

## LABORATORY RECORD "GREEN SHEET"





**LABORATORY WORKBOOK RECORD**

**SURVEY CHECK LIST – CALIBRATION SERVICES**

## **CHAIN OF CUSTODY FORM**

**SAMPLING GUIDE**

Parameter	Method*	Suggested Container	Volume**	Holding Preservative	Time
<b>Inorganic and Wet Chemistry</b>					
Acidity (as CaCO <sub>3</sub> )	305.1	P,G	100	4°C	14 days
Alkalinity (as CaCO <sub>3</sub> )	305.1, SM2320B	P,G	100	4°C	14 days
Ammonia	350.1, 350.2, 350.3	P,G	500	4°C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days
Biochemical Oxygen Demand (BOD)	405.1	P,G	1000	4°C	48 hours
Boron – Direct	212.3	P,G	200	HNO <sub>3</sub> to pH,2	28 days
Bromide	320.1	P,G	200	None	28 days
Chemical Oxygen Demand (COD)	410.1, 410.2, HACH 8000	P,G	100	4°C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days
Chloride	325.2, 325.3, 9252	P,G	200	None	28 days
Chlorine, residual	330.4	P,G	200	None	Immediate
Chromium – Hexavalent	218.4	P,G	250	4°C	24 hours
Coliform, Total	SM9221B, 9222B	P,G (sterile)	100	4°C	6 hours
Coliform, Fecal	SM9221C, 9222D	P,G (sterile)	100	4°C	6 hours
Color	110.2, 110.3	P,G	100	4°C	48 hours
Cyanide	335.2, 335.3, 9010	P,G	1000	4°C, ascorbic acid, NaOH to pH >12	14 days
Flashpoint	1010	P,G	100	None	Not specified
Fluoride	340.1, 340.2	P	500	None	28 days
Hardness (Total)	130.2	P,G	100	4°C, HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> to pH<2	6 months
Iodide	345.1	P,G	200	4°C	24 hours
Metals	6010, 200, 7000 series	P,G	500	HNO <sub>3</sub> to pH<2	6 months
Mercury	245.1, 7471	P,G	500	HNO <sub>3</sub> to pH<2	28 days
Nitrate	352.1, 353.1, 353.2	P,G	100	4°C	48 hours
Nitrite	354.1	P,G	100	4°C	48 hours
Nitrate-Nitrite	353.1, 353.2	P,G	200	4°C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days
Nitrogen – Total (Kjeldahl)	351.2, 351.3	P,G	500	4°C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days
Odor	140.1	G	200	4°C	24 hours
Oil & Grease	413.1, 413.2	G	1000	4°C, H <sub>2</sub> SO <sub>4</sub> or HCl to pH<2	28 days
Organic Lead	DHS (LUFT)	G-A	1000	4°C	14 days
pH	150.1	P,G	100	None	Immediate
Phenols	420.1, 420.2	G-A	1000	4°C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days
Phosphates – Ortho	365.1, 365.2	P,G	200	4°C, filter on site	48 hours

**SAMPLING GUIDE (CONT.)**

Parameter	Method*	Suggested Container	Volume**	Holding Preservative	Time
Phosphorus, Total (as P)	365.1, 365.2	P,G	200	4°C, H <sub>2</sub> SO <sub>4</sub> to pH<2	28 days
Radiochemistry (Alpha, beta & radionuclides)	900 & 9000 series	P,G	2000	HNO <sub>3</sub> to pH <2	1 year
Silica	370.1, 200.7	P	100	4°C	28 days
Solids – Dissolved – TDS	160.1	P,G	100	4°C	7 days
Solids – Suspended – TSS	160.2	P,G	100	4°C	7 days
Solids – Total – TS	160.3	P,G	100	4°C	7 days
Solids – Volatile – TVS	160.4	P,G	100	4°C	7 days
Specific Conductance – EC	120.1	P,G	100	4°C	28 days
Sulfate	375.3, 375.4	P,G	200	4°C	28 days
Sulfide	376.1, 376.2	P,G	500	4°C, Zn acetate, NaOH to pH >7	7 days
Sulfite	377.1	P,G	200	None required	Immediate
Surfactants (MBAS)	425.1	P,G	250	4°C	48 hours
Total Organic Carbon (TOC) in water	415.2	G	100	4°C, H <sub>2</sub> SO <sub>4</sub> or HCl to pH<2	28 days
Total Organic Halogen (TOX)	9020	G-TLC-A	500	4°C, H <sub>2</sub> SO <sub>4</sub> to pH<2	7 days
Turbidity	180.1	P,G	100	4°C	48 hours
<b>Organic Analyses</b>					
Base/Neutrals/Acid	525, 625, 8250, 8270, CLP	G-TLC-A	1000	4°C	7/40 days (5/35 days for CLP)
EDB and DBCP	504	VOA-G-A	3x40 vials	4°C	7 days/14 soil
Chlorinated pesticides & PCBs	508, 608, 8080	G-TLC-A	1000	4°C	7/40 days
Chlorinated Herbicides	515.1, 615, 8150	G-TLC-A	1000	4°C	7/40 days
Diesel (EFH)	8015m	G-A	1000	4°C	7 days/14 soil
Gasoline (VFH)	8015m, 8020	VOA-G	2x40 vials	4°C	7 days/14 soil
Organophosphorus Pesticides	507, 614, 8140	G-TLC-A	1000	4°C	7/40 days
Phenolics	604	G-TLC-A	1000	4°C	7 days
Purgeable Halocarbons	601, 8010	VOA-G	2x40 vials	4°C	14 days
Purgeable Aromatics	602, 8020	VOA-G	2x40 vials	4°C	7 days/14 soil
Volatile Organics in water	502.2, 524.1, 524.2	VOA-G	2x40 vials	4°C	14 days

Soil samples are typically collected in brass or steel tubes and wide mouth jars (500ml) with Teflon-lined caps and preserved at 4°C.

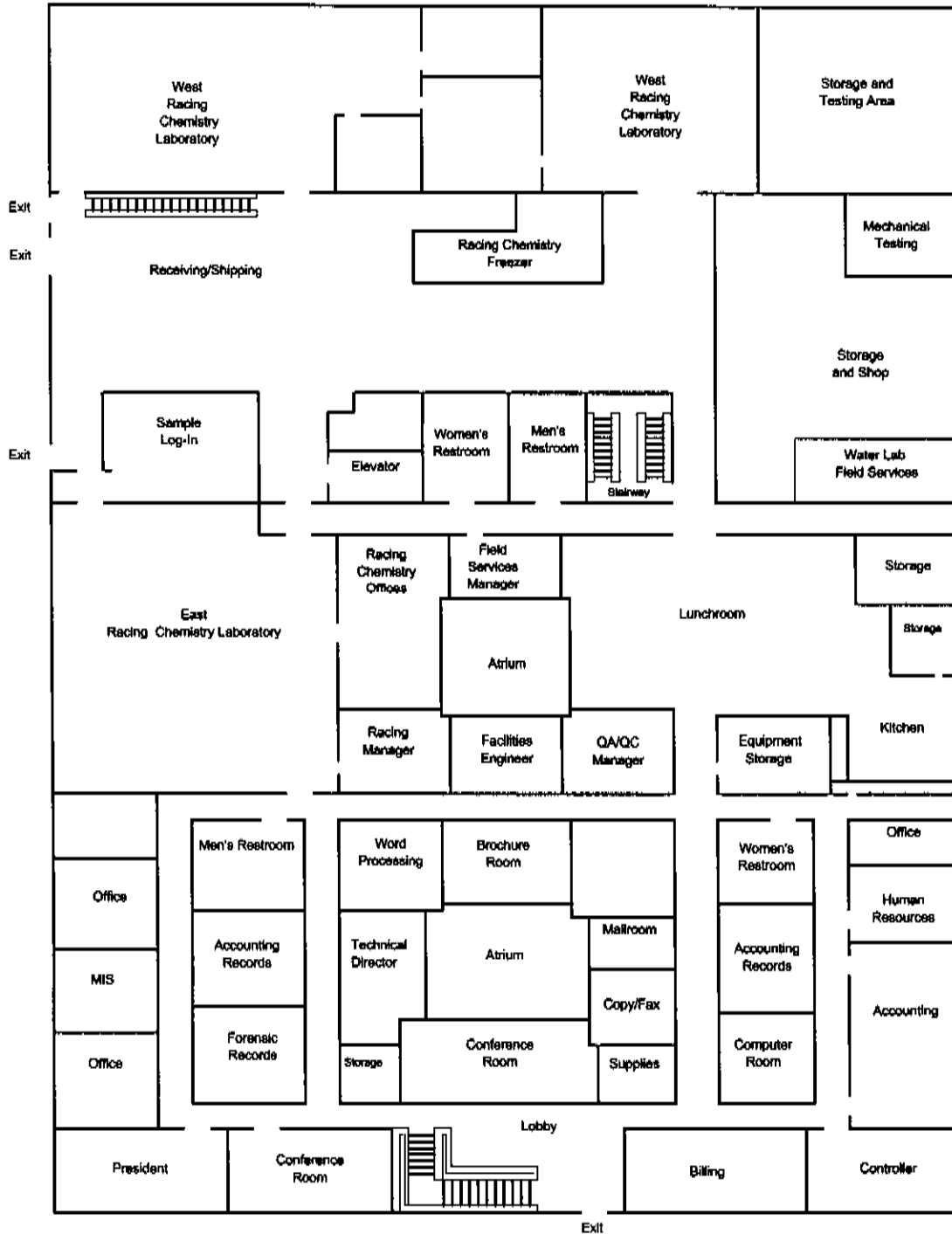
G = Glass  
G-A = Amber Glass  
G-TLC-A = Amber Glass with Teflon-lined cap  
P = Polyethylene  
VOA = Glass vial with Teflon-lined septum

\* The methods listed are EPA references, except for SM which references *Standard Methods for the Examination of Water and Wastes*, 19th. Edition. We also reference 40CFR, Part 136.

