

Con-Test Sampling Guide

Con-Test Analytical Laboratory

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Water Sampling

A = amber glass P = plastic



(Any tests highlighted in red have a short holding time)

UNPRESERVED Wet Chemistry		
Common Tests	Bottle	Holding Time
Alkalinity*	250mL P	14 day
(* fill entire bottle - no headspace)		
BOD/CBOD	500mL P	48 hr
Bromide	250mL P	28 day
Chloride	250mL P	28 day
Color	250mL P	24 hr
Conductivity	250mL P	28 day
Dissolved Oxygen	D.O. bottle	immediately
Fixed Solids	250mL P	7 day
Flashpoint	Flashpt bottle	14 day
Fluoride	500mL P	28 day
Hexavalent Chromium	250mL P	24 hr
Nitrite (NO₂)	250mL P	48 hr
Odor	250mL A	immediately
ORP	250mL P	24 hr
Ortho Phosphate	250mL P	48 hr
pH	250mL P	immediately
Reactivity (CN, S)	500mL P	14 day
Settleable Solids	1L P	48 hr
Sulfate (SO ₄)	250mL P	28 day
Surfactants (MBAS)	500mL P	48 hr
TS - total	250mL P	7 day
TDS - dissolved	250mL P	7 day
TSS - suspended	250mL P	7 day
TVS - volatile	250mL P	7 day
TRC - residual	250mL P	24 hr
Turbidity	250mL P	48 hr

UNPRESERVED Semi-Volatile		
DRO	2 x 1L A	7 day
ETPH	2 x 1L A	7 day
Herbicide (8151)	2 x 1L A	7 day
Pesticide (8081, 608)	2 x 1L A	7 day
PCB (8082, 608)	2 x 1L A	7 day
SVOC (8270, 625)	2 x 1L A	7 day
TPH 8100	2 x 1L A	7 day
TPH 8015**	2 x 1L A	7 day

(** Fingerprint)

BACTERIA		
Total/Fecal Coliform*	Sterile 100mL	30 hr
(* by colisure presence/absence)		
Total Coliform (count)	Sterile 100mL	30 hr
Fecal Coliform (count)	Sterile 100mL	6 hr
Enterococci	Sterile 100mL	30 hr

Inorganic Compounds:	As, Ba, Be, Cd, Cr, Hg, Na, Ni, Sb, Se, Ti, Cyanide, Fluoride
ConTest Potability Package:	Bacteria (colisure), NO ₃ /NO ₂ , pH, Hardness, Na, Fe, Mn, Chloride, Alkalinity

HYDROCHLORIC ACID Preserved HCL		
525 **	2 x 1L A	7 day
EPH	2 x 1L A	14 day
Ferrous Iron	250mL A	7 day
TOC	2 x 40mL vial	28 day
EDB/DBCP (504) ***	3 x 40mL vial***	14 day
GRO **	3 x 40mL vial	14 day
VOC (any) **	3 x 40mL vial	14 day
VPH **	3 x 40mL vial	14 day

** (VOC include 524, 624, & 8260; all vials filled to top, no headspace) If water is chlorinated, 624 and 525 need Sodium Thiosulfate and 524 needs Ascorbic Acid preservatives; 624, 524 and 525 then need HCL preservative in the field.
*** 504 needs Sodium Thiosulfate preservative only (NO HCL required).
524 requires a Trip Blank.

NITRIC ACID Preserved HNO ₃		
Calcium Hardness	250mL P	180 day
Hardness	250mL P	180 day
Total Metals	250mL P	180 day Hg - 28 day
Dissolved Metals: If Field Filtered	250mL P (with HNO ₃)	180 day Hg - 28 day
Dissolved Metals: If Lab to Filter	250mL P (non-preserved)	24 hr

SULFURIC ACID Preserved H ₂ SO ₄		
Ammonia (NH ₃)	250mL P	28 day
COD	250mL P	28 day
FOG 1664 (HEM)	2 x client spec.	28 day
Nitrate/Nitrite NO ₃ /NO ₂	250mL P	28 day
Nitrate (NO₃)	250mL P + 250mL P non pres	48 hr
Phenol	500mL A	28 day
TKN	250mL P	28 day
Total Nitrogen	500mL P	28 day
Total Phosphate	250mL P	28 day
TOX	Flashpt bottle	28 day
TPH 1664 (SGT)	2 x 1L A	14 day

SODIUM HYDROXIDE Preserved NaOH		
Cyanide	250mL P	14 day
Free Cyanide	250mL P	14 day
PAC	250mL A	14 day
Sulfide**	250mL P	7 day

(** NaOH + Zinc Acetate)
((These tests should be preserved in the field!!))

