

# Watercare Laboratory Services

## Bottle Guide (Liquids)



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## Metals

### M1. 100mL Plastic - Nitric Acid Preserved (Acid-Soluble)

**Used for:** Acid-soluble metals

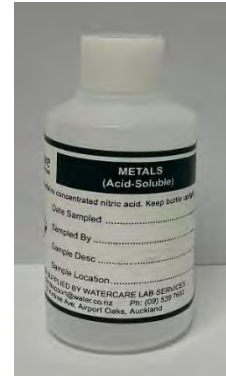
**Sampling info:** Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the acid preservative). Ensure the lid is screwed down firmly

**Preservative:** Nitric acid

**Safety:** Sample bottle contains concentrated acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid preservative

**Bottle code:** MET-AC-SOL\_0100

**Label:**



### M2. 100mL Plastic - Nitric Acid Preserved (Client-Filtered)

**Used for:** Soluble metals (where the sample has been filtered in the field)

**Sampling info:** Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the acid preservative). Ensure the lid is screwed down firmly. Note: if using our filters, refer to M8.

**Preservative:** Nitric acid

**Safety:** Sample bottle contains concentrated acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid

**Bottle code:** MET-MF-CF\_0100

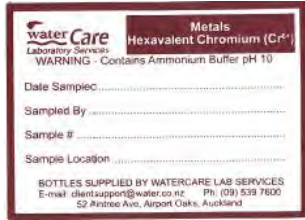
**Label:**



**M3. 100mL Plastic - Ammonium Buffer Ph 10 Preserved (Cr6+)**

**Used for:** Chromium 6+  
**Sampling info:** Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the preservative). Ensure the lid is screwed down firmly  
**Preservative:** Ammonium buffer pH 10  
**Safety:** Sample bottle contains ammonium buffer. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid  
**Bottle code:** CR-HEX\_0100

**Label:**



**M4. 250mL Plastic – Nitric Acid Treated (Lab-Filtered Metals)**

**Used for:** Soluble metals  
**Sampling info:** Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace  
**Safety:** Sample bottle washed and treated with nitric acid  
**Bottle code:** MET-DI-T\_0250

**Label:**



**M5. 100mL Plastic - Nitric Acid Preserved (Total Metals)**

**Used for:** Total metals (e.g. lead, copper, nickel, total hardness)  
**Sampling info:** Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the acid preservative). Ensure the lid is screwed down firmly  
**Preservative:** Nitric acid  
**Safety:** Sample bottle contains concentrated acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid  
**Bottle code:** MET-TO-T\_0100

**Label:**



**M6. 100mL Plastic - Nitric Acid Preserved (Ultra Trace Total Metals)**

**Used for:** Ultra trace metals  
**Sampling info:** Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the acid preservative). Ensure the lid is screwed down firmly. Keep bottle double bagged  
**Preservative:** Nitric acid  
**Safety:** Sample bottle contains concentrated acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid. Keep double bagged on transport back to lab  
**Bottle code:** MET-TO-U\_0100

**Label:**



**M7. 100mL Plastic – Nitric Acid Preserved (Ultra Trace Filtered Metals)**

**Used for:** Ultra trace metals  
**Sampling info:** Do not rinse prior to filling. Use a field filtration kit (M8) to filter the sample directly into the bottle to the neck of the bottle (do not overfill as this will spill the acid preservative). Ensure the lid is screwed down firmly. Keep bottle double bagged.  
**Preservative:** Nitric acid  
**Safety:** Sample bottle contains concentrated acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid. Keep double bagged on transport back to lab  
**Bottle code:** MET-DI-U\_0100

**Label:**



**M8. Field/Ultra Trace Filtration Kit**

**Used for:** Filtering sample into ultra-trace metals container or field filtration  
**Sampling info:** Don provided gloves from the bag. Pull plunger out of the syringe and attach the filter to the end of the syringe. Fill the syringe with sample up to the 60mL mark and place the plunger back into the syringe. Push down on the plunger over a sink or the environment until a few drops appear at the end of the filter. Push out ~1mL into the sink/environment before filtering the rest into the ultra-trace or field filtered container