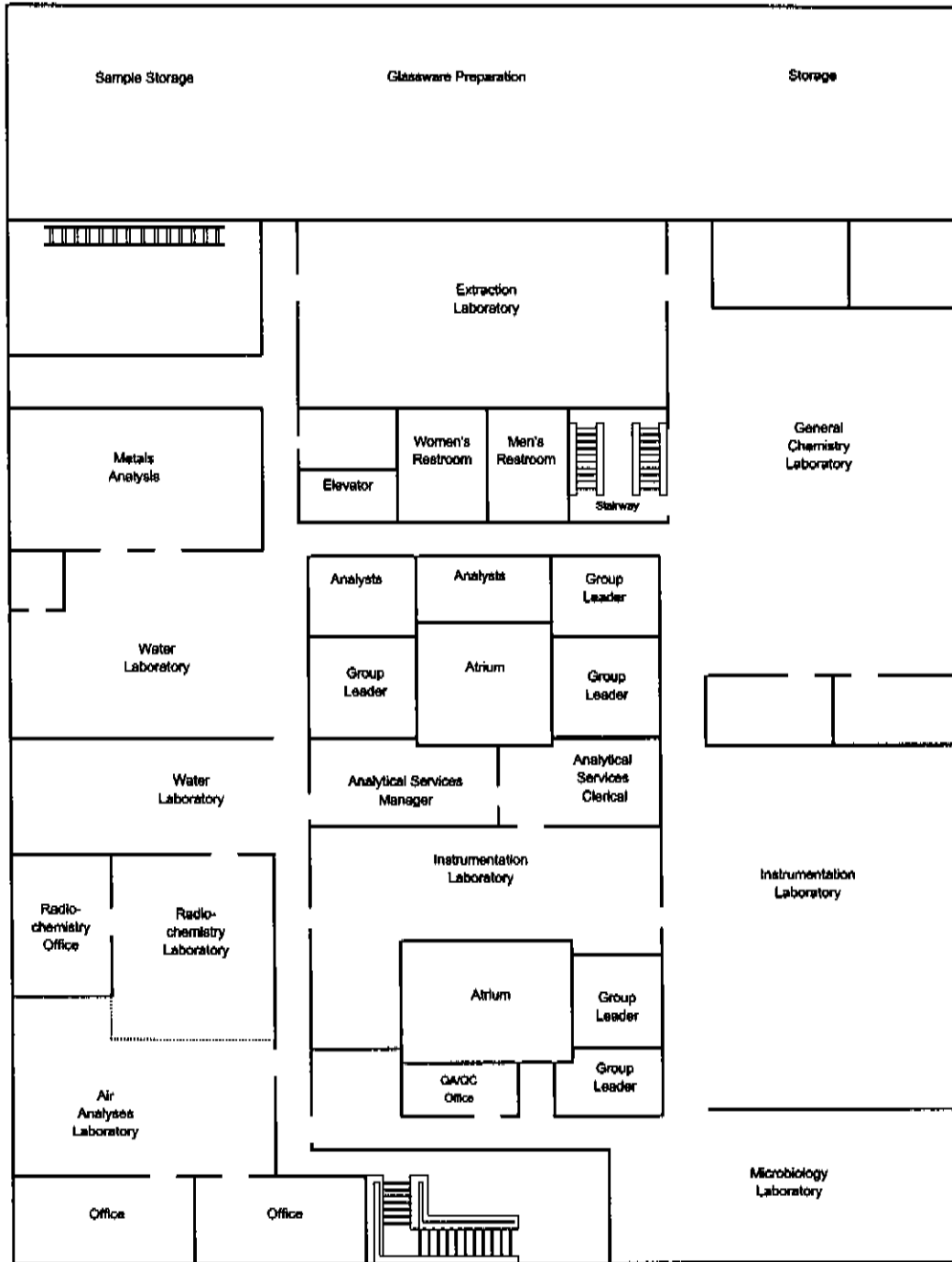
\*\* More than one analysis can be performed on the same sample which would reduce the volume required. Additional volume would be required for matrix spikes and duplicates.



Floor Plan, First Floor



Floor Plan, Second Floor



## WATER AND WASTE LABORATORY EQUIPMENT

Truesdail's Water and Waste Laboratory occupies about 5,000 square feet of space. This laboratory is responsible for determinations of inorganic chemicals, metals, and radioactivity. Purchase dates are in parentheses. All equipment is maintained and fully functional. A list of major equipment in this department follows:

### Analytical Equipment

### Purchase Date

Spectro CIR-OS M160 Axial ICP-OES	(2003)
<ul style="list-style-type: none"><li>• Software Controlled "Intelligent" Auto Sampler</li><li>• Two Seconds Data Acquisition Time across 160nm to 800nm Spectrum</li><li>• Axial Plasma for Maximum Sensitivity and Substantially Lower MDL's than Standard ICP</li><li>• Full PC based Data System with remote access capability for 24hr operations</li></ul>	
Spectromass 2000 ICP-MS	(1999)
<ul style="list-style-type: none"><li>• Intelligent Auto Sampler</li><li>• Windows 98 Workstation with Integrated QC Software Package</li><li>• Full Spectrum of Elemental Analysis</li><li>• 3% TDS Analysis Capability</li></ul>	
Buck Scientific Cold Vapor Generator	(1998)
<ul style="list-style-type: none"><li>• Ultra Trace Level Gold Amalgam Concentrator</li></ul>	
Perkin Elmer ICP 5500 Plasma Emission Spectrometer	(1985)
<ul style="list-style-type: none"><li>• P.E. Data Work Station 3600</li><li>• A.A. Optics</li><li>• Auto Sampler</li></ul>	
ARL Simultaneous ICP 3560	(1989)
<ul style="list-style-type: none"><li>• Windows 98 Work Station</li><li>• CETAC Auto Sampler</li><li>• Vacuum Upgrade</li><li>• 24 elements</li></ul>	
ARL Model 902 Atomic Absorption Spectrometer	(1990)
<ul style="list-style-type: none"><li>• HG900 Hydride Generator</li><li>• GF2000 Graphite Furnace</li><li>• Auto Sampler</li><li>• AST Data Work Station</li></ul>	
ARL Model 902 Atomic Absorption Spectrometer	(1990)
<ul style="list-style-type: none"><li>• HG 900 Hydride Generator</li><li>• Flame Unit - Acetylene and Nitrous Oxide</li><li>• Auto samplers</li><li>• AST Data Work Station</li></ul>	

**WATER AND WASTE EQUIPMENT (CONT.) PURCHASE DATE**

Perkin Elmer 5100 Atomic Absorption Spectrometer	(1995)
• Graphite Furnace	
• Zeeman background correction	
• Auto sampler	
• IBM (clone) Data Work Station	
Dionex ICS-2500 Ion Chromatograph	(2003)
• Auto Sampler	
• Windows PC Data System	
Dionex ICS-2000 Ion Chromatograph	(2003)
• Auto Sampler	
• Windows PC Data System	
Dionex 4000 Ion Chromatograph with advanced chromatography modules for anions and cations	(1989)
• Auto Sampler	
• Windows PC Data System	(1998)
Dorhmann/Envirotech Model 80 TOC Analyzer	(1990)
Dorhmann/Envirotech Model 50A TOC Analyzer	(1987)
• D54 Ultra Low Organics Module	
Dorhmann/Envirotech Model MC-3 TOX Analyzer	(1991)
CEM Model MSD-2000 Microwave Digestion System	(1992)
Technicon II Auto Sampler	
Ludlum 2000-Alpha Scintillation Counter	(1996)
Random Model SC-5 - Alpha Scintillation Counter	(1995)
Tennelec LB-5100 Series III-Automatic Low Background Alpha/Beta Counting System	(1990)
Protean Ultra Low Level Alpha/Beta Counter	(1996)
Beckman LS-100C Liquid Scintillation Counter	(1984)
Turner Fluorometer Model 110	
Abott Auto-Logic III Gamma Counter Model 7402-06	
Precision Scientific BOD Incubator	(1986)
HACH 2100AN Turbidimeter	(1998)
Fischer & Porter Amperometric Titrator	(1993)
Labline Circulating Water Bath	
PS Model 104 Convection Oven	
Bausch and Lomb Spectronic 20 (3)	

### **Water and Waste Laboratory (Cont.)**

Spectronic Instruments Model 20 Genesis	(1998)
Bausch and Lomb Spectronic 21	(1987)
Orion Digital pH Meter Model 501	(1984)
Orion Model SA720 pH Meter	(1989)

### **Field Sampling Equipment**

- 3 - ISCO 1870 Flowmeters
- 1 - ISCO 1700 Flowmeter
- 1 - Manning UF 1100 Flowmeter
- 6 - ISCO 1680 Samplers
- 3 - ISCO 1391 Samplers
- 3 - ISCO 2910 Samplers
- 1 - ISCO 3710 Sampler
- 1 - ISCO 2900 Sampler
- 4 - Plastifab Portable Flumes, 2 ea. 6", 10" and 12"
- 4 - ISCO Flow Programs
- 1 - VWR pH Meter
- 7 - 12V Lead/Acid Batteries
- 4 - ISCO Battery Chargers (Trickle Chargers)
- 2 - Battery Chargers (Fast Chargers)
- 1 - Airflow 2351 (Vertical Fan and Hose)
- 1 - Rope and Harness
- 1 - Manhole Cover Lifter
- 1 - Large Rubber Boots
- 5 - Assorted Marker Cones
- 1 - Hand Truck
- 1 - Yellow Poncho
- 2 - MSA Canister Type Respirations
- 1 - Full Body Harness
- 1 - Portable Tripod with winch
- 1 - Recording pH Meter
- 3 - Calibrated Water Meters
- 2 - Portable Gas Analyzers
- 3 - Teflon & Stainless Steel Bailers
- 1 - Portable D.O. Meter
  - Collwasa Samplers
  - Drum Thiefs
- 2 - 3" Soil Augers (20 feet)
- 1 - Soil Core Sampler (25 feet)

## Microbiology Laboratory Equipment

Truesdail's Microbiology Department examines water, waste, and other environmental samples (including foods) for microbiological contaminations. The staff in the microbiology department is also responsible for determination of asbestos in environmental samples. Where available, purchase dates are given in parentheses. All equipment is maintained and fully functional. A list of equipment in this department follows:

### Asbestos Testing

### Purchase Date

#### 2 - Low Power Microscopes

- A.O., 30X
- Bausch & Lomb, 15-90X

#### 2 - Polarized Light

(1988)

- Olympus DOS
- Megi ML RM (with phase contrast)

#### 1 - Toyodo Phase Contrast Microscope

#### 1 - Airfiltronix Model 4500 Work Station Hood with HEPA filter

### Microbiology

#### 1 - Castle Thematic Model 60 Autoclave

(1987)

