moisture content per volume in zones of a northern and southern zone transect (mean; n= 12). For exact values see Appendix 2.0. For legend to zones see Fig. 2.

Road 1, 1997
Soil Bulk Density Profile

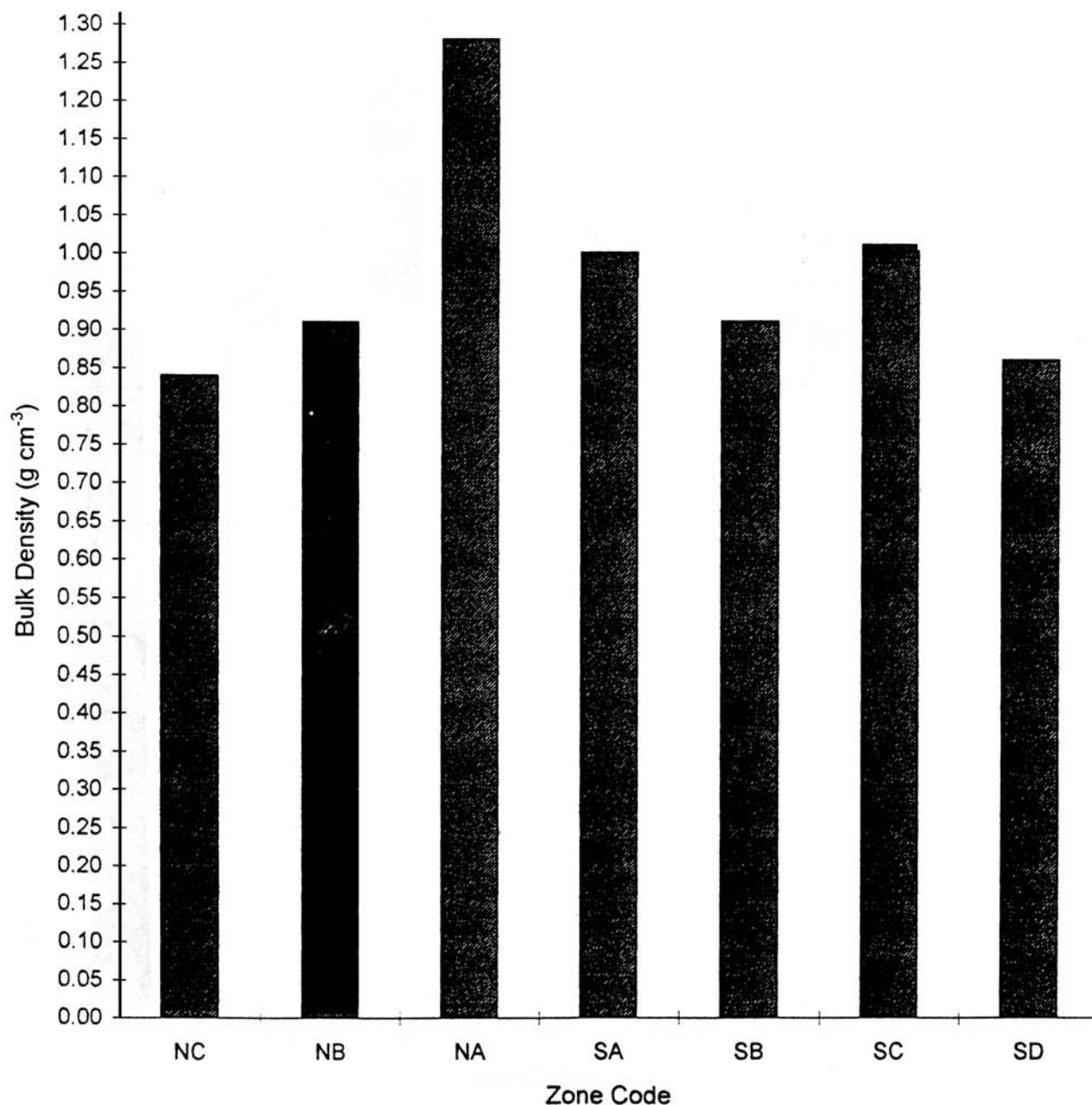


Figure 11. Gravel Road 1, 1997, soil mass (bulk density) in zones of a northern and southern zone transect (mean; $n=18$). For exact values see Appendix 2.0. For legend to zones see Fig. 2.

Road Site 2, 1997
Soil Bulk Density Profile

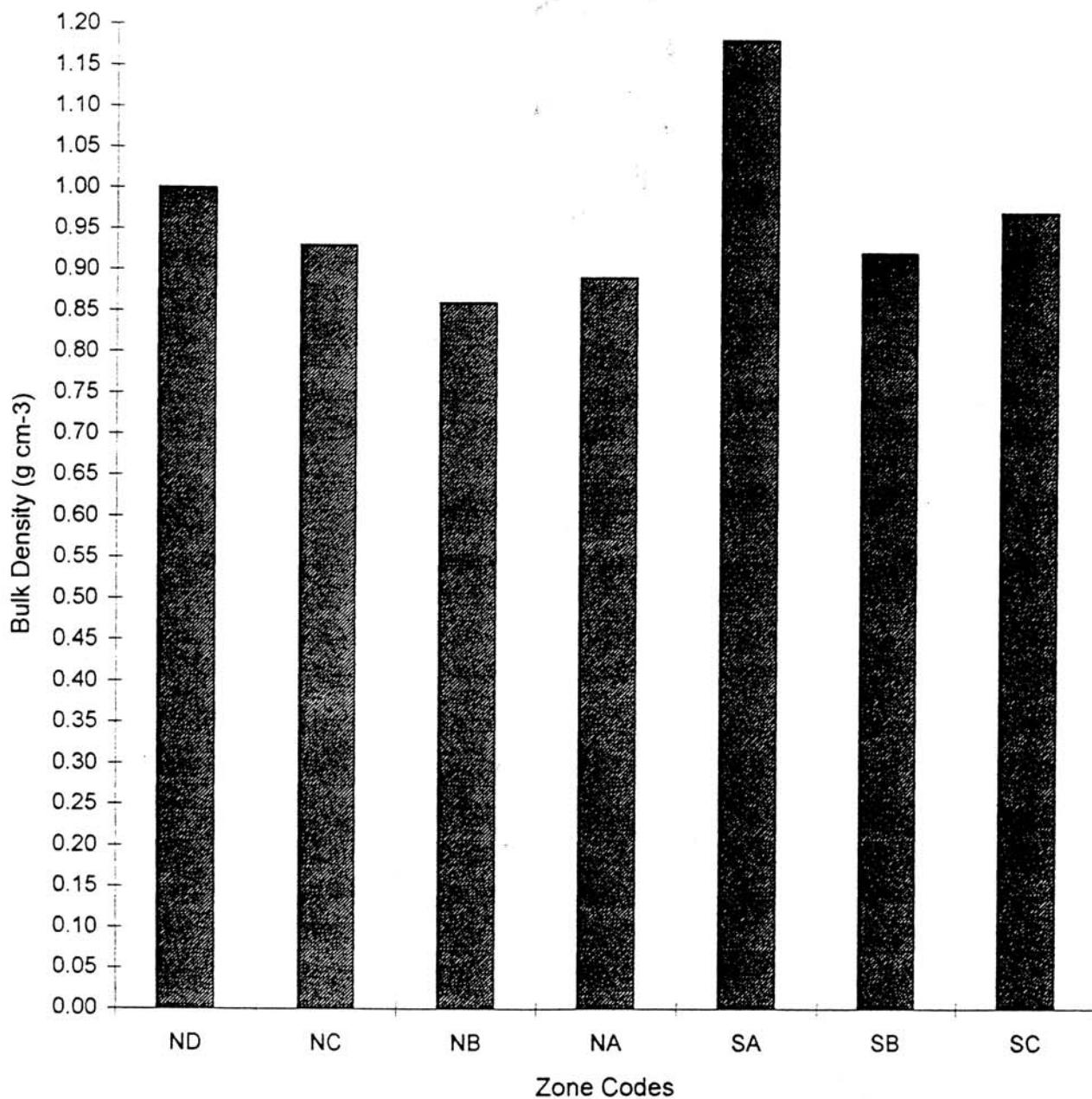


Figure 12. Gravel Road 2, 1997, soil mass (bulk density) in zones of a northern and southern zone transect (mean; n= 12). For exact values see Appendix 2.0. For legend to zones see Fig. 2.