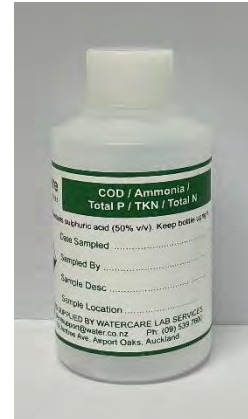


## General Chemistry

### G1. 100mL Plastic – Sulphuric Acid Preserved

- Used for:** COD, Total and Reactive Phosphorus, Total Kjeldahl Nitrogen, Ammonia, Total Nitrogen
- Sampling info:** Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the acid preservative). Ensure the lid is screwed down firmly
- Preservative:** Sulphuric acid
- Safety:** Sample bottle contains concentrated acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid preservative
- Bottle code:** H2SO4\_0100

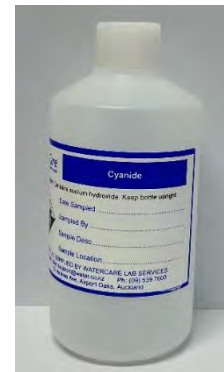
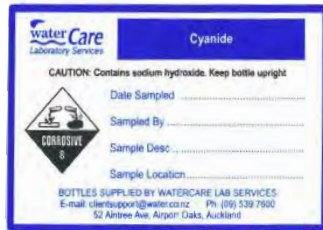
**Label:**



### G2. 250mL Plastic – Sodium Hydroxide Preserved

- Used for:** Cyanide
- Sampling info:** Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the preservative). Ensure the lid is screwed down firmly
- Preservative:** Sodium hydroxide
- Safety:** Sample bottle contains concentrated base. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid preservative
- Bottle code:** NAOH\_0250

**Label:**



### G3. 300mL Glass Stopper Jar

**Used for:** Dissolved oxygen

**Sampling info:** Fill glass jar up slowly, minimising aeration, halfway up the neck. Tap the bottle if necessary to remove any air bubbles. Add the contents of the manganese solution (reagent #1) to the bottle followed by the contents of the alkali solution (reagent #2). Insert the stopper and ensure all air is evacuated from the bottle. Mix by **INVERSION** a few times

**Safety:** Reagent #2 is highly alkaline and corrosive to the skin. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Handle both reagents with great care

**Transport info:** Sample must be received and tested at the lab on the same day

**Bottle code:** DO\_0300



**Label:**

Watercare Laboratory Services		Sample
Date Sampled	.....	
Sampled By	.....	
Sample #	.....	
Sample Location	.....	
Client Preparation	.....	
BOTTLES SUPPLIED BY WATERCARE LAB SERVICES E-mail: clientsupport@water.co.nz Ph: (09) 539 7600 52 Auntree Ave, Airport Oaks, Auckland		

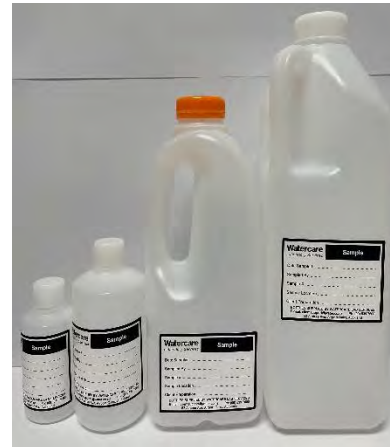
### G4. 100mL to 2L Plastic

**Used for:** pH, turbidity, colour, BOD, suspended solids, anions, salinity, UV, ultra-trace suspended solids and more

**Sampling info:** Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace

**Transport info:** Samples for general testing often are required to arrive at the lab within a certain timeframe for the testing to be viable. Enquire with the laboratory team to ensure you adhere to the method's recommend holding time

**Bottle code:** GENERAL\_0100 to GENERAL\_2000 SUSPSOL\_2000



**Label:**

Watercare Laboratory Services		Sample
Date Sampled	.....	
Sampled By	.....	
Sample #	.....	
Sample Location	.....	
Client Preparation	.....	
BOTTLES SUPPLIED BY WATERCARE LAB SERVICES E-mail: clientsupport@water.co.nz Ph: (09) 539 7600 52 Auntree Ave, Airport Oaks, Auckland		