#### 4 - Precision Scientific Incubators (R.T. temp to 60°C)

#### 2 - Fungus Chambers (Truesdail designed)

- 4' x 2' x 3'
- 1-1/2' x 2' x 3'

#### 1 - A.O. Darkfield Quebec Colony Counter, Model 3330

#### 2 - Water Baths

- Labline (R.T. Temp to 120°C)
- Precision Scientific (R.T. Temp 20° to 100°C)

## Instrumental Laboratory Equipment

The Instrumental Analysis Laboratory occupies three rooms, totaling about 4,000 square feet. One room houses GCs, HPLC, and data systems. A second room houses our GC/MS units and their data systems. A third room is the solvent extraction and sample preparation area. The Instrumental Laboratory provides the bulk of organic pollutant analyses. Where available, purchase dates are given in parentheses. All equipment is maintained and fully functional. A list of major equipment in this department follows:

	<b>Purchase Date</b>
Varian Saturn 2100 GC/MS with NIST Mass Spectral Library	(2002)
• Saturn PC based Data System with environmental quantitation software	
• Varian CP-8400 Auto Sampler	
Varian Saturn 2200 GC/MS	(2002)
• Saturn PC based Data System with environmental quantitation software	
• Varian CP-8400 Auto Sampler	
3 - Hewlett Packard 5970 B GC/MS	(1985 & 1989)
• ProLab Data System with NIST Mass Spectral Library	(1999)
• Techmar LSC II Purge and Trap Device	
1 - Hewlett Packard 5972 GC/MS	(1996)
• ProLab Data System with NIST Mass Spectral Library	(1999)
• PTA 30 W/S Auto Sampler	
• O.I. Model 4460A Sample Concentrator	
1 - Hewlett Packard 5995C GC/MS	(1986)
• ProLab GC/MS Data System with NIST Mass Spectral Library	(1999)
• Tekmar LSC II Purge and Trap Device	
• O.I. Model 4460 sample concentration	
2 - Hewlett Packard 5971 GC/MS	(1991)
• ProLab GC/MS Data System with NIST Mass Spectral Library	(1999)
1 - Technicon Fast LC HPLC UV Detector	(1988)
1 - Shimadzu SCL-6A HPLC	(1985)
• Shimadzu SPD-6AV UV-VIS Detector	
• Kratos Model 150 Fluorescent Detector	
1 - Hewlett-Packard 5730 GC Dual FID, Dual TC Detectors	(1981)
1 - Hewlett-Packard 402 GC Dual FID Detectors and Tracor-Hall Detector	

## **Instrumental Laboratory Equipment (Cont.)**

	<b>Purchase Date</b>
1 - Hewlett-Packard 5750 GC Dual FID, Dual TC & Electron Capture Detector	(1984)
1 - Hewlett-Packard 5700 GC Dual FID Detectors	
1 - Carle 221 GC FID Detector	
1 - Carle 400 GC, FID Detector	
1 - Perkin-Elmer Model 154B GC NDIR Detector	(1990)
4 - Tracor 540 GC, PID and Hall Detectors	(1984, 1985, 1988, 1990)
• Tekmar LSC II Purge and Trap Device (3)	
• O.I. 4460 Sample Concentrator	
• PTA 30 Auto Sampler	
1 - Tracor 540 GC, FID and N/P Detectors	(1986)
• Precision Sampling Auto Sampler	
1 - Tracor 540 GC, PID and FID Detectors	(1984)
• Precision Sampling Auto Sampler	
• Tekmar ISC II Purge and Trap	
4 - Tracor 540 GC, Dual ECD's	(1987, 1987, 1991, 1992)
• Precision Sampling Auto Sampler	
1 - Tracor 540 GC, FPD and TCD Detectors	(1988)
1 - Shimadzu 9A GC, Dual FID	(1986)
• Tekmar LSC II Purge and Trap Device	
• Tekmar ALS Auto Sampler	
12 - Shimadzu CR3A Electronic GC Integrator/Recorder	
1 - Hewlett-Packard 3390 Electronic Integrator/Recorder	
1 - Spectra Physics 41A Electronic Integrator/Recorder	
1 - Perkin Elmer 257 Infra Red Analyzer	(1985)
1 - Analect Instruments FX6160 FTIR Spectrophotometer	(1985)
1 - Beckman D.U. 50 U.V. - Visible Spectrophotometer	(1986)
• IBM XT Data System	
8 - Dynamic Solutions Chromatography Work Stations	(1987-1991)
• NEC at Computer, 1.2 MB Disc, 20 MB Disc	
• 8-Detector Data Acquisition Board	
• NEC Printer	
1 - Head Systems - Ultrasonics Sonicator with 1/2" horn, 1/2" standard microtip, 3/4" distrupter horn	
1 - SRI 8610 GC, FID, and TCD Detectors	



## Air Analysis Laboratory Equipment

The Air Analysis Laboratory occupies about 2700 square feet. This department is responsible for emissions testing, SCAQMD source testing, air contaminant analyses, CARB emissions determinations, air quality compliance testing, and emissions testing research and development.

The following major equipment items are available:

### Source Testing Equipment

- 3 – EPA 5 Sampling Trains, Nutech
- 6 – Gast Vacuum Pumps
- 5 – Sprague Dry Test Meters
- 10 – Sets of Greenburg–Smith Impingers (4 ea.)
- 14 – Magnehelic Differential Pressure Gages–Various
- 8 – Assorted Pitot Tubes
- 40 – Calibrated NO<sub>x</sub> Flasks (EPA 7 equiv.)
- 40 – S.S. Traps with 7-liter Aluminum Cylinders (SCAWMD 25.1)

### Analytical

- 3 - ORSAT Analyzer Absorption Spectrometer
- 1 - Turner Spectrophotometer
- 2 - Carle GC/FID with Methanizer - EPA 25
- 2 - Beckman I.R. Analyzers - EPA 25 (equiv.)
- 1 - Sartorius Torsion Balance - 0.1 mg.
- 1 - Right-A-Weigh Balance - 0.1 mg.
- 1 - Trap Condensate Recovery System - EPA 25 (equiv.)
- 3 - Computing Integrators for FID, IR, TCD, FPD.
  - NBS Traceable Cal Gases for GCs
  - Complete Chemical Lab, Hood, Benches, etc.
- 1 - Tracor 540 GC with TCD and FPD detectors - Fixed gases and sulfur

## Air Analysis Laboratory Equipment (cont.)

### Mobile Monitoring System

The continuous monitoring system enables real-time analysis of nitrogen oxides (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), oxygen (O<sub>2</sub>), carbon monoxide (CO), and carbon dioxide (CO<sub>2</sub>). As the sample enters the system, it is conditioned through a tandem condenser refrigeration unit, multiple-stage filtration, and is pressurized with a Teflon coated neoprene diaphragm pump between the two condensers. All connections and tubing to the instruments are Swagelok and stainless steel. Each analyzer has individual flowmeters and there is a system bypass flowmeter. Calibration gas can be introduced to each analyzer individually, through the entire system, or manually through the probe tip. The analyzers employed are:

Beckman Model 864-11 Infrared CO Analyzer

Ranges: 0-5,000, 2,000 500 ppmv with ranges 2 and 3 linearized

Beckman Model 867 low CO Analyzer

Ranges: 0-2,500, 100, 50, 25 ppmv with range below 100 linear

Discrimination: H<sub>2</sub>O 100,000:1 ppmv

CO<sub>2</sub> 200,000:1 ppmv

Western Research SO<sub>2</sub> Analyzer Model 721-AT

Ranges: 0-100, 5,000 ppmv (linear)

Beckman Model 951A NO/NO<sub>x</sub> Analyzer (linear)

Ranges: 0-10, 25, 100, 250, 1,000, 2,500, 10,000 ppmv

Beckman Model 755 O<sub>2</sub> Analyzer

Ranges: 0-5, 10, 25 %V (linear)

Beckman Model 864-23 CO<sub>2</sub> Analyzer

Ranges: 0-5, 10, 20 %V with ranges 2 and 3 linearized

The outputs of each analyzer are wired into a Fluke Helios A to D converter and logged on a Zenith model SW-3000 computer running CIM-PAC software. The entire system is mounted in a 12 foot Dico tandem axle trailer with a 13,500,000 BTU Domestic climate control system.

Schematics of our system follow.

## **CONTINUOUS MONITORING SYSTEM**

## **FLUE GAS EXTRACTION SET-UP**

## APPENDIX D – EXAMPLES OF EXTERNAL AUDIT REPORTS

### PRODUCT CERTIFICATION AUDIT FORM

Company \_\_\_\_\_ Date \_\_\_\_\_

Location(s) \_\_\_\_\_

Audit participants \_\_\_\_\_

Description of product \_\_\_\_\_

ModelNumber(s) \_\_\_\_\_

Brand Name(s) \_\_\_\_\_

#### 1.0 Organization and Management

- 1.1 Organization Chart with clearly defined management structure?
- 1.2 Name and title of individual(s) responsible for the product line to be certified?
- 1.3 Is the quality assurance organization clearly defined?
- 1.4 Does QA/QC report directly to senior management?
- 1.5 Name of QA/QC person(s) responsible for the product to be certified?

#### 2.0 Quality Assurance/Control Plan

- 2.1 Is there in place a written QA/QC manual that covers the operations producing the product to be certified?
- 2.2 Does the QA/QC Manual Cover:
  - A reference to the QA/QC standards being used such as ISO or ANSI etc.
  - Goals of program
  - Organization/ structure/personnel
  - Purchasing and subcontracting
  - Equipment and calibration

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Document control  
Internal audits  
Corrective actions  
Personnel qualifications  
Employee training  
Operational Procedures

2.3 Is the QA/QC manual regularly updated and is it maintained with a document control system?

**3.0 Standard Operating Procedures / Manufacturing Specifications**

3.1 Are there written, standard operating and manufacturing procedures?

3.2 Are written procedures maintained under strict document control, with changes and modifications dated and signed?

3.4 Are the standard procedures readily available to the workers producing the product?

3.4 What internal audits are performed to insure workers are following procedures?

**4.0 Subcontractor requirements for Quality Assurance/ Material Specifications**

4.1 How are specifications and quality assurance requirements passed through to subcontractors and suppliers?

4.2 Are on-site inspections and/or audits done on suppliers or subcontractors?

4.3 Are any of the subcontractors and suppliers approved by other certifying agencies?

**5.0 Documentation of In-house QA/QC (records review)**

5.1 What documentation is available for routine In-house testing and inspections?

5.2 How long are records kept?

5.3 Is there a standard corrective action protocol?

**6.0 Audit trail of parts: purchasing specifications, invoices, shipping and receiving documentation**

6.1 Do purchasing orders and subcontracts clearly specify the items or materials to be purchased with drawings, descriptions, QC requirements etc.