Road Site 1, 1997
Soil pH Profile

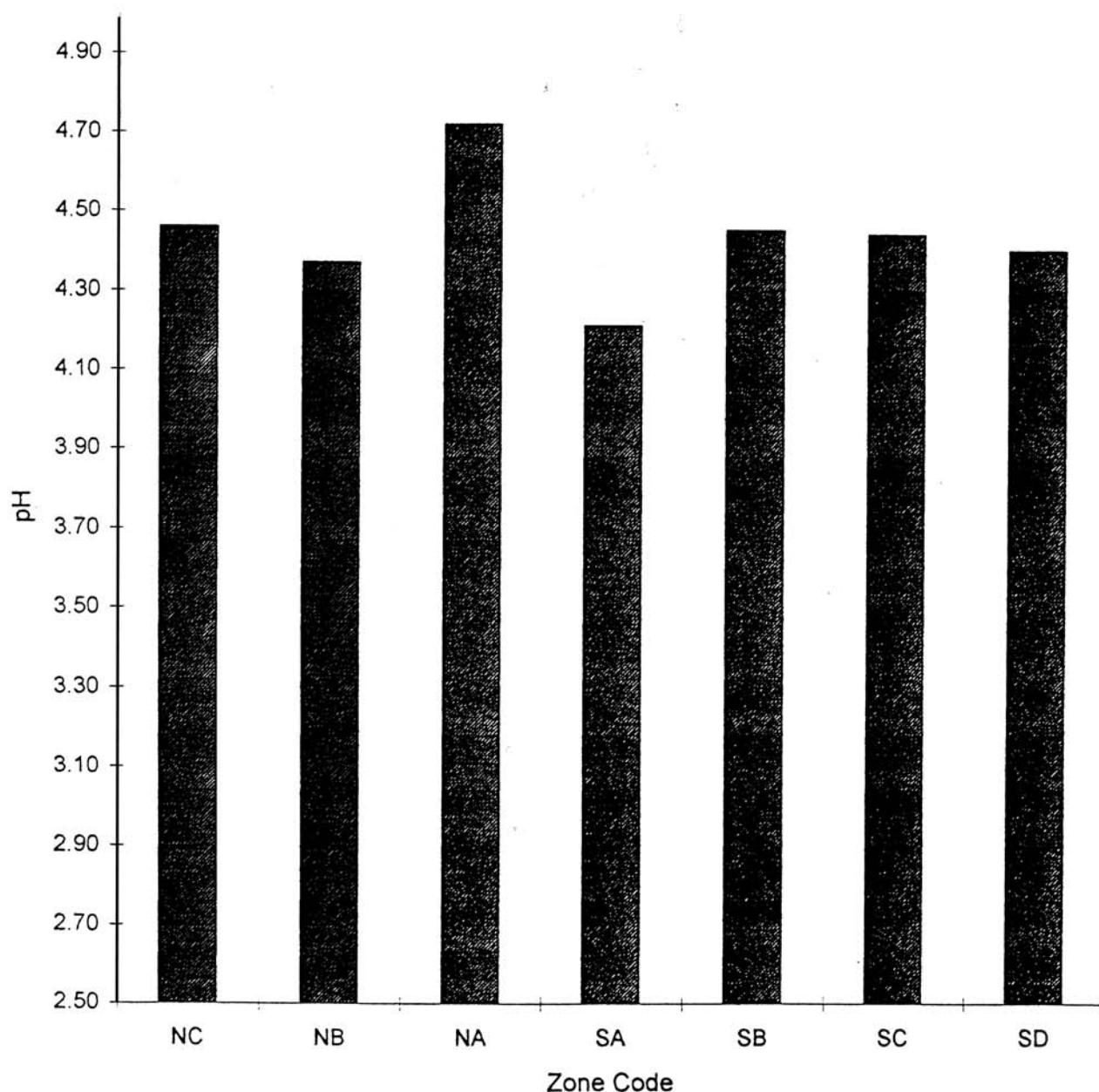


Figure 13. Gravel Road 1, 1997, soil pH in zones of a northern and southern zone transect (mean; n= 18). For exact values see Appendix 2.0. For legend to zones see Fig. 2.

Road Site 2, 1997
Soil pH Profile

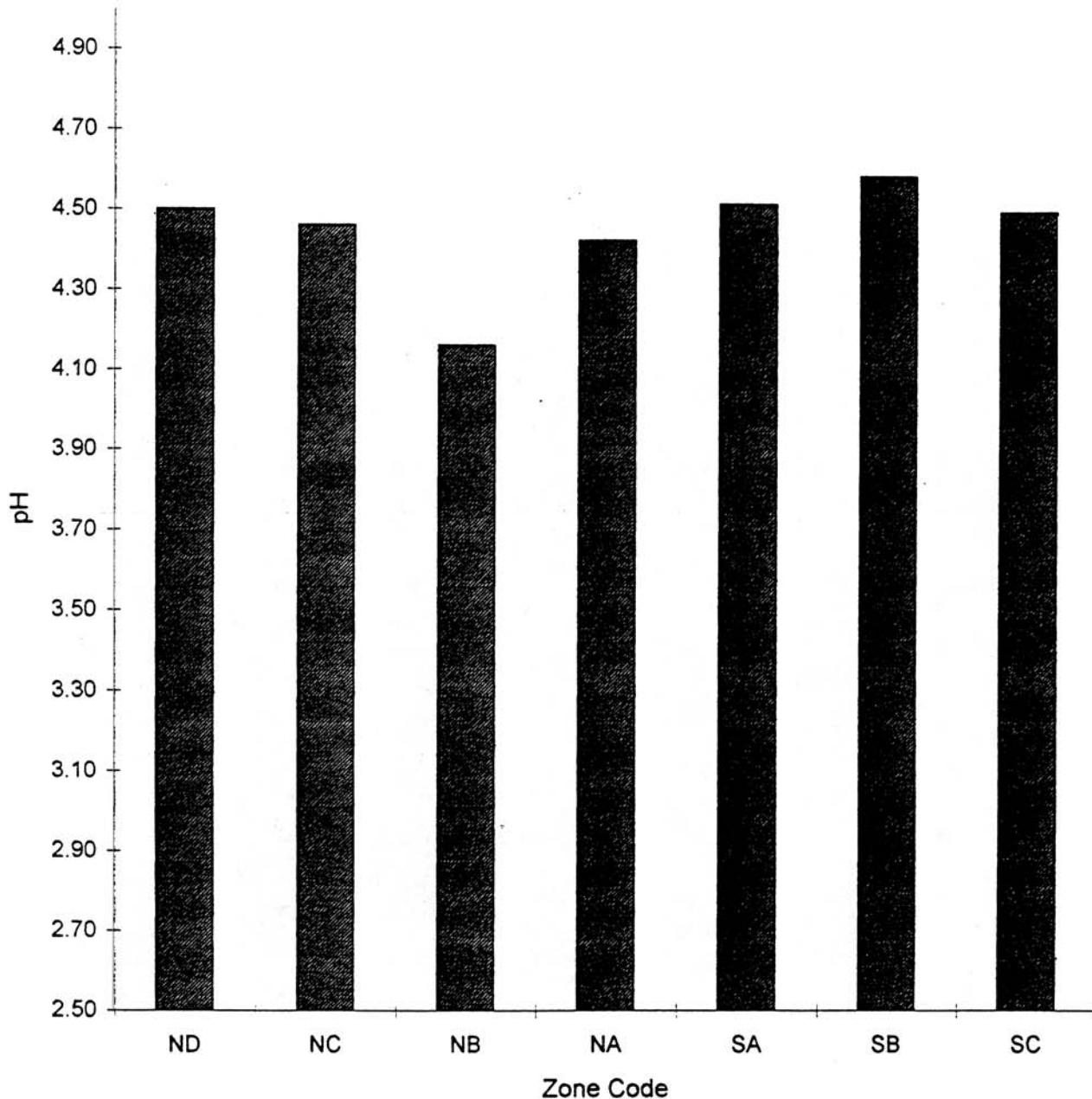


Figure 14. Gravel Road 2, 1997, soil pH in zones of a northern and southern zone transect (mean; n= 12). For exact values see Appendix 2.0. For legend to zones see Fig. 2.

