

## TABLE OF CONTENTS

-----  
VOLUME ONE

SECTION A  
-----

DISCLAIMER

ABSTRACT

TABLE OF CONTENTS

METHOD INDEX AND CONVERSION TABLE

PREFACE

ACKNOWLEDGEMENTS

---

### PART I METHODS FOR ANALYTES AND PROPERTIES

#### CHAPTER ONE -- QUALITY CONTROL

- 1.0 Introduction
- 2.0 QA Project Plan
- 3.0 Field Operations
- 4.0 Laboratory Operations
- 5.0 Definitions
- 6.0 References

#### CHAPTER TWO -- CHOOSING THE CORRECT PROCEDURE

- 2.0 Introduction
- 2.1 Guidance Regarding Flexibility Inherent to SW-846 Methods and the Precedence of SW-846 Quality Control Criteria
- 2.2 Information Necessary for Choosing the Correct Procedure
- 2.3 Choosing Procedures for Organic Analyses
- 2.4 Choosing Procedures for Characteristic Analyses
- 2.5 Choosing Procedures for Groundwater Analyses
- 2.6 Choosing Procedures for Inorganic Analyses
- 2.7 References

## CHAPTER THREE -- INORGANIC ANALYTES

- 3.1 Introduction
- 3.2 Definitions
- 3.3 Safety
- 3.4 Sampling Considerations
- 3.5 Special Considerations for Determining Inorganic Analytes at Ultra-trace Concentration Levels
- 3.6 Reagent Purity
- 3.7 References
- 3.8 Sample Digestion Methods

- Method 3005A:** Acid Digestion of Waters for Total Recoverable or Dissolved Metals for Analysis by FLAA or ICP Spectroscopy
- Method 3010A:** Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by FLAA or ICP Spectroscopy
- Method 3015A:** Microwave Assisted Acid Digestion of Aqueous Samples and Extracts
- Method 3020A:** Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by GFAA Spectroscopy
- Method 3031:** Acid Digestion of Oils for Metals Analysis by Atomic Absorption or ICP Spectrometry
- Method 3040A:** Dissolution Procedure for Oils, Greases, or Waxes
- Method 3050B:** Acid Digestion of Sediments, Sludges, and Soils
- Method 3051A:** Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oils
- Method 3052:** Microwave Assisted Acid Digestion of Siliceous and Organically Based Matrices
- Method 3060A:** Alkaline Digestion for Hexavalent Chromium

### 3.9 Methods for Determination of Inorganic Analytes

- Method 6010C:** Inductively Coupled Plasma-Atomic Emission Spectrometry
- Method 6020A:** Inductively Coupled Plasma-Mass Spectrometry
- Method 6200:** Field Portable X-Ray Fluorescence Spectrometry for the Determination of Elemental Concentrations in Soil and Sediment
- Method 6500:** Dissolved Inorganic Anions in Aqueous Matrices by Capillary Ion Electrophoresis
- Method 6800:** Elemental and Speciated Isotope Dilution Mass Spectrometry
- Method 7000B:** Flame Atomic Absorption Spectrophotometry
- Method 7010:** Graphite Furnace Atomic Absorption Spectrophotometry
- Method 7061A:** Arsenic (Atomic Absorption, Gaseous Hydride)
- Method 7062:** Antimony and Arsenic (Atomic Absorption, Borohydride Reduction)
- Method 7063:** Arsenic in Aqueous Samples and Extracts by Anodic Stripping Voltammetry (ASV)
- Method 7195:** Chromium, Hexavalent (Coprecipitation)
- Method 7196A:** Chromium, Hexavalent (Colorimetric)
- Method 7197:** Chromium, Hexavalent (Chelation/Extraction)