- 6.2 Do invoices agree with descriptions of purchased parts or materials?
- 6.3 Do shipping and receiving documents clearly identify parts and materials, and how are records kept?
- 6.4 Are "First Article" inspections done on received goods and what records are kept?

**7.0 Results of any prior audits by other certifying organizations**

- 7.1 Has this product ever been certified by any other organization?
- 7.2 Has any of the components in this product been certified?
- 7.3 Have any similar models of this product been certified?

**8.0 Results of prior sample testing, in house and external**

- 8.1 What tests and analyses relevant to certification parameters are routinely ran?
- 8.2 Are any tests routinely ran outside the company?
- 8.3 Are results available from any previous certification effort?

**9.0 Review of product/packaging markings**

- 9.1 Do products and/or packaging clearly display the certification mark?
- 9.2 What other documents carry the certification mark (brochures, fliers, ads, posters etc.)

**10.0 Records of complaints received about certified products**

- 10.1 Are records of complaints about a product kept?
- 10.2 Are records of corrective actions maintained?

**11.0 Samples to be tested**

- 11.1 Can samples be taken at random from the warehouse or production line?
- 11.2 Can the auditor leave with samples to be tested or must they be shipped?

**12.0 Other Comments**

Auditor(s) Signature \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_ Date \_\_\_\_\_

## VENDOR QUALITY SYSTEM ON-SITE AUDIT

Vendor Name: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip Code: \_\_\_\_\_

Vendor contact and members of audit team:

ITEM	ANSI/NCSL	RESPONSIBILITIES AND EVALUATION	COMPLIES
1.0	Z 540-1		
1.1	3.1	Is the Quality Control manual current and approved by management?	YES NO
1.2	3.2	Is the quality program, including procedures, processes and products available for review?	YES NO

ITEM	MIL-I-	MEASURING AND TEST EQUIPMENT (M&TE)	COMPLIES
2.0	45208A		
2.0	5.1	Is there a written description of the calibration system covering the M&TE and measurement standards?	YES NO
2.1	5.2	Are measurement standards traceable to NIST (National Institute of Standards and Technology)?	YES NO
2.2	5.3	Do the measurement standards have the accuracy, stability, range, and resolution required for the intended use?	YES NO
2.3	5.4	Are the measurement systems calibrated at periodic intervals and is there a effective recall system for the mandatory recall of M&TE and measurement systems?	YES NO
2.4	5.9	Do calibration records include: (a) individual record of calibration (b) description/ identification of item (c) calibration interval (d) calibration date (e) identification of calibration source (f) calibration used (g) calibration results (h) calibration actions taken?	YES NO
2.5	5.10	Are M&TE labeled and identified with calibration date?	YES NO

Comments \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Audit Completed By:  
 Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



## A. QUALITY CONTROL CHARTS FOR ENVIRONMENTAL PARAMETERS

A discussion of the statistical basis for accuracy and precision determinations was given in Section 3.4. In this Appendix, we are presenting examples of some quality control charts for several parameters from different types of determinations.

- Volatile Organics by Gas Chromatography/Mass Spectroscopy
  - EPA 524.2
    - 1,2-Dichloroethene
    - Benzene
    - Trichloroethane
- Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy
  - Bis (2 ethylhexyl) phthlate
  - Benzo(a)pyrene
- Herbicides by Gas Chromatography EPA 515.1
  - Silvex
- Inorganics by Ion Chromatography EPA 300.0
  - Chloride
  - Nitrate

## B. PERFORMANCE EVALUATION SAMPLE RESULTS

Truesdail participated in several QA/QC programs sponsored by EPA until they were ultimately cancelled. We have included a summary of our EPA WST WP results through termination of the program. In 1998, Radiochemistry results are given for the last EPA performance evaluation. Results for Microbiology performance evaluations are included through termination by the State in 2000. Most of our pollution performance evaluation results are prior to 1994 when EPA ended the air pollution performance evaluation program.

Recent performance evaluation results for water, wastewater, and solid waste have been included for samples from commercial sources.

## APPENDIX F – CERTIFICATIONS

Copies of our certifications are attached as follows:

- California Department of Health Services, Environmental Laboratory Accreditation Program (ELAP) Certificate - Tustin Facility
- California Department of Health Services, Environmental Laboratory Accreditation Program (ELAP) Certificate - Hesperia Facility
- Environmental Protection Agency (EPA) ICR Chemistry Laboratory Approval
- Environmental Protection Agency (EPA) UCMR Testing for Perchlorate
- California Air Resources Board (ARB) Independent Contractors Program, Certifications
- South Coast Air Quality Management District, Laboratory Approval Program
- Naval Energy and Environmental Support Activity (NEESA) Approval
- Los Angeles County Sanitation District Certification
- American National Standards Institute (ANSI), Accreditation Certificates
- IAPMO Research and Testing



STATE OF CALIFORNIA  
DEPARTMENT OF HEALTH SERVICES  
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

**ENVIRONMENTAL LABORATORY CERTIFICATION**

Is hereby granted to

**TRUESDAIL LABORATORIES, INC.**

14201 FRANKLIN AVENUE  
TUSTIN, CA 92780

Scope of certification is limited to the  
"Accredited Fields of Testing"  
which accompanies this Certificate.

Continued certification status depends on successful completion of site visit,  
proficiency testing studies, and payment of applicable fees.

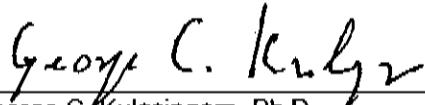
This Certificate is granted in accordance with provisions of  
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **1237**

Expiration Date: **07/31/2008**

Effective Date: **07/01/2006**

Richmond, California  
subject to forfeiture or revocation

  
\_\_\_\_\_  
George C. Kulasingam, Ph.D.  
Program Chief  
Environmental Laboratory Accreditation Program

## Department of Health Services



Sandra Shewry  
Director



Arnold Schwarzenegger  
Governor

July 1, 2006

Certificate No.: 1237

NORMAN E. HESTER, Ph.D  
TRUESDAIL LABORATORIES, INC.  
14201 FRANKLIN AVENUE  
TUSTIN, CA 92780

Dear NORMAN E. HESTER, Ph.D:

This is to advise you that the laboratory named above continues to be certified as an environmental testing laboratory pursuant to the provisions of the California Environmental Laboratory Improvement Act (Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, et seq.). Certification for all currently certified Fields of Testing that the laboratory has applied for renewal shall remain in effect until **07/31/2008** unless revoked.

**Please note that the renewal application for certification is subject to an on-site visit, and continued use of the certificate is contingent upon:**

- \* **successful completion of the site visit;**
- \* **acceptable performance in the required performance evaluation (PE) studies;**
- \* **timely payment of all fees, including an annual fee due before July 31, 2007;**
- \* **compliance with Environmental Laboratory Accreditation Program (ELAP) statutes (HSC, Section 100825, et seq.) and Regulations (California Code of Regulations (CCR), Title 22, Division 4, Chapter 19).**

An updated "Approved Fields of Testing" will be issued to the laboratory upon completion of the renewal process. The application for the next renewal must be received 90 days before the expiration of this certificate to remain in force according to the CCR, Section 64801 through 64827.

Please note that the laboratory is required to notify ELAP of any major changes in the laboratory such as the transfer of ownership, change of laboratory director, change in location, or structural alterations which may affect adversely the quality of analyses (HSC, Section 100845(b)(d)). Please include the above certificate number in all your correspondence to ELAP.

If you have any questions, please contact ELAP at (510) 620-3155.

Sincerely,

George C. Kulasingam, Ph.D.

Program Chief  
Environmental Laboratory Accreditation Program

**CALIFORNIA DEPARTMENT OF HEALTH SERVICES  
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM  
Accredited Fields of Testing**

TRUESDAIL LABORATORIES, INC.

Lab Phone (714) 730-6239

14201 FRANKLIN AVENUE  
TUSTIN, CA 92780

Certificate No: 1237      Renew Date: 7/31/2006

**Field of Testing: 101 - Microbiology of Drinking Water**

101.010 001	Heterotrophic Bacteria	SM9215B
101.020 001	Total Coliform	SM9221A,B
101.021 001	Fecal Coliform	SM9221E (MTF/EC)
101.050 001	Total Coliform	SM9222A,B,C
101.051 001	Fecal Coliform	SM9221E (MF/EC)
101.060 002	Total Coliform	SM9223
101.060 003	E. coli	SM9223
101.070 002	Total Coliform	Colisure
101.070 003	E. coli	Colisure
101.120 001	Total Coliform (Enumeration)	SM9221A,B,C
101.130 001	Fecal Coliform (Enumeration)	SM9221E (MTF/EC)
101.140 001	Total Coliform (Enumeration)	SM9222A,B,C
101.160 001	Total Coliform (Enumeration)	SM9223

**Field of Testing: 102 - Inorganic Chemistry of Drinking Water**

102.030 001	Bromide	EPA 300.0
102.030 003	Chloride	EPA 300.0
102.030 005	Fluoride	EPA 300.0
102.030 006	Nitrate	EPA 300.0
102.030 007	Nitrite	EPA 300.0
102.030 008	Phosphate, Ortho	EPA 300.0
102.030 010	Sulfate	EPA 300.0
102.045 001	Perchlorate	EPA 314.0
102.050 001	Cyanide	EPA 335.4
102.100 001	Alkalinity	SM2320B
102.120 001	Hardness	SM2340B
102.121 001	Hardness	SM2340C
102.130 001	Conductivity	SM2510B
102.140 001	Total Dissolved Solids	SM2540C
102.145 001	Total Dissolved Solids	EPA 160.1
102.150 001	Chloride	SM4110B
102.150 002	Fluoride	SM4110B
102.150 003	Nitrate	SM4110B
102.150 004	Nitrite	SM4110B
102.150 005	Phosphate, Ortho	SM4110B
102.150 006	Sulfate	SM4110B
102.163 001	Free & Total Chlorine	SM4500-Cl G
102.170 001	Chloride	SM4500-Cl- B
102.171 001	Chloride	SM4500-Cl- D
102.180 001	Chlorine Dioxide	SM4500-ClO2 D
102.182 001	Chlorite	SM4500-ClO2 E
102.190 001	Cyanide, Total	SM4500-CN E
102.192 001	Cyanide, amenable	SM4500-CN G
102.200 001	Fluoride	SM4500-F C
102.220 001	Nitrite	SM4500-NO2 B

As of 4/13/2005, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.