Road Site 1, 1996

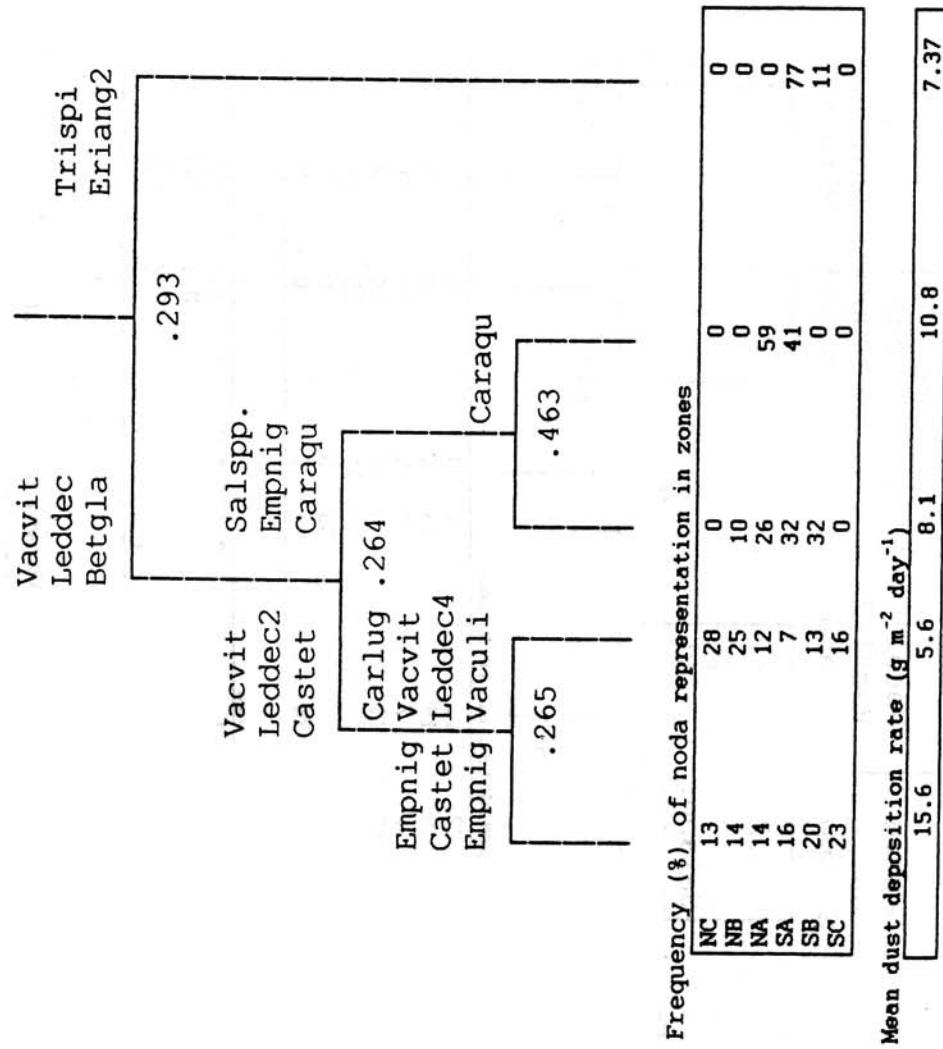


Figure 15. Road site 1, 1996. TWINSPAN dendrogram (Two-way indicator species analysis). Vegetation noda developed to 3 levels. Eigenvalues and indicator species are shown at each division. For decoding of indicator species, see Appendix 1. For legend to zone codes see Fig. 2.

Road site 1, 1997

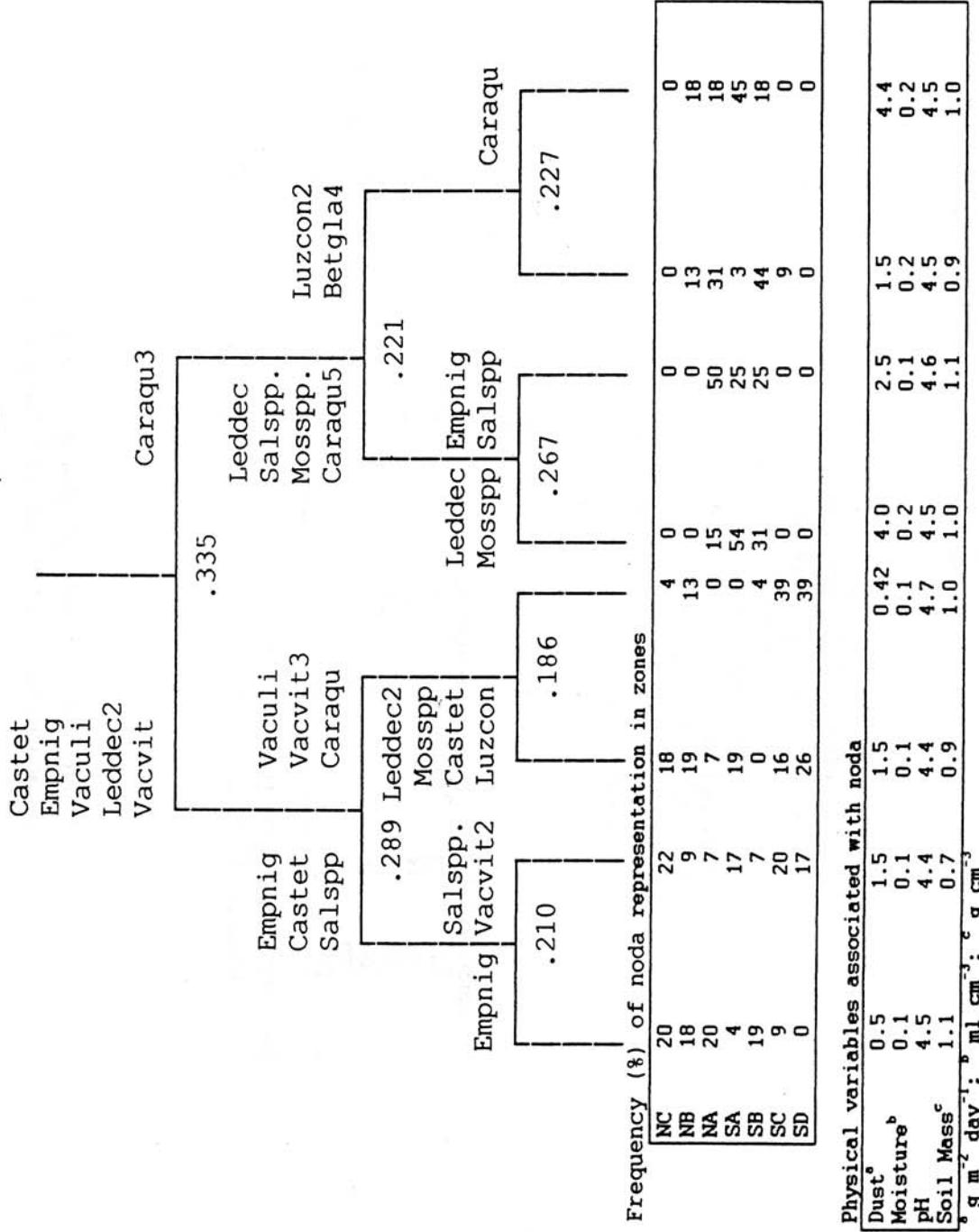
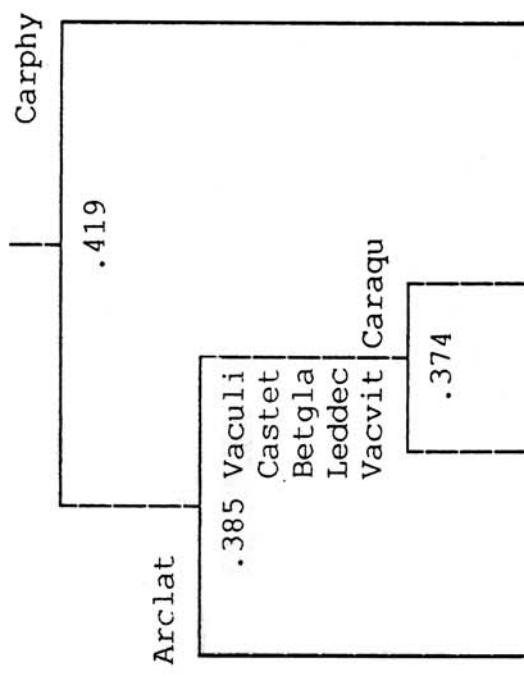


