

Environmental contaminants and nutrients being measured in FEHNCY

Chemical Name	Where measured
Trace metals	
Arsenic, total	Blood, Urine
Cadmium	Blood, Urine
Iodine	Urine
Lead	Blood
Magnesium	Serum
Manganese	Blood
Mercury, total	Blood, Hair
Nickel	Urine
Selenium	Blood
Uranium	Urine
Nicotine and THC metabolites	
Cotinine	Urine
THC COOH	Urine
*Organochlorine Pesticides - OCs	Serum
*Polychlorinated Biphenyls - PCBs	Serum
*Polybrominated Diphenyl Ethers - PBDEs	Serum
*Per and polyfluoroalkyl substances - PFAAs	Serum
*Benzene/Toluene metabolites	Urine
*Chlorophenols metabolites	Serum
*Environmental phenols (bisphenols) and Triclosan	Serum
*Organophosphate Pesticides Metabolites - OPs	Urine
*Phthalate Metabolites	Urine
*Pyrethroid Metabolites	Urine
Lipids analyte	
Total lipids	Plasma
Creatinine	Urine

* Analytes measured only in pooled samples

Additional contaminants may also be measured in the future with additional project funding

Complete blood formula, iron and anemia biomarkers, inflammation and cardiometabolic biomarkers being measured in FEHNCY

Chemical Name	Where measured
Complete blood formula	
Hemoglobin	Blood
Corpuscular hemoglobin average	Blood
Corpuscular hemoglobin average concentration	Blood
Platelets	Blood
Average size of platelets	Blood
Erythrocytes	Blood
Hematocrit	Blood
Distribution index of red blood cells	Blood
Mean corpuscular volume	Blood
White blood cells count	Blood
Scan mixed cells (basophils, eosinophils, monocytes)	Blood
Nutritional biomarkers	
Ferritin	Serum
Iron	Serum
Transferrin and Total Iron-Binding capacity (TIBC)	Serum
Transferrin receptor	Serum
C-Reactive Protein	Serum
Vitamin A (retinol)	Serum
Total carotenoids	Serum
Folate (Vit B9)	Serum
Vitamin B12	Serum
Total vitamin D (25 Hydroxyvitamin D)	Serum
Cardiometabolic biomarkers	
Glycated haemoglobin	Blood
Insulin	Serum
Glucose	Serum
Glucose (stat)	Blood
Cholesterol	Serum
HDL	Serum
LDL calculated	Serum
Triglyceride	Serum
TSH	Serum
Free T4	Serum
Free T3	Serum
T4 total	Serum
T3 total	Serum
Hepatic health biomarkers	
Alanine aminotransferase	Serum
Aspartate transaminase	Serum
Albumin	Serum
Respiratory health biomarkers	
Total Immunoglobulin E	Serum