

### Standard Operating Procedures Listing for TestAmerica Sacramento

Department	Document Number	Revision	Active Date	SOP Title
Dioxins	WS-ID-0005	7.7	7/24/2015	Analysis of Samples for Polychlorinated Dioxins and Furans by HRGC/HRMS (Methods 8290/8290A)
Dioxins	WS-ID-0006	1.4	4/2/2015	Tetra-through Octa-Chlorinated Dioxins and Furans by Iotope Dilutoin HRGC/HRMS (Method 23)
Dioxins	WS-ID-0007	3.8	3/9/2015	Analysis of Tetra-through Octa Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS by Method 1613B
Dioxins	WS-ID-0011	4.4	2/28/2013	Analysis of Polychlorinated Dibenzo-p-dioxins and Dibenzofurans by Methods 8280A and 8280B
Dioxins	WS-ID-0013	4.4	4/7/2014	PCB Analysis by HRGC/HRMS (1668A/1668C)
Dioxins	WS-ID-0014	5.8	5/30/2014	Analysis of Organochlorine Pesticides by High Resolution Gas Chromatography/High Resolution Mass Spectrometry
Dioxins	WS-ID-0022	0	5/29/2015	PCB Analysis by HRGC/HRMS
Dioxins	WS-IDP-0005	2.2	5/20/2015	Preparation of Samples for Analysis of Polychlorinated Dioxins and Furans for Analysis HRGC/HRMS
Dioxins	WS-IDP-0007	2.0	5/24/2015	Preparation of Samples for Tetra-through Octa Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS by Method 1613B
Dioxins	WS-IDP-0009	2.3	1/15/2014	Extraction of Method 0023A - Tetra-through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS
Dioxins	WS-IDP-0011	2.6	4/8/2015	Extraction of Polychlorianted Dibenzo-p--dioxins and Dibenzofurans for Low-Resoluttion GC/MS Analysis
Dioxins	WS-IDP-0013	4	7/31/2015	PCB Preparation for Analysis by HRGC/HRMS (1668A/1668C)
Dioxins	WS-ID-0015	0	7/24/2015	Analysis of Samples for Polychlorinated Dioxins and Furans by HRGC/HRMS DLM 02.2
Dioxins	WS-IDP-0020	2.5	1/2/2015	Preparation of Nitrosamines for Analysis by Isotope Dilution GC/MS
Dioxins	WS-IDP-0022	0.0	5/15/2015	PCB Preparation for Analysis by HRGC/HRMS
Dioxins	WS-WI-0028	2.2	3/8/2015	High Resolution Dioxin Screening Procedure
Dioxins	WS-WI-0046	1.1	9/25/2015	Batching for Complex Dilutions
EHS	WS-EHS-0001	4.5	9/14/2015	Waste Disposal
EHS	WS-EHS-0002	1.1	1/10/2014	Radiation Safety Duties & Responsibilities
EHS	WS-PEHS-001	2.1	2/12/2010	Respiratory Protection Plan
EHS	WS-PEHS-002	6.6	9/11/2015	Sacramento Addendum to Environmental Health & Safety Manual

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GC/HPLC	WS-GC-0001	5.1	7/27/2014	Organochlorine Pesticides by Gas Chromatography Based on SW-846 Methods 8000B/8000C, 8081A/8081B, Method 608 and Compendium Methods TO-4A, and TO-10A
GC/HPLC	WS-GC-0002	5.1	6/3/2015	Chromatographic Analysis Based on SW-846 Methods 8000-8000C, 8082-8082A, Method 608, and Compendium Methods TO-4A and TO-10A
GC/HPLC	WS-GC-0007	6	7/10/2015	Gas Chromatographic Analysis of Total Petroleum Hydrocarbons
GC/HPLC	WS-GCA-0018	1.2	7/21/2014	Determination of TPH, MBTEX, Alkanes, and Carbon Chains in Air Samples Using Gas Chromatography
GC/HPLC	WS-GCA-0019	1	7/24/2015	Determination of Volatile Sulfur Compounds from Stationary Sources
GC/HPLC	WS-GCA-0020	1.2	7/21/2014	Determination of Fixed Gases (Reformed Gases) in Air Samples Using Gas Chromatography
GC/HPLC	WS-GCA-0022	1.1	2/28/2014	Determination of Total Non-Methane Hydrocarbons (TNMHC) by GC/FID
GC/HPLC	WS-LC-0004	2.6	9/4/2015	Determination of Chemical Warfare Degradates in Water and Soil by Liquid Chromatography/Electrospray/Mass Spectrometry/Mass Spectrometry (LC/ESI/MS/MS)
GC/HPLC	WS-LC-0006	1.3	7/3/2014	Determination of Diaminotoluenes by HPLC/UV
GC/HPLC	WS-LC-0009	5.3	5/28/2015	Determination of Nitroaromatics, Nitramines, and Specialty Explosives Based on Method 8330, SW-846
GC/HPLC	WS-LC-0010	3.6	8/28/2015	Determination of Nitroguanidine Based on Method 8330, SW-836
GC/HPLC	WS-LC-0012	6.3	2/3/2014	Determination of Perchlorate by Liquid Chromatography Coupled with Tandem Mass Spectrometry (LC/MS/MS) by Method 6850
GC/HPLC	WS-LC-0013	3.1	9/24/2012	Determination of 4-Chlorobenzene Sulfonic Acid in Water and Soil by Liquid Chromatography/Electrospray/Mass Spectrometry
GC/HPLC	WS-LC-0018	1.5	3/31/2015	Determination of Perchlorate by Liquid Chromatography Coupled with Tandem Mass Spectrometry
GC/HPLC	WS-LC-0019	4.6	10/20/2015	Determination of TOHI Flotation Reagent and Primary Components by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)