<b>Method 7198:</b>	Chromium, Hexavalent (Differential Pulse Polarography)
<b>Method 7199:</b>	Determination of Hexavalent Chromium in Drinking Water, Groundwater and Industrial Wastewater Effluents by Ion Chromatography
<b>Method 7470A:</b>	Mercury in Liquid Waste (Manual Cold-Vapor Technique)
<b>Method 7471B:</b>	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)
<b>Method 7472:</b>	Mercury in Aqueous Samples and Extracts by Anodic Stripping Voltammetry (ASV)
<b>Method 7473:</b>	Mercury in Solids and Solutions by Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry
<b>Method 7474:</b>	Mercury in Sediment and Tissue Samples by Atomic Fluorescence Spectrometry
<b>Method 7580:</b>	White Phosphorus (P <sub>4</sub> ) by Solvent Extraction and Gas Chromatography
<b>Method 7741A:</b>	Selenium (Atomic Absorption, Gaseous Hydride)
<b>Method 7742:</b>	Selenium (Atomic Absorption, Borohydride Reduction)

**NOTE:** A suffix of "A" in the method number indicates revision one (the method has been revised once). A suffix of "B" in the method number indicates revision two (the method has been revised twice). A suffix of "C" in the method number indicates revision three (the method has been revised three times). **In order to properly document the method used for analysis, the entire method number including the suffix letter designation (e.g., A, B, or C) must be identified by the analyst.** A method reference found within the text of SW-846 methods and chapters refers to the latest revision of the method, even though the method number does not include the appropriate letter suffix.

-----  
VOLUME ONE

SECTION B  
-----

DISCLAIMER  
ABSTRACT  
TABLE OF CONTENTS  
METHOD INDEX AND CONVERSION TABLE  
PREFACE  
ACKNOWLEDGEMENTS

CHAPTER ONE, REPRINTED -- QUALITY CONTROL

- 1.0 Introduction
- 2.0 QA Project Plan
- 3.0 Field Operations
- 4.0 Laboratory Operations
- 5.0 Definitions
- 6.0 References

CHAPTER FOUR -- ORGANIC ANALYTES

- 4.1 Sampling Considerations
- 4.2 Sample Preparation Methods

4.2.1 Extractions and Preparations

<b>Method 3500C:</b>	Organic Extraction and Sample Preparation
<b>Method 3510C:</b>	Separatory Funnel Liquid-Liquid Extraction
<b>Method 3520C:</b>	Continuous Liquid-Liquid Extraction
<b>Method 3535A:</b>	Solid-Phase Extraction (SPE)
<b>Method 3540C:</b>	Soxhlet Extraction
<b>Method 3541:</b>	Automated Soxhlet Extraction
<b>Method 3542:</b>	Extraction of Semivolatile Analytes Collected Using Method 0010 (Modified Method 5 Sampling Train)
<b>Method 3545A:</b>	Pressurized Fluid Extraction (PFE)
<b>Method 3546:</b>	Microwave Extraction
<b>Method 3550C:</b>	Ultrasonic Extraction
<b>Method 3560:</b>	Supercritical Fluid Extraction of Total Recoverable Petroleum Hydrocarbons
<b>Method 3561:</b>	Supercritical Fluid Extraction of Polynuclear Aromatic Hydrocarbons
<b>Method 3562:</b>	Supercritical Fluid Extraction of Polychlorinated Biphenyls (PCBs) and Organochlorine Pesticides
<b>Method 3580A:</b>	Waste Dilution
<b>Method 3585:</b>	Waste Dilution for Volatile Organics

<b>Method 5000:</b>	Sample Preparation for Volatile Organic Compounds
<b>Method 5021:</b>	Volatile Organic Compounds in Soils and Other Solid Matrices Using Equilibrium Headspace Analysis
<b>Method 5030B:</b>	Purge-and-Trap for Aqueous Samples
<b>Method 5031:</b>	Volatile, Nonpurgeable, Water-Soluble Compounds by Azeotropic Distillation
<b>Method 5032:</b>	Volatile Organic Compounds by Vacuum Distillation
<b>Method 5035:</b>	Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples
<b>Method 5041A:</b>	Analysis for Desorption of Sorbent Cartridges from Volatile Organic Sampling Train (VOST)

