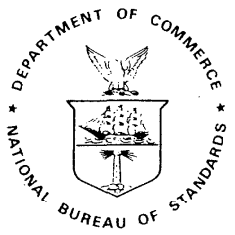


NBS SPECIAL PUBLICATION 260-88

U.S. DEPARTMENT OF COMMERCE/National Bureau of Standards

Standard Reference Materials:

1982 Compilation of Elemental Concentration Data for NBS Biological, Geological, and Environmental Standard Reference Materials

Standard Reference Materials:

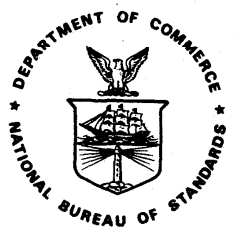
1982 Compilation of Elemental Concentration Data for NBS Biological, Geological, and Environmental Standard Reference Materials

E.S. Gladney[1], C.E. Burns[1], D.R. Perrin[1], I.Roelandts[2], and T.E. Gills[3]

1. Los Alamos National Laboratory
   Los Alamos, NM 87545

2. Universite de Liege
   Liege, Belgium

3. National Bureau of Standards
   Washington, DC 20234



U.S. DEPARTMENT OF COMMERCE, Malcolm Baldrige, Secretary
NATIONAL BUREAU OF STANDARDS, Ernest Ambler, Director
Issued March 1984

NATIONAL BUREAU OF STANDARDS

The National Bureau of Standards[1] was established by an act of Congress on March 3, 1901. The Bureau's overall goal is to strengthen and advance the Nation's science and technology and facilitate their effective application for public benefit. To this end, the Bureau conducts research and provides: (1) a basis for the Nation's physical measurement system, (2) scientific and technological services for industry and government, (3) a technical basis for equity in trade, and (4) technical services to promote public safety. The Bureau's technical work is performed by the National Measurement Laboratory, the National Engineering Laboratory, and the Institute for Computer Sciences and Technology.

THE NATIONAL MEASUREMENT LABORATORY provides the national system of physical and chemical and materials measurement; coordinates the system with measurement systems of other nations and furnishes essential services leading to accurate and uniform physical and chemical measurement throughout the Nation's scientific community, industry, and commerce; conducts materials research leading to improved methods of measurement, standards, and data on the properties of materials needed by industry, commerce, educational institutions, and Government; provides advisory and research services to other Government agencies; develops, produces, and distributes Standard Reference Materials; and provides calibration services. The Laboratory consists of the following centers:

Absolute Physical Quantities[2] — Radiation Research — Chemical Physics — Analytical Chemistry — Materials Science

THE NATIONAL ENGINEERING LABORATORY provides technology and technical services to the public and private sectors to address national needs and to solve national problems; conducts research in engineering and applied science in support of these efforts; builds and maintains competence in the necessary disciplines required to carry out this research and technical service; develops engineering data and measurement capabilities; provides engineering measurement traceability services; develops test methods and proposes engineering standards and code changes; develops and proposes new engineering practices; and develops and improves mechanisms to transfer results of its research to the ultimate user. The Laboratory consists of the following centers:

Applied Mathematics — Electronics and Electrical Engineering[2] — Manufacturing Engineering — Building Technology — Fire Research — Chemical Engineering[2]

THE INSTITUTE FOR COMPUTER SCIENCES AND TECHNOLOGY conducts research and provides scientific and technical services to aid Federal agencies in the selection, acquisition, application, and use of computer technology to improve effectiveness and economy in Government operations in accordance with Public Law 89-306 (40 U.S.C. 759), relevant Executive Orders, and other directives; carries out this mission by managing the Federal Information Processing Standards Program, developing Federal ADP standards guidelines, and managing Federal participation in ADP voluntary standardization activities; provides scientific and technological advisory services and assistance to Federal agencies; and provides the technical foundation for computer-related policies of the Federal Government. The Institute consists of the following centers:

Programming Science and Technology — Computer Systems Engineering.

[1]Headquarters and Laboratories at Gaithersburg, MD, unless otherwise noted; mailing address Washington, DC 20234.
[2]Some divisions within the center are located at Boulder, CO 80303.

PREFACE

Standard Reference Materials (SRM's) as defined by the National Bureau of Standards are "well-characterized materials, produced in quantity, that calibrate a measurement system to assure compatibility of measurement in the Nation." SRM's are widely used as primary standards in many diverse fields of science, industry and technology, both within the United States and throughout the world. For many of the Nation's scientists and technologists it is of more than passing interest to know the measurements obtained and methods used by the analytical community when analyzing SRM's. An NBS series of papers, of which this publication is a member, called the NBS Special Publication - 260 Series is reserved for this purpose.

This 260 Series is dedicated to the dissemination of elemental concentration data for NBS biological, geological and environmental SRM's. More information will be found in this 260 than is generally found in NBS Certificate of Analysis. This 260 enables the user of these SRM's to assess the validity of data not available in the certificate of analysis. We hope that this 260 will provide sufficient additional information so that new application of these SRM's may be sought and found.

Inquiries concerning the technical content of this compilation should be directed to the authors. Other questions concerned with the availability, delivery, price of specific SRM's should be addressed to:

Office of Standard Reference Materials
National Bureau of Standards
Washington, DC 20234

Stanley D. Rasberry, Chief
Office of Standard Reference Materials

Library of Congress Catalog Card Number: 84-601009

National Bureau of Standards Special Publication 260-88
Natl. Bur. Stand. (U.S.), Spec. Publ. 260-88, 231 pages (Mar. 1984)
CODEN: XNBSAV

U.S. Government Printing Office
Washington: 1984

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402

OTHER NBS PUBLICATIONS IN THIS SERIES

Catalog of NBS Standard Reference Materials (1981-83 edition), R. W. Seward, ed., NBS Spec. Publ. 260 (November 1981).

Michaelis, R. E., and Wyman, L. L. Standard Reference Materials: Preparation of White Cast Iron Spectrochemical Standards. NBS Misc. Publ. 260-1 (June 1964). COM74-11061**

Michaelis, R. E., Wyman, L. L., and Flitsch, R., Standard Reference Materials: Preparation of NBS Copper-Base Spectrochemical Standards. NBS Misc. Publ. 260-2 (October 1964). COM74-11063**

Michaelis, R. E., Yakowitz, H., and Moore, G. A., Standard Reference Materials: Metallographic Characterization of an NBS Spectrometric Low-Alloy Steel Standard. NBS Misc. Publ. 260-3 (October 1964). COM74-11060**

Hague, J. L. Mears, T. W., and Michaelis, R. E., Standard Reference Materials: Sources of Information, NBS Misc. Publ. 260-4 (February 1965). COM74-11059

Alvarez, R., and Flitsch R., Standard Reference Materials: Accuracy of Solution X-Ray Spectrometric Analysis of Copper-Base Alloys. NBS Misc. Publ. 260-5 (March 1965). PB168068**

Shultz, J. I., Standard Reference Materials: Methods for the Chemical Analysis of White Cast Iron Standards, NBS Misc. Publ. 260-6 (July 1975). COM74-11068**

Bell, R. K., Standard Reference Materials: Methods for the Chemical Analysis of NBS Copper-Base Spectrochemical Standards. NBS Misc. Publ. 260-7 (October 1965). COM74-11067**

Richmond, M.S., Standard Reference Materials: Analysis of Uranium Concentrates at the National Bureau of Standards. NBS Misc. Publ. 260-8 (December 1965). COM74-11066**

Anspach, S. C., Cavallo, L. M. Garfinkel, S. B. Hutchinson, J. M. R., and Smith, C. N., Standard Reference Materials: Half Lives of Materials Used in the Preparation of Standard Reference Materials of Nineteen Radioactive Nuclides Issued by the National Bureau of Standards NBS Misc. Publ. 260-9 (November 1965). COM74-11065**

Yakowitz, H., Vieth, D. L., Heinrich, K. F. J., and Michaelis, R. E., Standard Reference Materials: Homogeneity Characterization on NBS Spectrometric Standards II: Cartridge Brass and Low-Alloy Steel, NBS Misc. Publ. 260-10 (December 1965). COM74-11064**

Napolitano, A., and Hawkins, E. G., Standard Reference Materials: Viscosity of Standard Lead-Silica Glass, NBS Misc. Publ. 260-11 (November 1966). NBS Misc. Publ. 260-11**

Yakowitz, H., Vieth, D. L., and Michaelis, R. E., Standard Reference Materials: Homogeneity Characterization of NBS Spectrometric Standards III: White Cast Iron and Stainless Steel Powder Compact, NBS Misc. Publ. 260-12 (September 1966). NBS Misc. Publ. 260-12**

Spijkerman, J. L., Snediker, D. K., Ruegg, F. C., and DeVoe, J. R., Standard Reference Materials: Mossbauer Spectroscopy Standard for the Chemical Shift of Iron Compounds, NBS Misc. Publ. 260-13 (July 1967). NBS Misc. Publ. 260-13**

Menis, O., and Sterling, J. T., Standard Reference Materials: Determination of Oxygen in Ferrous Materials - SRM 1090, 1091, and 1092, NBS Misc. Publ. 260-14 (September 1966). NBS Misc. Publ. 260-14**

Passaglia, E., and Shouse, P. J. Standard Reference Materials: Recommended Method of Use of Standard Light-Sensitive Paper for Calibrating Carbon Arcs Used in Testing Textiles for Colorfastness to Light, NBS Misc. Publ. 260-15 (June 1967). (Replaced by NBS Spec. Publ. 260-41.)

Yakowitz, H., Michaelis, R. E., and Vieth, D. L., Standard Reference Materials: Homogeneity Characterization of NBS Spectrometric Standards IV: Preparation and Microprobe Characterization of W-20% Mo Alloy Fabricated by Powder Metallurgical Methods, NBS Spec. Publ. 260-16 (January 1969). COM74-11062**

Catanzaro, E. J., Champion, C. E., Garner, E. L., Marinenko, G., Sappenfield, K. M., and Shields, W. R. Standard Reference Materials: Boric Acid; Isotopic and Assay Standard Reference Materials, NBS Spec. Publ. 260-17 (February 1970). Out of Print

Geller, S. B., Mantek, P.A., and Cleveland, N. G., Standard Reference Materials: Calibration of NBS Secondary Standard Magnetic Tape (Computer Amplitude Reference) Using the Reference Tape Amplitude Measurement "Process A, "NBS Spec. Publ. 260-18 (November 1969). (See NBS Spec. Publ. 260-29.)