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GC/HPLC	WS-LC-0024	3.1	4/30/2013	Determination of Pharmaceuticals and Personal Care Products, Antibacterials, Steroids and Hormones by Liquid Chromatography Coupled with Tandem Mass Spectrometry (LC/MS/MS) [Modified Method 1694, Modified Method 1698]
GC/HPLC	WS-LC-0025	1.3	10/27/2014	Perfluorinated Compounds (PFCs) in Water, Soils, Sediments and Tissue by LC/MS/MS
GC/HPLC	WS-LC-0030	1.0	12/15/2014	Analysis of Methylene Dinitramine (Component of Explosives) by ESI/LC/MS/MS
GC/HPLC	WS-WI-0029	1	4/27/2015	Nitrophenols & Picramic Acid by Method 8330
GC/HPLC	WS-WI-0048	1	6/10/2015	Method 8082, 8082a, TO-4, TO-4A, TO-10, TO-10A, Lower Level Analysis
GC/MS	WS-MS-0003	8	8/28/2015	Analysis of Organosulfur Compounds (OS) and Tear Gas Degradates (TGD) in Water and Soil by Gas Chromatograph with a Mass Spectrometer (GC/MS)
GC/MS	WS-MS-0005	5.2	10/9/2015	Semivolatle Organic Compounds by {Base/Neutral and Acids} by Gas Chromatography/Mass Spectrometry(GC/MS)
GC/MS	WS-MS-0006	3.6	8/28/2015	Determination of Polycyclic Aromatic Hydrocarbons (PAH) by GC/MS-Isotope Dilution
GC/MS	WS-MS-0008	2.5	5/29/2014	Determination of Polycyclic Aromatic Hydrocarbons (PAH) by GC/MS-SIM Internal Standard Technique
GC/MS	WS-MS-0010	1.7	8/28/2015	Determination of Alkylphenol Compounds by GC/MS-SIM, Internal Standard Technique
GC/MS	WS-MS-0011	1.3	8/28/2015	Analysis of 1,4-Dioxane by GC/MS-SIM
GC/MS	WS-MS-0012	1.9	8/28/2015	Determination of Nitrosamines by Capillary Column Gas Chromatography with Large Volume Injection and Chemical Ionization Tandem Mass Spectrometry
General Chemistry	WS-WC-0002	4.3	11/22/2013	Determination of all Types of Residue in Water, Wastes, and Solid Samples
General Chemistry	WS-WC-0009	3.4	5/29/2015	Determination of Anions by Ion Chromatography
General Chemistry	WS-WC-0010	5.2	5/11/2015	Determination of Perchlorate by Ion Chromatography
General Chemistry	WS-WC-0012	3.4	5/19/2015	Determination of Hydrogen Halides and Hydrogen Emissions from Stationary Sources by Ion Chromatography
General Chemistry	WS-WC-0020	7.5	10/17/2013	Determination of Hexavalent Chromium by Manual Colorimetric Method (Method 7196A)
General Chemistry	WS-WC-0028	4.5	9/18/2015	Determination of Alkalinity, Conductivity, and pH
General Chemistry	WS-WC-0036	4.5	1/2/2014	Determination of Nitrate, Nitrite, and Nitrate + Nitrite by Automated Colorimetry - Cadmium Reduction Method