#### 4.2.2 Cleanup

<b>Method 3600C:</b>	Cleanup
<b>Method 3610B:</b>	Alumina Cleanup
<b>Method 3611B:</b>	Alumina Column Cleanup and Separation of Petroleum Wastes
<b>Method 3620C:</b>	Florisil Cleanup
<b>Method 3630C:</b>	Silica Gel Cleanup
<b>Method 3640A:</b>	Gel-Permeation Cleanup
<b>Method 3650B:</b>	Acid-Base Partition Cleanup
<b>Method 3660B:</b>	Sulfur Cleanup
<b>Method 3665A:</b>	Sulfuric Acid/Permanganate Cleanup

### 4.3 Determination of Organic Analytes

#### 4.3.1 Gas Chromatographic Methods

<b>Method 8000B:</b>	Determinative Chromatographic Separations
<b>Method 8011:</b>	1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography
<b>Method 8015C:</b>	Nonhalogenated Organics by Gas Chromatography
<b>Method 8021B:</b>	Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors
<b>Method 8031:</b>	Acrylonitrile by Gas Chromatography
<b>Method 8032A:</b>	Acrylamide by Gas Chromatography
<b>Method 8033:</b>	Acetonitrile by Gas Chromatography with Nitrogen-Phosphorus Detection
<b>Method 8041A:</b>	Phenols by Gas Chromatography
<b>Method 8061A:</b>	Phthalate Esters by Gas Chromatography with Electron Capture Detection (GC/ECD)
<b>Method 8070A:</b>	Nitrosamines by Gas Chromatography
<b>Method 8081B:</b>	Organochlorine Pesticides by Gas Chromatography
<b>Method 8082A:</b>	Polychlorinated Biphenyls (PCBs) by Gas Chromatography
<b>Method 8085:</b>	Compound-independent Elemental Quantitation of Pesticides by Gas Chromatography with Atomic Emission Detection (GC/AED)
<b>Method 8091:</b>	Nitroaromatics and Cyclic Ketones by Gas Chromatography
<b>Method 8095:</b>	Explosives by Gas Chromatography
<b>Method 8100:</b>	Polynuclear Aromatic Hydrocarbons

<b>Method 8111:</b>	Haloethers by Gas Chromatography
<b>Method 8121:</b>	Chlorinated Hydrocarbons by Gas Chromatography: Capillary Column Technique
<b>Method 8131:</b>	Aniline and Selected Derivatives by Gas Chromatography
<b>Method 8141B:</b>	Organophosphorus Compounds by Gas Chromatography
<b>Method 8151A:</b>	Chlorinated Herbicides by GC Using Methylation or Pentafluorobenzoylation Derivatization

#### 4.3.2 Gas Chromatographic/Mass Spectrometric Methods

<b>Method 8260B:</b>	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
<b>Method 8261:</b>	Volatile Organic Compounds by Vacuum Distillation in Combination with Gas Chromatography/Mass Spectrometry (VD/GC/MS)
<b>Method 8270D:</b>	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
<b>Method 8275A:</b>	Semivolatile Organic Compounds (PAHs and PCBs) in Soils/Sludges and Solid Wastes Using Thermal Extraction/Gas Chromatography/Mass Spectrometry (TE/GC/MS)
<b>Method 8280B:</b>	Polychlorinated Dibenzo- <i>p</i> -Dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High Resolution Gas Chromatography/Low Resolution Mass Spectrometry (HRGC/LRMS)
<b>Method 8290A:</b>	Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High-Resolution Gas Chromatography/High-Resolution Mass Spectrometry (HRGC/HRMS)
<b>Appendix A:</b>	Procedures for the Collection, Handling, Analysis, and Reporting of Wipe Tests Performed within the Laboratory

