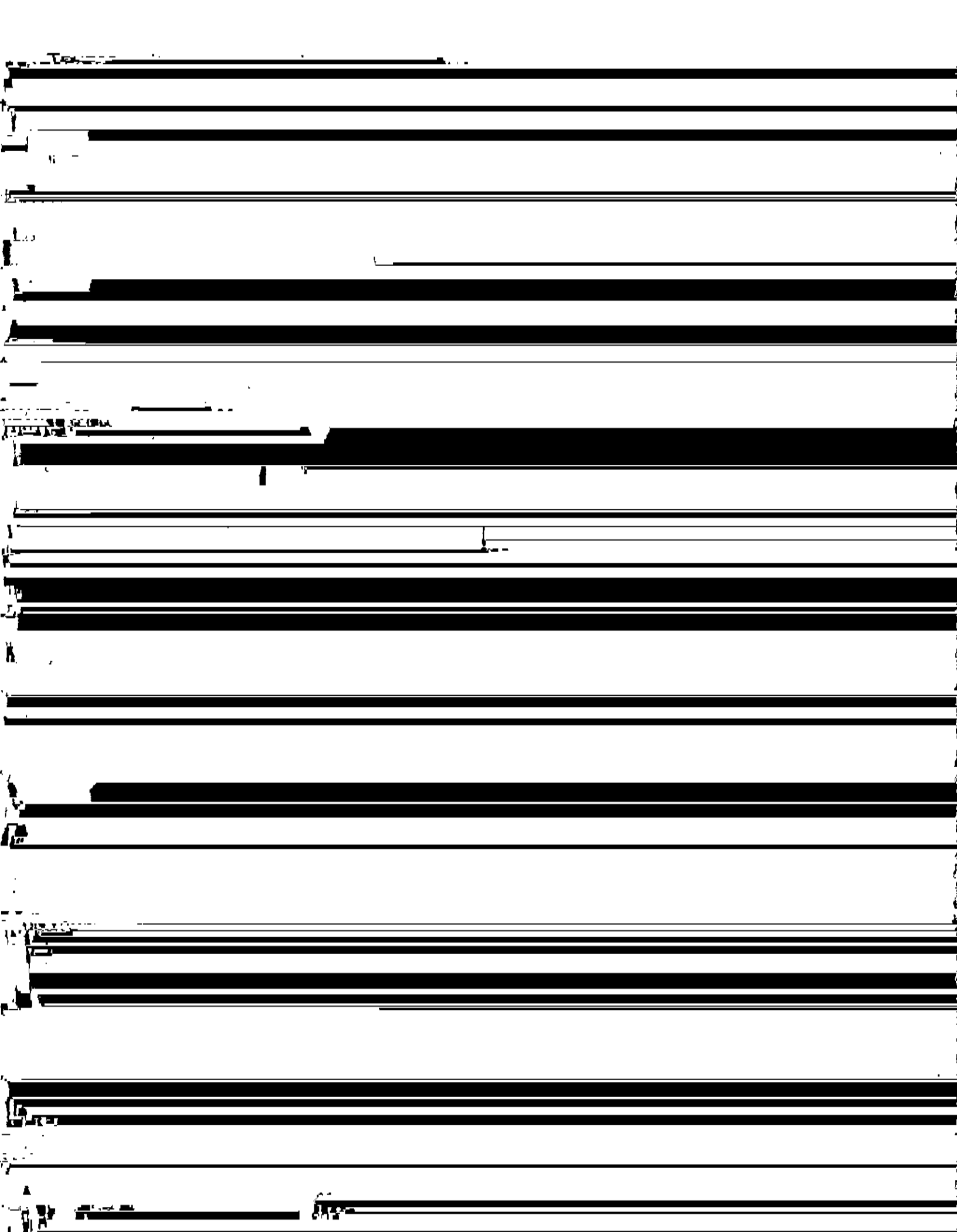
LABORATORY RECORD "GREEN SHEET"

LABORATORY WORKBOOK RECORD

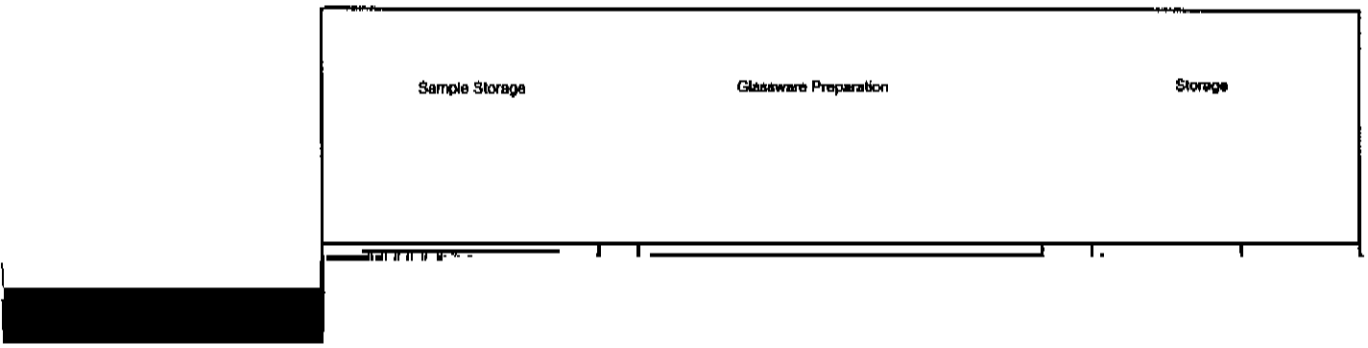
SURVEY CHECK LIST – CALIBRATION SERVICES