Paule, R. C., and Mandel, J., Standard Reference Materials: Analysis of Interlaboratory Measurements on the Vapor Pressure of Gold (Certification of Standard Reference Material 745). NBS Spec. Publ. 260-19 (January 1970). PB190071**

Paule, R. C., and Mandel, J., Standard Reference Materials: Analysis of Interlaboratory Measurements on the Vapor Pressures of Cadmium and Silver, NBS Spec. Publ. 260-21 (January 1971). COM74-11359**

Yakowitz, H., Fiori, C. E., and Michaelis, R. E., Standard Reference Materials: Homogeneity Characterization of Fe-3 Si Alloy, NBS Spec. Publ. 260-22 (February 1971). COM74-11357**

Napolitano, A., and Hawkins, E. G., Standard Reference Materials: Viscosity of a Standard Borosilicate Glass, NBS Spec. Publ. 260-23 (December 1970). COM71-00157**

Sappenfield, K. M., Marineko, G., and Hague, J. L., Standard Reference Materials: Comparison of Redox Standards, NBS Spec. Publ. 260-24 (January 1972). COM72-50058**

Hicho, G. E., Yakowitz, H., Rasberry, S. D., and Michaelis, R. E., Standard Reference Materials: A Standard Reference Material Containing Nominally Four Percent Austenite, NBS Spec. Publ. 260-25 (February 1971). COM74-11356**

Martin, J. F., Standard Reference Materials: National Bureau of Standards-US Steel Corportion Joint Program for Determining Oxygen and Nitrogen in Steel, NBS Spec. Publ. 260-26 (February 1971). 85 cents* PB 81176620

Garner, E. L., Machlan, L. A., and Shields, W. R., Standard Reference Materials: Uranium Isotopic Standard Reference Materials, NBS Spec. Publ. 260-27 (April 1971). COM74-11358**

Heinrich, K. F. J., Myklebust, R. L., Rasberry, S. D., and Michaelis, R. E., Standard Reference Materials: Preparation and Evaluation of SRM's 481 and 482 Gold-Silver and Gold-Copper Alloys for Microanalysis, NBS Spec. Publ. 260-28 (August 1971). COM71-50365**

Geller, S. B., Standard Reference Materials: Calibration of NBS Secondary Standard Magnetic Tape (Computer Amplitude Reference) Using the Reference Tape Amplitude Measurement "Process A-Model 2," NBS Spec. Publ. 260-29 (June 1971). COM71-50282

Gorozhanina, R. S., Freedman, A. Y., and Shaievitch, A. B. (translated by M. C. Selby), Standard Reference Materials: Standard Samples Issued in the USSR (A Translation from the Russian). NBS Spec. Publ. 260-30 (June 1971). COM71-50283**

Hust, J. G., and Sparks, L. L., Standard Reference Materials: Thermal Conductivity of Electrolytic Iron SRM 734 from 4 to 300 K, NBS Spec. Publ. 260-31 (November 1971). COM71-50563**

Mavrodineanu, R., and Lazar, J. W., Standard Reference Materials: Standard Quartz Cuvettes, for High Accuracy Spectrophotometry, NBS Spec. Publ. 260-32 (December 1973). 55 cents* SN003-003-01213-1

Wagner, H. L., Standard Reference Materials: Comparison of Original and Supplemental SRM 705, Narrow Molecular Weight Distribution Polystyrene, NBS Spec. Publ. 260-33 (May 1972). COM72-50526**

Sparks, L. L., and Hust, J. G., Standard Reference Materials: Thermoelectric Voltage, NBS Spec. Publ. 260-34. (April 1972). COM72-50371**

Sparks, L. L., and Hust, J. G., Standard Reference Materials: Thermal Conductivity of Austenitic Stainless Steel, SRM 735 from 5 to 280 K, NBS Spec. Publ. 260-35 (April 1972.) 35 cents* COM72-50368**

Cali, J. P., Mandel, J., Moore, L. J., and Young, D. S., Standard Reference Materials: A Referee Method for the Determination of Calcium in Serum. NBS SRM 915. NBS Spec. Publ. 260-36 (May 1972). COM72-50527**

Shultz, J. I. Bell., R. K. Rains, T. C., and Menis, O., Standard Reference Materials: Methods of Analysis of NBS Clay Standards, NBS Spec. Publ. 260-37 (June 1972). COM72-50692**

Richmond, J. C., and Hsia, J. J., Standard Reference Materials: Preparation and Calibration of Standards of Spectral Specular Reflectance, NBS Spec. Publ. 260-38 (May 1972). COM72-50528**

Clark, A. F., Denson, V.A., Hust, J. G., and Powell, R. L., Standard Reference Materials The Eddy Current Decay Method for Resistivity Characterization of High-Purity Metals, NBS Spec. Publ. 260-39 (May 1972). COM72-50529**

McAdie, H. G., Garn, P.D., and Menis, O., Standard Reference Materials: Selection of Thermal Analysis Temperature Standards Through a Cooperative Study (SRM 758, 759, 760), NBS Spec. Publ. 260-40 (August 1972.) COM72-50776**

Wood, L. A., and Shouse, P J., Standard Reference Materials: Use of Standard Light-Sensitive Paper for Calibrating Carbon Arcs Used in Testing Textiles for Colorfastness to Light, NBS Spec. Publ. 260-41 (August 1972) COM72-50775**

Wagner, H. L. and Verdier, P. H., eds., Standard Reference Materials: The Characterization of Linear Polyethylene, SRM 1475, NBS Spec. Publ. 260-42 (September 1972). COM72-50944**

Yakowitz, H., Ruff, A. W., and Michaelis, R. E., Standard Reference Materials: Preparation and Homogeneity Characterization of an Austenitic Iron-Chromium-Nickel Alloy, NBS Spec. Publ. 260-43 (November 1972). COM73-50760**

Schooley, J. F., Soulen, R. J., Jr., and Evans, G. A., Jr., Standard Reference Materials: Preparation and Use of Superconductive Fixed Point Devices, SRM 767, NBS Spec. Publ. 260-44 (December 1972). COM73-50037**

Greifer, B., Maienthal, E. J. Rains, T. C., and Rasberry, S. D., Standard Reference Materials: Powdered Lead-Based Paint, SRM 1579, NBS Spec. Publ. 260-45 (March 1973). COM73-50226**

Hust, J. G., and Giarratano, P. J., Standard Reference Materials: Thermal Conductivity and Electrical Resistivity Standard Reference Materials: Austenitic Stainless Steel, SRM's 735 and 798, from 4 to 1200 k, NBS Spec. Publ. 260-46 (March 1975). SN003-003-01278-5

Hust, J. G., Standard Reference Materials: Electrical Resistivity of Electrolytic Iron, SRM 797, and Austenitic Stainless Steel, SRM 798, from 5 to 280 K, NBS Spec. Publ. 260-47 (February 1974). COM74-50176**

Mangum, B. W., and Wise, J. A., Standard Reference Materials: Description and Use of Precision Thermometers for the Clinical Laboratory, SRM 933 and SRM 934, NBS Spec. Publ. 260-48 (May 1974). 60 cents* SN003-003-01278-5

Carpenter, B. S., and Reimer, G. M., Standard Reference Materials Calibrated Glass Standards for Fission Track Use, NBS Spec. Publ. 260-49 (November 1974). COM74-51185

Hust, J. G., and Giarratano, P. J., Standard Reference Materials: Thermal Conductivity and Electrical Resistivity Standard Reference Materials: Electrolytic Iron, SRM's 734 and 797 from 4 to 1000 K, NBS Spec. Publ. 260-50 (June 1975). $1.00* SN003-003-01425-7

Mavrodineanu, R., and Baldwin, J. R., Standard Reference Materials: Glass Filters As a Standard Reference Material for Spectrophotometry; Selection; Preparation; Certification; Use-SRM 930, NBS Spec. Publ. 260-51 (November 1975). $1.90* SN003-003-01481-8

Hust, J. G., and Giarratano, P. J., Standard Reference Materials: Thermal Conductivity and Electrical Resistivity Standard Reference Materials 730 and 799, from 4 to 3000 K, NBS Spec. Publ. 260-52 (September 1975). $1.05* SN003-003-01464-8

Durst, R. A., Standard Reference Materials: Standardization of pH Measurements, NBS Spec. Publ. 260-53 (December 1975, Revised). $1.05 SN003-003-01551-2

Burke, R. W., and Mavrodineanu, R. Standard Reference Materials: Certification and Use of Acidic Potassium Dichromate Solutions as an Ultraviolet Absorbance Standard, NBS Spec. Publ. 260-54 (August 1977). $3.00* SN003-003-01828-7

Ditmars, D. A., Cezairliyan, A., Ishihara, S., and Douglas, T. B., Standard Reference Materials: Enthalpy and Heat Capacity; Molybdenum SRM 781, from 273 to 2800 K, NBS Spec. Publ. 260-55 (September 1977). $2.20* SN003-003-01836-8

Powell, R. L., Sparks, L. L., and Hust, J. G., Standard Reference Materials: Standard Thermocouple Materials, Pt.67: SRM 1967, NBS Spec. Publ. 260-56 (February 1978). $2.20* SN003-003-018864

Cali, J. P. and Plebanski, T., Guide to United States Reference Materials, NBS Spec. Publ. 260-57 (February 1978). $2.20* PB 277173

Barnes, J. D., and Martin, G. M., Standard Reference Materials: Polyester Film for Oxygen Gas Transmission Measurements SRM 1470, NBS Spec. Publ. 260-58 (June 1979) $2.00* SN003-003-02077

Chang, T., and Kahn, A. H. Standard Reference Materials: *Electron Paramagnetic Resonance* Intensity Standard: SRM 2601, NBS Spec. Publ. 260-59 (August 1978) $2.30* SN003-003-01975-5

Velapoldi, R. A., Paule, R. C., Schaffer, R., Mandel, J., and Moody, J. R., Standard Reference Materials: A Reference Method for the Determination of Sodium in Serum, NBS Spec. Publ. 260-60 (August 1978). $3.00* SN003-003-01978-0

Verdier, P. H., and Wagner, H. L., Standard Reference Materials: *The Characterization* of Linear Polyethylene (SRM 1482, 1483, 1484), NBS Spec. Publ. 260-61 (December 1978). $1.70* SN003-003-02006-1

Soulen, R. J., and Dove, R. B., Standard Reference Materials: Temperature Reference Standard for Use Below 0.5 K (SRM 768). NBS Spec. Publ. 260-62 (April 1979). $2.30* SN003-003-02047-8

Velapoldi, R. A., Paule, R. C., Schaffer, R. Mandel, J., Machlan, L. A., and Gramlich, J. W., Standard Reference Materials: A Reference Method for the Determination of Potassium in Serum. NBS Spec. Publ. 260-63 (May 1979). $3.75* SN003-003-02068

Velapoldi, R. A., and Mielenz, K. D., Standard Reference Materials: A Fluorescence Standard Reference Material Quinine Sulfate Dihydrate (SRM 936), NBS Spec. Publ. 260-64 (January 1980). $4.25* SN003-003-02148-2

Marinenko, R. B., Heinrich, K. F. J., and Ruegg, F. C., Standard Reference Materials: Micro-Homogeneity Studies of NBS Standard Reference Materials, NBS Research Materials, and Other Related Samples. NBS Spec. Publ. 260-65 (September 1979). $3.50* SN003-003-02114-1

Venable, W. H., Jr., and Eckerle, K. L., Standard Reference Materials: Didymium Glass Filters for Calibrating the Wavelength Scale of Spectrophotometers (SRM 2009, 2010, 2013). NBS Spec. Publ. 260-66 (October 1979). $3.50* SN003-003-02127-0

Velapoldi, R. A., Paule, R. C., Schaffer, R., Mandel, J., Murphy, T. J., and Gramlich, J. W., Standard Reference Materials: A Reference Method for the Determination of Chloride in Serum, NBS Spec. Publ. 260-67 (November 1979). $3.75* SN003-003-02136-9

Mavrodineanu, R. and Baldwin, J. R., Standard Reference Materials: Metal-On-Quartz Filters as a *Standard Reference Material for Spectrophotometry*-SRM 2031, NBS Spec. Publ. 260-68 (April 1980). $4.25* SN003-003-02167-9

Velapoldi, R. A., Paule, R. C., Schaffer, R., Mandel, J., Machlan, L. A., Garner, E. L., and Rains, T. C., Standard Reference Materials: A Reference Method for the Determination of Lithium in Serum, NBS Spec. Publ. 260-69 (July) 1980). $4.25* SN003-003-02214-4

