

SOILS - Detection, Preservation and Sampling Requirements

Test	Routine Detection	Container	Volume	Preservation	RHT	Reference
Acid Sulfate Soils	Various	P Vial	100g	Freeze/ cool	28d / 2 d	QASSMAC
Agricultural Soils	Various	Bag	200g	Nil/ cool	n/a	R&L
Asbestos		Bag	50g	Nil	n/a	AS
ASS	5 moles H+/ tonne	Bag	100g	Remove air and freeze ziplock bag	28d	QASSMAC
AVS	1 moles H+/ tonne	2 vials	100g	Remove air and freeze ziplock bag	<24h	QASSMAC
BTEX+C6-C9		G	20g	Cool to 4°C	14d	USEPA
Carbon-TOC	0.01%C	G	20g	Air Dry	7d	NEPM
Conductivity	0.01 dS/m	P/G	20g	Air Dry	7d	NEPM
Chloride	5 ppm	P/G	20g	Air Dry or Field Moist	7d	NEPM
Cyanides		P/G	20g	Air Dry	7d	NEPM
Field Peroxide	..	Bag	100g	Field Moist	<24h	QASSMAC
Foreign Material	<0.05%	Bag	1kg	Nil	n/a	NEPM
Flouride		P	20g	Air dry or field Moist	7d	NEPM
Hexavalent Cr		P/G	20g	Cool to 4°C	28d	USEPA
Herbicides		G	20g	Cool to 4°C	14d	USEPA
Metals	1ppm	P/G	20g	nil	6m	USEPA
Mercury	0.1ppm	P/G	20g	Cool to 4°C	28d	USEPA
Moisture	0.50%	P/G	20g	Cool to 4°C	7d	NEPM
OC/OPS		G	20g	Cool to 4°C	14d	USEPA
pH	..	P/G	20g	Air Dry	7d	NEPM
PCB'S		G	20g	Cool to 4°C	14d	USEPA
Phenols		G	20g	Cool to 4°C	14d	USEPA
PAH'S		G	20g	Cool to 4°C	14d	USEPA
Sulphate	3ppm	P/G	20g	Air Dry or Field Moist	7d	NEPM
SPOCAS		P	100g	Remove air and freeze ziplock bag	28d	QASSMAC
SVOC's		G	20g	Cool to 4°C	14d	USEPA
TCLP		P/G	50g	As per Analyte of interest
TPH (C6-9)		G	20g	Cool to 4°C	14d	USEPA
VOC's		G	20g	Cool to 4°C	14d	USEPA

Notes:

1. ppm = mg/L; ppb = µg/L; 1% = 10,000ppm

2. References: APHA=Standard Methods for Examination of Waters and Wastewaters, 22nd Ed. AS= Australian Standard 5667.1:1998 Water Quality Sampling; ISO=ISO 5667.3 2008; USEPA= USEPA SW846; NEPM = Schedule B(3) 1999.