Figure 16. Road site 1, 1997. TWINSPAN dendrogram (Two-way indicator species analysis). Vegetation noda developed to 3 levels. Eigenvalues and indicator species are shown at each division. For decoding of indicator species, see Appendix 1. For legend to zone codes see Fig. 2.

Road Site 2, 1997



Frequency (%) of noda representation in zones

	ND	0	14	19	0
NC	0		14	13	0
NB	0		13	14	0
NA	100		18	0	0
SA	0		14	19	0
SB	0		13	19	0
SC	0		14	9	100

Physical variables associated with noda

	Dust ^a	0.35	0.74	0.03	0.01
Moisture ^b	0.02		0.14	0.18	0.15
pH	4.5		4.4	4.5	4.5
Soil Mass ^c	1.3		0.9	1.1	1.1

^a g m⁻² day⁻¹; ^b ml cm⁻³; ^c g cm⁻³

Figure 17. Road site 2, 1997. TWINSPAN dendrogram (Two-way indicator species analysis). Vegetation noda developed to 3 levels. Eigenvalues and indicator species are shown at each division. For decoding of indicator species, see Appendix 1. For legend to zone codes see Fig. 2.

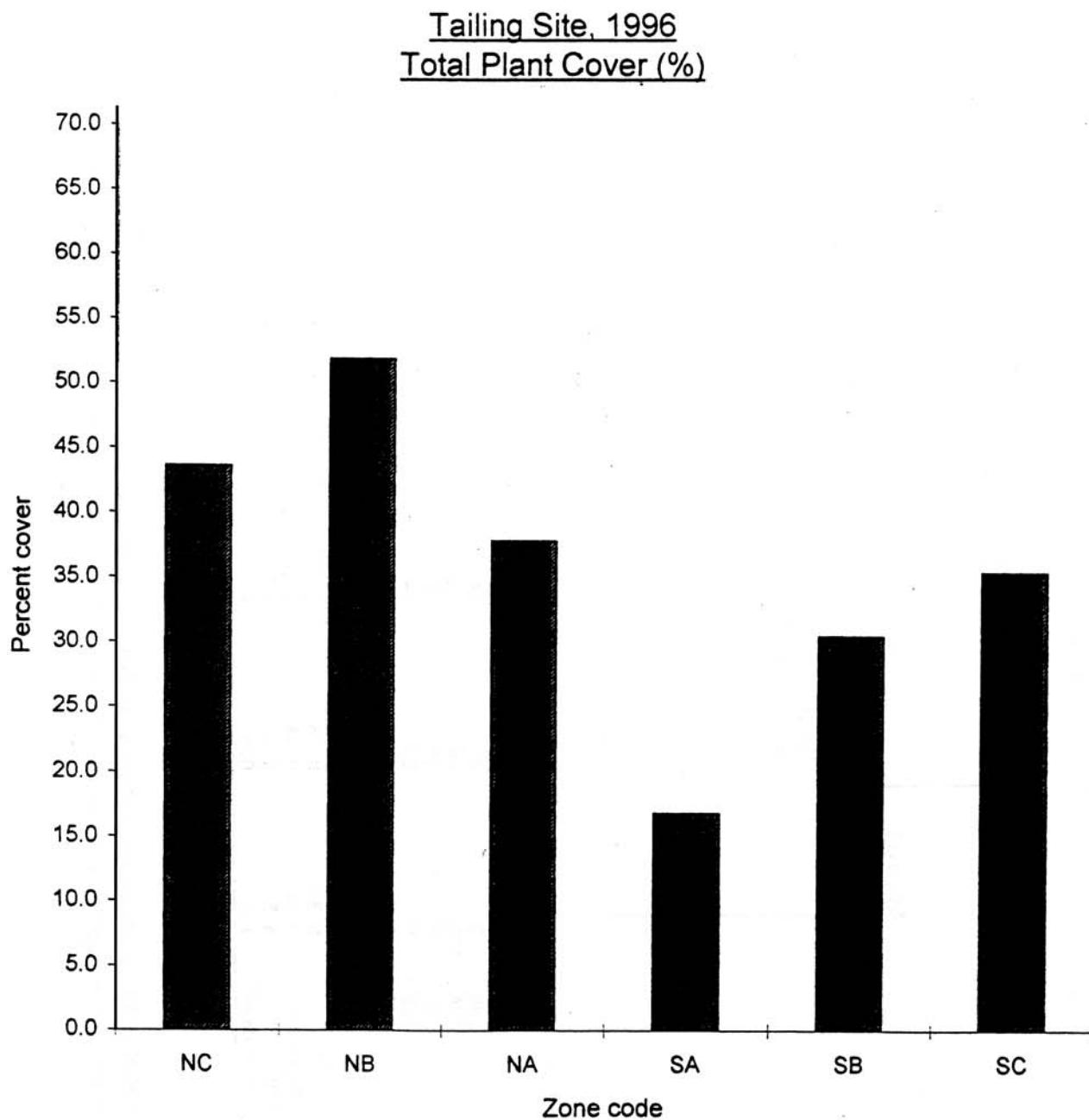


Figure 18. Tailings pond, 1996, total plant cover (%) in zones of a northern and southern zone transect (mean; $n=45$). For exact values see Appendix 3.0. For legend to zones see Fig. 2.