Marinenko, R. B., Biancaniello, F., Boyer, P. A., Ruff, A. W., DeRobertis, L., Standard Reference Materials: Preparation and Characterization of an Iron-Chromium-Nickel Alloy for Microanalysis, NBS Spec. Publ. 260-70 (May 1981). $2.50* SN003-003-02328-1

Seward, R. W., and Mavrodineanu, R., Standard Reference Materials: *Summary of the* Clinical Laboratory Standards Issued by the National Bureau of Standards, NBS Spec. Publ. 260-71 (November 1981). $6.50* SN003-003-02381-7

Reeder, D.J., Coxon, B., Enagonio, D., Christensen, R. G., Schaffer, R., Howell, B. F., Paule, R. C., Mandel, J., Standard Reference Materials: SRM 900, Antiepilepsy Drug Level Assay Standard, NBS Spec. Publ. 260-72 (June 1981). $4.25* SN003-003-02329-9

Interrante, C. G., and Hicho, G. E., Standard Reference Materials: A Standard Reference Material Containing Nominally Fifteen Percent Austenite (SRM 486), NBS Spec. Publ. 260-73 (January 1982). $2.75* SN003-003-02386-8

Marinenko, R. B., Standard Reference Materials: Preparation and Characterization of K-411 and K-414 Mineral Glasses for Microanalysis: SRM 470. NBS Spec. Publ. 260-74 (April 1982). $3.50 SN003-003-023-95-7

Weidner, V. R., Hsia, J. J., Standard Reference Materials: Preparation and Calibration of First Surface Aluminum Mirror Specular Reflectance Standards (SRM 2003a), NBS Spec. Publ. 260-75 (May 1982). $3.75 SN003-003-023-99-0

Hicho, G. E. and Eaton, E. E., Standard Reference Materials: A Standard Reference Material Containing Nominally Five Percent Austenite (SRM 485a), NBS Spec. Publ. 260-76 (August 1982). $3.50 SN003-003-024-33-3

Furukawa, G. T., Riddle, J. L., Bigge, W. G., and Pfieffer, E. R., Standard Reference Materials: Application of Some Metal SRM's as Thermometric Fixed Points, NBS Spec. Publ. 260-77 (August 1982). $6.00 SN003-003-024-34-1

Hicho, G. E. and Eaton, E. E., Standard Reference Materials: Standard Reference Material Containing Nominally Thirty Percent Austenite (SRM 487), NBS Spec. PUbl. 260-78 (September 1982). $3.75 SN003-003-024-35-0

Richmond, J. C., Hsia, J. J., Weidner, V. R., and Wilmering, D. B., Standard Reference Materials: Second Surface Mirror Standards of Specular Spectral Reflectance (SRM's 2023, 2024, 2025), NBS Spec. Publ. 260-79 (October 1982). $4.50 SN003-003-024-47-3

Schaffer, R., Mandel, J., Sun, T., Cohen, A., and Hertz, H. S., Standard Reference Materials: Evaluation by an ID/MS Method of the AACC Reference Method for Serum Glucose, NBS Spec. Publ. 260-80 (October 1982). $4.75 SN003-003-024-43-1

Burke, R. W., Mavrodineanu, R. (NBS retired), Standard Reference Materials: Accuracy in Analytical Spectrophotometry, NBS Spec. Publ. 260-81 (April 1983). $6.00 SN003-003-024-84-8

Weidner, V. R., Standard Reference Materials: White Opal Glass Diffuse Spectral Reflectance Standards for the Visible Spectrum (SRM's 2015 and 2016), NBS Spec. Publ. 260-82 (April 1983). $3.75 SN-003-003-024-89-9

Bowers,, G. N., Jr., Alvarez, R., Cali, J. P. (NBS retired), Eberhardt, K. R., Reeder, D. J., Schaffer, R., Uriano, G. A., Standard Reference Materials: The Measurement of the Catalytic (Activity) Concentration of Seven Enzymes in NBS Human Serum SRM 909, NBS Spec. Publ. 260-83 (June 1983). $4.50 SN003-003-024-99-6

Gills, T. E., Seward, R. W., Collins, R. J., and Webster, W. C., Standard Reference Materials: Sampling, Materials Handling, Processing, and Packaging of NBS Sulfur in Coal Standard Reference Materials, 2682, 2683, 2684, and 2685, NBS Spec. Publ. 260-84 (August 1983). $4.50 SN003-003-025-20-8

Swyt, D. A., Standard Reference Materials: A Look at Techniques for the Dimensional Calibration of Standard Microscopic Particles, NBS Spec. Publ. 260-85 (September 1983). $5.50 SN003-003-025-21-6

Hicho, G. E. and Eaton, E. E., Standard Reference Materials: A Standard Reference Material Containing Two and One-Half Percent Austenite, SRM 488. NBS Spec. Publ. 260-86 (December 1983) SN003-003-025-41-1

Mangum, B. W., Standard Reference Materials: SRM 1969: Rubidium Triple-Point - A Temperature Reference Standard Near 39.30 °C. NBS Spec. Publ. 260-87 (December 1983). SN003-003-025-44-5

Gills. T. E., et al., 1982 Compilationof Elemental Concentration Data for NBS Biological, Geological, and Environmental Standard Reference Materials. NBS Spec. Publ. 260-88 (In Press).

* Send order with remittance to Superintendent of Documents, US Government Printing Office Washington, DC 20402. Remittance from foreign countries should include an additional one-fourth of the purchase price for postage

** May be ordered from: National Technical Information Services (NTIS). Springfield Virginia 22151.

CONTENTS

	Page
Preface	iii
1. Introduction	2
2. Data Compilation	2
3. Discussion	3
4. Conclusion	3
5. References	4

APPENDICES

APPENDICES

	Page
Appendix A NBS SRM 120A - Collected Data	44
Appendix B NBS SRM 120B - Collected Data	44
Appendix C NBS SRM 1566 - Collected Data	46
Appendix D NBS SRM 1567 - Collected Data	48
Appendix E NBS SRM 1568 - Collected Data	50
Appendix F NBS SRM 1569 - Collected Data	52
Appendix G NBS SRM 1570 - Collected Data	54
Appendix H NBS SRM 1571 - Collected Data	59
Appendix I NBS SRM 1572 - Collected Data	80
Appendix J NBS SRM 1573 - Collected Data	81
Appendix K NBS SRM 1575 - Collected Data	86
Appendix L NBS SRM 1577 - Collected Data	91
Appendix M NBS SRM 1621 - Collected Data	107
Appendix N NBS SRM 1621A - Collected Data	107
Appendix O NBS SRM 1622A - Collected Data	107
Appendix P NBS SRM 1623 - Collected Data	107
Appendix Q NBS SRM 1624 - Collected Data	108
Appendix R NBS SRM 1630 - Collected Data	108
Appendix S NBS SRM 1631A - Collected Data	109
Appendix T NBS SRM 1631B - Collected Data	109
Appendix U NBS SRM 1631C - Collected Data	109
Appendix V NBS SRM 1632 - Collected Data	110
Appendix W NBS SRM 1632A - Collected Data	125
Appendix X NBS SRM 1633 - Collected Data	131
Appendix Y NBS SRM 1633A - Collected Data	148
Appendix Z NBS SRM 1634 - Collected Data	153
Appendix AA NBS SRM 1635 - Collected Data	155
Appendix BB NBS SRM 1641 - Collected Data	159
Appendix CC NBS SRM 1642A - Collected Data	159
Appendix DD NBS SRM 1643 - Collected Data	159
Appendix EE NBS SRM 1643A - Collected Data	160
Appendix FF NBS SRM 1645 - Collected Data	161
Appendix GG NBS SRM 1646 - Collected Data	164
Appendix HH NBS SRM 1648 - Collected Data	165
Appendix II NBS SRM 1A - Collected Data	168
Appendix JJ NBS SRM 1B - Collected Data	170
Appendix KK NBS SRM 278 - Collected Data	171
Appendix LL NBS SRM 4350 - Collected Data	173
Appendix MM NBS SRM 4350B - Collected Data	173
Appendix NN NBS SRM 4353 - Collected Data	174
Appendix OO NBS SRM 610 - Collected Data	174
Appendix PP NBS SRM 612 - Collected Data	176
Appendix QQ NBS SRM 614 - Collected Data	176
Appendix RR NBS SRM 616 - Collected Data	177
Appendix SS NBS SRM 688 - Collected Data	177
Appendix TT NBS SRM 70 - Collected Data	179
Appendix UU NBS SRM 70A - Collected Data	180
Appendix VV NBS SRM 76 - Collected Data	181
Appendix WW NBS SRM 77 - Collected Data	182
Appendix XX NBS SRM 88 - Collected Data	182
Appendix YY NBS SRM 88A - Collected Data	183
Appendix ZZ NBS SRM 91 - Collected Data	184
Appendix AAA NBS SRM 950A - Collected Data	185
Appendix BBB NBS SRM 97 - Collected Data	186
Appendix CCC NBS SRM 97A - Collected Data	188
Appendix DDD NBS SRM 98 - Collected Data	189
Appendix EEE NBS SRM 98A - Collected Data	192
Appendix FFF NBS SRM 99 - Collected Data	193
Appendix GGG NBS SRM 99A - Collected Data	195
Appendix HHH References for NBS SRM Collected Data	196

LIST OF TABLES

		Page
1.	National Bureau of Standards Biological, Environmental, and Geological Standard Reference Materials	5
2.	Literature Surveyed	7
3.	Elemental Concentrations in NBS Oyster Tissue, Brewers Yeast, and Citrus Leaves Standard Reference Materials	8
4.	Elemental Concentrations in NBS Wheat Flour, Rice Flour and New Bovine Liver Standard Reference Materials	9
5.	Elemental Concentrations in NBS SRM 1570: Spinach	10
6.	Elemental Concentrations in NBS SRM 1571: Orchard Leaves	12
7.	Elemental Concentrations in NBS SRM 1573: Tomato Leaves	13
8.	Elemental Concentrations in NBS SRM 1575: Pine Needles	15
9.	Elemental Concentrations in NBS SRM 1577: Bovine Liver (Older)	17
10.	Elemental Concentrations in NBS SRM's 610-616: Trace Elements in Glass	19
11.	Elemental Concentrations in NBS Coal Standard Reference Materials 1630, 1632A, and 1635	21
12.	Elemental Concentrations in NBS SRM 1632: Trace Elements in Coal	23
13.	Elemental Concentrations in NBS SRM 1633: Coal Fly Ash (Older)	24
14.	Elemental Concentrations in NBS SRM 1633A: Coal Fly Ash (Newer)	25
15.	Elemental Concentrations in Newer NBS Silicate Rock, Sediment and Air Particulate Standard Reference Materials	26
16.	Elemental Concentrations and Uranium Isotope Ratios in Several NBS Standard Reference Materials	28
17.	Elemental Concentrations in NBS Fuel Oil Standard Reference Materials	29
18.	Elemental Concentrations in NBS Sulfur in Coal Standard Reference Materials	30
19.	Elemental Concentrations in NBS Water Standard Reference Materials	31
20.	NBS Environmental Radioactivity Standard Reference Materials	32
21.	Elemental Concentrations in Various NBS Standard Reference Materials	33
22.	Elemental Concentrations in Various NBS Standard Reference Materials	34
23.	Elemental Concentrations in NBS Clay Standard Reference Materials	35
24.	Elemental Concentrations in NBS Feldspar and Phosphate Rock Standard Reference Materials	36
25.	Analytical Methods Code	37
26.	"Whole Rock" Concentration Summations of Major and Minor Elements in Coal and Fly Ash SRM's	39
27.	Elemental Data Reported by Year	39
28.	Distribution of SRM Data by Analytical Technique	39
29.	Comment Codes for Appendix Tables	40
30.	Multipliers Used for Oxide to Element Conversions	41

LIST OF FIGURES

		Page
1.	Summary of Elemental Measurements Reported in NBS Biological SRM's 1566-1577A	42
2.	Summary of Elemental Measurements Reported in NBS Geological SRM's 278, 610-688 and 1630-1646	43

1982 COMPILATION OF ELEMENTAL CONCENTRATION DATA FOR NBS BIOLOGICAL, GEOLOGICAL, AND ENVIRONMENTAL STANDARD REFERENCE MATERIALS

Ernest S. Gladney, Colleen E. Burns, and Daniel R. Perrin

Environmental Surveillance Group, MS K-490
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

Iwan Roelandts

Geologie, Petrologie et Geochimie
Universite de Liege
B-4000 Sart-Tilman par Liege 1
Belgium

Thomas E. Gills

Office of Standard Reference Materials
National Bureau of Standards
Washington, DC 20234

Concentration data on 88 constituents in 75 NBS Standard Reference Materials have been collected from over 850 journal articles and technical reports. These data are summarized into mean values with uncertainties expressed as +/- one standard deviation and compared with available certification data from NBS. Data are presented on the analytical procedures employed and all raw data are given in the Appendices.