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General Chemistry	WS-WC-0040	4.2	6/3/2015	Determination of Chemical Oxygen Demand
General Chemistry	ws-wc-0044	6.5	3/18/2015	EPA Method 9045C & 9045D pH Soils and Manual pH Aqueous
General Chemistry	WS-WC-0049	4.2	6/27/2013	Deionized Water Leaching Procedure for General Chemistry Analyses
General Chemistry	WS-WC-0050	4.1	8/28/2015	Preparation and Analysis of Nitrocellulose in Aqueous and Soil/Sediment Samples by Colorimetric AutoAnalyzer
General Chemistry	WS-WC-0052	2.2	6/13/2013	Glassware Cleaning for Inorganic Analyses
Inorganic Preparation	WS-IP-0001	5.4	12/3/2014	Acid Digestion of Aqueous Samples by SW-846 3005A/3010A
Inorganic Preparation	WS-IP-0002	5.3	1/19/2012	Acid Digestion of Soils, SW-846 Method 3550B
Inorganic Preparation	WS-IP-0003	4.1	4/4/2013	Waste Extraction Test For CCR STLC/(Citrate Buffer/Deionized Water)
Inorganic Preparation	WS-IP-0004	3.6	1/15/2014	Toxicity Characteristic Leaching Procedure and Synthetic Precipitation Leaching Procedure
Inorganic Preparation	WS-IP-0006	3.1	8/24/2012	Method for the Determination of Particulate Matter in the Atmosphere as TSP on PM10 (High Volume Method)
Inorganic Preparation	WS-IP-0007	2.3	2/28/2014	Determination of Metal Emissions from Stationary Sources
Inorganic Preparation	WS-IP-0008	4.3	12/3/2014	Matrix Match Matching for Analysis of Dissolved Metals
Inorganic Preparation	WS-IP-0010	3.1	7/29/2015	Preparation of Metals from Particulate Matter Collected on High Volume Air Filters Using ICP, ICP Trace, and ICPMS Analysis
Inorganic Preparation	WS-IP-0012	3.4	4/27/2015	Determination of Particulate Emissions from Stationary Sources
Metals	WS-MT-0001	3.9	9/14/2015	Analysis of Metals by Inductively Coupled Plasma/Mass Spectrometry (6020/6020A)
Metals	WS-MT-0003	5.5	11/14/2014	Inductively Coupled Plasma-Atomic Emission Spectroscopy, Spectrometric Method for Trace Element Analyses, SW-846 Methods, 6010B & 6010C and EPA Method 200.7
Metals	WS-MT-0005	5.6	7/24/2015	Preparation and Analysis of Mercury in Aqueous Samples by Cold Vapor Atomic Absorption, SW846 7470A and MCAWW 245.1
Metals	WS-MT-0007	5.4	8/21/2015	Preparation and Analysis of Mercury in Solid Samples by Cold Vapor Atomic Absorption, SW846 7471A and 7471B
Organic Preparation	WS-OP-0001	4.1	8/18/2014	Extraction of Semivolatile Organic Compounds for Analysis by Method 8270C, Based on SW-846, 3500 Series and 3600 Series, and PAH-SIM Internal Standard and Isotope Dilution Procedures