Secondary Contaminants:	Ag, Al, Ca, Cu, Fe, K, Mg, Mn, Zn, Alkalinity, Chloride, Color, Hardness, Odor, pH, SO ₄ , Turbidity, TDS
Title V:	Bacteria (colisure), Ammonia, Nitrate

Samples requiring QC (MS, MSD, DUP) may require additional sample bottles. Many tests can be combined into one larger bottle. All samples should be kept cool (2 - 6°C). Call with any questions: 1-413-525-2332

Doc #317 Con-Test Sampling Guide Rev. 4

Con-Test Sampling Guide

Soil & Air Sampling



(Any tests highlighted in red have a short holding time)

A = amber glass

Common Tests	Bottle	Holding Time
Alkalinity		28 day
Ammonia		28 day
Chloride		28 day
COD		28 day
Conductivity		28 day
Cyanide		28 day
DRO		28 day
EPH		14 day
ETPH		14 day
Flashpoint		14 day
Herbicide (8151)		14 day
Hex Chrome**		(24 hr) 28 day
Ignitability		28 day
Metals (any)		180 day/Hg 28 day
Nitrate		28 day
Nitrite		28 day
ORP		24 hr
PAC		28 day
PAH		14 day
Paint Filter		28 day
PCB (8082)		14 day
Pesticide (8081)		14 day
pH		24 hr
Phenol		28 day
Phosphate (any)		28 day
Reactivity		28 day
Solids, Volatile (TVS)		28 day
Sulfate		28 day
SVOC (8270)		14 day
TCLP/SPLP (any)		varies on test
TKN		28 day
TOC		28 day
Total Nitrogen		28 day
TPH (any)		14 day

Any combination of 8oz A or 16oz A (wide mouth). Usually many of these tests can be combined into 1-2 soil jars (sometimes even 3 if TCLP/SPLP is involved). If MA, **Hex Chrome requires its own 4oz amber jar filled with minimal headspace and pH and ORP must be analyzed within 24 hours of collection.

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Soil Groups

RCRA 5 metals	As, Cd, Cr, Hg, Pb
RCRA 8 metals	Ag, As, Ba, Cd, Cr, Hg, Pb, Se
Priority Pollutant 13 (PP13) metals	Ag, As, Be, Cd, Cr, Cu, Hg, Ni, Pb, Sb, Se, Tl, Zn
MCP 14 metals	Ag, As, Ba, Be, Cd, Cr, Hg, Ni, Pb, Sb, Se, Tl, V, Zn
RCP 15 metals	Ag, As, Ba, Be, Cd, Cr, Cu, Hg, Ni, Pb, Sb, Se, Tl, V, Zn
23 TAL metals	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn
Plating metals	Ag, Cd, Cr, Cu, Ni, Pb, Zn
Full Priority Pollutant	624 Volatile, 625 Semi-volatile, 608 Pest/PCB, PP13 metals, Cyanide, Phenol
TTO (Total Toxic Organics)	624 Volatile, 625 Semi-volatile, 608 Pest/PCB
Full TCLP	8260 Volatile, 8270 Semi-volatile, 8081 Pesticide, 8151 Herbicide, RCRA 8 metals
Aggregate Disposal, Bardon Trimount, Ondrick	8260 Volatile, TPH 8100, Flashpoint, pH, Reactivity, PCB, RCRA 5 metals
COMM 97 Landfill Contaminants	8260 Volatile, 8270 Semi-volatile, PCB, TPH 8100, RCRA 5 metals, Conductivity

*** Material other than soil (Roof Shingle, Paint Chips, Wood, Dust, Concrete, Caulking, and other solids) can use any sized jar (amber or clear glass) that will accommodate the volume of sample. ***

AIR TESTING

Test	Air Media	Holding Time
3C	Summa Can	30 day
APH	Summa Can	30 day
Formaldehyde	Summa/Silco Can	14 day
TO-4	PUF Cartridge	14 day
TO-10	PUF Cartridge	14 day
TO-11	DNPH Tube	14 day
TO-13	PUF Cartridge	14 day
TO-14	Summa Can	30 day
TO-15	Summa Can	30 day
TO-17	Special Tube	30 day

Any air test received in a Tedlar Bag should be analyzed ASAP, but there is no recommended holding time.

VOC Testing		
(If only testing for VOC's, include a 2oz jar for % solids)		
GRO	1 x MeOH vial (15mL)	28 day
VPH	1 x MeOH vial (15mL)	28 day
8260 TCLP/SPLP by ZHE	1 x 25g Encore	48hr to freeze
8260 - CT	1 x MeOH vial (5mL), 2 x DI Water vials	14 day on MeOH, 48hr to freeze DI vials
8260 - MA	1 x MeOH vial (5mL), 2 x Sodium Bisulfate vials or 2 x DI Water vials	14 day (if using DI vials - 48hr to freeze)
8260 - any other region	1 x MeOH vial (5mL), 2 x Sodium Bisulfate vials	14 day

Please visit our website for other helpful resources and links at:

www.contestlabs.com

Our complimentary Courier service is available Monday - Friday. We can pickup your samples at your office OR your site. **Call us 8:00AM - 5:00PM.**

You can also download our iLab App for your Mobile device.