Key words: Analytical methods, biological, certified, compilation, environmental, geological, information values, literature values, mean values, Standard Reference Materials.

DISCLAIMER

Certain commercial equipment, instruments, or materials are identified in this report in order to adequately specify the procedure used for data compilation. Such identification does not imply recommendation or endorsement by the National Bureau of Standards, nor does it imply that the materials or equipment identified are necessarily the best available for the purpose.

1. Introduction

This compilation is a revised, updated, and expanded version of the first edition which appeared in 1980 (1). The National Bureau of Standards (NBS) has produced over 60 Standard Reference Materials (SRM) for use in biological, geological, and environmental analytical chemistry. The basic goal of the SRM program is to provide homogeneous and stable materials of a variety of natural matrices, for use in technique development and in analytical quality assurance. The function of standard reference materials in the latter role has received recent attention in a series of articles by Taylor (2-4). These standard reference materials carry the full legal weight and authority of NBS and the U. S. Department of Commerce, as they have been specifically authorized by federal legislation.

The concentrations of as many as 39 constituents have been determined at one of two confidence levels in each SRM: certified values and non-certified or informational values. The former is the present best estimate of the true concentration of that constituent and is not expected to deviate from that concentration by more than the stated uncertainty. These certified concentrations are determined at NBS or with cooperating laboratories using either a definitive method, two or more independent methods, or reference methods. These methods and other certification criteria are carefully defined by Uriano and Gravatt (5). Constituent concentrations that are labeled as non-certified or informational are those that NBS has not measured by either a definitive or reference method.

A limitation of many of these standard reference materials has been the restricted number of constituents that NBS can afford to certify in each material. Numerous investigators outside NBS have published concentration data on constituents in these reference materials. Although several brief review articles on NBS standard reference materials have appeared in the literature, we believe that the user should have access to both the summarized mean concentrations and all the data on which they are based. This philosophy was the basis of the previous compilation effort (1). Since no abstracting service has a category "standard reference materials", the widely scattered data in reports, articles, books, and proceedings have been collected only with difficulty.

There has been continuing controversy among compilers concerning the determination and reporting of final compositional information on standard reference materials (6-12). Flanagan has used "recommended", "average", and "magnitude" to characterize his "estimates" for major components and trace elements (13). Abbey has coined the term "usable value" for some of his results and pioneered the "select laboratories" approach to arrive at overall compositional information (11,14). Gladney and Goode elected to report only "mean values" and associated standard deviations without further attempt to assess the varying quality of data determined by different analytical techniques (15). For the French geostandards (CRPG, ANRT), Roubault, et al. (16), have considered "recommended", "preferred", and "proposed" values depending on the degree of confidence one can attach to the data. Steele, et al. (17), have reported "recommended" values in the six NIMROC rock samples using some statistical methods. Gladney, et al. (18), chose the term "consensus values" to describe their mean values calculated for USGS rocks after judgemental elimination of initial outliers.

Approaches to value judgement of data quality can be debated endlessly. The responsibility for the informed end of these compiled data lies with the individual investigator. Each should read our methodology carefully so that he may decide for himself its limitations. The values in the tables must not be used uncritically. All data behind our mean values are presented in the appendices so that any investigator may recalculate them to reflect his own experience whenever desired.

2. Data Compilation

A key to the 75 standard reference materials included in this document is provided in Table 1, along with certification and revised certification dates. All NBS certified and informational values for these standard reference materials are reported in the individual mean value tables for ease of comparison. The certified values have uncertainties stated, while informational values do not.

The 54 major journals in analytical chemistry, geology, petrology, geochemistry, and environmental science that were surveyed are shown in Table 2. Less comprehensive coverage of books and institutional reports for 1972-1982 has been achieved. More than 850 different references containing original data on NBS materials were located. All individual data, their uncertainties (where provided), their references, and the analytical techniques used are given in Appendices A through GGG.

All individual data thus located were assembled using a PDP-11/34 minicomputer with an RSX-11M (version 4.0) operating system, an RA-80 121 Mb fixed-media disc drive, three RL-02 10 Mb cartridge disc drives, and a Datatrieve-11 software package (all are registered trademarks of the Digital Equipment Corporation, Manard, Massachusetts). Datatrieve-11 (version 2.0) is an interactive data storage and maintenance software system which provides facilities for selective data retrival, updating, sorting, formatting, and report generation with a minimum of programming overhead. Data were hand entered into the system via terminal keyboard from copies of the original papers. Details of our Datatrieve-11 based data management system are being published elsewhere (19).

Data were first sorted by material, then constituent, and finally in ascending order of concentration for each constituent (this can be accomplished in a single operation within Datatrieve). Some subjective criteria, as discussed by Abbey (10), were used to eliminate data on either end of the reported concentration spectrum that we judged to be beyond the limits of acceptability. Following these subjective eliminations (less than 0.5% of the total data), an initial mean and standard deviation was computed using all remaining data for a given constituent in each SRM by passing the Datatrieve ASCII output file through a program which encoded numerical values and performed mean and standard deviation calculations.

All data points now outside +/- two standard deviations from the initial mean were dropped and a second mean and standard deviation recomputed. These final means and associated standard deviations are reported in Tables 3 to 24 for up to 88 constituents. The number in parentheses following each entry indicates the number of literature

values used to calculate the final mean. Where sufficient data exist, the median was also determined using all data other than "less-than" values.

The compiled data were then resorted first by material, then constituent, and finally by analytical method. An iterative mean and standard deviation (using +/- 2s for elimination) were again calculated for groups of analytical methods which had more than two data points (i.e., ITNA, IENA, RTNA, RENA, NAA, and DNA were all combined into NAA; WSRF, EXRF, and XRF into XRF, etc.). These analytical method means and standard deviations are also included in the tables when sufficient data exist. The key for analytical methods codes is given in Table 25.

Mean values in Tables 3 to 24 which are based upon less than three data points do not include standard deviations (e.g., B in 1566, Table 3). In a few cases the data reported had such a wide range as to render the mean +/- one standard deviation value meaningless. Such cases are reported as ranges only (no standard deviation specified). Additionally, there are a few elements where only upper limit data exist, and these are given as limit values in the tables (e.g., Be in 1570, Table 5).

3. Discussion

Our mean values for major and minor elements in standard reference materials can be subjected to two tests commonly used by rock analysts. "Whole rock" summations can be calculated from elemental data when oxygen data are available, or the elements can be converted to stoichiometric oxides and then summed. The latter approach is inappropriate for coals, oils, biologicals, and non-silicate rocks where many elements are not in oxide forms. "Iron-oxide compatability" can also be determined when concentration data on the two forms of iron oxide have been established. Since we have not located any reports of oxygen determination in any of the biological standard reference materials, the summation test cannot yet be applied. Furthermore, the absence of reported iron oxide data render that test impossible. There is sufficient oxygen data on five coal and fly ash materials to attempt the "whole rock" summation. It is important that all concentration data used are on a "dry-weight" basis. The large water content of SRM 1635 makes its compiled data suspect in this regard. The results of this calculation are shown in Table 26. Summations of 99 to 101% are considered a good indication that the major and minor element data are reasonably accurate and internally consistent. Three of the five materials investigated fall within this range. The primary reason for the "high" values for 1632A and 1633 is the uncertainty in the carbon (+/- 4%) and silicon (+/- 1.1%) mean values, respectively. In light of these uncertainties, their summations are also quite acceptable. In the future it is hoped that good oxygen data will be available so that this approach can be applied to the biologicals. These calculations will be presented on other geological standard reference materials when the quantity of data is sufficient.

The growth of the body of standard reference material data is shown in Table 27. A summary of total numbers of elemental measurements reported in this compilation as a function of matrix is shown in Figs. 1 and 2 for biological and geological matrices. There are a total of 6088 reports for biological materials 1566 to 1577A, and a total of 5105 reports for geological and environmental materials 278, 610-617, 688, 1630-1635, and 1645-1646. A summary of these two groups of data by general analytical method is given in Table 28. As seen in the first compilation (1) neutron activation techniques continue to lead the field followed at some distance by atomic absorption.

The key to the analytical methods code (ANAL-METH) is given in Table 25. The key to the COMMENT code is given in Table 29. All data reported as oxides in the original references were converted to elemental form using the conversion factors shown in Table 30. The individual data (CONC), their uncertainties when provided (UNCER), analytical technique used (ANAL-METH), the exact data points eliminated during mean value calculations (* under COMMENT), and the individual references are given in Tables A to GGG for each SRM. These tables were generated with the Datatrieve-11 report writing facilities and the DEC Keypad editor, and printed on a Twintrack Qume printer. Data which were reported as "greater-than" values have not been included, and "less-than" values are shown as a blank under concentration with the upper limit given as the uncertainty and with L* under COMMENT. The data have been sorted in ascending order based upon material, constituent, and concentration using Datatrieve-11. All the references (REF-CODE and REF-NUM) have been coded and identified in Table HHH. The code consists of the last two digits of the year of publication plus the first three letters of the first author's last name. The two digit numerical suffix is provided to enable handling of multiple reports by the same first author in the same year. This particular reference coding system was adopted in preference to sequential numbering used in the first edition (1) to permit rapid searching of the reference file using Datatrieve-11 and to permit easy updating of both the reference and data files without the necessity of renumbering the references. Since over 3400 references with data on various NBS, USGS, and CCRMP materials are now in our system, these considerations are extremely important.

4. Conclusion

Although we have endeavored to achieve as wide a coverage of the literature as possible, we realize that this compilation is incomplete. We request that the users of this compilation call our attention to errors or omissions and they will be corrected or included in future editions. Any investigators with unpublished results on NBS, U. S. Geological Survey (USGS), or Canadian Certified Reference Materials Project (CCRMP) reference materials are urged to send their data to the first author and it will be placed in our computer data base with appropriate reference to the source.