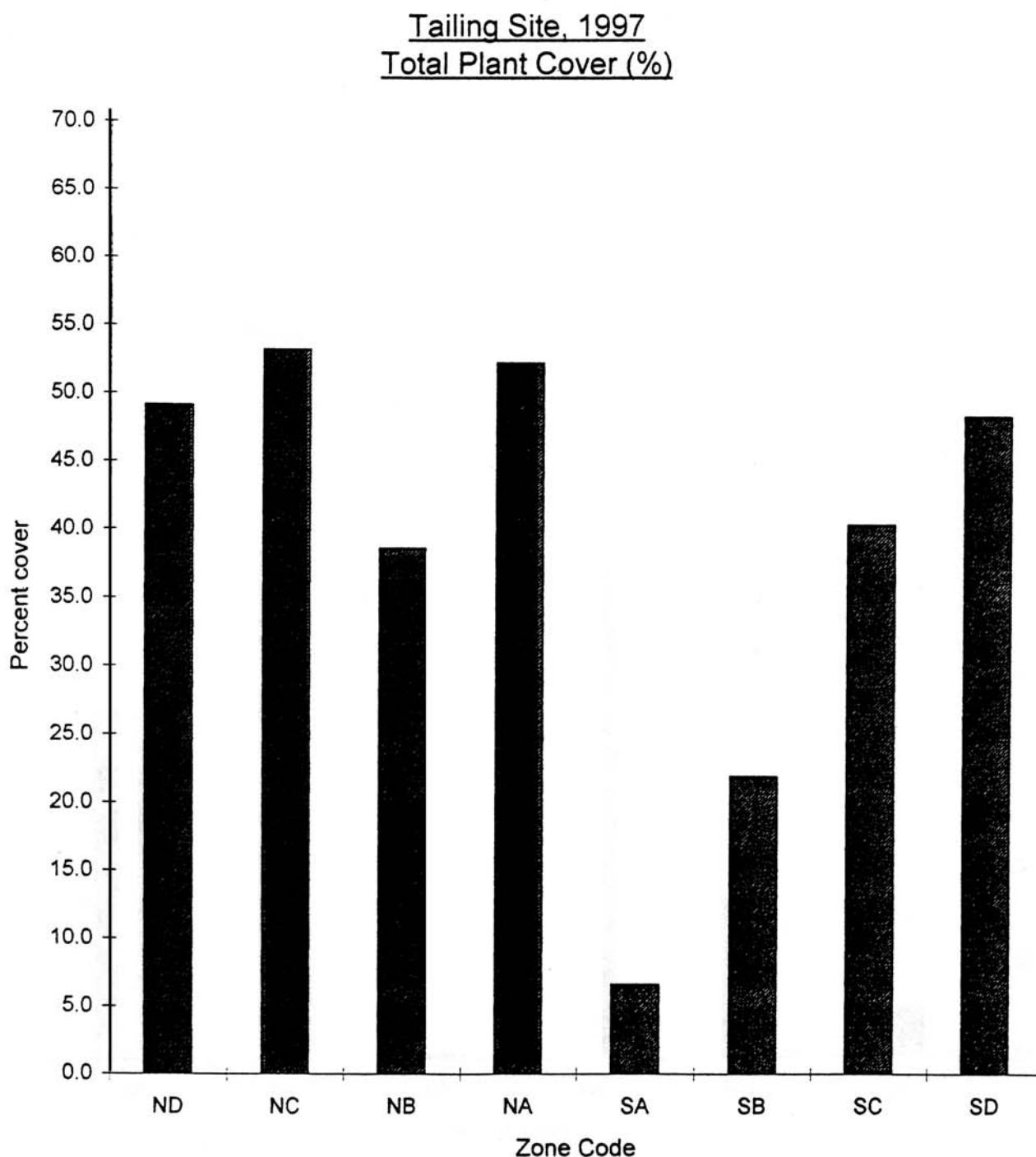


Figure 19. Tailings pond, 1997, total plant cover (%) in zones of a northern and southern zone transect (mean; n= 45). For exact values see Appendix 3.0. For legend to zones see Fig. 2.

Tailing Site, 1996
Dust Deposition Profile

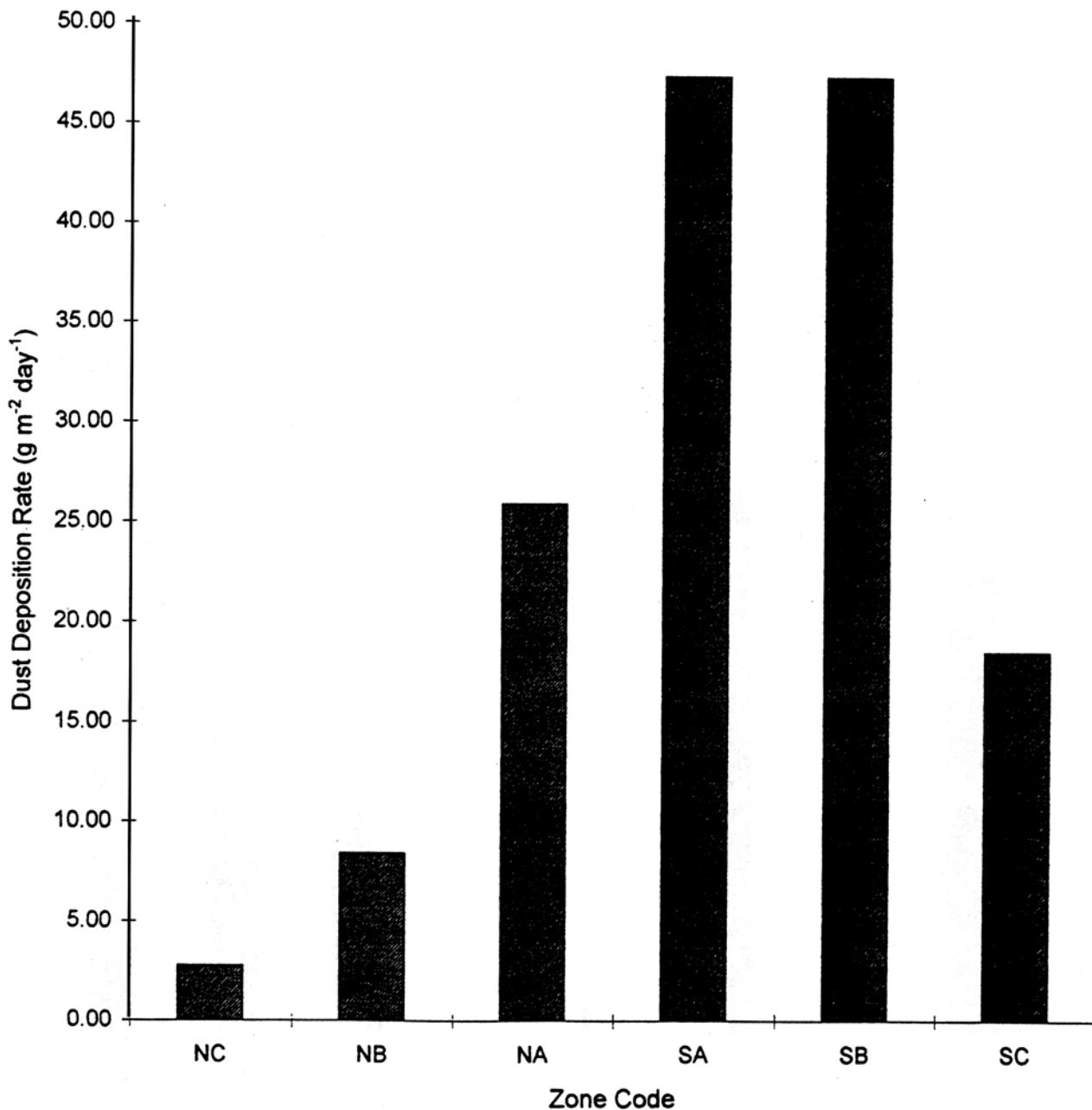


Figure 20. Tailings pond, 1996, dust deposition rates in zones of a northern and southern zone transect (mean; $n=9$). For exact values see Appendix 3.0. For legend to zones see Fig. 2.

