

Sample Procedures & Requirements

CSR Update : Effective May 01, 2020, the Ministry will require field filtration for all environmental water samples collected for the analysis of dissolved metals (including mercury) for Contaminated Sites Regulation (CSR) and permittee compliance monitoring purposes which fall under the *Environment Management Act (EMA)*.

ORGANIC - WATER

PARAMETER	CONTAINER ³	HOLDING TIME	MIN. AMOUNT	PRES.
BTEX/VOCs/VH	AG, NH	14 days	2 x 40 ml	NaHSO ₄
Dioxins and Furans	AG	NA	2 x 1 L	None
EOX/TOX	AG	14 days	250 ml	HNO ₃
F2-F4/TEH/C60	AG	14 days	2 x 100 ml	NaHSO ₄
LEPH/HEPH/EPH	AG	14 days	2 x 100 ml	NaHSO ₄
Glycols	AG	14 days	2 x 40 ml	NaHSO ₄
Oil and Grease	AG	28 days	1 L	H ₂ SO ₄
PAH	AG	14 days	2 x 100 ml	NaHSO ₄
PCB	AG	Unlimited	2 x 250 ml	None
Phenols (Chlorinated/Non-Chlorinated)	AG	7 days	1 L	None
Sterilant/Alcohols/Pests	AG	14 days	1 L	None
Sulfolane/Amines	AG	7 days	1 L	None

INORGANIC - WATER

PARAMETER	CONTAINER	HOLDING TIME	MIN. AMOUNT	PRES.
Alkalinity	PB	14 days	100 mL	None
Ammonia	PB	28 days	50 mL	H ₂ SO ₄
Anions (except NO ₂ /NO ₃)	PB	28 days	50 mL	None
Bacterial Analysis (DW)	PB Sterile	30 hrs	300 mL	Na ₂ S ₂ O ₃
BOD	PB	3 days	1000 mL	None
Chloride	PB	28 days	50 mL	None
COD	PB	28 days	50 mL	H ₂ SO ₄
Conductivity	PB	28 days	50 mL	None
Cyanide	AG/Opaque PB	14 days	50 mL	NaOH
Dissolved Oxygen	DO Bottle	8 hours	200 mL	² see below
Hexavalent Chromium	PB	28 days	50 mL	NaOH
HPC	PB Sterile	24 hrs	300 mL	Na ₂ S ₂ O ₃
Microtox	CG, NH	3 days	250 mL	None
Mercury	AG, CG	28 days	40 mL	HCl
Metals (Dissolved)	PB	180 days	30 mL	¹ HNO ₃
Metals (Total)	PB	180 days	30 mL	HNO ₃
Nitrate + Nitrite	PB	3 days	50 mL	None
Nitrogen (Total)	PB	28 days	50 mL	HCl
pH	PB	15 min	50 mL	None
Phosphorus (Total)	PB	28 days	50 mL	H ₂ SO ₄
Reactive Silica	PB	28 days	100 mL	None
Sulfide	PB	7 days	50 mL	NaOH & ZnAc
Total Inorganic Carbon	PB	14 days	50 mL	None
Total Organic Carbon	PB	28 days	50 mL	HCl

ORGANIC - SOIL

PARAMETER	CONTAINER ³	HOLDING TIME	MIN. AMOUNT
BTEX/VOCs/VH	Hermetic	48 hours	5 g + CG
BTEX/VOCs/VH	2X Methanol Vials	40 days	5 g + CG
Dioxins and Furans	CG	NA	50 g
EOX/TOX	CG	14 days	50 g
F2-F4/TEH/C60	CG	14 days	50 g
LEPH/HEPH/EPH	CG	14 days	50 g
Napthenic Acids/Glycols	CG	14 days	50 g
Oil and Grease	CG	28 days	50 g
PAH	CG	14 days	50 g
PCB	CG	Unlimited	50 g
Phenols (Chlorinated/Non-Chlorinated)	CG	14 days	50 g
Sterilant/Alcohols/Pests	CG	14 days	50 g
Sulfolane/Amines	CG	7 days	50 g

INORGANIC - SOIL

PARAMETER	CONTAINER TYPE	HOLDING TIME	MIN. AMOUNT
Anions	P. Bag	Unlimited	200 g
Bacterial Analysis	Sterile Bag	5 days	100 g
Cations	P. Bag	180 days	200 g
Conductivity	P. Bag	28 days	200 g
Cyanide	P. Bag	14 days	50 g
Hexavalent Chromium	P. Bag	30 days	50 g
Mercury	P. Bag	28 days	50 g
Metals	P. Bag	180 days	50 g
Microtox	CG, NH	3 days	200 g
Nitrogen (Total)	P. Bag	28 days	50 g
pH	P. Bag	1 year	200 g
TCLP Metals	P. Bag	180 days	200 g
TCLP Mercury	P. Bag	28 days	200 g
Total Kjeldahl Nitrogen	P. Bag	28 days	100 g
Total Inorganic Carbon	P. Bag	28 days	100 g
Total Organic Carbon	P. Bag	28 days	100 g

Please call your dedicated Client Project Manager at 778.452.4000 for more detailed sampling instructions or to notify of incoming RUSH samples.

Container Codes

AG - Amber Glass NH - No Headspace P.Bag - Plastic Bag PB - Plastic Bottle CG - Clear Glass MeOH - Methanol OP - Opaque

5/11/2021