#### 4.3.3 High Performance Liquid Chromatographic Methods

<b>Method 8310:</b>	Polynuclear Aromatic Hydrocarbons
<b>Method 8315A:</b>	Determination of Carbonyl Compounds by High Performance Liquid Chromatography (HPLC)
<b>Appendix A:</b>	Recrystallization of 2,4-Dinitrophenylhydrazine (DNPH)
<b>Method 8316:</b>	Acrylamide, Acrylonitrile and Acrolein by High Performance Liquid Chromatography (HPLC)
<b>Method 8318A:</b>	<i>N</i> -Methylcarbamates by High Performance Liquid Chromatography (HPLC)
<b>Method 8321B:</b>	Solvent-Extractable Nonvolatile Compounds by High-Performance Liquid Chromatography/Thermospray/Mass Spectrometry(HPLC/TS/MS) or Ultraviolet (UV) Detection
<b>Method 8325:</b>	Solvent Extractable Nonvolatile Compounds by High Performance Liquid Chromatography/Particle Beam/Mass Spectrometry (HPLC/PB/MS)
<b>Method 8330A:</b>	Nitroaromatics and Nitramines by High Performance Liquid Chromatography (HPLC)

- Method 8331:** Tetrazene by Reverse Phase High Performance Liquid Chromatography (HPLC)  
**Method 8332:** Nitroglycerine by High Performance Liquid Chromatography

#### 4.3.4 Infrared Methods

- Method 8410:** Gas Chromatography/Fourier Transform Infrared (GC/FT-IR) Spectrometry for Semivolatile Organics: Capillary Column  
**Method 8430:** Analysis of Bis(2-chloroethyl) Ether and Hydrolysis Products by Direct Aqueous Injection GC/FT-IR  
**Method 8440:** Total Recoverable Petroleum Hydrocarbons by Infrared Spectrophotometry

#### 4.3.5 Miscellaneous Spectrometric Methods

- Method 8520:** Continuous Measurement of Formaldehyde in Ambient Air

### 4.4 Immunoassay Methods

- Method 4000:** Immunoassay  
**Method 4010A:** Screening for Pentachlorophenol by Immunoassay  
**Method 4015:** Screening for 2,4-Dichlorophenoxyacetic Acid by Immunoassay  
**Method 4020:** Screening for Polychlorinated Biphenyls by Immunoassay  
**Method 4030:** Soil Screening for Petroleum Hydrocarbons by Immunoassay  
**Method 4035:** Soil Screening for Polynuclear Aromatic Hydrocarbons by Immunoassay  
**Method 4040:** Soil Screening for Toxaphene by Immunoassay  
**Method 4041:** Soil Screening for Chlordane by Immunoassay  
**Method 4042:** Soil Screening for DDT by Immunoassay  
**Method 4050:** TNT Explosives in Soil by Immunoassay  
**Method 4051:** Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in Soil by Immunoassay  
**Method 4425:** Screening Extracts of Environmental Samples for Planar Organic Compounds (PAHs, PCBs, PCDDs/PCDFs) by a Reporter Gene on a Human Cell Line  
**Method 4670:** Triazine Herbicides as Atrazine in Water by Quantitative Immunoassay

#### 4.5 Miscellaneous Screening Methods

<b>Method 3815:</b>	Screening Solid Samples for Volatile Organics
<b>Method 3820:</b>	Hexadecane Extraction and Screening of Purgeable Organics
<b>Method 8510:</b>	Colorimetric Screening Procedure for RDX and HMX in Soil
<b>Method 8515:</b>	Colorimetric Screening Method for Trinitrotoluene (TNT) in Soil
<b>Method 8535:</b>	Screening Procedure for Total Volatile Organic Halides in Water
<b>Method 8540:</b>	Pentachlorophenol by UV-Induced Colorimetry
<b>Method 9074:</b>	Turbidimetric Screening Method for Total Recoverable Petroleum Hydrocarbons in Soil
<b>Method 9078:</b>	Screening Test Method for Polychlorinated Biphenyls in Soil
<b>Method 9079:</b>	Screening Test Method for Polychlorinated Biphenyls in Transformer Oil

**NOTE:** A suffix of "A" in the method number indicates revision one (the method has been revised once). A suffix of "B" in the method number indicates revision two (the method has been revised twice). A suffix of "C" in the method number indicates revision three (the method has been revised three times). **In order to properly document the method used for analysis, the entire method number including the suffix letter designation (e.g., A, B, or C) must be identified by the analyst.** A method reference found within the text of SW-846 methods and chapters refers to the latest revision of the method, even though the method number does not include the appropriate letter suffix.