### G5. 250mL to 2L Plastic (White with Red Lid)

**Used for:** Water/solid samples sensitive to light (e.g. Chlorophyll)

**Sampling info:** Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace

**Bottle code:** GENERAL-O\_0250 to GENERAL-O\_2000



**Label:**

Watercare Laboratory Services		Sample
Date Sampled	.....	
Sampled By	.....	
Sample #	.....	
Sample Location	.....	
Client Preparation	.....	
BOTTLES SUPPLIED BY WATERCARE LAB SERVICES E-mail: clientsupport@water.co.nz Ph: (09) 539 7600 52 Auntree Ave, Airport Oaks, Auckland		

**G6. 100mL Plastic – Ethylenediamine Preserved**

**Used for:** Oxyhalides  
**Sampling info:** Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the preservative). Ensure the lid is screwed down firmly  
**Preservative:** Ethylenediamine  
**Safety:** Sample bottle contains ethylenediamine preservative. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains preservative  
**Bottle code:** ETDIAM\_0100

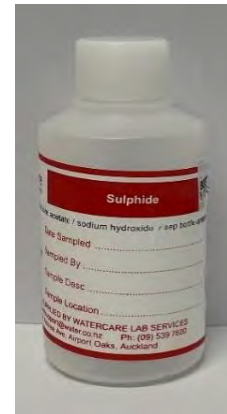
**Label:**



**G7. 100mL Plastic – Zinc Acetate and Sodium Hydroxide Preserved**

**Used for:** Sulphide  
**Sampling info:** Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the preservative). Ensure the lid is screwed down firmly  
**Preservative:** Zinc acetate and sodium hydroxide  
**Safety:** Sample bottle contains concentrated base. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains preservative  
**Bottle code:** ZNAC-NAOH\_0100

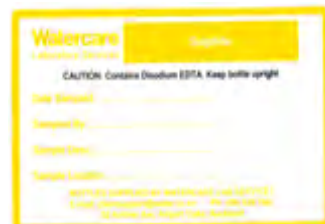
**Label:**



**G8. 100mL Plastic – Disodium Ethylene Diamine Tetra Acetic Acid Preserved**

**Used for** Sulphite  
**Sampling info** Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the preservative). Ensure the lid is screwed down firmly  
**Preservative** Disodium ethylene diamine tetra acetic acid (Na<sub>2</sub>EDTA)  
**Safety:** Sample bottle contains disodium ethylene diamine tetra acetic acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains preservative  
**Bottle code:** EDTA\_0100

**Label:**



**G9. 100mL Plastic – Cyanogen Chloride**

**Used for:** Cyanogen Chloride  
**Sampling info:** Rinse sample bottle with a small amount of the water to be sampled and then fill up without leaving any headspace. This can be achieved by also filling the lid with sample and quickly screwing it down on the full bottle.  
**Bottle code:** CNCL\_0100

**Label:**



**G10. 1L Sterile Glass – x2 (Taste and Odour – Sensory Panel)**

**Used for:** Taste and Odour by Sensory evaluation  
**Sampling info:** Rinse and fill 2x 1L sterile glass bottles, leaving minimal headspace. To be analysed within 24 hours of sample. Bottle water product can be delivered in respective packaging and analysed anytime  
**Bottle code:** STER\_1000

**Label:**





## Microbiology

### MI1. 400mL and 1L Sterile Plastic – Iodine Preserved

**Used for:** Algae

**Sampling info:** Do not rinse prior to filling. Fill the bottle with sample water to the top of the bottle. Ensure the lid is screwed down firmly iodine