102.230	001	Nitrate	SM4500-NO3 D
102.240	001	Phosphate, Ortho	SM4500-P E
102.251	001	Sulfate	SM4500-SO4 E
102.262	001	Total Organic Carbon	SM5310C
102.263	001	DOC	SM5310C
102.270	001	Surfactants	SM5540C
102.280	001	UV254	SM5910B
102.510	001	Calcium	SM3120B
102.510	002	Magnesium	SM3120B
102.510	003	Potassium	SM3120B
102.510	004	Silica	SM3120B
102.510	005	Sodium	SM3120B
102.510	006	Hardness (calc.)	SM3120B
102.520	001	Calcium	EPA 200.7
102.520	002	Magnesium	EPA 200.7
102.520	003	Potassium	EPA 200.7
102.520	004	Silica	EPA 200.7
102.520	005	Sodium	EPA 200.7
102.520	006	Hardness (calc.)	EPA 200.7
102.533	001	Silica	SM4500-Si D

**Field of Testing: 103 - Toxic Chemical Elements of Drinking Water**

103.060	001	Aluminum	SM3120B
103.060	002	Arsenic	SM3120B
103.060	003	Barium	SM3120B
103.060	004	Beryllium	SM3120B
103.060	005	Cadmium	SM3120B
103.060	007	Chromium	SM3120B
103.060	008	Copper	SM3120B
103.060	009	Iron	SM3120B
103.060	011	Manganese	SM3120B
103.060	012	Nickel	SM3120B
103.060	015	Silver	SM3120B
103.060	017	Zinc	SM3120B
103.130	001	Aluminum	EPA 200.7
103.130	002	Arsenic	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	004	Beryllium	EPA 200.7
103.130	005	Cadmium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	008	Copper	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	017	Zinc	EPA 200.7
103.130	018	Boron	EPA 200.7
103.140	001	Aluminum	EPA 200.8
103.140	002	Antimony	EPA 200.8
103.140	003	Arsenic	EPA 200.8
103.140	004	Barium	EPA 200.8
103.140	005	Beryllium	EPA 200.8
103.140	006	Cadmium	EPA 200.8
103.140	007	Chromium	EPA 200.8
103.140	008	Copper	EPA 200.8

As of 4/13/2005, this list supersedes all previous lists for this certificate number.  
 Customers: Please verify the current accreditation standing with the State.

103.140	009	Lead	EPA 200.8
103.140	010	Manganese	EPA 200.8
103.140	011	Mercury	EPA 200.8
103.140	012	Nickel	EPA 200.8
103.140	013	Selenium	EPA 200.8
103.140	014	Silver	EPA 200.8
103.140	015	Thallium	EPA 200.8
103.140	016	Zinc	EPA 200.8
103.140	017	Boron	EPA 200.8
103.140	018	Vanadium	EPA 200.8
103.160	001	Mercury	EPA 245.1
103.310	001	Chromium (VI)	EPA 218.6

**Field of Testing:** 104 - Volatile Organic Chemistry of Drinking Water

104.010	044	Tetrachloroethene	EPA 502.2
104.010	050	Trichloroethene	EPA 502.2
104.015	001	Bromodichloromethane	EPA 502.2
104.015	002	Bromoform	EPA 502.2
104.015	003	Chloroform	EPA 502.2
104.015	004	Dibromochloromethane	EPA 502.2
104.015	005	Trihalomethanes	EPA 502.2
104.020	002	Methyl tert-butyl Ether (MTBE)	EPA 502.2
104.030	001	1,2-Dibromoethane	EPA 504.1
104.030	002	1,2-Dibromo-3-chloropropane	EPA 504.1
104.035	001	1,2,3-Trichloropropane	SRL 524M-TCP
104.040	000	Volatile Organic Compounds	EPA 524.2
104.040	001	Benzene	EPA 524.2
104.040	007	n-Butylbenzene	EPA 524.2
104.040	008	sec-Butylbenzene	EPA 524.2
104.040	009	tert-Butylbenzene	EPA 524.2
104.040	010	Carbon Tetrachloride	EPA 524.2
104.040	011	Chlorobenzene	EPA 524.2
104.040	015	2-Chlorotoluene	EPA 524.2
104.040	016	4-Chlorotoluene	EPA 524.2
104.040	019	1,3-Dichlorobenzene	EPA 524.2
104.040	020	1,2-Dichlorobenzene	EPA 524.2
104.040	021	1,4-Dichlorobenzene	EPA 524.2
104.040	022	Dichlorodifluoromethane	EPA 524.2
104.040	023	1,1-Dichloroethane	EPA 524.2
104.040	024	1,2-Dichloroethane	EPA 524.2
104.040	025	1,1-Dichloroethene	EPA 524.2
104.040	026	cis-1,2-Dichloroethene	EPA 524.2
104.040	027	trans-1,2-Dichloroethene	EPA 524.2
104.040	028	Dichloromethane	EPA 524.2
104.040	029	1,2-Dichloropropane	EPA 524.2
104.040	033	cis-1,3-Dichloropropene	EPA 524.2
104.040	034	trans-1,3-Dichloropropene	EPA 524.2
104.040	035	Ethylbenzene	EPA 524.2
104.040	037	Isopropylbenzene	EPA 524.2
104.040	039	Naphthalene	EPA 524.2
104.040	041	N-propylbenzene	EPA 524.2
104.040	042	Styrene	EPA 524.2
104.040	044	1,1,2,2-Tetrachloroethane	EPA 524.2
104.040	045	Tetrachloroethene	EPA 524.2
104.040	046	Toluene	EPA 524.2

As of 4/13/2005, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.

104.040	048	1,2,4-Trichlorobenzene	EPA 524.2
104.040	049	1,1,1-Trichloroethane	EPA 524.2
104.040	050	1,1,2-Trichloroethane	EPA 524.2
104.040	051	Trichloroethene	EPA 524.2
104.040	052	Trichlorofluoromethane	EPA 524.2
104.040	054	1,2,4-Trimethylbenzene	EPA 524.2
104.040	055	1,3,5-Trimethylbenzene	EPA 524.2
104.040	056	Vinyl Chloride	EPA 524.2
104.040	057	Xylenes, Total	EPA 524.2
104.045	001	Bromodichloromethane	EPA 524.2
104.045	002	Bromoform	EPA 524.2
104.045	003	Chloroform	EPA 524.2
104.045	004	Dibromochloromethane	EPA 524.2
104.045	005	Trihalomethanes	EPA 524.2
104.050	002	Methyl tert-butyl Ether (MTBE)	EPA 524.2
104.050	004	tert-Amyl Methyl Ether (TAME)	EPA 524.2
104.050	005	Ethyl tert-butyl Ether (ETBE)	EPA 524.2
104.050	006	Trichlorotrifluoroethane	EPA 524.2
104.050	007	tert-Butyl Alcohol (TBA)	EPA 524.2
104.050	008	Carbon Disulfide	EPA 524.2
104.050	009	Methyl Isobutyl Ketone	EPA 524.2

**Field of Testing:** 105 - Semi-volatile Organic Chemistry of Drinking Water

105.010	000	Pesticides	EPA 505
105.010	002	Alachlor	EPA 505
105.010	003	Atrazine	EPA 505
105.010	004	Chlordane	EPA 505
105.010	006	Endrin	EPA 505
105.010	007	Heptachlor	EPA 505
105.010	008	Heptachlor Epoxide	EPA 505
105.010	009	Hexachlorobenzene	EPA 505
105.010	010	Hexachlorocyclopentadiene	EPA 505
105.010	011	Lindane	EPA 505
105.010	012	Methoxychlor	EPA 505
105.010	013	Simazine	EPA 505
105.010	014	Toxaphene	EPA 505
105.010	015	PCBs as Aroclors (screen)	EPA 505
105.030	000	N-, P- Pesticides	EPA 507
105.030	001	Alachlor	EPA 507
105.030	002	Atrazine	EPA 507
105.030	007	Molinate	EPA 507
105.030	009	Simazine	EPA 507
105.030	010	Thiobencarb	EPA 507
105.040	000	Chlorinated Pesticides	EPA 508
105.040	003	Chlordane (total)	EPA 508
105.040	007	Endrin	EPA 508
105.040	008	Heptachlor	EPA 508
105.040	009	Heptachlor Epoxide	EPA 508
105.040	010	Hexachlorobenzene	EPA 508
105.040	011	Hexachlorocyclopentadiene	EPA 508
105.040	012	Lindane	EPA 508
105.040	013	Methoxychlor	EPA 508
105.040	015	Toxaphene	EPA 508
105.040	016	PCBs as Aroclors (screen)	EPA 508
105.083	001	2,4-D	EPA 515.4

As of 4/13/2005, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.