We are indebted to all the compilers of reference materials data who have preceeded us. We especially thank Sydney Abbey (Geological Survey of Canada) who has maintained a voluminous correspondence with the first author on various aspects of data compilation. Our effort has greatly benefited from his willingness to share his experience and his informed criticism. We also thank William Goode (DEC) who helped us establish our original data management framework and Kathy Derouin (Los Alamos Group HSE-8) who was instrumental in producing the large mean value tables.

This work was performed under the auspices of the U.S. Department of Energy and the U.S. National Bureau of Standards.

REFERENCES

1. Gladney, E. S., "Compilation of Elemental Concentration Data for NBS Biological and Environmental Standard Reference Materials", Los Alamos Scientific Laboratory Report LA-84 38-MS, 1980.
2. Taylor, J. K., Anal. Chem., 53: 1588-1596A (1981).
3. Taylor, J. K., "Reference Materials - How They Are, or How They Should be Used", Presented at the ASTM C-26 meeting, Knoxville, Tn., 1982.
4. Taylor, J. K., Anal. Chem., 55: 600-608A (1983).
5. Uriano, G. A., and C. C. Gravatt, Crit. Rev. Anal. Chem., 6: 361-411 (1977).
6. Flanagan, F. J., Geochim, Cosmochim. Acta, 37: 1189-1200 (1973).
7. Abbey, S., ibid., 39: 535-537 (1975).
8. Flanagan, F. J., ibid., 39: 537-540 (1975).
9. Abbey, S., Geostandards Newsletter, 2: 141-146 (1978).
10. Abbey, S., X-ray Spect., 7: 99-121 (1978).
11. Abbey, S., R. A. Meeds, and P. G. Belanger, Geostandards Newsletter, 3: 121-133 (1979).
12. Abbey, S., ibid., 6: 47-76 (1982).
13. Flanagan, F. J., "1972 Compilation of Data on USGS Standards", in Descriptions and Analyses of Eight New USGS Rock Standards, US Geological Survey Professional Paper 840: 131-183 (1976).
14. Abbey, S., "Standard Samples of Silicate Rocks and Minerals: A Review and Compilation", Geological Survey of Canada, Paper 72-30 (1972).
15. Gladney, E. S., and W. E. Goode, Geostandards Newsletter, 5: 31-64 (1981).
16. Roubault, M., H. de la Roche, and K. Govindaraju, Sciences de la Terre, Nancy, XI: 105-121 (1966).
17. Steele, T. W., A. Wilson, R. Goudvis, P. J. Ellis, and A. J. Radford, Analyses of the NIMROC Reference Samples for Minor and Trace Elements, National Institute for Metallurgy Report 1945, 222 pp.
18. Gladney, E. S., C. E. Burns, and I. Roelandts, Geostandards Newsletter, 7: 3-226 (1983).
19. Gladney, E. S., D. R. Perrin, C. E. Burns, and W. E. Goode, "Data Base Design Geological Reference Materials", Los Alamos National Laboratory report, in preparation (1983).

TABLE 1

NATIONAL BUREAU OF STANDARDS BIOLOGICAL, ENVIRONMENTAL, AND GEOLOGICAL STANDARD REFERENCE MATERIALS

SRM NUMBER	NAME	CERTIFICATION DATE
1A	Argillaceous Limestone	1931
1b	Argillaceous Limestone	1966
1c	Argillaceous Limestone	1978
70	Feldspar	1926
70a	Feldspar	1981
76	Burnt Refractory	1927,1955
77	Burnt Refractory	1927,1955
88	Dolomite	1928
88A	Dolomite Limestone	1967,1982
91	Opal Glass	1931
97	Flint Clay	1931
97A	Flint Clay	1969
98	Plastic Clay	1931
98A	Plastic Clay	1969
99	Soda Feldspar	1931
99A	Feldspar	1981
120A	Phosphate Rock (Florida)	1961
120B	Phosphate Rock (Florida)	1972,1979
278	Obsidian Rock	1981
610	Trace Elements in Glass (500 ppm)	1970,1972
612	Trace Elements in Glass (50 ppm)	1970,1972,1982
614	Trace Elements in Glass (1 ppm)	1970,1972,1982
616	Trace Elements in Glass (0.02 ppm)	1970,1972,1982
688	Basalt Rock	1981
950A	Uranium Oxide	1961
950B	Uranium Oxide	1981
1566	Oyster Tissue	1979,1983
1567	Wheat Flour	1978
1568	Rice Flour	1978
1569	Brewer's Yeast	1976
1570	Trace Elements in Spinach	1976
1571	Orchard Leaves	1971,1976,1977
1572	Citrus Leaves	1982
1573	Tomato Leaves	1976
1575	Pine Needles	1976
1577	Bovine Liver	1972,1977
1577a	Bovine Liver	1982
1619	Sulfur in Residual Fuel Oil	1981
1620a	Sulfur in Residual Fuel Oil	1981
1621	Sulfur in Residual Fuel Oil	1967
1621a	Sulfur in Residual Fuel Oil	1980
1621b	Sulfur in Residual Fuel Oil	1981
1622a	Sulfur in Residual Fuel Oil	1979
1622b	Sulfur in Residual Fuel Oil	1981
1623	Sulfur in Residual Fuel Oil	1971
1623a	Sulfur in Residual Fuel Oil	1981

TABLE 1 (Cont)

SRM NUMBER	NAME	CERTIFICATION DATE
1624	Sulfur in Distillate Fuel Oil	1971
1624a	Sulfur in Distillate (Diesel) Fuel Oil	1981
1630	Trace Mercury in Coal	1971
1631A	Sulfur in Coal	1973,1974
1631B	Sulfur in Coal	1973,1974
1631C	Sulfur in Coal	1973,1974
1632	Trace Elements in Coal	1974
1632A	Trace Elements in Coal (Bituminous)	1983
1633	Trace Elements in Coal Fly Ash	1975
1633A	Trace Elements in Coal Fly Ash	1979
1634	Trace Elements in Fuel Oil	1975
1634A	Trace Elements in Fuel Oil	1982
1635	Trace Elements in Coal (Subbituminous)	1978
1641	Mercury in Water - Concentrate	1975
1642	Mercury in Water - Trace	1974
1642A	Mercury in Water - ng/ml	1977
1643	Trace Elements in Water	1977
1643A	Trace Elements in Water	1980
1645	River Sediment	1978
1646	Estuarine Sediment	1982
1648	Urban Particulate Matter	1978
1649	Urban Dust/Organics	1982
2682	Sulfur in Coal	1982,1983
2683	Sulfur in Coal	1982,1983
2684	Sulfur in Coal	1982,1983
2685	Sulfur in Coal	1982,1983
4350	Environmental Radioactivity Standard: River Sediment	1975
4350B	Environmental Radioactivity	1981
4353	Environmental Radioactivity	1981

TABLE 2: LITERATURE SURVEYED

JOURNAL	VOLUME NUMBERS
Analysis	1 - 10
Analyst	97 - 107
Analytica Chimica Acta	53 - 143
Analytical Chemistry	44 - 54
Analytical Letters	1 - 15
Analytical Proceedings Published by the Royal Society of Chemistry (London)	17 - 19
Annales de la Societe Geologique de Belgique	91 - 105
Applied Spectroscopy	25 - 36
Atomic Absorption Newsletter	1 - 18
Atomic Spectroscopy	1 - 3
Biological Trace Element Research	1 - 4
Bulletin des Societes Chimiques Belges	80 - 90
Canadian Journal of Earth Sciences	9 - 19
Canadian Journal of Spectroscopy	20 - 27
Chemical Geology	13 - 37
Comptes-Rendus Hebdomadaires des Seances de l'Academie des Sciences (Paris)	272 - 292
Contributions to Mineralogy and Petrology	36 - 80
Earth and Planetary Science Letters	1 - 61
Environmental Letters	1 - 10
Environmental Pollution	1 - 29
Environmental Research	1 - 28
Environmental Science and Technology	5 - 16
Fresenius' Zeitschrift fur Analytische Chemie	244 - 313
Geochemistry International (translations from Geokhimiya)	9 - 18
Geophysical Research Letters	1 - 9
Geochimica et Cosmochimica Acta	36 - 46
Geostandards Newsletter	1 - 6
Geochemical Journal	7 - 16
International Journal of Applied Radiation and Isotopes	23 - 33
International Journal of Environmental Analytical Chemistry	1 - 12
International Journal of Environmental Studies	1 - 19
Journal of Analytical Chemistry of USSR (translations of Zhurnal Analiticheskoi Khimii)	26 - 36
Journal of Environmental Quality	1 - 11
Journal of Environmental Science and Health	11 - 17
Journal of Geochemical Exploration	1 - 17
Journal of Petrology	12 - 23
Journal of Radioanalytical Chemistry	10 - 72
Journal of Research of the USGS	1 - 6
Journal of the Association of Official Analytical Chemists	55 - 65
Journal of the Geological Society (London)	127 - 138
Journal of Volcanology and Geothermal Research	1 - 14
Lithos	4 - 15
Marine Geology	12 - 44
Microchemical Journal	17 - 27
Mikrochimica Acta (Wien)	1972 - 1982
Mineralogy Magazine	40 - 46
Nuclear Instruments and Methods	114 - 172
Precambrian Research	1 - 18
Proceedings of the Analytical Division of the Chemical Society (London)	11 - 16
Radiochimica Acta	17 - 31
Radiochemical and Radioanalytical Letters	1 - 54
Sedimentology	16 - 28
Talanta	19 - 29
X-Ray Spectrometry	1 - 11