**Preservative:** iodine

**Bottle code:** ALU-LU-I\_0400 ALU-LU-I\_1000

**Label:**

	<b>Algae</b> Contains: Lugol's Iodine 3ml per L
Date Sampled .....	
Sampled By .....	
Sample # .....	
Sample Location .....	
BOTTLES SUPPLIED BY WATERCARE LAB SERVICES E-mail: <a href="mailto:clientsupport@water.co.nz">clientsupport@water.co.nz</a> Ph: (09) 539 7600 52 Aintree Ave, Airport Oaks, Auckland	



**MI2. 100mL to 400mL Sterile Plastic – Sodium Thiosulphate Preserved (Bacto)**

**Used for:** Potable water microbiology (e.g. E. coli, total coliforms, HPC) on chlorinated water

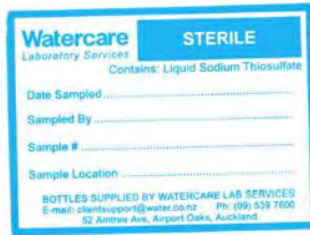
**Sampling info:** Do **NOT** rinse prior to filling. Ensure aseptic technique is used and fill to just below the neck of the bottle, leaving some head space at the top (do not overfill). Ensure the lid is correctly seated on the bottle and screw down firmly. NB: these bottles contain a small volume of liquid sodium thiosulphate to remove chlorine

**Transport info:** Sample must be received at the lab within 24 hours of sample collection. Keep samples below 10°C. For drinking water, please refer to SFSA36.

**Bottle code:** STER-NATH\_0120 STER-NATH\_0250 STER-NATH\_0400



**Label:**



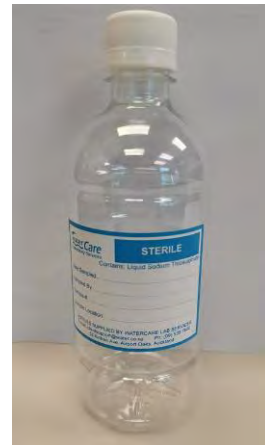
**MI3. 500mL Sterile Plastic – Sodium Thiosulphate Preserved (Pools)**

**Used for:** Swimming pool sampling

**Sampling info:** Do **NOT** rinse prior to filling. Ensure aseptic technique is used and fill to just below the neck of the bottle, leaving some head space at the top (do not overfill). Ensure the lid is correctly seated on the bottle and screw down firmly. NB: These bottles contain a small volume of liquid sodium thiosulphate to remove chlorine

**Transport info:** Sample must be received at the lab within 24 hours of sample collection. Keep samples below 10°C

**Bottle code:** STER-NATH\_0500



**Label:**



**MI4. 250mL to 1L Sterile Glass – (Bacto)**

**Used for:** Microbiology on raw or unchlorinated water

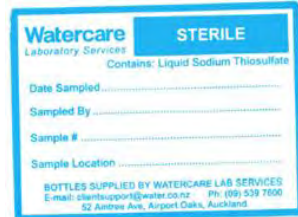
**Sampling info:** Do **NOT** rinse prior to filling. Ensure aseptic technique is used and fill up to the neck of the bottle leaving some head space at the top (do not overfill). NB: these bottles are also date stamped as their sterility expires (3 months), so check this before sampling

**Transport info:** Sample must be received at the lab within 24 hours of sample collection. Keep samples below 10°C

**Bottle code:** STER\_0250 STER\_0500 STER\_1000



**Label:**



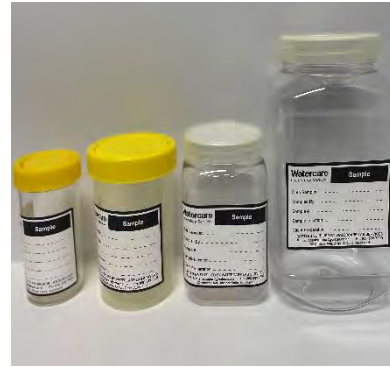
**MI5. 120mL to 1L Sterile Plastic**

**Used for:** Non-chlorinated potable water microbiology (e.g. E. coli, total coliforms, HPC, phage)

**Sampling info:** Do **NOT** rinse prior to filling. Ensure aseptic technique is used and fill to just below the neck of the bottle, leaving some head space at the top (do not overfill). Ensure the lid is correctly seated on the bottle and screw down firmly