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Department	Document Number	Revision	Active Date	SOP Title
Organic Preparation	WS-OP-0002	4.1	6/6/2014	Extraction and Cleanup of Organic Compounds from Waters and Soils, Based on SW-846 3500 Series and 3600 Series Methods for Analysis by Methods 8081A and 8082
Organic Preparation	WS-OP-0004	5.2	5/21/2015	Extraction and Cleanup of Organic Compounds from Waters and Soils, Based on SW-846 3500 Series and 3600 Series Methods for Analysis by Methods 8015B, CA-LUFT, NW-TPH and AK 102/103
Organic Preparation	WS-OP-0005	2.4	4/15/2015	Preparation of Organoxulfur Compounds (OS) and Tear Gas Degradates (TGD) in Water and Soil for Analysis by Gas Chromatograph with a Mass Spectrometer (GC/MS)
Organic Preparation	WS-OP-0006	3.4	11/25/2014	Preparation and Extraction of Semi-Volatiles on PUF (Polyurethane Foam) XAD-2 Resin Samples for GC/MS Analysis
Organic Preparation	WS-OP-0007	4.4	9/30/2014	Extraction of Organochlorine Pesticides and PCBs for GC/ECD Analysis (Polyurethane Foam Samples, PUF)
Organic Preparation	WS-OP-0008	3.2	9/17/2014	Preparation of Modified Method 5 (SW-846 Method 0010/3542) Train Components for Analysis by SW-846 Method 8270
Organic Preparation	WS-OP-0011	3.1	1/29/2010	Cleaning of Glassware (Organics)
Organic Preparation	WS-OP-0012	4.2	5/1/2015	Gel-Permeation Cleanup [Method 3640A]
Organic Preparation	WS-OP-0013	4.2	3/19/2013	Determination of Percent Moisture
Organic Preparation	WS-OP-0015	5.6	10/9/2015	HEM / SGT-HEM by Method 1664A and SW-846 Methods 9070A and 9071B
Organic Preparation	WS-OP-0016	1.2	2/13/2014	Sonicator Tuning
Organic Preparation	WS-OP-0018	1.5	4/7/2015	Extraction of Semivolatile Alkylphenol Compounds for Analysis by GC/MS-SIM
Organic Preparation	WS-OP-0024	3.2	8/25/2014	Preparation of Samples for Determination of Pharmaceuticals and Personal Care Products, Antibacterials, Steroids and Hormones by Liquid Chromatography Coupled with Tandem Mass Spectrometry (LC/MS/MS)
Organic Preparation	WS-OP-4177	4.1	9/25/2015	Despatch VRE2-35-1E Oven Operation
Organic Preparation	WS-WI-0015	2.1	6/3/2015	Procedure for the Preparation and Analysis of Explosives from Modified STEM Train
Organic Preparation	WS-WI-0018	3.3	1/6/2015	Tissue Sample Handling and Extraction for a Variety of Samples
Organic Preparation	WS-WI-0023	1.3	4/21/2015	XAD Resin Trap Sampling Pre-Spike Procedures for 0010-8270, 1668 PCB and M23 or M0023A Sampling Train
Program Management	WS-PM-0001	5	3/6/2014	Final Report Assembly and Third Level Review
Program Management	WS-PM-0002	3	3/4/2014	Log Release and Login Review
Program Management	WS-PM-0003	4	3/7/2014	Program Setup and Dissemination



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Quality Assurance	WS-DW-0004	1.2	9/14/2015	Determination of Selected Perfluorinated Alkyl Acids (PFAA) in Drinking Water by Solid Phase Extraction (SPE) and Analysis by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)
Quality Assurance	WS-IT-0001	5	12/10/2013	Data Backup Procedures
Quality Assurance	WS-PQA-003	6.4	11/3/2015	Quality Control Program
Quality Assurance	WS-PQA-004	4	9/18/2014	Rounding and Significant Figures
Quality Assurance	WS-PQA-005	4.1	4/17/2014	Results and Report Revisions
Quality Assurance	WS-PQA-008	5.2	5/28/2014	Data Recording Policy
Quality Assurance	WS-PQA-010	4.1	9/6/2012	Maintaining Time Integrity
Quality Assurance	WS-PQA-011	4.5	5/5/2015	Manual Integration Documentation Procedures
Quality Assurance	WS-PQA-012	4.3	9/5/2014	Technical Data Review Requirements
Quality Assurance	WS-PQA-013	3.2	7/24/2015	Procedures to Address Customer Complaints
Quality Assurance	WS-PQA-017	1.2	11/3/2015	Electronic Reporting & Client Deliverables
Quality Assurance	WS-PQA-018	1.1	9/12/2013	Quality Assurance Project Plan (QAPP) Review
Quality Assurance	WS-PQA-021	5.1	5/27/2015	Implementation of the QSM Versions 5.0 & 4.2
Quality Assurance	WS-PQA-022	7.4	8/7/2015	A2LA Requirement Summary
Quality Assurance	WS-QA-0001	7.3	6/16/2014	Building Security
Quality Assurance	WS-QA-0002	4.3	8/27/2014	Procedure for the Set-Up, Maintenance, and Analysis of Holding Blanks for Volatile Refrigerators
Quality Assurance	WS-QA-0003	11.9	9/30/2014	Sample Receipt and Procedures
Quality Assurance	WS-QA-0004	5.1	10/20/2014	Maintenance and Calibration of Fixed and Adjustable Volume Autopipettors, Autodispensers, Volumetric Containers, and Demonstration of Capability for Fixed Volume
Quality Assurance	WS-QA-0005	6.3	4/14/2014	Temperature Monitoring and Corrective Actions for Refrigerators and Freezers
Quality Assurance	WS-QA-0006	5.1	2/20/2010	Method Detection Limits (MDL) and Instrument Detection Limits (IDL)
Quality Assurance	WS-QA-0007	9.5	10/30/2014	Bottle and Cooler Preparation
Quality Assurance	WS-QA-0009	7	6/1/2015	Document Archiving
Quality Assurance	WS-QA-0014	2.3	9/9/2014	Monitoring of Reagent Grade Laboratory Water
Quality Assurance	WS-QA-0016	5.7	4/9/2015	Thermometer Calibration
Quality Assurance	WS-QA-0017	4.2	1/15/2015	Standards and Reagents and Quality Control Check Procedures
Quality Assurance	WS-QA-0018	4	3/27/2014	Subsampling and Cosing of Samples

