Recommended Preservation and Container Guide

Parameter	Container	Lab Analysis Portion (g) [1]	Eurofins Preferred Preservation	Recommended Holding Times (HTs)
Acid Sulfate Soil (pH_{FIELD} & pH_{FOX})	P	50	Freeze, exclude air	24 hours #
Acid Sulfate Soil (SPOCAS/CrS)	P	50	Freeze, exclude air	24 hours #
Alcohols	G	20	Cool to less than 6°C, Zero Headspace	14 days*
Asbestos Containing Material (AS4964)	P, Doubled Bag	2 cm x 2cm (minimum)	None, separate sample required	indefinite
Asbestos (AS4964)	P	50	None, separate sample required	indefinite
Asbestos (NEPM or WA Guidelines)	P	500 mL	None, separate sample required	indefinite
BTEX / TRH (>C6-C10)	G	20	Cool to less than 6°C, Zero Headspace	14 days*
Bulk Density	G	500		14 days*
Cation Exchange Capacity, Exchangeable Cations	G	50	Cool to less than 6°C	28 days NEPM 2013
Chloride, Bromide, Nitrate, Sulfate (1:5 aqueous extract)	G	10	Cool to less than 6°C	28 days NEPM 2013
Cyanide, Total [2]	G	20	Cool to less than 6°C	14 days NEPM 2013
Dioxins/Furans/DL-PCBs/PBDEs	G	50	Cool to less than 6°C	12 months
Explosives	G	50	Cool to less than 6°C	14 days*
Foreign Materials (RMS NSW Method T276)	P	6000	None, separate sample required	14 days
Iodide	G	20	Cool to less than 6°C	28 days
Metals (except Mercury or Chromium VI)	G	20	Cool to less than 6°C	6 months NEPM 2013
Mercury or Chromium VI	G	20	Cool to less than 6°C	28 days NEPM 2013
Micro (E. Coli, FC, TC etc.)	P (sterile)	125	Cool to less than 6°C	48 hours
Moisture	G	20	Cool to less than 6°C	14 days NEPM 2013
pH	G	20	Cool to less than 6°C	24hours recommended NEPM 2013 7 days allowed NEPM 2013
EC	G	20	Cool to less than 6°C	7 days NEPM 2013
Phenols (Totals or Speciated)	G	20	Cool to less than 6°C	14 days*
Phenoxy Acid Herbicides	G	20	Cool to less than 6°C	14 days*
Semi-Volatile Organic Compounds (SVOC)	G	50	Cool to less than 6°C	14 days NEPM 2013
PCBs (Dioxin-like PCBs, Aroclor, Congener group)	G	50	Cool to less than 6°C	28 days NEPM 2013
Per- and Polyfluoroalkyl Substances (PFAS)	P	10	Cool to less than 6°C, no teflon liner	28 days, extracts within 28 days
Per- and Polyfluoroalkyl Substances (PFAS)	P	10	Freeze ≤-20 °C, no teflon liner	90 days[3], extracts within 28 days
Total Fluoride	G	20	Cool to less than 6°C	28 days
Total Organic Carbon	G	20	Cool to less than 6°C	28 days
TRH (>C6-C10) plus BTEX	G	20	Cool to less than 6°C, Zero Headspace	14 days*
Volatile Organic Compounds (VOC) except Vinyl Chloride, Styrene or 2-Chloroethyl Vinyl Ether	G	20	Cool to less than 6°C, Zero Headspace	14 days NEPM 2013
Vinyl Chloride, Styrene or 2-Chloroethyl Vinyl Ether	G	20	Cool to less than 6°C, Zero Headspace	7 days NEPM 2013
TPH/TRH (>C10-C40)	G	20	Cool to less than 6°C, Zero Headspace	14 days*
VOCs / VHCs / VACs / THMs	G	20	Cool to less than 6°C, Zero Headspace	14 days*
Trip Spikes/Blanks for C6-C10/BTEX (prepared in the Lab)	G	full jar	<-10°C, Zero Headspace	14 days***
Biota (Per- and Polyfluoroalkyl Substances (PFAS))[4]				
Fish (fillets, whole)	P	25	Freeze, ≤-20 °C	90 days, extracts within 28 days
Crustacea (whole, white flesh, hepatopancreas)	P	25	Freeze, ≤-20 °C	90 days, extracts within 28 days
Shell fish (whole, edible flesh)	P	25	Freeze, ≤-20 °C	90 days, extracts within 28 days
Meat [Bovine, Ovine, Porcine] (liver, kidney & tissue)	P	25	Cool to less than 6°C	28 days, extracts within 28 days
Meat [Cervine, Leporine, Caprine] (liver, kidney & tissue)	P	50	Cool to less than 6°C	28 days, extracts within 28 days
Milk [Bovine, Ovine, Caprine]	P	500 mL	Cool to less than 6°C. Do not freeze	28 days, extracts within 28 days
Cheese [Bovine, Ovine, Caprine]	P	250	Cool to less than 6°C. Do not freeze	28 days, extracts within 28 days
Eggs (Chicken - white, yolk, whole)	P	6 each	Cool to less than 6°C. Do not freeze	28 days, extracts within 28 days
Vegetables (Lettuce, Cabbage,	P	250	Cool to less than 6°C. Do not freeze	28 days, extracts within 28 days
Fruit (Avocado, Tomato, Olive, Mango)	P	250	Cool to less than 6°C. Do not freeze	28 days, extracts within 28 days
Crops (Sorghum, Wheat, Corn, Canola)	P	250	Cool to less than 6°C. Do not freeze	28 days, extracts within 28 days
Serum - BD Vacutainer®	P	2x per sample	Freeze, ≤-20 °C	90 days, extracts within 28 days
Air				
Summa Canister	T	1L, 6L	Room Temperature	30 days
Low Uptake Waterloo Membrane Samplers (LU-WMS™)	T	1	Cool to less than 6°C	30 days, extracts within 28 days
US EPA Method 325B Passive Sampler	T	1	Cool to less than 6°C	30 days
Radiello® Passive Sampler RAD130	T	1	Cool to less than 6°C	30 days, extracts within 28 days
Radiello® Passive Sampler RAD145	T	1	Cool to less than 6°C	30 days
Radiello® Passive Sampler RAD168	T	1	Cool to less than 6°C	14 days
Radiello® Passive Sampler RAD170	T	1	Cool to less than 6°C	14 days
Typical sample weights contained in standard jars (zero headspace)			**250 mL jar** = 350-420 g	
Dust Gauges - contact Lab				