105.083	002	Dinoseb	EPA 515.4
105.083	003	Pentachlorophenol	EPA 515.4
105.083	004	Picloram	EPA 515.4
105.083	005	2,4,5-TP	EPA 515.4
105.083	006	Dalapon	EPA 515.4
105.083	007	Bentazon	EPA 515.4
105.083	008	Dicamba	EPA 515.4
105.083	009	Chlorinated Acids	EPA 515.4
105.090	001	Alachlor	EPA 525.2
105.090	003	Atrazine	EPA 525.2
105.090	004	Benzo(a)pyrene	EPA 525.2
105.090	006	Chlordane	EPA 525.2
105.090	008	Di(2-ethylhexyl) Adipate	EPA 525.2
105.090	009	Di(2-ethylhexyl) Phthalate	EPA 525.2
105.090	029	Polynuclear Aromatic Hydrocarbons	EPA 525.2
105.090	030	Adipates	EPA 525.2
105.090	031	Phthalates	EPA 525.2
105.090	032	Other Extractables	EPA 525.2
105.180	001	Bromoacetic Acid	EPA 552.1
105.180	003	Chloroacetic Acid	EPA 552.1
105.180	005	Dibromoacetic Acid	EPA 552.1
105.180	006	Dichloroacetic Acid	EPA 552.1
105.180	007	Trichloroacetic Acid	EPA 552.1
105.180	008	Haloacetic Acids (HAA5)	EPA 552.1

**Field of Testing:** 106 - Radiochemistry of Drinking Water

106.010	001	Gross Alpha	EPA 900.0
106.010	002	Gross Beta	EPA 900.0
106.050	001	Total Alpha Radium	EPA 903.0
106.051	001	Radium-226	EPA 903.1
106.080	001	Tritium	EPA 906.0
106.090	001	Uranium	EPA 908.0
106.092	001	Uranium	EPA 200.8
106.260	001	Gross Alpha	SM7110B
106.260	002	Gross Beta	SM7110B
106.270	001	Gross Alpha	SM7110C
106.350	001	Radium-226	SM7500-Ra C
106.380	001	Uranium	SM7500-U B
106.610	001	Radon-222	SM7500-Rn

**Field of Testing:** 107 - Microbiology of Wastewater

107.010	001	Heterotrophic Bacteria	SM9215B
107.020	001	Total Coliform	SM9221B
107.040	001	Fecal Coliform	SM9221C,E (MTF/EC)
107.060	001	Total Coliform	SM9222B
107.100	001	Fecal Streptococci	SM9230B
107.100	002	Enterococci	SM9230B

**Field of Testing:** 108 - Inorganic Chemistry of Wastewater

108.020	001	Conductivity	EPA 120.1
108.040	001	Hardness	EPA 130.2
108.050	001	pH	EPA 150.1
108.060	001	Residue, Filterable	EPA 160.1
108.070	001	Residue, Non-filterable	EPA 160.2
108.080	001	Residue, Total	EPA 160.3
108.090	001	Residue, Volatile	EPA 160.4

As of 4/13/2005, this list supersedes all previous lists for this certificate number.  
 Customers: Please verify the current accreditation standing with the State.

108.100 001	Residue, Settleable	EPA 160.5
108.110 001	Turbidity	EPA 180.1
108.112 001	Boron	EPA 200.7
108.112 002	Calcium	EPA 200.7
108.112 003	Hardness (calc.)	EPA 200.7
108.112 004	Magnesium	EPA 200.7
108.112 005	Potassium	EPA 200.7
108.112 006	Silica	EPA 200.7
108.112 007	Sodium	EPA 200.7
108.120 001	Bromide	EPA 300.0
108.120 002	Chloride	EPA 300.0
108.120 003	Fluoride	EPA 300.0
108.120 004	Nitrate	EPA 300.0
108.120 005	Nitrite	EPA 300.0
108.120 006	Nitrate-nitrite, Total	EPA 300.0
108.120 007	Phosphate, Ortho	EPA 300.0
108.120 008	Sulfate	EPA 300.0
108.130 001	Acidity	EPA 305.1
108.140 001	Alkalinity	EPA 310.1
108.170 001	Chlorine Residual, Total	EPA 330.1
108.180 001	Cyanide, amenable	EPA 335.1
108.181 001	Cyanide, Total	EPA 335.2
108.191 001	Fluoride	EPA 340.2
108.201 001	Ammonia	EPA 350.2
108.202 001	Ammonia	EPA 350.3
108.211 001	Kjeldahl Nitrogen	EPA 351.2
108.240 001	Nitrite	EPA 354.1
108.250 001	Dissolved Oxygen	EPA 360.1
108.262 001	Phosphate, Ortho	EPA 365.2
108.263 001	Phosphorus, Total	EPA 365.2
108.264 001	Phosphate, Ortho	EPA 365.3
108.265 001	Phosphorus, Total	EPA 365.3
108.270 001	Dissolved Silica	EPA 370.1
108.290 001	Sulfide	EPA 376.1
108.291 001	Sulfide	EPA 376.2
108.300 001	Sulfite	EPA 377.1
108.310 001	Biochemical Oxygen Demand	EPA 405.1
108.323 001	Chemical Oxygen Demand	EPA 410.4
108.330 001	Oil and Grease	EPA 413.1
108.360 001	Total Recoverable Petroleum Hydrocarbons	EPA 418.1
108.360 001	Phenols, Total	EPA 420.1
108.370 001	Surfactants	EPA 425.1
108.380 001	Oil and Grease	EPA 1664
108.390 001	Turbidity	SM2130B
108.400 001	Acidity	SM2310B
108.410 001	Alkalinity	SM2320B
108.420 001	Hardness (calc.)	SM2340B
108.421 001	Hardness	SM2340C
108.430 001	Conductivity	SM2510B
108.440 001	Residue, Total	SM2540B
108.441 001	Residue, Filterable	SM2540C
108.442 001	Residue, Non-filterable	SM2540D
108.443 001	Residue, Settleable	SM2540F
108.447 001	Boron	SM3120B

108.447	002	Calcium	SM3120B
108.447	003	Hardness (calc.)	SM3120B
108.447	004	Magnesium	SM3120B
108.447	005	Potassium	SM3120B
108.447	006	Silica	SM3120B
108.447	007	Sodium	SM3120B
108.462	001	Chlorine	SM4500-Cl D
108.470	001	Cyanide, Manual Distillation	SM4500-CN C
108.471	001	Cyanide, Total	SM4500-CN D
108.472	001	Cyanide, Total	SM4500-CN E
108.473	001	Cyanide, amenable	SM4500-CN G
108.480	001	Fluoride	SM4500-F C
108.490	001	pH	SM4500-H+ B
108.500	001	Ammonia	SM4500-NH3 C
108.501	001	Kjeldahl Nitrogen	SM4500-NH3 C
108.510	001	Nitrite	SM4500-NO2 B
108.531	001	Dissolved Oxygen	SM4500-O G
108.540	001	Phosphate, Ortho	SM4500-P E
108.541	001	Phosphorus, Total	SM4500-P E
108.550	001	Dissolved Silica	SM4500-Si D
108.560	001	Sulfite	SM4500-SO3 B
108.580	001	Sulfide	SM4500-S= D
108.590	001	Biochemical Oxygen Demand	SM5210B
108.591	001	Carbonaceous BOD	SM5210B
108.602	001	Chemical Oxygen Demand	SM5220D
108.611	001	Total Organic Carbon	SM5310C
108.630	001	Oil and Grease	SM5520B
108.640	001	Surfactants	SM5540C
108.660	001	Chemical Oxygen Demand	HACH8000
108.904	001	Calcium	SM3500-Ca D

**Field of Testing: 109 - Toxic Chemical Elements of Wastewater**

109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.020	001	Aluminum	EPA 200.8
109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8

As of 4/13/2005, this list supersedes all previous lists for this certificate number.  
 Customers: Please verify the current accreditation standing with the State.

109.020 004	Barium	EPA 200.8
109.020 005	Beryllium	EPA 200.8
109.020 006	Cadmium	EPA 200.8
109.020 007	Chromium	EPA 200.8
109.020 008	Cobalt	EPA 200.8
109.020 009	Copper	EPA 200.8
109.020 010	Lead	EPA 200.8
109.020 011	Manganese	EPA 200.8
109.020 012	Molybdenum	EPA 200.8
109.020 013	Nickel	EPA 200.8
109.020 014	Selenium	EPA 200.8
109.020 015	Silver	EPA 200.8
109.020 016	Thallium	EPA 200.8
109.020 017	Vanadium	EPA 200.8
109.020 018	Zinc	EPA 200.8
109.104 001	Chromium (VI)	EPA 218.6
109.190 001	Mercury	EPA 245.1
109.430 001	Aluminum	SM3120B
109.430 002	Antimony	SM3120B
109.430 003	Arsenic	SM3120B
109.430 004	Barium	SM3120B
109.430 005	Beryllium	SM3120B
109.430 007	Cadmium	SM3120B
109.430 009	Chromium	SM3120B
109.430 010	Cobalt	SM3120B
109.430 011	Copper	SM3120B
109.430 012	Iron	SM3120B
109.430 013	Lead	SM3120B
109.430 015	Manganese	SM3120B
109.430 016	Molybdenum	SM3120B
109.430 017	Nickel	SM3120B
109.430 019	Selenium	SM3120B
109.430 021	Silver	SM3120B
109.430 023	Thallium	SM3120B
109.430 024	Vanadium	SM3120B
109.430 025	Zinc	SM3120B
<b>Field of Testing: 110 - Volatile Organic Chemistry of Wastewater</b>		
110.010 000	Halogenated Volatiles	EPA 601
110.020 000	Aromatic Volatiles	EPA 602
110.030 000	Acrolein, Acrylonitrile	EPA 603
110.040 040	Halogenated Hydrocarbons	EPA 624
110.040 041	Aromatic Compounds	EPA 624
110.040 042	Oxygenates	EPA 624
110.040 043	Other Volatile Organics	EPA 624
<b>Field of Testing: 111 - Semi-volatile Organic Chemistry of Wastewater</b>		
111.101 032	Polynuclear Aromatic Hydrocarbons	EPA 625
111.101 033	Adipates	EPA 625
111.101 034	Phthalates	EPA 625
111.101 036	Other Extractables	EPA 625
111.170 030	Organochlorine Pesticides	EPA 608
111.170 031	PCBs	EPA 608
<b>Field of Testing: 112 - Radiochemistry of Wastewater</b>		
112.010 001	Gross Alpha	EPA 900.0

As of 4/13/2005, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.