Tailing Site, 1997
Dust Deposition Profile

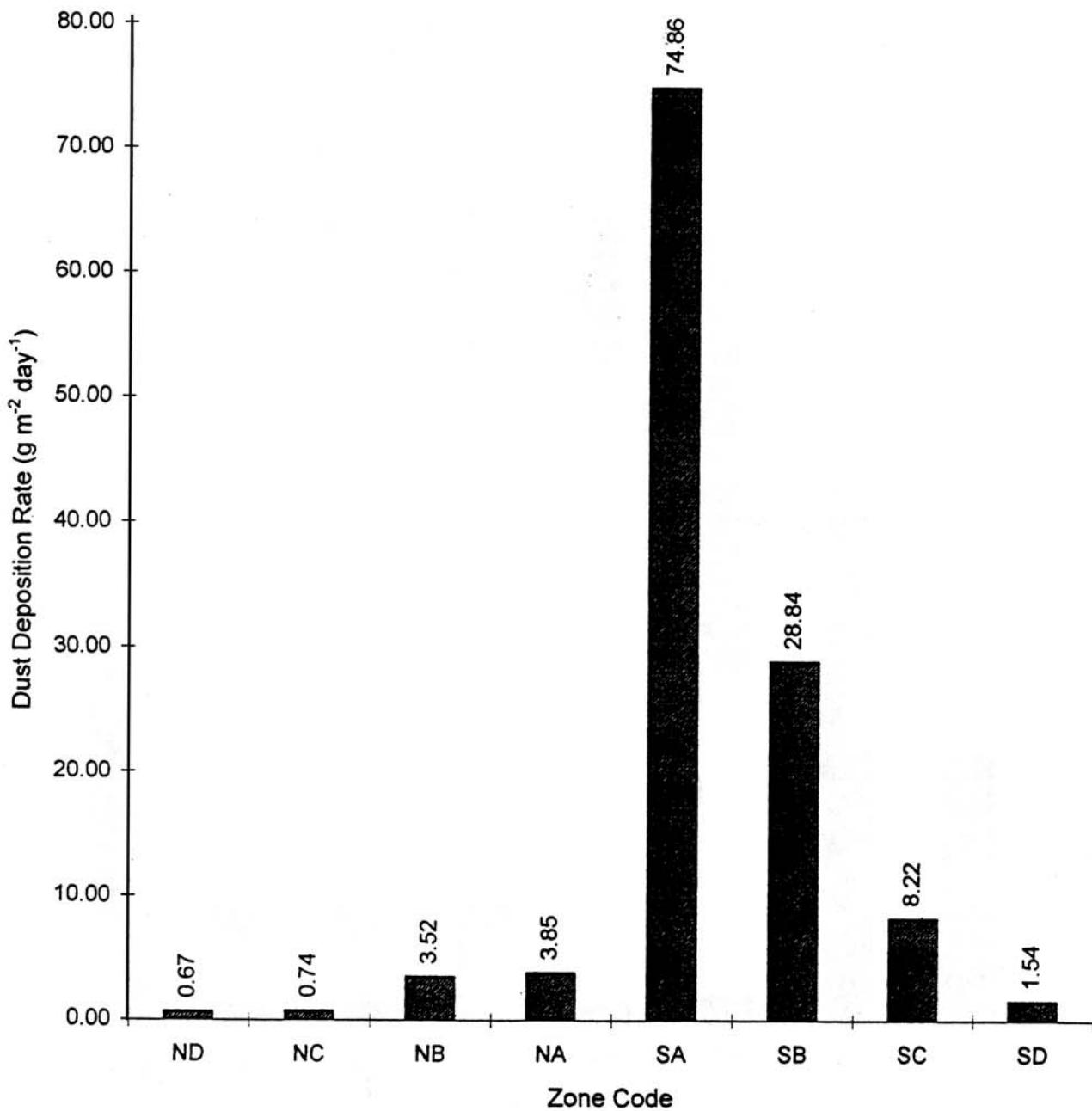


Figure 21. Tailings pond, 1997, dust deposition rates in zones of a northern and southern zone transect (mean; $n=27$). For exact values see Appendix 3.0. For legend to zones see Fig. 2.

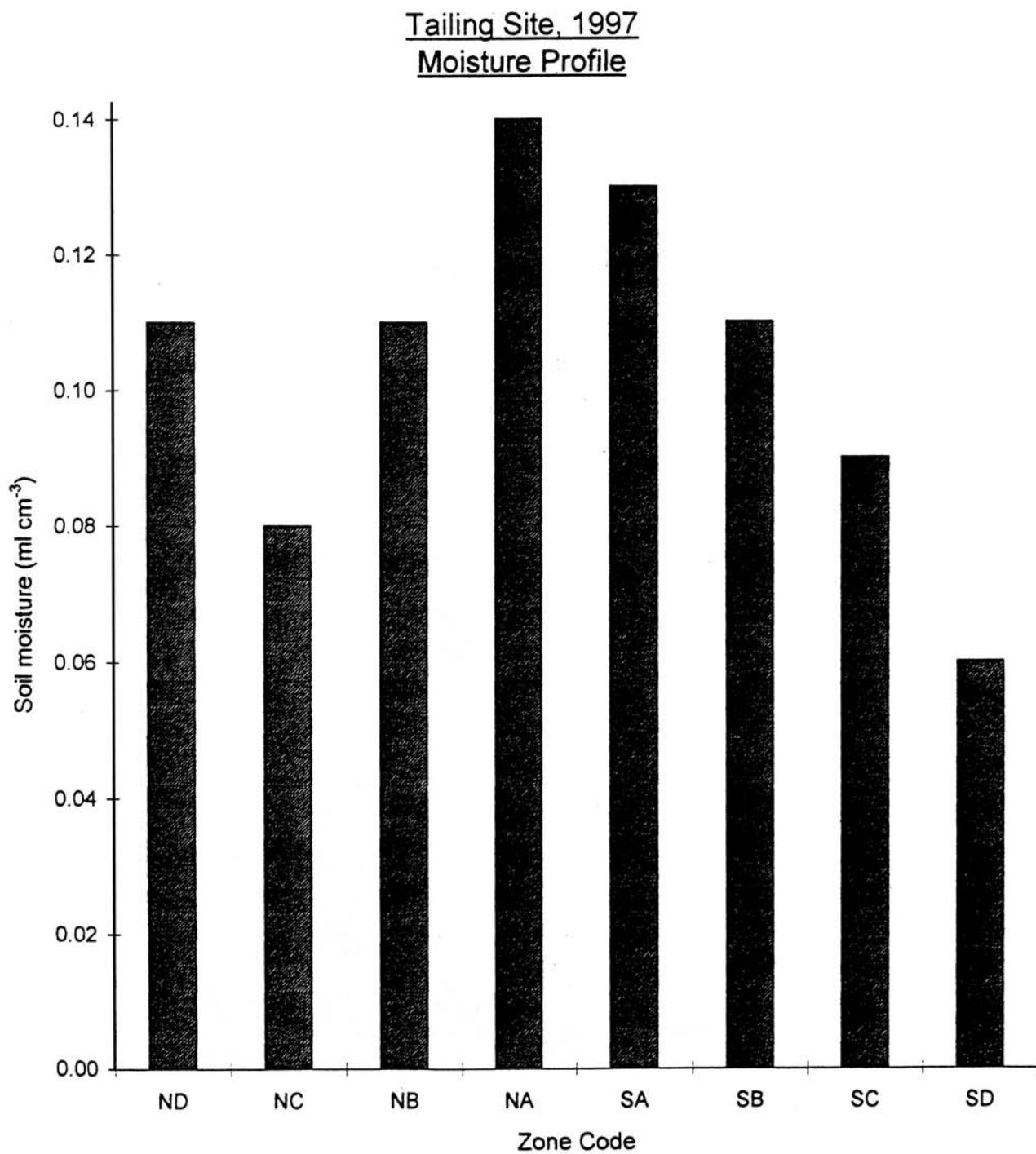


Figure 22. Tailings pond, 1997, soil moisture content per volume in zones of a northern and southern zone transect (mean; $n=18$). For exact values see Appendix 3.0. For legend to zones see Fig. 2.