TABLE 3
ELEMENTAL CONCENTRATIONS IN NBS OYSTER TISSUE, BREWERS YEAST, AND CITRUS LEAVES STANDARD REFERENCE MATERIALS

		1566			1569			1572	
			Literature			Literature			Literature
Element	Unit	NBS (1979)	$\bar{x} \pm s$ (n)	Range	NBS (1976)	$\bar{x} \pm s$ (n)	Range	NBS (1982)	$\bar{x} \pm s$ (n)
Ag	ppb	890 ± 90	---	---	---	---	---	---	---
Al	ppm	---	---	---	---	2150 (2)	2000 - 2300	92 ± 15	---
As	ppm	13.4 ± 1.9	12.6 ± 0.5 (4)	12.2 ± 15.5	---	0.59 ± 0.07 (3)	0.53 - 0.67	3.1 ± 0.3	3.10 (2)
B	ppm	---	7 (1)	---	---	6.2 (1)	---	---	---
Ba	ppm	---	---	---	---	---	---	21 ± 3	---
Br	ppm	55	112 (2)	45 - 180	---	3.7 (2)	0.65 - 6.7	8.2	---
Ca	ppm	1500 ± 200	2500 ± 1700 (3)	880 - 4500	---	2400 ± 100 (4)	2270 - 2490	31500 ± 1000	---
Cd	ppm	3.5 ± 0.4	3.38 ± 0.17 (6)	3.20 - 3.61	---	0.17 ± 0.09 (4)	0.08 - 0.29	0.03 ± 0.01	---
Ce	ppm	---	---	---	---	2.3 (1)	---	0.28	---
Cl	%	1.0	---	---	---	0.046 (1)	---	0.0414	---
Co	ppb	400	340 (1)	---	---	280 (1)	---	20	---
Cr	ppm	0.69 ± 0.27	0.55 ± 0.18 (3)	0.34 - 0.70	2.12 ± 0.05	1.81 ± 0.46 (17)	0.078 - 2.17	0.8 ± 0.2	---
Cs	ppb	---	---	---	---	<200 (1)	---	98	---
Cu	ppm	63.0 ± 3.5	62 ± 1 (4)	61.0 - 189	---	16 ± 3 (5)	11.0 - 184	16.5 ± 1.0	16.5 (2)
Eu	ppb	---	20 (1)	---	---	20 (1)	---	10	---
F	ppm	5.2	5.2 (2)	4.9 - 5.4	---	14.5 (2)	14 - 15	---	---
Fe	ppm	195 ± 34	195 ± 11 (6)	178 - 576	---	630 ± 80 (5)	257 - 707	90 ± 10	96 (2)
Ga	ppm	---	---	---	---	7.1 (1)	---	---	---
Hf	ppb	---	---	---	---	130 (1)	---	---	---
Hg	ppb	57 ± 15	40 (1)	---	---	22 (1)	---	80 ± 20	---
I	ppm	2.8	3.1 ± 0.2 (4)	2.3 - 3.2	---	0.06 (1)	---	---	---
K	%	0.969 ± 0.005	0.95 ± 0.06 (4)	0.87 - 1.89	---	1.52 ± 0.11 (6)	1.40 - 1.71	1.82 ± 0.06	1.79 (2)
La	ppb	---	---	---	---	---	---	190	---
Mg	ppm	1280 ± 90	1370 ± 8 (3)	1280 - 1430	---	1850 ± 100 (5)	1730 - 1980	5800 ± 300	5600 (2)
Mn	ppm	17.5 ± 1.2	17.3 ± 1.3 (6)	3.0 - 49	---	10.0 ± 0.7 (5)	7.0 - 10.9	23 ± 2	24 (2)
Mo	ppm	≤0.2	0.1 (1)	---	---	3.6 ± 0.3 (4)	3.3 - 3.9	0.17 ± 0.09	---
N	%	---	---	---	---	---	---	2.86	---
Na	ppm	5100 ± 300	4800 (2)	4600 - 4920	---	590 (2)	510 - 670	160 ± 20	---
Ni	ppm	1.03 ± 0.19	0.94 (2)	0.92 - 0.97	---	5.3 ± 0.7 (4)	4.6 - 6.0	0.6 ± 0.3	---
P	%	0.81	0.778 ± 0.012 (4)	0.76 - 0.79	---	1.04 ± 0.03 (4)	1.00 - 1.08	0.13 ± 0.02	---
Pb	ppb	480 ± 40	478 ± 25 (10)	440 - 510	---	350 (2)	200 - 500	13.3 ± 2.4	---
Rb	ppm	4.45 ± 0.09	20 (1)	---	---	16 (1)	---	4.84 ± 0.06	---
S	ppm	7600	---	---	---	---	---	4070 ± 90	---
Sb	ppb	---	150 (1)	---	---	150 (2)	75 - 230	40	---
Sc	ppb	---	89 (1)	---	---	200 (2)	180 - 220	10	---
Se	ppm	2.1 ± 0.5	2.1 ± 0.3 (3)	1.8 - 2.4	---	0.97 ± 0.05 (3)	0.92 - 1.01	0.025	---
Sm	ppb	---	---	---	---	---	---	52	---
Sn	ppb	---	---	---	---	---	---	---	---
Sr	ppm	1036 ± 0.56	51 (2)	9.9 - 92	---	---	---	100 ± 2	---
Te	ppb	---	---	---	---	---	---	20	---
Th	ppm	0.1	---	---	---	3.7 (1)	---	---	---
Ti	ppm	---	---	---	---	38 (1)	---	---	---
Tl	ppb	≤ 5	---	---	---	---	---	≤10	---
U	ppb	116 ± 6	126 (1)	---	---	467 ± 15 (7)	441 - 490	≤150	41 (1)
U-238/235		---	---	---	---	137.7 (1)	---	---	---
V	ppm	2.8	2.4 (1)	---	---	3.3 ± 1.6 (3)	1.5 - 4.4	---	---
Zn	ppm	852 ± 14	863 ± 12 (6)	750 - 2953	---	65 ± 3 (9)	30 - 70	29 ± 2	30 (2)

TABLE 4

ELEMENTAL CONCENTRATIONS IN NBS WHEAT FLOUR, RYE FLOUR, AND NEW BOVINE LIVER STANDARD REFERENCE MATERIALS

		1567			1568			1577a
			Literature			Literature		
Element	Units	NBS (1978)	$\bar{x} \pm s$ (n)	Range	NBS (1978)	$\bar{x} \pm s$ (n)	Range	NBS (1982)
Ag	ppb	---	---	---	---	---	---	40 ± 10
Al	ppm	---	---	---	---	---	---	2
As	ppb	6	5.6 ± 0.3 (4)	5.4 - 30	410 ± 50	415 ± 26 (12)	90 - 460	47 ± 6
B	ppm	---	1.5 (1)	---	---	<1 (1)	---	---
Be	ppb	---	<30 (1)	---	---	---	---	---
Bi	ppb	---	<8 (1)	---	---	<8 (1)	---	---
Br	ppm	9	9.9 (1)	---	1	1.23 (1)	---	9
Ca	ppm	190 ± 10	190 ± 9 (12)	173 - 199	140 ± 20	146 ± 3 (9)	142 - 151	120 ± 7
Cd	ppb	32 ± 7	33 ± 10 (7)	20 - 50	29 ± 4	36 ± 18 (4)	20 - 60	440 ± 60
Cl	ppm	---	---	---	---	---	---	2800 ± 100
Co	ppb	---	21 (1)	---	20 ± 10	18 (1)	---	210 ± 50
Cr	ppb	---	350 (2)	300 - 400	---	140 (2)	80 - 200	---
Cs	ppb	---	<200 (1)	---	---	<200 (1)	---	---
Cu	ppm	2.0 ± 0.3	1.98 ± 0.09 (8)	1.80 - 2.06	2.2 ± 0.3	2.02 ± 0.13 (5)	1.90 - 2.20	158 ± 7
F	ppb	---	40 (1)	---	---	190 (2)	180 - 200	---
Fe	ppm	18.3 ± 1.0	18.1 ± 0.9 (10)	17.0 - 19.6	8.7 ± 0.6	8.2 ± 0.9 (7)	7.1 - 9.4	194 ± 20
Ge	ppb	---	<20 (1)	---	---	<20 (1)	---	---
Hg	ppb	1.0 ± 0.8	1.0 (1)	---	6.0 ± 0.7	6.0 (2)	5.6 - 6.4	4 ± 2
I	ppb	---	---	---	---	12 (2)	11 - 12	---
K	ppm	1360 ± 40	1316 ± 11 (5)	1300 - 1392	1120 ± 20	1100 ± 90 (4)	965 - 1150	9960 ± 70
Mg	ppm	---	414 ± 12 (5)	398-429	---	510 (2)	510	600 ± 15
Mn	ppm	8.5 ± 0.5	8.4 ± 0.2 (8)	6.7 - 9.9	20.1 ± 0.4	20.1 ± 0.7 (6)	19.1 - 21.4	9.9 ± 0.8
Mo	ppm	0.4	0.402 ± 0.018 (5)	0.38 - 0.42	1.6	1.59 ± 0.01 (3)	1.59 - 1.60	3.5 ± 0.5
N	%	---	---	---	---	---	---	10.7
Na	ppm	8.0 ± 1.5	10.4 (1)	---	6.0 ± 1.5	6.9 (1)	---	2430 ± 130
Ni	ppb	180	180 (2)	160 - 200	160	155 (2)	150 - 160	---
P	ppm	---	1380 ± 30 (5)	1350 - 1420	---	1620 (2)	1600 - 1630	11100 ± 400
Pb	ppb	---	18 (1)	---	---	32 (2)	30 - 35	135 ± 15
Rb	ppm	1	0.99 (1)	---	7	7.3 (1)	---	12.5 ± 0.1
S	ppm	---	---	---	---	---	---	7800 ± 100
Sb	ppb	---	38 (1)	---	---	5 (1)	---	3
Se	ppm	1.1 ± 0.2	0.99 ± 0.10 (20)	0.70 - 1.17	0.4 ± 0.1	0.38 ± 0.06 (21)	0.28 - 0.48	0.71 ± 0.07
Sn	ppb	---	<20 (1)	---	---	<20 (1)	---	---
Sr	ppb	---	---	---	---	---	---	138 ± 3
Te	ppb	≤2	---	---	≤2	---	---	---
Tl	ppb	---	---	---	---	---	---	3
U	ppb	---	0.95 (1)	---	---	0.89 (1)	---	0.71 ± 0.03
V	ppb	---	<50 (1)	---	--	<50 (1)	---	---
Zn	ppm	---	10.8 ± 0.3 (9)	10.2 - 11.3	19.4 ± 1.0	19.8 ± 0.4 (6)	19.3 - 21.3	123 ± 8

