



Sample Procedures & Requirements

ORGANIC - WATER

| PARAMETER | MIN. VOL. (ml) | CONTAINER | PRESERVATIVE | HOLDING TIME | |
|---|----------------|------------|--------------------------------|--------------|-------------------------|
| | | | | PRESERVED | UNPRESERVED |
| BNAE/Chlorophenols/Phthalates/Phenols/Phenoxy Acids | 2 x 1L * | AG, TC | None | - | 14 Days |
| Carbamates / OP Pest / Triazines | 2 x 500 | AG, TC | None | - | 7 Days |
| Diquat/ Paraquat | 2 x 250 | PB | None | - | 14 Days |
| Nonylphenol/Nonylphenol Ethoxylates | 2 x 100 | AG | HCl | 14 Days | Must be field preserved |
| OC Pest + PCBs | 2 x 500 | AG, TC | None | - | 14 Days |
| Oil & Grease/Heavy Oils | 2 x 1L * | AG, TC | H ₂ SO ₄ | 28 Days | - |
| PAHs | 2 x 100 | AG, TC | None | - | 14 Days |
| PHC F1/BTEX/VOCs/1,4-Dioxane/THMs/Freons | 3 X 40 | AG, NH, SV | NaHSO ₄ | 14 Days | 7 Days |
| PHCs F2-F4/CCME F4G | 2 x 100 | AG, TC | HCl | 14 Days | 7 Days |

INORGANIC - WATER

| PARAMETER | MIN. VOL. (ml) | CONTAINER | PRESERVATIVE | HOLDING TIME | |
|--|----------------|-----------|---|--------------------|-------------------------|
| | | | | PRESERVED | UNPRESERVED |
| Alkalinity / Acidity | 100 | PB | None | - | 14 Days |
| Ammonia | 100 | PB | H ₂ SO ₄ | 14 Days | 7 Days |
| Anions (NO ₂ , NO ₃ , PO ₄ / Br, Cl, F, SO ₄) | 60 | PB | None | - | 7/28 Days |
| BOD/cBOD | 500 | PB | None | - | 4 Days (MISA)/7 Days |
| Carbon (DOC, TOC) | 100 | PB | H ₂ SO ₄ | 28 Days | 10 Days |
| Carbon (DIC, TIC) | 60 | PB | None | - | 30 Days |
| Chemical Oxygen Demand (COD)/ Phosphorus (Total) | 100 | PB | H ₂ SO ₄ | 28 Days | 4 Days |
| Chromium VI | 50 | PB | Buffer Solution | 28 Days | 24 Hours |
| Conductivity (EC) | 60 | PB | None | - | 28 Days |
| Colour | 60 | PB | None | - | 14 Days |
| Cyanide (CN), Free/Total | 60 | PB | NaOH | 14 Days | Must be field preserved |
| Ferrous Iron | 2 x 40 | AG | HCl | 7 Days | 24 Hours |
| Mercury (Dissolved) – field filtered | 2 x 40 | AG | HCl | 28 Days | Must be field preserved |
| Mercury (Total) – not filtered | 2 x 40 | AG | HCl | 14 Days | Must be field preserved |
| Metals (Dissolved) – field filtered | 60 | PB | HNO ₃ | 60 Days | Must be field preserved |
| Metals (Total) – not filtered | 100 | PB | HNO ₃ | 60 Days | Must be field preserved |
| Microbiology (HPC, E.coli, Fecal & Total) | 2 x 100 | PB | Na ₂ S ₂ O ₃ / Sterile | 48 Hours | Must be field preserved |
| ORP/Residual Chlorine | 2 x 40 | AG | None | 24 Hours As Rec'd | - |
| Phenols | 100 | AG | H ₂ SO ₄ | 28 Days | - |
| pH | 40 | PB | None | - | 4 Days (MISA) |
| Solids (TS, TSS, TDS, VSS, TVS) | 250 | PB | None | - | 7 Days |
| Sulphide (S ²⁻) | 60 | PB | NaOH/ZnAc | 28 days | Must be field preserved |
| TKN | 100 | PB | H ₂ SO ₄ | 14 (MISA) /28 Days | - |
| Turbidity | 50 | PB | None | - | 48 Hours |
| UV Transmittance | 250 | AG | None | - | 48 Hours |

ORGANIC - SOIL

| PARAMETER | MIN. VOL. (g) | CONTAINER | PRESERVATIVE | HOLDING TIME | |
|---|---------------|-----------|--------------|--------------|-------------------------------|
| | | | | PRESERVED | UNPRESERVED |
| ABN/Phthalates/Phenols/Chlorophenols/PAHS/OC Pest | 50 | AG/CG, TC | None | - | 60 Days |
| PHC F1/BTEX/VOC/1,4- Dioxane | 5** | SV | Methanol | 40 Days | Hermetic Sampler: 48 Hours |
| Oil & Grease/Heavy Oils | 50 | AG/CG, TC | None | - | 28 Days |
| OP Pest/Triazines/Carbamates/Phenoxy Acids/PHCs F2-F4 | 50 | AG/CG, TC | None | - | 14 Days |
| PCBs | 50 | AG/CG, TC | None | - | Indefinite |
| TCLP/SPLP | 200 | AG, CG | None | - | 14 days |

INORGANIC - SOIL

| PARAMETER | MIN. VOL. (g) | CONTAINER | PRESERVATIVE | HOLDING TIME | |
|--|---------------|-----------|--------------|--------------|-------------------|
| | | | | PRESERVED | UNPRESERVED |
| TKN/Carbon (TOC) | 50 | AG, CG | None | - | 28 Days |
| Anions (Br, Cl, F, NO ₃ , NO ₂ , PO ₄ , SO ₄) | 100 | AG, CG | None | - | 30 Days |
| Cyanide (CN), Free | 50 | AG, CG | None | - | 14 Days |
| Cations (Ca, Mg, Na, K) | 100 | AG, CG | None | - | 180 Days As Rec'd |
| Chromium VI | 100 | AG, CG | None | - | 30 Days |
| Metals/HWSB/SAR | 50 | AG, CG | None | - | 180 Days As Rec'd |
| Mercury | 100 | AG, CG | None | - | 28 Days As Rec'd |
| pH, Conductivity | 100 | AG, CG | None | - | 30 Days |
| Particle Size | 100 | AG, CG | None | - | - |
| TCLP/SPLP | 200 | AG, CG | None | - | 14 days |

Please contact your laboratory for more detailed sampling instructions or to notify of incoming RUSH samples.

SAMPLING NOTES

- For more detailed sampling instructions or for specific parameters within packages, please contact AGAT Laboratories.
- Coolers and sample containers are available from AGAT. All samples must be kept cool (< 10°C) and should be transported to the laboratory as soon as possible. Do not freeze microbiology samples.
- Specific requirements may differ by region, please contact AGAT Laboratories for more details.
- All holding times are preferred maximums and are based on regulatory requirements or requirements set forth by the analytical method; holding times may vary depending on the required application.
- For oil/product samples, maximum of 10mL of sample is to be provided. Please use an unpreserved 40mL vial for VOC/OC/PCB analysis.
- * 800mL in a 1L AG bottle
- ** 5g of soil in methanol or hermetic sampler is required for analysis, an additional 50ml soil jar is required for moisture content.

Container Codes

AG/AV - Amber Glass/Vial NH - No Headspace P.Bag - Plastic Bag PB - Plastic Bottle CG - Clear Glass TC - Teflon Lined Cap OP - Opaque SV - Septum Vial