



Figure Suppl: Simplified Pourbaix diagram for nickel (A-) and chromium (B-) species dominating in diluted aqueous solutions, at 25°C and 1,013 bars. The broken vertical lines represent the normal pH range in natural waters

DOI: 10.1590/2317-4889202120200092

Field availability and mobility of metals in Ferralsols developed on ultramafic rock of Niquelândia, Brazil
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Table: Main physical and chemical characteristics of the soil horizons.

	Depth cm	Particle size distribution			Org. C g kg ⁻¹	Total elements						
		Clay	Silt	Sand		Fe	Al	Mg	Mn	Cr	Ni	Co
		g kg ⁻¹				g kg ⁻¹				mg kg ⁻¹		
NIQ II-1	0-10	200	490	310	20.7	427	20.2	2.38	6.91	6,597	3,945	829
NIQ II-2	13-23	200	500	300	14.8	431	20.9	2.25	6.92	6,217	3,704	830
NIQ II-3	35-47	340	430	230	5.3	466	21.8	2.22	8.21	6,986	4,048	627
NIQ II-4	68-80	430	350	220	4.0	513	15.0	3.62	6.16	9,268	6,252	513
NIQ II-5	140-155	260	450	290	1.5	271	5.6	1.85	3.78	5,687	4,119	380
NIQ III-1	0-10	180	460	360	22.1	413	25.8	1.90	6.72	6,135	3,710	881
NIQ III-2	20-35	210	470	320	7.8	430	30.6	1.88	5.96	6,925	3,650	807
NIQ III-3	60-70	270	440	290	5.2	448	28.7	1.52	5.69	7,611	3,383	652
NIQ III-4	110-120	240	460	300	2.8	467	32.9	1.47	5.83	7,048	3,513	683
NIQ III-5	140-155	280	420	300	1.5	469	39.1	1.34	4.79	8,557	3,156	517