SAMPLING GUIDE

Parameter	Method*	Suggested Container	Volume**	Holding Preservative	Time



Floor Plan, Second Floor



[redacted]

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
- [redacted]

[redacted]

Microbiology Laboratory Equipment

Truesdail's Microbiology Department examines water, waste, and other environmental samples

[redacted]

Instrumental Laboratory Equipment (Cont.)

	Purchase Date
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)

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?

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?

[redacted]

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 [illegible]

[redacted]

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.

a. Volatile Organics by Gas Chromatography/Mass Spectroscopy

[redacted]

STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES

State of California—Health and Human Services Agency
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

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

TRUESDAIL LABORATORIES, INC.

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

102.230 001 Nitrate SM4500-NO3 D

TRUESDAIL LABORATORIES, INC.

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

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

TRUESDAIL LABORATORIES, INC.

Certificate No: 1237

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

TRUESDAIL LABORATORIES, INC.

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

TRUESDAIL LABORATORIES, INC.

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

108.447	002	Calcium	SM3120B
108.447	003	Hardness (calc.)	SM3120B
108.447	004	[illegible]	

TRUESDAIL LABORATORIES, INC.

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

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

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

TRUESDAIL LABORATORIES, INC.

Certificate No: 1237
Renew Date: /31/2006

State of California—Health and Human Services Agency

Department of Health Services

SANDRA SHEWRY
Director

ARNOLD SCHWARZENEGGER
Governor

March 30, 2005

Certificate No.: 2445

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

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

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**

Field of Testing: 101 - Microbiology of Drinking Water

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

As of 03/30/2005 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CINCINNATI, OHIO 45268

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

Parameter:	Method:	Approval Date:
Alkalinity	SM 2320 B	12/20/96
Ammonia,	SM 4500 NH3	12/20/96

Previous | Next | Back to Folder

Delete | Move to folder

[redacted]

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 [redacted]

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

MARTIN MARIETTA ENERGY SYSTEMS, INC.

POST OFFICE BOX 2003
OAK RIDGE, TENNESSEE 37831-7291

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, Calif[illegible]

RECLAMATION
SOLID WASTE MANAGEMENT

COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY

1955 Workman Mill Road / Whittier, California
Mail: Address / P. O. Box 4998 Whittier, California 90607-4998

CHARLES W. [redacted]

[redacted]

7		METHYL ETHYL KETONE (MEK)	
7		METHYL ISOBUTYL KETONE (MIBK)	
7		PARALDEHYDE (TRIMMER OF ACETALDEHYDE)	
7	623	ETHANOL	
6			
6			
6		AROMATIC VOLATILE ORGANICS	
6			EPA METHOD 8020
7	620	BENZENE	DOHSHM 05-19-86
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	
6			
6			
6			EPA METHOD 8030
7	654	ACROLEIN	DOHSHM 05-19-86
7	655	ACRYLONITRILE	
7	665	ACETONITRILE	
6			
6			
6		PHENOLS	
6			EPA METHOD 8040
7	845	2-CHLOROPHENOL	DOHSHM 05-19-86
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	
6			
6			
6		PHTHALATE ESTERS	
6			EPA METHOD 8060
7	812	2-ETHYLHEXYLPHTHALATE	DOHSHM 05-19-86
7	814	BUTYLBENZYLPHTHALATE	
7	823	DIETHYL PHTHALATE	
7	824	DIMETHYL PHTHALATE	
7	825	DI-N-BUTYL PHTHALATE	
7	[illegible]	[illegible]	

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-TRICHLOROETNANE
7	606	TRICHLOROETHENE
7	669	TRICHLOROFLUOROMETHANE
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	NAPTHALENE
7	842	PHENANTHRENE
7	843	PYRENE
6		
6		
6		
6	METALS	
6		

CARBAMATES

EPA METHOD 632
DOHSHM 05-19-86

- AMINOCARB
- BARBAN
- CARBARYL
- CARBOFURAN
- CHLORPROPHAM
- DIURON
- FENURON
- FENURON-TCA
- FLUOMETURON
- LINURON
- METHIOCARB
- METHOMYL
- MEXACARBATE
- MONURON
- MONURON-TCA
- NEBURON
- OXAMYL
- PROPHAM
- PROPOXUR
- SIDURON
- SWEP

GC/MS METHOD FOR VOLATILE ORGANICS

EPA METHOD 8240

[redacted]

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