-----  
VOLUME ONE

SECTION C  
-----

DISCLAIMER  
ABSTRACT  
TABLE OF CONTENTS  
METHOD INDEX AND CONVERSION TABLE  
PREFACE

CHAPTER ONE, REPRINTED -- QUALITY CONTROL

- 1.0 Introduction
- 2.0 QA Project Plan
- 3.0 Field Operations
- 4.0 Laboratory Operations
- 5.0 Definitions
- 6.0 References

CHAPTER FIVE -- MISCELLANEOUS TEST METHODS

<b>Method 5050:</b>	Bomb Preparation Method for Solid Waste
<b>Method 9000:</b>	Determination of Water in Waste Materials by Karl Fischer Titration
<b>Method 9001:</b>	Determination of Water in Waste Materials by Quantitative Calcium Hydride Reaction
<b>Method 9010C:</b>	Total and Amenable Cyanide: Distillation
<b>Method 9012B:</b>	Total and Amenable Cyanide (Automated Colorimetric, with Off-Line Distillation)
<b>Method 9013:</b>	Cyanide Extraction Procedure for Solids and Oils
<b>Method 9014:</b>	Titrimetric and Manual Spectrophotometric Determinative Methods for Cyanide
<b>Method 9020B:</b>	Total Organic Halides (TOX)
<b>Method 9021:</b>	Purgeable Organic Halides (POX)
<b>Method 9022:</b>	Total Organic Halides (TOX) by Neutron Activation Analysis
<b>Method 9023:</b>	Extractable Organic Halides (EOX) in Solids
<b>Method 9030B:</b>	Acid-Soluble and Acid-Insoluble Sulfides: Distillation
<b>Method 9031:</b>	Extractable Sulfides
<b>Method 9034:</b>	Titrimetric Procedure for Acid-Soluble and Acid-Insoluble Sulfides
<b>Method 9035:</b>	Sulfate (Colorimetric, Automated, Chloranilate)
<b>Method 9036:</b>	Sulfate (Colorimetric, Automated, Methylthymol Blue, AA II)
<b>Method 9038:</b>	Sulfate (Turbidimetric)
<b>Method 9056A:</b>	Determination of Inorganic Anions by Ion Chromatography
<b>Method 9057:</b>	Determination of Chloride from HCl/Cl <sub>2</sub> Emission Sampling Train (Methods 0050 and 0051) by Anion Chromatography
<b>Method 9060A:</b>	Total Organic Carbon
<b>Method 9065:</b>	Phenolics (Spectrophotometric, Manual 4-AAP with Distillation)