Tailing Site 1997
Soil Bulk Density Profile

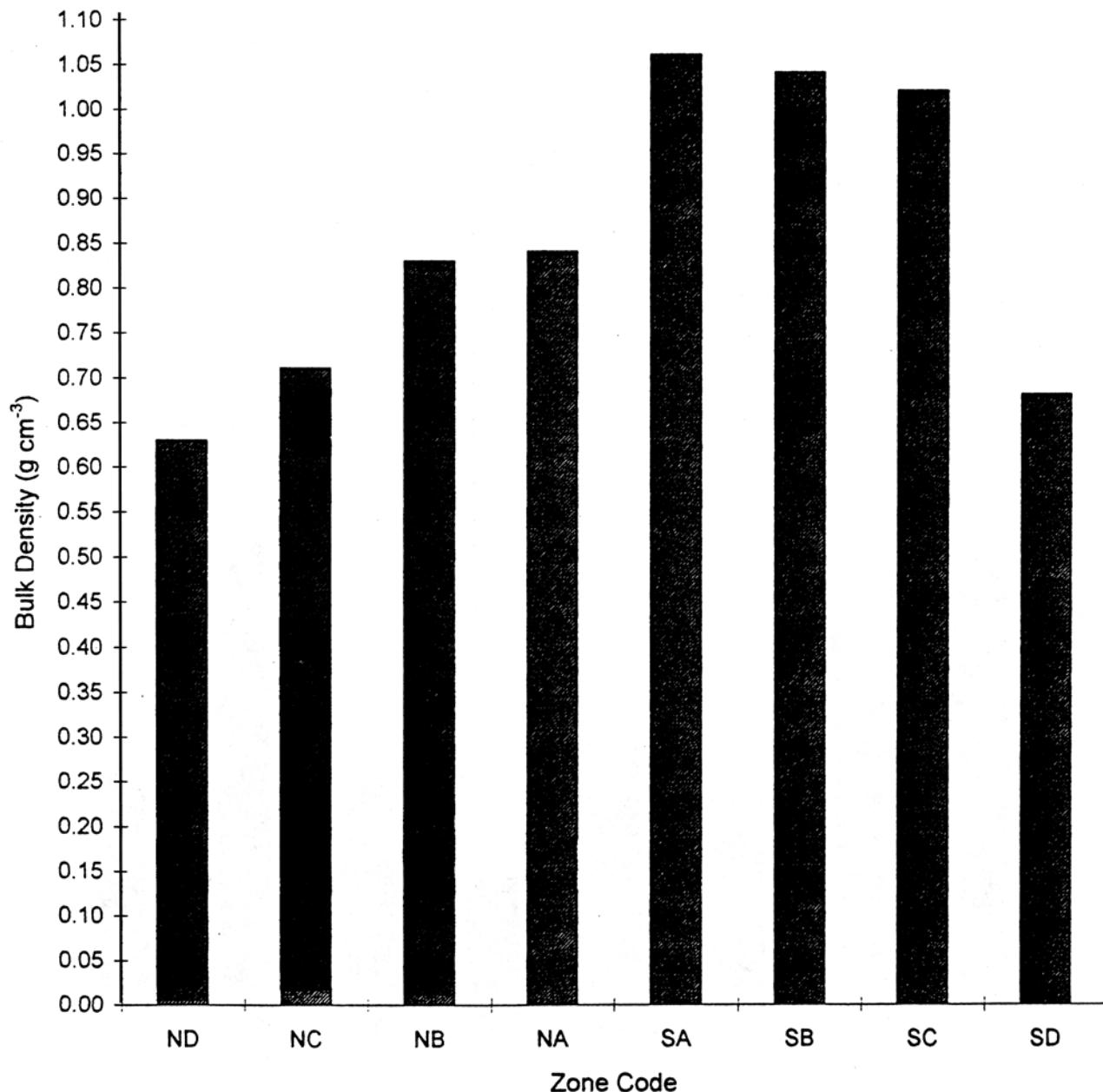


Figure 23. Tailings pond, 1997, soil mass (bulk density) in zones of a northern and southern zone transect (mean; n= 18). For exact values see Appendix 3.0. For legend to zones see Fig. 2.

Tailing Site, 1997
Soil pH Profile

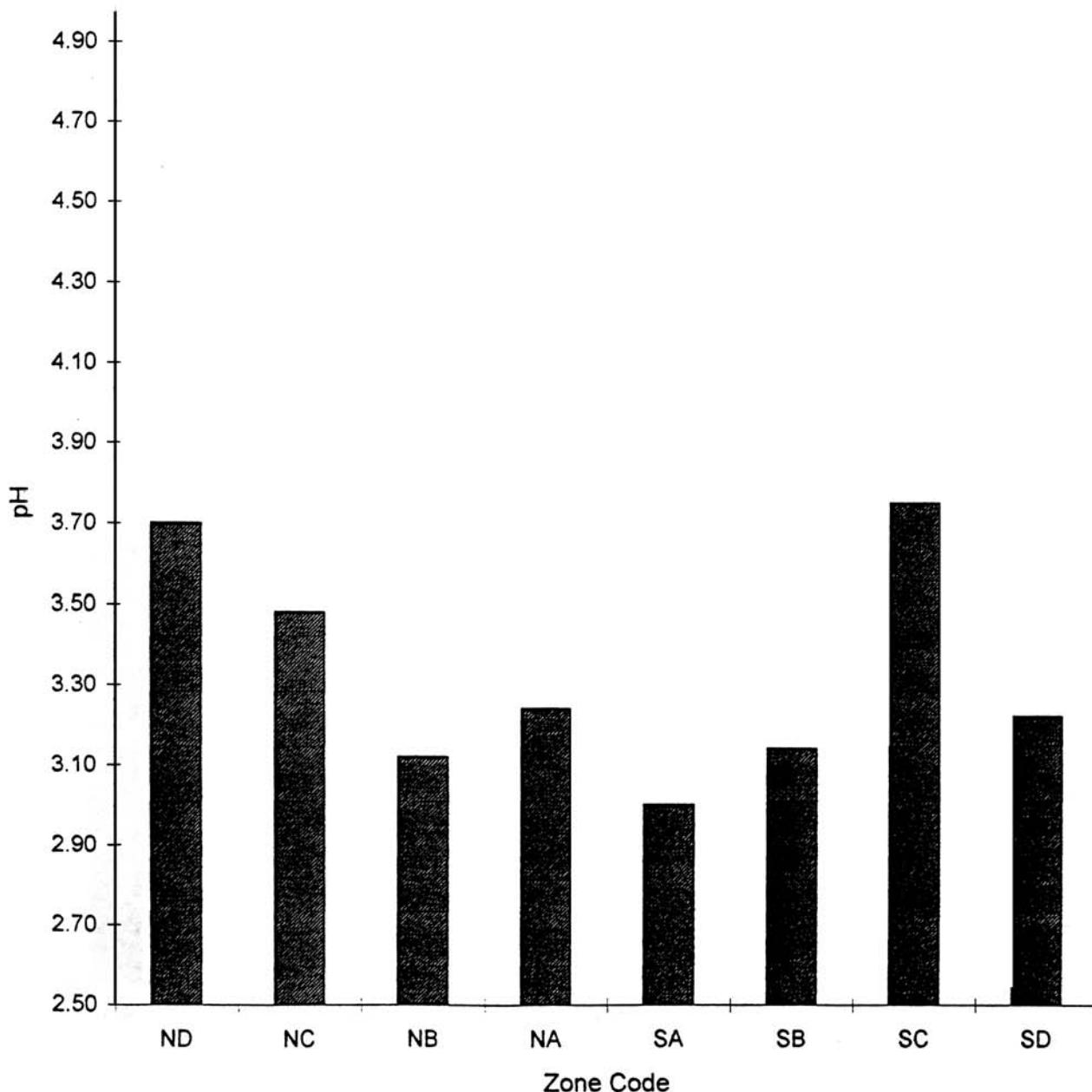


Figure 24. Tailings pond, 1997, soil pH in zones of a northern and southern zone transect (mean; n= 18). For exact values see Appendix 3.0. For legend to zones see Fig. 2.

