

Taiga Environmental Laboratory

4601 52nd Avenue – Yellowknife, NT X1A 2R3

Phone: (867) 669-2788 Fax: (867) 669-2718 Email: taiga@gov.nt.ca

Water Sampling Instructions

Collecting the Sample



Step One: Prior to sampling, ensure you have obtained all the sampling equipment you

require, such as the proper bottles, filtration devices, *etc*. Refer to the Taiga's Water Sampling Instructions – Ordering Bottles. If there are any questions or concerns, do not hesitate to contact the laboratory. Please have your water

license (if applicable) available before contacting the laboratory to ensure

proper bottles are ordered. Note: you may need more than one bottle per sampling site.



Step Two: Check your local departure flight schedule to Yellowknife for the day you

plan to take your samples. Samples should be shipped to the Laboratory <u>as</u> <u>soon as possible</u> after collection. Time your sampling so that the samples

can be shipped out by plane as soon as possible.





Step Three: Follow the sampling instructions on the back of this sheet for each bottle

type. Package bottles in a cooler and send to the laboratory. If your require microbiological tests, such as Total Coliforms, E. coli., Fecal Coliforms, BOD, *etc.*, please contact the laboratory with the collection date and time,

the Airline name, the waybill number and the expected time of arrival.





Safety Issues: Wear appropriate gloves when collecting any sample to avoid contamination and possible

exposure to unhealthy substances. The sample preservatives provided by the Laboratory are corrosive and will cause a burning sensation on the skin. If you should spill any on your skin or clothes, rinse the area <u>immediately</u> with lots of cool water. Call a doctor

should the burning sensation continue.



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Pa	arameter Group	Marking	Preservative	Instructions
	Routine	GREEN	Keep cool at 4°C	Rinse bottle three (3) times with sample Fill to top and cap bottle.
•	Nutrients	BLACK	Keep cool at 4°C	
•	Biochemical Oxygen Demand (BOD)	PURPLE	Keep cool at 4°C	1. Rinse bottle three (3) times with sample 2. Fill to top and cap bottle. 3. Sample must be sent to laboratory within 24 hours 1. DO NOT RINSE BOTTLE 2. Fill to top and cap bottle. 3. Sample must be sent to laboratory within 24 hours 1. Rinse bottle three (3) times with sample 2. Fill to near the top. 3. Add contents of preservative vial 4. Cap bottle and mix.
	Microbiological	STERILE	Sodium thiosulphate and Keep cool at 4°C	
•	Total Metals	RED	5mL of 1:3 nitric acid in RED-dot vials	
•	Dissolved Metals	RED	5mL of 1:3 nitric acid in RED-dot vials	 Filter Sample with 0.45 μm Cellulose Acetate filter Rinse bottle three (3) times with filtrate Fill to near the top. Add contents of preservative vial Cap bottle and mix.
•	Hexane Extractable Material (HEM) (also known as Oil and Grease)	YELLOW	4mL 1:1 sulphuric acid in YELLOW-dot vial	 DO NOT RINSE BOTTLE Fill to shoulder of bottle. Add contents of preservative vial Cap bottle and mix
	BTEX, THM & Purgeable Hydrocarbons	40 mL CLEAR GLASS W/ WHITE LID	Keep cool at 4°C	 DO NOT RINSE BOTTLE Fill bottle completely leaving NO air bubbles
Ĉ	Extractable Hydrocarbons	1 L AMBER GLASS W/ WHITE LID	Keep cool at 4°C	DO NOT RINSE BOTTLE Fill to top and cap bottle.
	Cyanide	BLUE	1mL of 6N sodium hydroxide	1. Rinse bottle three (3) times with sample 2. Fill to near the top. 3. Add contents of preservative vial 4. Cap bottle and mix.
	Thiocyanate	ORANGE	2ml of 25% sulphuric acid	
P	Phenol	YELLOW with P	2mL of 20% sulphuric acid	
S	Sulphide	ORANGE with S	2mL of 25% zinc acetate	
R	Radionuclide	RED with R	25mL of 17.5% nitric acid	
Ĭ	Chlorophyll A	1L BROWN PLASTIC BOTTLE	Keep cool at 4°C	 Rinse bottle three (3) times with sample Fill to top and cap bottle. Sample must be sent to laboratory within 24 hours