

Yellowknife Community Garden Collective
Site 1a - Formerly Site 2 Soil

Overall Physical and Chemical Properties

Date	Parameter	Value	Optimal Value	Notes
Fall 2012	pH	6.9	6 - 7	
	Texture			

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CCME Contaminant Guideline - Agriculture			
Parameter	Value	CCME Contaminant Guideline - Agriculture (mg/kg)	Nutrient Recommended
Antimony (Sb)	0.2	20	
Arsenic (As) -inorganic	6.1	12	
Barium (Ba)	40	750	
Beryllium (Be)	0.1	4	
Boron (B)	0.9	2	>3.5 excessive *
Cadmium (Cd)	0.07	1.4	
Chromium (Cr)	7.5	64	
Cobalt (Co)	2.1	40	
Copper (Cu)	8	63	>1.0
Lead (Pb)	2	70	
Mercury (Hg) - inorganic	0.01	6.6	
Molybdenum (Mo)	1	5	
Nickel	5.6	50	
Selenium (Se)	0.8	1	
Silver (Ag)	0.1	20	
Thallium (Th)	0.05	1	
Tin (Sn)	1	5	
Vanadium (V)	7.2	130	
Zinc (Zn)	16	200	

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Nutrient	Soil Test Result (ppm)	Soil Test Result (kg/ha) *	Depth (cm)	Nutrient Deficient (kg/ha)			Nutrient Marginal (kg/ha)			Nutrient Adequate (kg/ha)		
				<24	24-45	46-67	68-90	91-112	113-134	136-157	158-179	>179
N-Nitrate	9	36	0-60 cm	<24	24-45	46-67	68-90	91-112	113-134	136-157	158-179	>179
N-NH ₄ ⁺												
Phosphorus (P)	80	320	0-15 cm	<12	12-22	24-28	29-34	35-45	46-56	57-78	79-101	>101
Potassium (K)	96	384	0-15 cm	<57	57-112	113-168	169-224	225-280	281-336	337-448	449-672	>672
Sulphur (S)			0-60 cm	<7	7-11	12-17	18-22	24-28	29-34	35-45	46-56	>56
Sulphate (SO ₄ ²⁻)	270	1080										
* We have assumed a soil depth of 30 cm (12") to convert soil test values from ppm to kg/ha. Calculation: kg/ha = ppm x 2 x sample depth (30cm) / 15 cm, as suggested by the Practical Use of Soil Analysis Guide.												