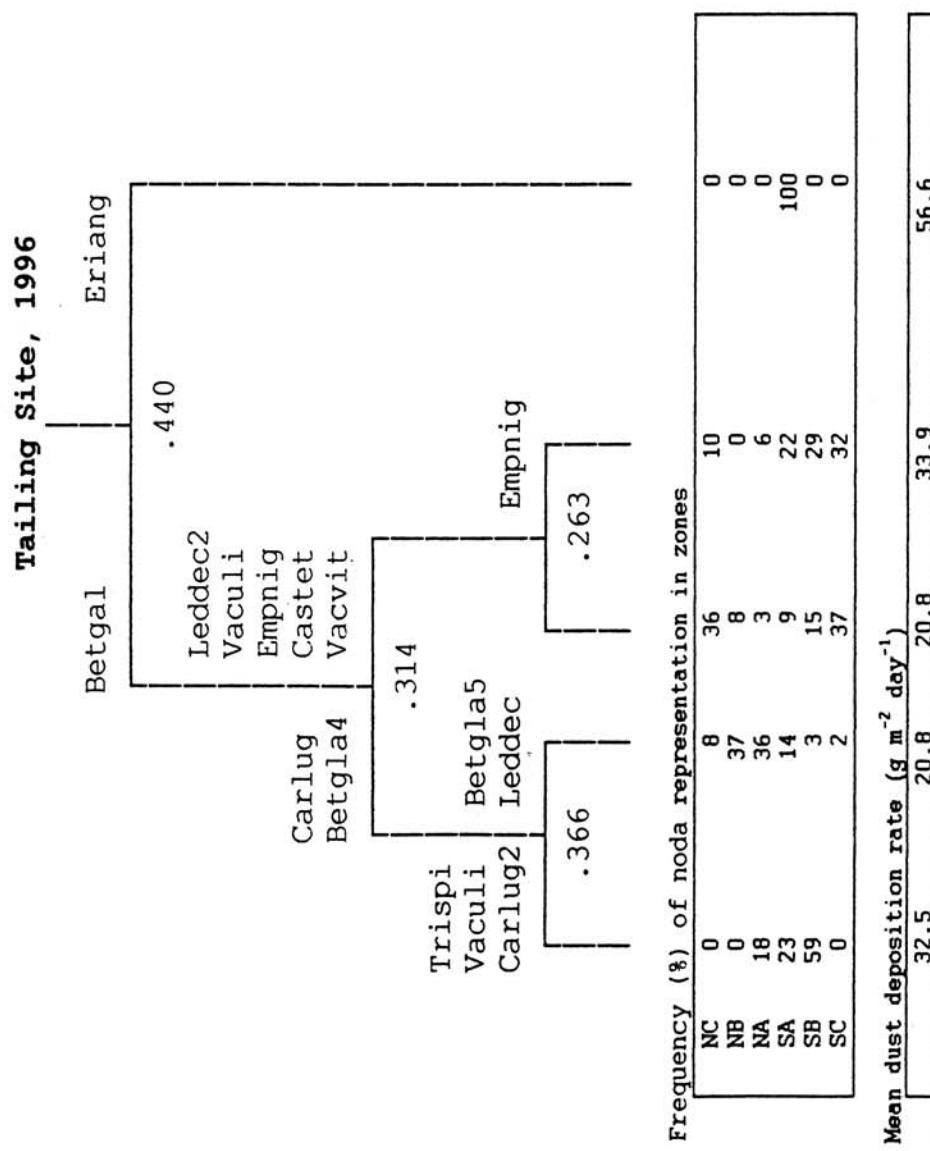


Figure 25. Tailings pond, 1996. TWINSPLAN dendrogram (Two-way indicator species analysis). Vegetation noda developed to 3 levels. Eigenvalues and indicator species are shown at each division. For decoding of indicator species, see Appendix 1. For legend to zone codes see Fig. 2.

Tailing, 1997

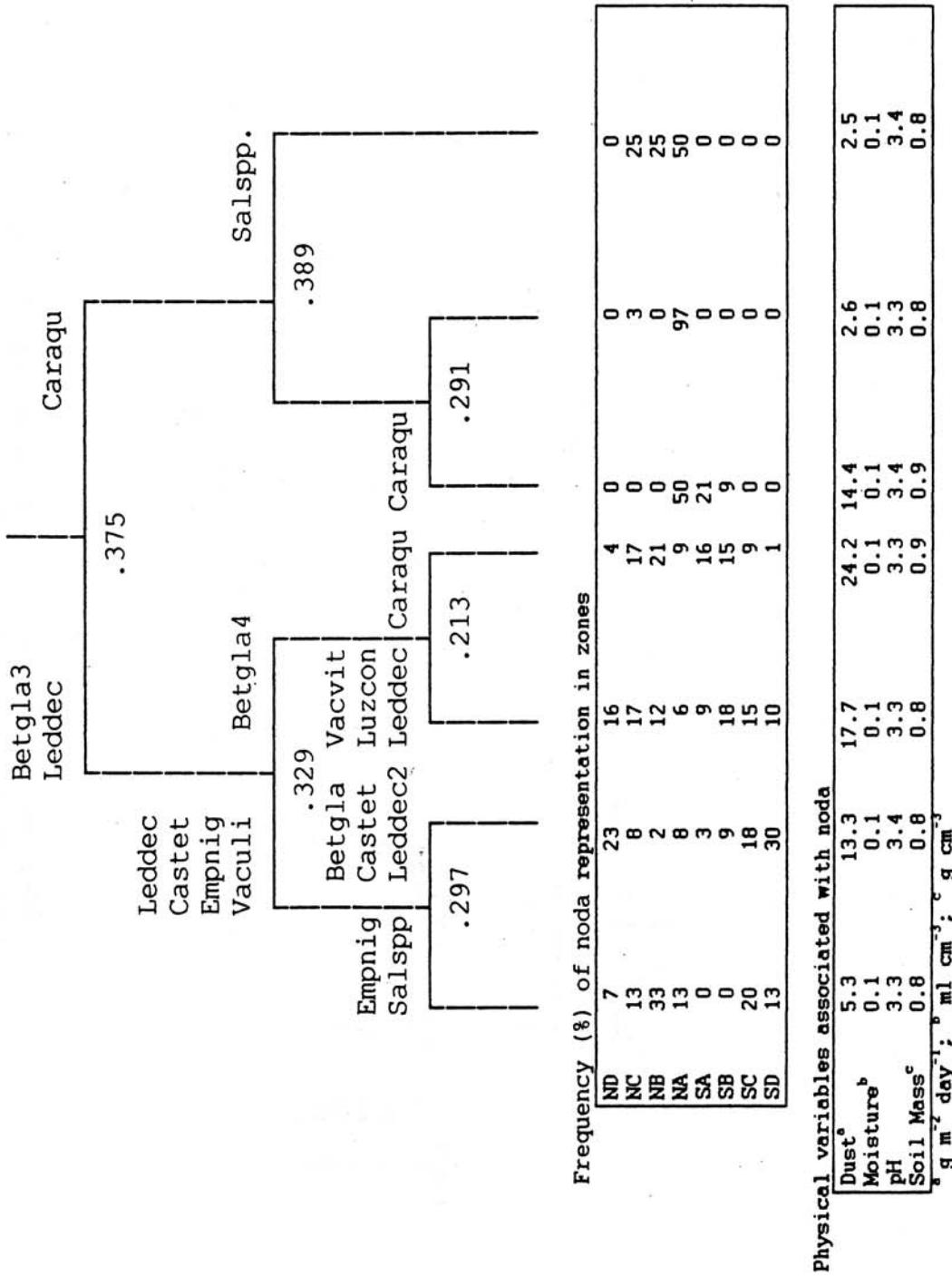


Figure 26. Tailings pond, 1997. TWINSPAN dendrogram (Two-way indicator species analysis). Vegetation noda developed to 3 levels. Eigenvalues and indicator species are shown at each division. For decoding of indicator species, see Appendix 1. For legend to zone codes see Fig. 2.