

C & G CONTAINERS, Inc.
Pre-Clean Division
PARAMETER CLEANING PROTOCOLS

C & G Container's Pre-clean Division provides three (3) cleaning procedures for containers and associated closures and liners.

PROTOCOL "A" for: *Semi-Volatile Organics, Metals, and Inorganics*

- ❖ **Protocol "A"** (2) Automated cleaning system using (Trace grade Nitric Acid, ASTM Type 1 water and dried)
- ❖ **Protocol "A" Parameters:** Analytes that are commonly analyzed
 - Semi-volatile Organics - Base Neutrals Acids (BNAs), TOC, O & G, DRO, TPH. Low Level PAHs
 - Organochlorine Pesticides and alpha & gamma Chlordane
 - Polychlorinated Bi-phenols (PCBs)
 - Metals +Mercury
 - Inorganics (Fluoride, Cyanide, Sulfate, Sulfide, Chloride, Alkalinity, Phenolics)

Common Containers Used:

Clear and Amber Packers, Boston Rounds, Jugs, wide mouth straight sided Soil Jars and an assortment of HDPE Plastics, LDPE Plastics and Cubitainers

PROTOCOL "C" for: *Inorganics*

- ❖ **Protocol "C"** (1) Semi-Automated cleaning system (Trace grade Hydrochloric Acid ASTM Type 1 water and dried)
- ❖ **Protocol "C" Parameters:** Analytes that are commonly analyzed
 - Inorganics BOD₅, Residues – TS, TSS, TDS, Ammonia, TKN, Nitrate, Nitrite, COD *Glass only* (TOC, O & G)

Common Containers Used:

Cubitainers, HDPE Modern Rounds, Cylinders, and Packers, Nalgene®, and straight sided Soil Jars

PROTOCOL "B" for: *Volatile Organic Compounds Plus TICs*

- ❖ **Protocol "B"** (2) Automated cleaning systems using ASTM Type I water and dried
- ❖ **Protocol "B" Parameters:** Analytes that are commonly analyzed
 - Purgeable Volatile Organics
 - Halogenated Volatile Hydrocarbons
 - Aromatic Volatile Hydrocarbons

Common Containers Used:

20, 40, and 60 ml Septa Vials, 2, 4, and 8 oz straight sided Jars with PTFE Septa

Each Protocol as A, B, and C is tested by C & G's "Third Party" Validation Laboratory at the reporting level reflected on each respective "Certificate of Analysis".