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Quality Assurance	WS-QA-0021	3.5	11/3/2015	Preparation and Management of Standard Operating Procedures
Quality Assurance	WS-QA-0022	3.2	6/18/2013	Employee Orientation and Training
Quality Assurance	WS-QA-0023	4.1	11/11/2014	Nonconformance and Corrective Action System
Quality Assurance	WS-QA-0024	3.3	10/17/2013	Independent QA Data Review
Quality Assurance	WS-QA-0025	3.1	4/20/2013	Glassware Handling Safety
Quality Assurance	WS-QA-0027	2.3	4/8/2014	Responsibilities of a Spike Witness
Quality Assurance	WS-QA-0028	4.0	2/15/2015	Incremental Sampling Methodology of Soils and Sediments
Quality Assurance	WS-QA-0030	1.2	1/20/2012	Use of Solvent Delivery/Cyclotainer Systems
Quality Assurance	WS-QA-0031	1	10/14/2011	Verification and Security of Spreadsheet Applications
Quality Assurance	WS-QA-0032	1.1	2/1/2015	Cleaning, Certification, and Preparation of Sampling Equipment
Quality Assurance	WS-QA-0033	1	10/1/2013	Calibration of Pressure and Vacuum Gauges
Quality Assurance	WS-QA-0034	0	9/10/2014	Sample Transfer within TALS
Quality Assurance	WS-QA-0035	0	3/31/2015	Statistical Process Control / Control Chart
Quality Assurance	WS-QA-0036	0	4/30/2015	Internal Auditing
Quality Assurance	WS-QA-0041	6.5	4/3/2014	Calibration and Calibration Check of Balances
Quality Assurance	WS-QA-0050	2.0	2/1/2015	Management of Change Procedures
Quality Assurance	WS-QAM	5.4	5/28/2015	Quality Assurance Manual
Quality Assurance	WS-WI-0012	5	6/1/2013	Arizona Data Qualifiers for Arizona Compliant Samples
Quality Assurance	WS-WI-0014	2.1	1/4/2015	Method 1613B for Arizona Compliant Samples
Quality Assurance	WS-WI-0044	1	9/4/2015	QC Testing on Solvents used for IFB Column Cleanups
Quality Assurance	WS-WI-0049	1	6/16/2015	Procedure for In-Canister Dilution of Air Samples
Volatile Air	WS-MSA-0015	1.6	7/31/2015	Determination of Low Level Volatile Organics in Ambient Indoor Whole Air Samples Using GC/MS-Scan Mode
Volatile Air	WS-MSA-0016	1.3	8/17/2015	Determination of Low-Level Volatile Organics in Ambient/Indoor Whole Air Samples using GC/MS-SIM
Volatile Air	WS-MSA-0017	1.1	3/7/2015	Gas Chromatography/Mass Spectrometry Analysis of an Extended List of Volatile Organic Compounds in an Air Matrix
Volatile Air	WS-WI-0036	1	6/20/2014	Procedure to Transfer Samples from Tedlar Bags to Summa Canisters
Volatile Air	WS-WI-0038	1	1/16/2015	Procedure for Air Canister Pressurization
Volatile Air	WS-WI-0041	1	9/2/2014	Volatile Air Sample Chrom and TALS Data Entry for Initial and Final Volumes and Pressures
Volatiles	WS-MS-0007	5.1	8/27/2014	Determination of Volatile Organics and Total Purgeable Petroleum Hydrocarbons by GC/MS
Volatiles	WS-WI-0033	2.1	1/15/2015	Preparing Samples Submitted in EnCore Sampler



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Volatiles	WS-WI-0039	0	1/22/2014	Data Entry for VOA Soils Sample Weights & Volumes