

Residue mass 0.2 mg
 Acid digest 4.2 mL
 Sample dilution 2 times
 residue conc 0.047619048 mg/mL

NH4Cl in soln 40.07 g

ICP-OES results

Sample A (residue sample)

Atom	Conc (ppb)	conc (ug/L soln)	undiluted conc (ug/L soln)	mass in residue (ug)	conc in NH4Cl solute (ug/kg)	conc in NH4Cl (ppb)
Chromium	310	310	310	620	2.604	64.98627402
Manganese	1.1	1.1	1.1	2.2	0.00924	0.230596456
Iron	2100	2100	2100	4200	17.64	440.2295982
Nickel	13	13	13	26	0.1092	2.725230846
magnesium	8.6	8.6	8.6	17.2	0.07224	1.802845021
calcium	190	190	190	380	1.596	39.83029698
Molybdenum	120	120	120	240	1.008	25.15597704

Sample B (Control)

Atom	Conc (ppb)	conc (ug/L soln)	undiluted conc (ug/L soln)	mass in residue (ug)	conc in NH4Cl solute (ug/kg)	conc in NH4Cl (ppb)
Chromium	5.4	5.4	5.4	10.8	0.04536	1.132018967
Manganese	0.059	0.059	0.059	0.118	0.0004956	0.012368355
Iron	6.6	6.6	6.6	13.2	0.05544	1.383578737
Nickel	0.2	0.2	0.2	0.4	0.00168	0.041926628
magnesium	1.7	1.7	1.7	3.4	0.01428	0.356376341
calcium	160	160	160	320	1.344	33.54130272
Molybdenum	0.82	0.82	0.82	1.64	0.006888	0.171899176

ICP-MS results

Sample A

atom	wavelength	conc (mg/L)	undiluted conc (mg/L)	mass in residue (mg)	conc in NH4Cl solute (mg/kg)	conc in NH4Cl (ppb)
Phosphorus	177.4	0.746707238	1.493414477	0.006272341	0.156534585	156.5345845
Phosphorus	178.2	0.740042286	1.480084571	0.006216355	0.15513739	155.1373895
Phosphorus	213.6	0.702570488	1.405140975	0.005901592	0.147282059	147.2820588
Phosphorus	214.9	0.725067967	1.450135935	0.006090571	0.151998276	151.9982761 152.7381
Sulphur	180.7	0.243809065	0.48761813	0.002047996	0.05111046	51.11046034
Sulphur	182	0.234164261	0.468328522	0.00196698	0.04908859	49.08858978 50.09953

Sample B

atom	wavelength	conc (mg/L)	undiluted conc (mg/L)	mass in residue (mg)	conc in NH4Cl solute (mg/kg)	conc in NH4Cl (ppb)
Phosphorus	177.4	-0.067625722	-0.135251443	-0.000568056	-0.014176592	-14.1765925
Phosphorus	178.2	-0.073941842	-0.147883684	-0.000621111	-0.015500661	-15.5006607
Phosphorus	213.6	-0.058332267	-0.116664534	-0.000489991	-0.012228376	-12.22837639
Phosphorus	214.9	-0.0658125	-0.131625	-0.000552825	-0.013796481	-13.79648113 -13.9255
Sulphur	180.7	0.22211478	0.444229561	0.001865764	0.046562619	46.56261928
Sulphur	182	0.205685032	0.411370064	0.001727754	0.0431184	43.11839952 44.84051