<b>Method 9066:</b>	Phenolics (Colorimetric, Automated 4-AAP with Distillation)
<b>Method 9067:</b>	Phenolics (Spectrophotometric, MBTH with Distillation)
<b>Method 9070A:</b>	<i>n</i> -Hexane Extractable Material (HEM) for Aqueous Samples
<b>Method 9071B:</b>	<i>n</i> -Hexane Extractable Material (HEM) for Sludge, Sediment, and Solid Samples
<b>Method 9075:</b>	Test Method for Total Chlorine in New and Used Petroleum Products by X-Ray Fluorescence Spectrometry (XRF)
<b>Method 9076:</b>	Test Method for Total Chlorine in New and Used Petroleum Products by Oxidative Combustion and Microcoulometry
<b>Method 9077:</b>	Test Methods for Total Chlorine in New and Used Petroleum Products (Field Test Kit Methods)
<b>Method A:</b>	Fixed End Point Test Kit Method
<b>Method B:</b>	Reverse Titration Quantitative End Point Test Kit Method
<b>Method C:</b>	Direct Titration Quantitative End Point Test Kit Method
<b>Method 9131:</b>	Total Coliform: Multiple Tube Fermentation Technique
<b>Method 9132:</b>	Total Coliform: Membrane-Filter Technique
<b>Method 9210A:</b>	Potentiometric Determination of Nitrate in Aqueous Samples with an Ion-Selective Electrode
<b>Method 9211:</b>	Potentiometric Determination of Bromide in Aqueous Samples with Ion-Selective Electrode
<b>Method 9212:</b>	Potentiometric Determination of Chloride in Aqueous Samples with Ion-Selective Electrode
<b>Method 9213:</b>	Potentiometric Determination of Cyanide in Aqueous Samples and Distillates with Ion-Selective Electrode
<b>Method 9214:</b>	Potentiometric Determination of Fluoride in Aqueous Samples with Ion-Selective Electrode
<b>Method 9215:</b>	Potentiometric Determination of Sulfide in Aqueous Samples and Distillates with Ion-Selective Electrode
<b>Method 9216:</b>	Potentiometric Determination of Nitrite in Aqueous Samples with Ion-Selective Electrode
<b>Method 9250:</b>	Chloride (Colorimetric, Automated Ferricyanide AAI)
<b>Method 9251:</b>	Chloride (Colorimetric, Automated Ferricyanide AAI)
<b>Method 9253:</b>	Chloride (Titrimetric, Silver Nitrate)
<b>Method 9320:</b>	Radium-228

## CHAPTER SIX -- PROPERTIES

<b>Method 1030:</b>	Ignitability of Solids
<b>Method 1040:</b>	Test Method for Oxidizing Solids
<b>Method 1050:</b>	Test Methods to Determine Substances Likely to Spontaneously Combust
<b>Method 1120:</b>	Dermal Corrosion
<b>Method 1312:</b>	Synthetic Precipitation Leaching Procedure
<b>Method 1320:</b>	Multiple Extraction Procedure
<b>Method 1330A:</b>	Extraction Procedure for Oily Wastes
<b>Method 9041A:</b>	pH Paper Method
<b>Method 9045D:</b>	Soil and Waste pH
<b>Method 9050A:</b>	Specific Conductance

<b>Method 9080:</b>	Cation-Exchange Capacity of Soils (Ammonium Acetate)
<b>Method 9081:</b>	Cation-Exchange Capacity of Soils (Sodium Acetate)
<b>Method 9090A:</b>	Compatibility Test for Wastes and Membrane Liners
<b>Method 9095B:</b>	Paint Filter Liquids Test
<b>Method 9096:</b>	Liquid Release Test (LRT) Procedure
<b>Appendix A:</b>	Liquid Release Test Pre-Test
<b>Method 9100:</b>	Saturated Hydraulic Conductivity, Saturated Leachate Conductivity, and Intrinsic Permeability
<b>Method 9310:</b>	Gross Alpha and Gross Beta
<b>Method 9315:</b>	Alpha-Emitting Radium Isotopes

---

## PART II CHARACTERISTICS

### CHAPTER SEVEN -- CHARACTERISTICS INTRODUCTION AND REGULATORY DEFINITIONS

- 7.1 Ignitability
- 7.2 Corrosivity
- 7.3 Reactivity
- 7.4 Toxicity Characteristic Leaching Procedure

### CHAPTER EIGHT -- METHODS FOR DETERMINING CHARACTERISTICS

- 8.1 Ignitability
  - Method 1010A:** Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
  - Method 1020B:** Standard Test Methods for Flash Point by Setaflash (Small Scale) Closed-cup Apparatus
- 8.2 Corrosivity
  - Method 9040C:** pH Electrometric Measurement
  - Method 1110A:** Corrosivity Toward Steel
- 8.3 Reactivity
- 8.4 Toxicity
  - Method 1310B:** Extraction Procedure (EP) Toxicity Test Method and Structural Integrity Test
  - Method 1311:** Toxicity Characteristic Leaching Procedure

**NOTE:** A suffix of "A" in the method number indicates revision one (the method has been revised once). A suffix of "B" in the method number indicates revision two (the method has been revised twice). A suffix of "C" in the method number indicates revision three (the method has been revised three times). **In order to properly document the method used for analysis, the entire method number including the suffix letter designation (e.g., A, B, or C) must be identified by the analyst.** A method reference found within the text of SW-846 methods and chapters refers to the latest revision of the method, even though the method number does not include the appropriate letter suffix.