112.010	002	Gross Beta	EPA 900.0
112.021	001	Radium-226	EPA 903.1
112.030	001	Gross Alpha	SM7110B
112.030	002	Gross Beta	SM7110B
112.050	001	Radium-226	SM7500-Ra C

**Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste**

114.010	001	Antimony	EPA 6010B
114.010	002	Arsenic	EPA 6010B
114.010	003	Barium	EPA 6010B
114.010	004	Beryllium	EPA 6010B
114.010	005	Cadmium	EPA 6010B
114.010	006	Chromium	EPA 6010B
114.010	007	Cobalt	EPA 6010B
114.010	008	Copper	EPA 6010B
114.010	009	Lead	EPA 6010B
114.010	010	Molybdenum	EPA 6010B
114.010	011	Nickel	EPA 6010B
114.010	012	Selenium	EPA 6010B
114.010	013	Silver	EPA 6010B
114.010	014	Thallium	EPA 6010B
114.010	015	Vanadium	EPA 6010B
114.010	016	Zinc	EPA 6010B
114.020	001	Antimony	EPA 6020
114.020	002	Arsenic	EPA 6020
114.020	003	Barium	EPA 6020
114.020	004	Beryllium	EPA 6020
114.020	005	Cadmium	EPA 6020
114.020	006	Chromium	EPA 6020
114.020	007	Cobalt	EPA 6020
114.020	008	Copper	EPA 6020
114.020	009	Lead	EPA 6020
114.020	010	Molybdenum	EPA 6020
114.020	011	Nickel	EPA 6020
114.020	012	Selenium	EPA 6020
114.020	013	Silver	EPA 6020
114.020	014	Thallium	EPA 6020
114.020	015	Vanadium	EPA 6020
114.020	016	Zinc	EPA 6020
114.025	001	Mercury	EPA 6020A
114.103	001	Chromium (VI)	EPA 7196A
114.106	001	Chromium (VI)	EPA 7199
114.140	001	Mercury	EPA 7470A
114.141	001	Mercury	EPA 7471A
114.221	001	Cyanide, Total	EPA 9012A
114.222	001	Cyanide	EPA 9014
114.230	001	Sulfides, Total	EPA 9034
114.240	001	pH	EPA 9040
114.241	001	pH	EPA 9045
114.250	001	Fluoride	EPA 9056
114.270	001	Fluoride	EPA 9214

**Field of Testing: 115 - Extraction Test of Hazardous Waste**

115.010	001	Extraction Procedure Toxicity (EPTox)	EPA 1310A
115.020	001	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311

115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
115.040	001	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312

**Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste**

116.020	030	Nonhalogenated Volatiles	EPA 8015B
116.020	031	Ethanol and Methanol	EPA 8015B
116.030	001	Gasoline-range Organics	EPA 8015B
116.040	041	Methyl tert-butyl Ether (MTBE)	EPA 8021B
116.040	062	BTEX	EPA 8021B
116.080	000	Volatile Organic Compounds	EPA 8260B
116.080	120	Oxygenates	EPA 8260B
116.110	001	Total Petroleum Hydrocarbons - Gasoline	LUFT

**Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste**

117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015B
117.016	001	Diesel-range Total Petroleum Hydrocarbons	LUFT
117.017	001	TRPH Screening	EPA 418.1
117.110	000	Extractable Organics	EPA 8270C
117.150	000	Carbonyl Compounds	EPA 8315A
117.210	000	Organochlorine Pesticides	EPA 8081A
117.220	000	PCBs	EPA 8082
117.240	000	Organophosphorus Pesticides	EPA 8141A
117.250	000	Chlorinated Herbicides	EPA 8151A

**Field of Testing: 118 - Radiochemistry of Hazardous Waste**

118.010	001	Gross Alpha	EPA 9310
118.010	002	Gross Beta	EPA 9310

**Field of Testing: 120 - Physical Properties of Hazardous Waste**

120.010	001	Ignitability	EPA 1010
120.030	001	Corrosivity	EPA 1110
120.040	001	Reactive Cyanide	Section 7.3 SW-846
120.050	001	Reactive Sulfide	Section 7.3 SW-846
120.070	001	Corrosivity - pH Determination	EPA 9040B
120.080	001	Corrosivity - pH Determination	EPA 9045C

**Field of Testing: 126 - Microbiology of Recreational Water**

126.010	001	Total Coliform (Enumeration)	SM9221A,B,C
126.020	001	Total Coliform (Enumeration)	SM9222A,B
126.030	001	Fecal Coliform (Enumeration)	SM9221E
126.050	001	Total Coliform and E. coli	SM9223
126.080	001	Enterococci	IDEXX



State of California—Health and Human Services Agency  
Department of Health Services



SANDRA SHEWRY  
Director

ARNOLD SCHWARZENEGGER  
Governor

March 30, 2005

KARL SCHILLER  
TRUESDAIL LABORATORIES, INC.  
14201 FRANKLIN AVENUE  
TUSTIN, CA 92780

Certificate No.: 2445

Dear KARL SCHILLER:

This is to advise you that the laboratory named above has been certified as an environmental testing laboratory pursuant to the provisions of the California Environmental Laboratory Improvement Act (Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, et seq.).

The Fields of Testing for which this laboratory has been certified under this Act are indicated on the enclosed "Accredited Fields of Testing." Certification shall remain in effect until **November 30, 2006** unless revoked. This certificate is subject to an annual fee as prescribed by Section 100860(a), HSC, due on November 30, 2005.

Your application for renewal must be received 90 days before the expiration of your certificate to remain in force according to the California Code of Regulations, Title 22, Division 4, Chapter 19, Section 64801 through 64827.

Any changes in laboratory location or structural alterations, which may affect adversely the quality of analysis in the fields of testing for which the laboratory has been granted certification, require prior notification. Notification is also required for changes in ownership or laboratory director within 30 days after the change (HSC, Section 100845(b) and (d)).

Your continued cooperation is essential to maintain high quality of the data produced by environmental laboratories certified by the State of California.

If you have any questions, please contact Bill Walker at (213) 580-5731.

Sincerely,

George C. Kulasingam, Ph.D.  
Program Chief  
Environmental Laboratory Accreditation Program

Enclosure

CALIFORNIA DEPARTMENT OF HEALTH SERVICES  
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM  
Accredited Fields of Testing

TRUESDAIL LABORATORIES, INC.  
HESPERIA  
9892 I AVENUE UNIT # 4  
HESPERIA, CA 92345

Lab Phone (760) 956-7648

Certificate No: 2445      Renew Date: 11/30/2006

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Field of Testing: 101 - Microbiology of Drinking Water

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101.010 001	Heterotrophic Bacteria	SM9215B
101.060 002	Total Coliform	SM9223
101.060 003	E. coli	SM9223
101.070 002	Total Coliform	Colisure
101.070 003	E. coli	Colisure
101.160 001	Total Coliform (Enumeration)	SM9223

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
CINCINNATI, OHIO 45268

DTA/PT/ET

Office of Ground Water and Drinking Water  
Technical Support Center  
December 20, 1996

Truesdail Laboratories Inc.  
Chemistry Analyses  
14201 Franklin Ave  
Tustin, CA 92780-7008

Dear Laboratory Manager:

The applications submitted to EPA seeking ICR chemistry laboratory approval have been reviewed. The criteria used for the evaluation of your applications are given in the DBP/ICR Analytical Methods Manual (EPA 814-B96-002). Listed below are the analyte/methods for which you are presently approved to perform as part of the ICR.

ID#: ICRCA018

<u>Parameter:</u>	<u>Method:</u>	<u>Approval Date:</u>
Alkalinity	SM 2320 B	12/20/96
Ammonia	SM 4500-NH3	12/20/96
Calcium Hardness	EPA 200.7	12/20/96
Calcium Hardness	SM 3111 B	12/20/96
Calcium Hardness	SM 3120 B	12/20/96
Calcium Hardness	SM 3500 Ca D	12/20/96
Chlorine Dioxide	SM 4500-ClO2	12/20/96
Free Chlorine	SM 4500-Cl F	12/20/96
Ozone	SM 4500-O3 B	12/20/96
pH	SM 4500 H+B	12/20/96
pH	EPA 150.1	12/20/96
Temperature	SM 2550 B	12/20/96
Total Chlorine	SM 4500-Cl F	12/20/96
Total Hardness	SM 2340 B	12/20/96
Total Hardness	SM 2340 C	12/20/96
Total Organic Carbon	SM 5310 C	8/14/96
Total Organic Halides	SM 5320 B	12/20/96
Trihalomethanes (State)	EPA 502.2	12/20/96
Trihalomethanes (State)	EPA 524.2	12/20/96
Turbidity	EPA 180.1	12/20/96
Turbidity	SM 2130 B	12/20/96
UV Absorbance	SM 5910	12/20/96

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**From:** Hautman.Dan@epamail.epa.gov

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**To:** Hautman.Dan@epamail.epa.gov

**Subject:**

**Date:** Wed, 23 Jul 2003 16:51:06 -0400

UCMR Perchlorate approved laboratory,  
 The original laboratory approval letter sent from EPA, which granted your laboratory approval to analyze perchlorate under the UCMR, indicated that this approval would expire on January 28, 2004. Since some PWS may need a portion of 2004 to complete their UCMR monitoring requirement, EPA is extending your perchlorate approval to monitor under UCMR for an additional year, until January 28, 2005.

This is the only notice we will issue about this matter, make a note in your files. If you have any questions, do not hesitate to contact me.

Daniel P. Hautman, UCMR Implementation Team Co-Leader  
 USEPA, Office of Ground Water and Drinking Water,  
 Technical Support Center  
 26 W. Martin Luther King Dr.  
 Cincinnati, Ohio 45268  
 513-569-7274  
 fax 513-569-7191

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
CINCINNATI, OHIO 45268

Office of Ground Water and Drinking Water  
Technical Support Center

May 23, 2000

Dr. Norman Hester  
Truesdail Laboratories, Inc.  
14201 Franklin Ave.  
Tustin, CA 92780

This letter is to advise you that the laboratory named above has **PASSED** the Spring 2000 Perchlorate PT Study and has been granted **APPROVAL** to monitor for perchlorate as an assessment monitoring parameter under the Unregulated Contaminant Monitoring Rule (UCMR) [*Federal Register, Volume 64, Number 180, September 17, 1999, pages 50556-50620*]. Laboratory approval is contingent upon maintaining certification to perform drinking water compliance monitoring of any inorganic parameter using an approved ion chromatographic method. If a laboratory maintains this certification, the approval to support the assessment monitoring of perchlorate under the UCMR remains active. This letter may be presented to any Public Water System (PWS) as evidence of laboratory approval for perchlorate analysis supporting the UCMR.

The data reported by your laboratory are presented below in Table 1 along with acceptable performance ranges. Only those laboratories which submitted acceptable results for both matrix conductance and perchlorate concentration passed the Spring 2000 Perchlorate PT study. See Table 2 for a summary of the performance of all laboratories.

Since you have passed the Spring 2000 Perchlorate PT study you do not have to participate in the Fall 2000 Perchlorate PT study and a PT sample will not automatically be sent to the laboratory.