REFERENCES: US EPA SW846, NEPM, EPA VIC, ISO5667, Queensland Acid Sulfate Soils Management Advisory Committee (QASSMAC), US EPA Methods 821, 533 & 1633
Please note Maximum HT's may vary upon the guideline document referenced.

NOTES:

(1) We recommend that you provide additional sample on the 1st, 11th, 21st. 31st etc sample for performance of Duplicates / Matrix Spikes. Note however that Matrix Spike determinations are not appropriate for all tests.
(2) Soil samples for cyanide analysis (in cores or jars) must be wrapped in dark plastic and kept cool at < 6°C without further treatment.
(3) Samples may need to be extracted as soon as possible if NFDHA (Nonafluoro-3,6-dioxaheptanoic acid) is an important analyte
(4) Contact laboratory for specific advice and specially cleaned containers in accordance with US EPA Method 1633
* Extract within 14 days and analyse within 40 days (Eurofins preference is to extract within 7 days for volatiles where sufficient time available).
** Eurofins preference is to analyse as soon as possible
*** Shelf life in matrix (sand) is low if not frozen, therefore freeze if storing or return to lab with samples immediately
# where acidity (hence liming rates) is captured in actual and potential acidity, analysis within one week should be satisfactory. Samples can be dried at 80°C to extend holding time
except Metals/OCPs/PCBs 28 days

CONTAINERS:
P = Plastic (HDPE or equivalent, NO teflon lined lid)
G = Glass (teflon lined lid)
T = Tube

Soil, Sediment, Biosolids & Tissue samples are discarded two months from the date received unless otherwise arranged.

Eurofins | Environment Testing - APAC Contact Details

LOCATION	DELIVERY ADDRESS	TELEPHONE	E-MAIL	MOBILE NUMBERS
Adelaide	9 Main Terrace, Richmond SA 5033, AUSTRALIA	+61 8 8154 3100	EnviroSampleSA@eurofins.com	+61 409 801 765
Brisbane	Unit 1, 21 Smallwood Place, Murarrie QLD 4172, AUSTRALIA	+61 7 3902 4600	EnviroSampleQLD@eurofins.com	-
Darwin	Unit 3, 83 Coonawarra Road, Winellie NT 0820, AUSTRALIA	+61 8 8154 3103	EnviroSampleDRW@eurofins.com	+61 428 489 614
Geelong	19/8 Lewalan Street, Grovedale, VIC 3216, AUSTRALIA	+61 3 8564 5000	EnviroSampleVIC@eurofins.com	
Mayfield East	4/52 Industrial Drive, Mayfield East, NSW 2304 AUSTRALIA	+61 3 8564 5000	EnviroSampleVIC@eurofins.com	-
Melbourne	6 Monterey Road, Dandenong South VIC 3175, AUSTRALIA	+61 3 8564 5000	EnviroSampleVIC@eurofins.com	-
Newcastle	Unit 7, 7 Friesian Close, Sandgate, NSW 2304, AUSTRALIA	+61 2 9900 8490	EnviroSampleNTL@eurofins.com	+61 410 220 750
Perth	46-48 Banksia Road, Welshpool, WA 6106, AUSTRALIA	+61 8 253 4444	EnviroSampleWA@eurofins.com	+61 423 955 590
Sydney	Unit F3, Lane Cove Business Park, 16 Mars Road, Lane Cove West, NSW 2066, AUSTRALIA	+61 2 9900 8400	EnviroSampleNSW@eurofins.com	-
Wollongong	Unit 16, 7 Investigator Drive, Unanderra NSW 2526, AUSTRALIA	+61 2 9900 8492	EnviroSampleWOLL@Eurofins.com	+61 447 584 487
Auckland	35 O'Rorke Road, Penrose, Auckland, Auckland 1061, NEW ZEALAND	+64 9 579 2669 X707	EnviroSampleAKL@eurofins.com	-
Christchurch	43 Detroit Drive, Rolleston, Christchurch, 7675, NEW ZEALAND	+64 3 343 5227	EnviroSampleCHC@eurofins.com	+64 277 660 233
Wellington	85 Port Road, Seaview, Lower Hutt 5010 NEW ZEALAND	+64 9 579 2669	EnviroSampleAKL@eurofins.com	+64 277 660 234