TABLE 5

ELEMENTAL CONCENTRATIONS IN NBS SRM 1570: SPINACH

Element	Units	NBS (1976)	Literature							
						Individual $\bar{x} \pm s$ by Analytical Technique				
			$\bar{x} \pm s$ (n)	Median	Range	AA	ASV	ICPES	NAA	XRF
Ag	ppb	---	65 (2)	---	65	---	---	---	---	---
Al	ppm	870 ± 50	830 ± 40 (5)	824	482 - 1190	---	---	---	910 ± 160 (5)	---
As	ppb	150 ± 50	163 ± 12 (12)	160	62 - 180	155 ± 19 (8)	---	---	166 ± 17 (3)	---
Au	ppb	---	1.2 (2)	---	0.4 - 2.0	---	---	---	---	---
B	ppm	30	24 (2)	---	20.9 - 28	---	---	---	---	---
Ba	ppm	---	50 (2)	---	13.1 - 87	---	---	---	---	---
Be	ppb	---	<30 (4)	---	---	---	---	---	---	---
Bi	ppb	---	<8 (1)	---	---	---	---	---	---	---
Br	ppm	54	48 ± 4 (12)	47.2	42 - 138	---	---	---	48 ± 4 (12)	---
C	%	---	40.8 (1)	---	---	---	---	---	---	---
Ca	%	1.35 ± 0.03	1.37 ± 0.12 (16)	1.36	0.82 - 2.45	---	---	1.38 ± 0.13 (9)	1.38 ± 0.13 (5)	1.68 ± 0.68 (3)
Cd	ppm	1.5	1.5 ± 0.2 (20)	1.45	1.2 - 2.8	1.5 ± 0.3 (6)	1.25 ± 0.06 (3)	1.8 ± 0.5 (8)	1.52 ± 0.14 (4)	---
Ce	ppb	---	240 (1)	---	---	---	---	---	---	---
Cl	ppm	---	6500 ± 400 (5)	6650	6000 - 10 000	---	---	---	6500 ± 400 (5)	
Co	ppm	1.5	1.58 ± 0.12 (10)	1.55	0.9 - 3.2	2.1 ± 1.0 (3)	---	---	1.58 ± 0.12 (8)	---
Cr	ppm	4.6 ± 0.3	5.5 ± 4.3 (23)	4.7	3.06 - 24.8	4.3 ± 0.9 (6)	---	4.3 ± 1.0 (6)	4.7 ± 0.3 (6) 22 ± 2 (7)	---
Cs	ppb	---	180 ± 140 (4)	---	48 - 320	---	---	---	180 ± 140 (4)	
Cu	ppm	12 ± 2	11.8 ± 0.6 (25)	11.9	9.1 - 13.2	12.4 ± 0.6 (6)	---	11.6 ± 0.6 (9)	11.5 ± 0.3 (5)	
Eu	ppb	20	17 (2)	---	14 - 20	---	---	---	---	---
F	ppm	---	4.4 (2)	---	4.3 - 4.4	---	---	---	---	---
Fe	ppm	550 ± 20	536 ± 33 (25)	541	178 - 1200	540 ± 30 (4)	---	520 ± 30 (10)	570 ± 50 (7)	770 ± 370 (3)[a]
Ge	ppb	---	<20 (1)	---	---	---	---	---	---	---
H	%	---	5.57 (2)	---	5.54 - 5.60	---	---	---	---	---
Hf	ppb	---	40 (1)	---	---	---	---	---	---	---
Hg	ppb	30 ± 5	30 ± 4 (5)	32	25 - 110	29 ± 4 (3)	---	---	57 ± 46 (3)	---
I	ppm	---	1.22 ± 0.12 (5)	1.27	1.08 - 1.32	---	---	---	1.25 ± 0.12 (4)	---
In	ppb	---	1.2 (2)	---	1.2 - 1.3	---	---	---	---	---
K	%	3.56 ± 0.03	3.58 ± 0.15 (18)	3.60	3.26 - 7.95	---	---	3.60 ± 0.17 (9)	3.56 ± 0.17 (7)	5.6 ± 2.1 (3)[a]
La	ppb	370	310 ± 40 (3)	---	260 - 350	---	---	---	310 ± 50 (3)	---
Lu	ppb	---	<5 (1)	---	---	---	---	---	---	---
Mg	ppm	---	8700 ± 600 (12)	8700	7000 - 9800	---	---	8740 ± 160 (8)	8700 ± 1300 (3)	---
Mn	ppm	165 ± 6	165 ± 9 (25)	165	1.3 - 684	148 ± 24 (6)	---	165 ± 5 (9)	162 ± 23 (8)	340 ± 290 (3)
Mo	ppb	---	280 ± 80 (5)	300	200 - 400	---	---	280 ± 100 (4)[b]	---	---
N	%	5.9	5.81 (2)	---	5.62 - 6.00	---	---	---	---	---
Na	%	---	1.40 ± 0.14 (10)	1.44	1.13 - 1.56	---	---	---	1.37 ± 0.13 (8)	---
Ni	ppm	6	6.0 ± 1.1 (16)	5.46	1.3 - 8.1	---	---	5.5 ± 0.5 (7)[a]	5.4 ± 2.1 (5)	---
P	ppm	5500 ± 200	5420 ± 250 (12)	5350	4500 - 6000	---	---	5400 ± 250 (10)	---	---
Pb	ppm	1.2 ± 0.2	1.13 ± 0.16 (22)	1.10	0.8 - 2.0	1.20 ± 0.13 (14)	1.11 ± 0.10 (4)	0.87 ± 0.12 (3)	---	---
Pd	ppb	---	<2. (1)	---	---	---	---	---	---	---
Pr	ppb	---	<60 (1)	---	---	---	---	---	---	---
Rb	ppm	12.1 ± 0.2	12 ± 3 (5)	11.5	10 - 39	---	---	---	12 ± 3 (5)	---

[a]Only two analysts reporting.

[b]Only one analyst reporting.

TABLE 5 (cont)

ELEMENTAL CONCENTRATIONS IN NBS SRM 1570: SPINACH

Element	Units	NBS (1976)	Literature							
						Individual $\bar{x} \pm s$ by Analytical Technique				
			$\bar{x} \pm s$ (n)	Median	Range	AA	ASV	ICPES	NAA	XRF
S	ppm	---	2400 (1)	---	---	---	---	---	---	---
Sb	ppb	40	40 ± 10 (6)	41	14 - 690	---	---	---	40 ± 10 (6)	
Sc	ppb	160	168 ± 11 (7)	170	150 - 470	---	--	---	169 ± 11 (7)	---
Se	ppb	---	40 ± 14 (9)	38	24 - 510	34 (2)	---	---	48 ± 19 (4)	---
Sm	ppb	---	104 ± 86 (3)	---	33 - 200	---	---	---	100 ± 90 (3)	---
Sn	ppm	---	3.1 (1)	---	---	---	---	---	---	---
Sr	ppm	87 ± 2	120 ± 70 (3)	---	79 - 208	---	---	---	---	---
Ta	ppb	---	230 (1)	---	---	---	---	---	---	---
Th	ppb	120 ± 30	130 (2)	---	110 - 150	---	---	---	---	---
Ti	ppm	---	16 (1)	---	---	---	---	---	---	---
Tl	ppb	30	31 (1)	---	---	---	---	---	---	---
U	ppb	46 ± 9	44 (2)	---	42 - 45	---	---	---	---	---
V	ppm	---	1.18 ± 0.11 (6)	1.16	1.06 - 1.70	---	---	---	1.3 ± 0.3 (4)	---
W	ppb	---	140 (1)	---	---	---	---	---	---	---
Yb	ppb	---	2.0 (1)	---	---	---	---	---	---	---
Zn	ppm	50 ± 2	50 ± 4 (29)	50	42 - 119	57 ± 10 (5)	---	49 ± 3 (7)	49 ± 5 (7)	77 ± 36 (3)