-----  
VOLUME TWO  
-----

DISCLAIMER  
ABSTRACT  
TABLE OF CONTENTS  
METHOD INDEX AND CONVERSION TABLE  
PREFACE

CHAPTER ONE, REPRINTED -- QUALITY CONTROL

- 1.0 Introduction
- 2.0 QA Project Plan
- 3.0 Field Operations
- 4.0 Laboratory Operations
- 5.0 Definitions
- 6.0 References

PART III SAMPLING

CHAPTER NINE -- SAMPLING PLAN

CHAPTER TEN -- SAMPLING METHODS

- Method 0010:** Modified Method 5 Sampling Train
- Appendix A:** Preparation of XAD-2 Sorbent Resin
- Appendix B:** Total Chromatographable Organic Material Analysis
- Method 0011:** Sampling for Selected Aldehyde and Ketone Emissions from Stationary Sources
- Method 0020:** Source Assessment Sampling System (SASS)
- Method 0023A:** Sampling Method for Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofuran Emissions from Stationary Sources
- Method 0030:** Volatile Organic Sampling Train
- Method 0031:** Sampling Method for Volatile Organic Compounds (SMVOC)
- Method 0040:** Sampling of Principal Organic Hazardous Constituents from Combustion Sources Using Tedlar® Bags
- Method 0050:** Isokinetic HCl/Cl<sub>2</sub> Emission Sampling Train
- Method 0051:** Midget Impinger HCl/Cl<sub>2</sub> Emission Sampling Train
- Method 0060:** Determination of Metals in Stack Emissions
- Method 0061:** Determination of Hexavalent Chromium Emissions from Stationary Sources
- Method 0100:** Sampling for Formaldehyde and Other Carbonyl Compounds in Indoor Air
- Method 25D:** Determination of the Volatile Organic Concentration of Waste Samples

**Method 25E:** Determination of Vapor Phase Organic Concentration in Waste Samples  
**Method 207:** A Method for Measuring Isocyanates in Stationary Source Emissions

## PART IV MONITORING

### CHAPTER ELEVEN -- GROUND WATER MONITORING

Referral to the EPA Office of Solid Waste guidance document entitled "RCRA Ground-water Monitoring: Draft Technical Guidance," published in 1992.

### CHAPTER TWELVE -- LAND TREATMENT MONITORING

- 12.1 Background
- 12.2 Treatment Zone
- 12.3 Regulatory Definition
- 12.4 Monitoring and Sampling Strategy
- 12.5 Analysis
- 12.6 References and Bibliography

### CHAPTER THIRTEEN -- INCINERATION

- 13.1 Introduction
- 13.2 Regulatory Definition
- 13.3 Waste Characterization Strategy
- 13.4 Stack-Gas Effluent Characterization Strategy
- 13.5 Additional Effluent Characterization Strategy
- 13.6 Selection of Specific Sampling and Analysis Methods
- 13.7 References

**NOTE:** A suffix of "A" in the method number indicates revision one (the method has been revised once). A suffix of "B" in the method number indicates revision two (the method has been revised twice). A suffix of "C" in the method number indicates revision three (the method has been revised three times). **In order to properly document the method used for analysis, the entire method number including the suffix letter designation (e.g., A, B, or C) must be identified by the analyst.** A method reference found within the text of SW-846 methods and chapters refers to the latest revision of the method, even though the method number does not include the appropriate letter suffix.