**Table 1. Spring 2000 Perchlorate PT Study Performance**

**Truesdail Laboratories, Inc.**

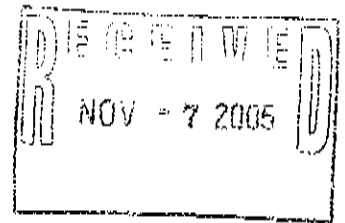
Parameter	Laboratory Reported Result	Spring 2000 Study True Value (TV)	Acceptance Limits (75% - 125% of TV)
Conductivity	<b>468</b> uS/cm	471 uS/cm	353 uS/cm - 589 uS/cm
Perchlorate	<b>18.3</b> ug/L	20.3 ug/L	15.2 ug/L - 25.4 ug/L

MAY 23 2000



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov



November 3, 2005

Dr. Norman E. Hester  
Technical Director  
Truesdail Laboratories  
14201 Franklin Avenue  
Tustin, CA 92780

Dear Dr. Hester:

Subject: Laboratory Approval Program (LAP) – Approval Extension  
Reference #93LA0721

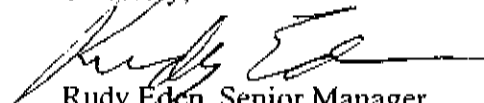
We have not completed our evaluation of your renewal application at this time. So that your approval will not lapse while we are completing our review, I am extending your LAP expiration date from October 31, 2005 to April 30, 2006 for the following methods:

SCAQMD Rule 1420 Source Analysis  
SCAQMD Method 302  
SCAQMD Method 303  
SCAQMD Method 304  
SCAQMD Method 10.1 Analysis  
SCAQMD Method 25.1 Analysis  
ASTM D 1945-81  
ASTM D 3588-91

Thank you for participating in the LAP. Your cooperation helps us to achieve the goal of the LAP - to maintain high standards of quality in the sampling and analysis of source emissions.

You may direct any questions or information to LAP Coordinator Ramiro Gonzalez. He may be reached by telephone at (909) 396-2228, or facsimile at (909) 396-2099.

Sincerely,



Rudy Eden, Senior Manager  
Source Test Engineering

RG:svc  
cc: Ramiro Gonzalez

August 2, 1991

Ms. Kathy Ford  
Naval Energy and Environmental Support Activity  
Code 112E  
Port Hueneme, California 93043-5014

Dear Ms. Ford:

Initial Site Approval of Truesdail Laboratory, Inc., Tustin, California  
For: MCAS Tustin Site Inspection, Western Division

This is in response to your request (Ser 112E/227, dated January 14, 1991) for initial approval of Truesdail Laboratories, Inc., Tustin, California, in accordance with the Naval Energy and Environmental Support Activity (NEESA) document Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program, NEESA 20.2-047B. Our records at the Analytical Environmental Support Group (AESG), of Martin Marietta Energy Systems, Inc. indicate that:

1. The laboratory quality assurance plan (LQAP) was reviewed by AESG on March 19, 1991.
2. Performance Evaluation (PE) samples were submitted to the laboratory on February 19, 1991.
3. An audit of the laboratory facility was conducted on April 30, 1991.
4. The laboratory submitted a final response to the LQAP review on May 21, 1991.
5. The laboratory successfully completed the analysis of PE samples for volatiles, semivolatiles, pesticides, polychlorinated biphenyls, and metals. The laboratory submitted the final response to the remedial PE samples on May 17, 1991.
6. The laboratory satisfactorily responded to audit findings on June 28, 1991.

AESG disposition regarding Truesdail Laboratories, Inc., Tustin, California, is that the laboratory has completed the review process as outlined in the NEESA requirements document, and may be used to provide analytical support to the Navy Installation Restoration Program (IRP). The laboratory MUST adhere to U.S. Environmental Protection Agency (EPA) analytical method requirements, and any deviation from the EPA analytical methods MUST be approved by the Navy Remedial Project Manager. The laboratory should submit monthly progress reports for analytical support to the Navy IRP.



# COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

1955 Workman Mill Road / Whittier, California  
Mailing Address: / P. O. Box 4998, Whittier, California 90607-4998  
Telephone: (213) 699-7411 / From Los Angeles (213) 685-5217

CHARLES W. CARR  
Chief Engineer and General Manager

January 31, 1991

The County Sanitation Districts of Los Angeles County regularly review the qualifications of all laboratories submitting required wastewater analysis to the Districts. As part of this process, such laboratories are required to be certified by either the California Department of Health Services (DOHS) or the Districts for each constituent reported.

Your laboratory has been approved to perform tests and submit data related to implementation of the provisions of the Sanitation Districts' Industrial Waste Surcharge and Permit programs. This approval only applies to the constituents listed on the enclosed table. Please review this table carefully. If your laboratory has received any additional certifications from the DOHS not listed in this table, please notify the Districts in writing within 60 days of the date of this letter. Your response must include documentation from the appropriate agency certifying your claim.

Additional constituent certification may be obtained through the Districts' laboratory certification program or from the DOHS Environmental Laboratory certification program. To obtain information regarding the DOHS Environmental Laboratory Certification program, contact:

Department of Health Services  
Division of Laboratories  
Environmental Laboratory Accreditation Program  
2151 Berkeley Way - Room 452  
Berkeley, CA 94704  
Telephone: (415) 540-2408

The Districts will only accept analyses your laboratory is certified to perform. Submission of non-certified analysis will not be accepted and subsequently returned to the discharger. Your laboratory's identification number appears on the label affixed to the outside of the envelope. This identification number must be included on all documents submitted to the Districts.

If you have any questions regarding laboratory approval, please contact David Whipple of the Sanitation Districts' Industrial Waste Section at extension 2909.

Very truly yours,

Norman Hester  
Truesdale Laboratories Inc  
14201 Franklin Avenue  
Tustin, CA 92680

Charles W. Carry

Clifford P. Lum  
Supervising Civil Engineer

CPL:DBW:jav

7 METHYL ETHYL KETONE (MEK)  
7 METHYL ISOBUTYL KETONE (MIBK)  
7 PARALDEHYDE (TRIMMER OF ACETALDEHYDE)  
7 623 ETHANOL

6  
6 AROMATIC VOLATILE ORGANICS

7 620 BENZENE  
7 611 CHLOROBENZENE  
7 819 1,2-DICHLOROBENZENE  
7 820 1,3-DICHLOROBENZENE  
7 821 1,4-DICHLOROBENZENE  
7 624 ETHYLBENZENE  
7 621 TOLUENE  
7 629 XYLENE-O  
7 667 XYLENE-O&P  
7 630 XYLENE-P  
7 666 XYLENE-M

EPA METHOD 8020  
DOHSHM 05-19-86

6  
6  
7 654 ACROLEIN  
7 655 ACRYLONITRILE  
7 665 ACETONITRILE

EPA METHOD 8030  
DOHSHM 05-19-86

6  
6 PHENOLS

7 845 2-CHLOROPHENOL  
7 847 2,4-DICHLOROPHENOL  
7 848 2,4 DIMETHYLPHENOL  
7 849 2,4 DINITROPHENOL  
7 850 2-METHYL-4,6 DINITROPHENOL  
7 851 2-NITROPHENOL  
7 852 4-NITROPHENOL  
7 853 4-CHLORO-3-METHYLPHENOL  
7 854 PENTACHLOROPHENOL  
7 855 PHENOL  
7 856 2,4,6-TRICHLOROPHENOL

EPA METHOD 8040  
DOHSHM 05-19-86

6  
6 PHTHALATE ESTERS

7 812 2-ETHYLHEXYLPHTHALATE  
7 814 BUTYLBENZYLPHTHALATE  
7 823 DIETHYL PHTHALATE  
7 824 DIMETHYL PHTHALATE  
7 825 DI-N-BUTYL PHTHALATE  
7 828 DI-N-OCTYL PHTHALATE

EPA METHOD 8060  
DOHSEM 05-19-86

6  
6 ORGANOCHLORINE PEST/ PCBS

EPA METHOD 8080  
DOHSHM 05-19-86

7 616 1,1-DICHLOROETHANE  
7 619 1,2-DICHLOROETHANE  
7 605 1,1-DICHLOROETHENE  
7 645 TRANS-1,2-DICHLOROETHENE  
7 650 1,2-DICHLOROPROPANE  
7 651 CIS-1,3-DICHLOROPROPENE  
7 652 TRANS 1,3-DICHLOROPROPENE  
7 1,4-DIFLUOROBENZENE :  
7 623 ETHANOL  
7 624 ETHYLBENZENE  
7 ETHYL METHACRYLATE  
7 2-HEXANONE  
7 IODOMETHANE  
7 601 METHYLENE CHLORIDE  
7 681 4-METHYL-2-PENTANONE  
7 682 STYRENE  
7 653 1,1,2,2-TETRACHLOROETHANE  
7 621 TOLUENE  
7 603 1,1,1-TRICHLOROETHANE  
7 618 1,1,2-TRICHLOROETHANE  
7 606 TRICHLOROETHENE  
7 669 TRICHLOROFUOROMETHANE  
7 1,2,3-TRICHLOROPROPANE  
7 625 VINYL ACETATE  
7 612 VINYL CHLORIDE -  
7 629 XYLENE-O  
7 666 XYLENE-M  
7 630 XYLENE-P  
7 607 TETRACHLOROETHENE  
7 817 CHRYSENE  
7 818 DIBENZO(A,H)ANTHRACENE  
7 830 FLUORANTHENE  
7 831 FLUORENE  
7 836 INDENO(1,2,3-CD)PYRENE  
7 838 NAPHTHALENE  
7 842 PHENANTHRENE  
7 843 PYRENE

6  
6  
6  
6  
6

METALS

7 725 ANTIMONY  
7 705 ARSENIC  
7 706 BARIUM  
7 726 BERYLLIUM  
7 708 CADMIUM  
7 710 CHROMIUM(VI)  
7 709 CHROMIUM(TOTAL)  
7 711 COBALT  
7 712 COPPER  
7 714 LEAD  
7 717 MERCURY  
7 732 MOLYBDENUM





# CERTIFICATE OF ACCREDITATION

## PRODUCT CERTIFICATION PROGRAM

The American National Standards Institute hereby affirms that

### TRUESDAIL LABORATORIES, INC.

Tustin, CA  
Certification ID #0303

meets the ANSI accreditation program requirements  
and those set forth in

#### ISO/IEC GUIDE 65:1996 GENERAL REQUIREMENTS FOR BODIED OPERATING PRODUCT CERTIFICATION SYSTEMS

for programs within the following

#### SCOPE OF ACCREDITATION

Automotive Lift Devices

Plumbing Products

June 1, 2006

Valid Through

*Lance Hallenbeck*

ANSI Vice President, Conformity Assessment

June 1, 2004

Date



ANSI Accredited Program  
PRODUCT CERTIFICATION