**Transport info:** Sample must be received at the lab within 24 hours of sample collection. Keep samples below 10°C

**Bottle code:** STER\_0120 STER\_250 PHAGE\_0250 STER\_0400 STER\_1000



**Label:**

<b>Watercare</b> Laboratory Services	<b>Sample</b>
Date Sampled: .....	
Sampled By: .....	
Sample #: .....	
Sample Location: .....	
Client Preparation	
BOTTLES SUPPLIED BY WATERCARE LAB SERVICES	
E-mail: clientsupport@water.co.nz Ph: (09) 539 7600	
52 Aintree Ave, Airport Oaks, Auckland	

**MI6. 5L Plastic (White with Red Lid) – x3**

**Used for:** Giardia

**Sampling info:** Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace. To recap; remove black ring stopper and skirt to ensure the lid can be secured firmly (otherwise sample will leak). Keep samples below 20°C

**Bottle code:** GIARDIA-L\_5000

**Label:**

<b>Water Care</b> Laboratory Services	<b>GIARDIA &amp; Cryptosporidium</b>
Date Sampled: .....	
Time Sampled: .....	
Sample ID: .....	
Sample location: .....	
BOTTLES SUPPLIED BY WATERCARE LAB SERVICES	
E-mail: clientsupport@water.co.nz Ph: (09) 539 7600	
52 Aintree Ave, Airport Oaks, Auckland	



**MI7. 10L Plastic (White with Red Lid) – x2**

**Used for:** Helminths, virus

**Sampling info:** Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace. To recap; remove black ring stopper and skirt to ensure the lid can be secured firmly (otherwise sample will leak). Virus and helminths containers are reusable and kept on the micro storeroom shelves

**Bottle code:** HELMINTH\_10000 VIRUS-L\_10000

**Label:**

<b>Watercare</b> Laboratory Services	<b>Sample</b>
Date Sampled: .....	
Sampled By: .....	
Sample #: .....	
Sample Location: .....	
Client Preparation	
BOTTLES SUPPLIED BY WATERCARE LAB SERVICES	
E-mail: clientsupport@water.co.nz Ph: (09) 539 7600	
52 Aintree Ave, Airport Oaks, Auckland	



**MI8. Giardia Filtration Kit**

- Used for:** Giardia – clean water sites only
- Sampling info:** Filter, tubing, gauge, and field paperwork will arrive in a chilly bin. Further instructions on how to sample are also supplied in the chilly bin. Ensure field paperwork is returned with sample
- Transport info:** Return all equipment with sample including filter and field paperwork. Ensure sample is kept below 20°C
- Bottle code:** CENT\_220



## Organic Chemistry

### 01. 100mL Amber Glass

**Used for:** Cyanotoxins, TOC, DOC

**Sampling info:** Rinse sample bottle with a small amount of the water to be sampled and then fill up to the top ensuring all air is evacuated from the sample. This is best achieved by filling the bottle as full as possible and placing on a flat surface. Fill the lid with sample water and pour onto the bottle until a visible meniscus has formed on the top of the bottle. Hold the lid securely and quickly screw it down onto the bottle. Invert the bottle to check for air bubbles. Repeat if necessary, until there is no air visible

**Bottle code:** ORG-L\_0100

**Label:**

**Watercare** Laboratory Services **Sample**

Date Sampled .....

Sampled By .....

Sample # .....

Sample Location .....

Client Preparation .....

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E-mail: clientsupport@water.co.nz Ph: (09) 539 7600  
52 Aintree Ave, Airport Oaks, Auckland



### 02. 250mL Amber Glass – x2

**Used for:** Taste and odour

**Sampling info:** Rinse sample bottle with a small amount of the sample water and then fill to the top ensuring all air is evacuated from the sample. This is best achieved by filling the bottle as full as possible and placing on a flat surface. Ensure the septum in the lid is intact before filling it with sample water. Pour sample into the bottle until a visible meniscus has formed on the top of the bottle. Hold the lid securely and quickly screw it down onto the bottle. Invert the bottle to check for air bubbles. Repeat if necessary, until there is no air visible

**Bottle code:** TASTE-ODOR\_0250

**Label:**

**Watercare** Laboratory Services **Sample**

Date Sampled .....

