4.3 INORGANICS

4.3.1 SCOPE

The inorganic procedures previously presented in this section are not currently in use and are now in Volume II. These procedures were adapted for inorganic constituent analyses in air filter extract, water, rain water, and certain soils and sediments. Atomic absorption spectrometry is used for determination of metals, ion chromatography for specific anions, and a specific ion electrode is used for fluoride determination. These procedures have been thoroughly tested; accuracy, precision, and lower limits of detection have been established. Effects from interferences and contamination are detailed in each appropriate procedure.

4.3.2 Elemental Analyses

Anions-01-E

ANIONS - ION CHROMATOGRAPHY

(see Volume II)

Ca-01-E

CALCIUM - ATOMIC ABSORPTION SPECTROMETRY

(see Volume II)

Ca-02-E

CALCIUM - PERMANGANATE TITRATION OF THE OXALATE

(see Volume II)

F-01-E

FLUORIDE IN SOIL AND SEDIMENT - SPECIFIC ION ELECTRODE MEASUREMENTS

(see Volume II)

Hg-01-E

MERCURY - ATOMIC ABSORPTION SPECTROMETRY

(see Volume II)

NH_3-01-E

AMMONIUM IN WATER AND PRECIPITATION SAMPLES - AUTOCOLORIMETRY

(see Volume II)

Sr-01-E

STRONTIUM - ATOMIC ABSORPTION SPECTROMETRY

(see Volume II)

U-01-E

URANIUM IN URINE - FLUORIMETRY

(see Volume II)

4.3.3 Multielemental Analyses

M-01

CADMIUM AND LEAD IN HUMAN EXCRETA AND COMPOSITE DIET SAMPLES ATOMIC ABSORPTION SPECTROMETRY

(*see Volume II*)

M-02

PRECIPITATION AND LAKE WATER SAMPLES - PHYSICAL AND CHEMICAL MEASUREMENTS

(see Volume II)

M-03

TRACE METALS - ATOMIC ABSORPTION AND/OR EMISSION SPECTROMETRY

(see Volume II)