

College of Natural Resources (CNR) ICP Usable elements and Detections Limits

Note: Detection limit is 3 times the standard deviation of the noise.

For Precise Results, a minimum of 5-10 times the detection limit is normally used.

Element	ICP-OES (µg/L)
Ag	0.6
Al	1
As	2
Au	1
B	1
Ba	0.03
Be	0.09
Bi	1
Br	
C	
Ca	0.05
Cd	0.1
Ce	1.5
Cl	
Co	0.2
Cr	0.2
Cs	
Cu	0.4
Dy	0.5
Er	0.5
Eu	0.2
F	
Fe	0.1
Ga	1.5
Gd	0.9
Ge	1
Hf	0.5
Hg	1
Ho	0.4
I	
In	1
Ir	1
K	1
La	0.4
Li	0.3
Lu	0.1
Mg	0.04
Mn	0.1
Mo	0.5
Na	0.5
Nb	1
Nd	2
Ni	0.5
Os	6
P	4
Pb	1

Element	ICP-OES(µg/L)
Pd	2
Pr	2
Pt	1
Rb	5
Re	0.5
Rh	5
Ru	1
S	10
Sb	2
Sc	0.1
Se	4
Si	10
Sm	2
Sn	2
Sr	0.05
Ta	1
Tb	2
Te	2
Th	2
Ti	0.4
Tl	2
Tm	0.6
U	10
V	0.5
W	1
Y	0.2
Yb	0.1
Zn	0.2
Zr	0.5