Sampled By .....

Sample # .....

Sample Location .....

Client Preparation .....

BOTTLES SUPPLIED BY WATERCARE LAB SERVICES  
E-mail: clientsupport@water.co.nz Ph: (09) 539 7600  
52 Aintree Ave, Airport Oaks, Auckland



### 03. 1L Amber Glass

**Used for:** Semi Volatile Organic Compounds, Polyaromatic Hydrocarbons, Phenols, Organochlorine Pesticides, ONOPs and more

**Sampling info:** Rinse the bottle with a small amount of sample water (unless the bottle is preserved with sodium thiosulphate) and then fill to the top ensuring all air is evacuated from the sample. To achieve this fill with sample water until a visible meniscus has formed on the top of the bottle (NB: for this size bottle it is best to place it on a flat surface and fill the last bit by pouring water from the lid). Hold the lid securely and quickly screw it down. Invert the bottle to check for air bubbles. Repeat if necessary, until there is no air visible. Ensure the lid is screwed down firmly

**Preservation:** Sodium thiosulphate for treated water (only for the NATHIO\_1000 test)

**Bottle code:** NATHIO\_1000 ORG-L\_1000 ORG-L\_1000\_ONOP ORG-L\_1000\_SVOC

**Label:**

**Watercare** Laboratory Services **Sample**

Date Sampled .....

Sampled By .....

Sample # .....

Sample Location .....

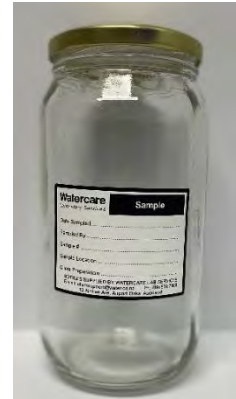
Client Preparation .....

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E-mail: clientsupport@water.co.nz Ph: (09) 539 7600  
52 Aintree Ave, Airport Oaks, Auckland



**O4. 1L Glass**

**Used for:** Oil and grease, TPH  
**Sampling info:** Rinse sample jar with a small amount of the water to be sampled and then fill up to the top of the bottle  
**Bottle code:** HC\_1000 TPH\_1000  
**Label:**



**O5. 100mL Amber Glass – Ammonium Chloride Preserved**

**Use for:** Disinfection by-products (DHA, HAA), Oxyhalides (Trace level), Acrylamide  
**Sampling info:** Do not rinse prior to filling. Fill the bottle with sample water to the top ensuring all air is evacuated from the sample. To achieve this fill with sample water until a visible meniscus has formed on the top of the bottle. Hold the lid securely and quickly screw it down. Invert the bottle to check for air bubbles. Repeat if necessary, until there is no air visible. Ensure the lid is screwed down firmly  
**Preservative:** Ammonium chloride  
**Bottle code:** NH4CL\_0100  
**Label:**



**O6. 250mL plastic - GLY**

**Used for:** Glyphosate, AMPA, 1080  
**Sampling info:** Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace  
**Transport info:** Samples for 1080 must be chilled when transporting  
**Bottle code:** ORG-L\_0250\_GLY  
**Label:**



**O7. 40mL glass vials – x2**

**Used for:** Volatile organics (VOC, THMs, BTEX), Alcohol, Formaldehyde  
**Sampling info:** As these vials contain preservative, do not rinse prior to filling. Fill the 2 vials with sample water to the top ensuring all air is evacuated from the sample. To achieve this fill with sample water until a visible meniscus has formed on the top of the vial. Ensure the septum in the lid is intact before filling with sample water and quickly screwing it down on the vial. Invert the vial to check for air bubbles. Repeat, if necessary, until there is no air visible. Ensure the lid is screwed down firmly  
**Preservative:** Sodium thiosulphate  
**Bottle code:** ORG-VIAL\_0040  
**Label:**