TABLE 6

ELEMENTAL CONCENTRATIONS IN NBS SRM 1571: ORCHARD LEAVES

Element	Units	NBS (1977)	Literature			Individual $\bar{x} \pm s$ by Analytical Technique							
			$\bar{x} \pm s$ (n)	Median	Range	AA	ICPES	NAA	OES	PAA	XRF	Others	
Ag	ppb	---	210 ± 350 (3)	---	13 - 620	---	---	---	---	---	---	---	---
Al	ppm	---	320 ± 110 (41)	347	99 - 824	---	230 ± 110 (5)	390 ± 60 (19)	200 ± 60 (10)	---	---	---	---
As	ppm	10 ± 2	10.7 ± 1.2 (125)	10.5	1.10 - 38	10.7 ± 1.2 (34)	10.4 ± 1.6 (8)	10.7 ± 1.2 (59)	---	10.1 ± 1.2 (5)	12.1 ± 2.2 (8)	10.9 ± 1.7 (4) COLOR	12 ± 6 (4) CPXRF
As (III)	ppm	---	4.9 (1)	---	---	---	---	---	---	---	---	---	---
Au	ppb	---	1.4 ± 0.4 (13)	1.5	0.78 - 3.5	---	---	1.4 ± 0.4 (3)	---	---	---	---	---
B	ppm	33 ± 3	33 ± 4 (29)	32.9	16 - 40	---	33 ± 5 (6)	---	32 ± 5 (11)	---	---	35.3 ± 1.5 (4) CPAA	33.1 ± 0.3 (3) TCGS
Ba	ppm	44	43 ± 5 (29)	43	0.3 - 80	---	45 ± 6 (3)[a]	42 ± 9 (21)	44 ± 5 (5)	---	---	---	---
Be	ppb	27 ± 10	24 ± 10 (3)	30	13.7 - 110	---	---	---	---	---	---	---	---
Bi	ppb	100	92 ± 36 (4)	110	4 - 64000	---	---	---	---	---	---	110 (3)[b] POL	---
Br	ppm	10	9.5 ± 1.1 (46)	9.4	5.0 - 34	---	---	9.7 ± 1.1 (37)	---	---	8.2 ± 1.3 (9)	---	---
C	%	---	46.2 ± 0.5 (5)	46.2	45.76 - 52.0	---	---	---	---	---	---	46.0 ± 0.3 (3) CB	46.5 (2) TCGS
Ca	%	2.09 ± 0.03	2.04 ± 0.11 (72)	2.04	1.58 - 5.01	2.04 ± 0.05 (7)	2.04 ± 0.07 (10)	2.03 ± 0.13 (22)	2.01 ± 0.22 (12)	2.06 ± 0.11 (4)	2.02 ± 0.09 (9)	1.99 (2) CPXRF	---
Cd	ppb	110 ± 10	118 ± 24 (57)	110	70 - 2000	119 ± 30 (35)	162 ± 29 (5)	122 ± 31 (13)	---	---	---	129 ± 35 (3) AF	100 (1) ASV
Ce	ppm	---	0.94 ± 0.09 (11)	0.97	0.75 - 1.2	---	---	0.92 ± 0.08 (10)	---	---	---	---	---
Cl	ppm	690	730 ± 40 (31)	730	53 - 950	---	---	730 ± 40 (19)	---	710 ± 20 (3)	780 ± 20 (3)	---	---
Co	ppb	200	160 ± 40 (38)	180	100 - 460	180 ± 70 (5)	---	170 ± 50 (35)	---	---	---	---	---
Cr	ppm	2.6 ± 0.3	2.5 ± 0.3 (67)	2.6	1.07 - 5.81	2.5 ± 0.3 (15)	2.6 ± 0.6 (7)	2.6 ± 0.4 (38)	---	---	---	---	---
Cs	ppb	40	35 ± 8 (13)	38	20 - 150	---	---	38 ± 15 (13)	---	---	---	---	---
Cu	ppm	12 ± 1	12.1 ± 1.4 (113)	12	3.6 - 35	11.9 ± 0.7 (30)	11.8 ± 0.6 (12)	11.9 ± 1.6 (29)	14.8 ± 2.4 (12)	---	11.7 ± 2.8 (14)	11.9 (1) ASV	11.8 ± 0.8 (3) POL[a] 13.0 ± 3 (5) CPXRF
Dy	ppb	---	80 (2)	---	53 - 110	---	---	---	---	---	---	---	---
Er	ppb	---	30 (1)	---	---	---	---	---	---	---	---	---	---
Eu	ppb	---	23 ± 3 (13)	23	20 - 300	---	---	24 ± 3 (14)	---	---	---	---	---
F	ppm	4	3.9 ± 0.5 (9)	3.94	3.12 - 10	---	---	---	---	---	---	3.41 (2) COLOR	4.1 ± 0.02 (5) ISE
Fe	ppm	300 ± 20	284 ± 28 (109)	289	121 - 884	270 ± 30 (17)	280 ± 20 (14)	290 ± 20 (37)	230 ± 50 (12)	320 ± 20 (3)	290 ± 30 (16)	280 ± 20 (5) COLOR	312. (3) POL[a] 300 ± 130 (4) CPXRF
Ga	ppb	80	88 ± 9 (4)	---	78 - 100	---	---	88 ± 9 (4)	---	---	---	---	---
Gd	ppb	---	67 ± 56 (3)	---	1.6 - 100	---	---	---	---	---	---	---	---
Ge	ppb	---	150 (1)	---	---	---	---	---	---	---	---	---	---
H	%	---	5.84 ± 0.26 (5)	5.91	5.54 - 6.10	---	---	---	---	---	---	---	---
Hf	ppb	---	26 ± 9 (5)	27	13 - 37	---	---	26 ± 9 (5)	---	---	---	---	---
Hg	ppb	155 ± 15	155 ± 15 (72)	157	110 - 305	154 ± 13 (30)	---	162 ± 22 (41)	---	---	---	133 (2) IDMS	---
Ho	ppb	---	16 (2)	---	13 - 20	---	---	---	---	---	---	---	---
I	ppb	170	165 ± 40 (9)	173	100 - 220	---	---	184 ± 21 (7)	---	---	---	---	---
I-129	fCi/g	---	0.006 (1)	---	---	---	---	---	---	---	---	---	---
In	ppb	---	1.5 ± 0.3 (3)	---	1.23 - 1.80	---	---	1.5 ± 0.3 (3)	---	---	---	---	---
Ir	ppb	---	15 (1)	---	---	---	---	---	---	---	---	---	---
K	%	1.47 ± 0.03	1.45 ± 0.07 (67)	1.45	1.05 - 3.89	1.41 ± 0.05 (7)	1.48 ± 0.05 (6)	1.45 ± 0.05 (29)	1.38 ± 0.16 (12)	---	1.57 ± 0.14 (9)	---	---
La	ppm	---	1.11 ± 0.13 (21)	1.15	0.70 - 1.96	---	---	1.07 ± 0.16 (19)	---	---	---	---	---
Li	ppb	600	710 ± 120 (3)	770	510 - 13700	---	---	---	---	---	---	---	---
Lu	ppb	---	4 ± 4 (5)	3.3	0.61 - 10	---	---	2.8 ± 2.2 (5)	---	---	---	---	---
Mg	ppm	6200 ± 200	6100 ± 400 (52)	6100	4900 - 7830	5800 ± 300 (8)	6000 ± 400 (10)	6200 ± 400 (17)	6400 ± 400 (12)	6120 ± 30 (4)	---	---	---
Mn	ppm	91 ± 4	89 ± 6 (97)	89	23.1 - 242	88 ± 5 (16)	86 ± 3 (11)	89 ± 7 (35)	89 ± 20 (11)	94 ± 3 (5)	85 ± 17 (16)	91 ± 7 (4) CPXRF	---
Mo	ppb	300 ± 100	280 ± 70 (15)	320	110 - 15200	---	200 ± 60 (5)[a]	290 ± 40 (8)	7000 ± 5000 (6)	---	---	---	---
N	%	2.76 ± 0.05	2.72 ± 0.05 (16)	2.71	2.59 - 2.81	---	---	---	---	---	---	2.73 ± 0.02 (6)[a]	---
N-15	A%	---	0.367 (1)	---	---	---	---	---	---	---	---	---	---
Na	ppm	82 ± 6	88 ± 14 (37)	86	40 - 524	---	---	87 ± 12 (26)	190 ± 170 (8)	84 ± 4 (3)[a]	---	---	---
Nb	ppb	---	<300 (1)	---	---	---	---	---	---	---	---	---	---
Nd	ppb	---	460 ± 130 (3)	---	320 - 570	---	---	490 ± 140 (3)[a]	---	---	---	---	---
Ni	ppm	1.3 ± 0.2	1.3 ± 0.2 (42)	1.31	0.7 - 4.3	1.6 ± 0.9 (10)	1.5 ± 0.4 (6)	1.4 ± 0.3 (10)	---	1.4 ± 0.1 (3)	1.3 ± 0.1 (5)	1.3 ± 0.1 (3) COLOR	1.4 (3) POL 2.1 ± 1.2 (3) CPXRF
P	ppm	2100 ± 100	2030 ± 140 (40)	2000	1400 - 3100	2040 ± 90 (6)	1980 ± 100 (10)	2050 ± 50 (5)	1900 ± 300 (10)	---	---	1900 ± 100 (3) COLOR	2120 ± 50 (4) NM
Pb	ppm	45 ± 3	45 ± 3 (84)	45	15 - 115	45 ± 3 (41)	44 ± 2 (9)	43 ± 2 (5)	---	46 ± 4 (5)	46 ± 4 (10)	46 ± 1 (4) ASV	44 ± 1 (6) POL
Pd	ppb	---	<1 (1)	---	---	---	---	---	---	---	---	---	---
Pr	ppb	---	130 ± 90 (3)	---	60 - 230	---	---	190 ± 70 (3)[a]	---	---	---	---	---
Pt	ppb	---	650 (2)	---	89 - 1200	---	---	11.2 ± 0.8 (33)	---	12.7 ± 0.3 (3)	11.0 ± 0.6 (10)	12 ± 2 (4) CPXRF	---
Rb	ppm	12 ± 1	11.2 ± 0.9 (60)	11.28	5.0 - 30	---	---	---	---	---	---	---	---
S	ppm	1900	2100 ± 300 (14)	2140	1400 - 7020	---	---	---	---	---	2200 ± 300 (5)	---	---
Sb	ppm	2.9 ± 0.3	2.9 ± 0.2 (54)	2.87	1.1 - 5.1	2.9 ± 0.4 (11)	2.6 ± 0.3 (3)	2.9 ± 0.3 (4)	---	3.3 ± 0.2 (4)	---	---	---
Sc	ppb	---	61 ± 14 (22)	65	40 - 220	---	---	62 ± 14 (21)	---	---	---	---	---
Se	ppb	80 ± 10	81 ± 11 (76)	80	24 - 1100	79 ± 25 (17)	---	84 ± 14 (43)	---	---	---	84 ± 5 (9) FLUOR	77 ± 1 (3) GC[a]
Si	ppm	---	550 ± 110 (6)	550	476 - 2340	---	---	640 ± 230 (5)	---	---	---	---	---
Sm	ppb	---	113 ± 20 (16)	102	16 - 320	---	---	112 ± 18 (14)	---	---	---	---	---
Sn	ppb	---	300 ± 70 (6)	304	180 - 4100	---	---	---	---	---	---	---	---
Sr	ppm	37 ± 1	37 ± 4 (39)	36.5	14.5 - 118	---	36 ± 1 (5)	38 ± 4 (13)	34 ± 11 (3)	34 ± 4 (4)	36 ± 3 (9)	35 ± 3 (3) CPXRF	---
Ta	ppb	---	8 ± 2 (4)	---	5 - 10	---	---	8 ± 2 (4)	---	---	---	---	---
Tb	ppb	---	14 ± 3 (6)	13	1.23 - 80	---	---	13 ± 3 (7)	---	---	---	---	---
Te	ppb	10	11 (1)	---	---	---	---	---	---	---	---	---	---
Th	ppb	64 ± 6	55 ± 8 (9)	56	6.6 - 90	---	---	55 ± 8 (9)	---	---	---	---	---
Ti	ppm	---	24 ± 9 (7)	26	2.4 - 191	---	---	70 ± 70 (5)	---	---	---	---	---
Tl	ppb	---	190 ± 110 (3)	---	74 - 300	---	---	---	---	---	---	---	---
Tm	ppb	---	7 (2)	---	3.7 - 10	---	---	---	---	---	---	---	---
U	ppb	29 ± 5	29 ± 2 (17)	29	18 - 56	---	---	28 ± 4 (13)	---	28 ± 3 (3)[b]	---	30 (1) IDMS	---
V	ppb	---	510 ± 110 (34)	530	140 - 2200	---	---	520 ± 120 (28)	---	---	---	---	---
W	ppb	---	18 (2)	---	16 - 20	---	---	---	---	---	---	---	---
Y	ppb	---	480 (1)	---	---	---	---	---	---	---	---	---	---
Yb	ppb	---	25 ± 9 (7)	25	11 - 40	---	---	26 ± 9 (7)	---	---	---	---	---
Zn	ppm	25 ± 3	25.7 ± 2.4 (135)	25.9	12 - 81	26 ± 2 (32)	25 ± 2 (16)	26 ± 2 (42)	26 ± 7 (12)	28 ± 4 (7)	25 ± 7 (17)	30 ± 16 (5) CPXRF	---
Zr	ppm	---	2.4 ± 1.0 (5)	2.6	1.3 - 210	---	---	---	---	---	---	---	---

[a]Only two analysts reporting.
[b]Only one analyst reporting.

TABLE 7

ELEMENTAL CONCENTRATIONS IN NBS SRM 1573: TOMATO LEAVES

			Literature			Individual $\bar{x} \pm s$ by Analytical Techniques						
Element	Units	NBS (1976)	$\bar{x} \pm s(n)$	Median	Range	AA	ICPES	NAA	OES	XRF	Others	
Ag	ppb	---	180 (1)	---	---	---	---	---	---	---	---	---
Al	ppm	1200	620 ± 440 (14)	390	182 - 1300	---	1170 (1)	1270 ± 40 (3)	320 ± 100 (9)	---	---	---
As	ppb	270 ± 50	260 ± 30 (17)	260	118 - 330	260 ± 40 (12)	---	250 ± 50 (5)	---	---	---	---
Au	ppb	---	0.8 (1)	---	---	---	---	---	---	---	---	---
B	ppm	30	32 ± 4 (13)	32	25 - 42	---	25.5 (1)	---	33 ± 5 (11)	---	34 (2) TCQS	---
Ba	ppm	---	55 ± 9 (8)	57	40 - 69	---	---	63 ± 6 (3)	51 ± 8 (5)	---	---	---
Br	ppm	26	21 ± 2 (8)	21	19 - 54	---	---	---	---	---	---	---
C	%	---	37.8 (2)	---	37.67 - 37.92	---	---	---	---	---	---	---
Ca	%	3.00 ± 0.03	2.83 ± 0.31 (23)	2.88	2.22 - 5.82	---	3.12 ± 0.17 (5)[a]	2.8 ± 0.5 (5)	2.7 ± 0.3 (11)	3.8 ± 1.8 (3)[a]	---	---
Cd	ppm	3	2.5 ± 0.2 (20)	2.5	1.6 - 3.3	2.5 ± 0.3 (10)	2.7 ± 0.4 (5)[a]	2.70 (1)	---	---	2.65 ± 0.13 (3) ASV	---
Ce	ppm	1.6	1.0 (1)	---	---	---	---	---	---	---	---	---
Cl	%	---	1.07 ± 0.03 (4)	---	1.04 - 1.10	---	---	1.07 ± 0.03 (4)	---	---	---	---
Co	ppb	600	530 ± 90 (8)	520	400 - 680	520 ± 30 (3)	---	540 ± 110 (5)	---	---	---	---
Cr	ppm	4.5 ± 0.5	3.9 ± 0.5 (11)	3.9	2.3 - 5.8	4.0 ± 0.5 (6)	4.0 ± 1.8 (3)[a]	3.8 ± 0.6 (4)	---	---	---	---
Cs	ppb	---	51 ± 7 (3)	---	43 - 140	---	---	73 ± 45 (4)	---	---	---	---
Cu	ppm	11 ± 1	12 ± 2 (33)	11	3.0 - 25	11.9 ± 0.8 (7)	9.7 ± 0.9 (5)[a]	11.6 ± 2.3 (5)	14 ± 3 (11)	---	---	---
Eu	ppb	40	32 ± 21 (3)	---	15 - 55	---	---	32 ± 21 (3)	---	---	---	---
F	ppm	---	5.6 ± 0.5 (3)	---	5.0 - 6.0	---	---	---	---	---	---	---
Fe	ppm	690 ± 25	550 ± 140 (31)	572	55 - 1170	490 ± 190 (5)	620 ± 60 (6)	640 ± 100 (7)	340 ± 150 (11)	880 ± 280 (3)[a]	592 ± 15 (3)[b] COLOR	698 (1) VOLT
Fe (II)	ppm	---	540 (1)	---	---	---	---	---	---	---	---	---
Fe (III)	ppm	---	158 (1)	---	---	---	---	---	---	---	---	---
Ga	ppb	---	69 (1)	---	---	---	---	---	---	---	---	---
H	%	---	5.08 ± 0.07 (3)	---	5.0 - 5.14	---	---	---	---	---	---	---
Hg	ppb	100	103 ± 22 (3)	---	90 - 128	---	---	---	---	---	---	---
I	ppb	---	320 ± 60 (3)	---	280 - 390	---	---	---	---	---	---	---

[a]Only two analysts reporting.
[b]Only one analyst reporting.

TABLE 7 (cont)

Element	Units	NBS (1976)	Literature			Individual $\bar{x} \pm s$ by Analytical Techniques						
			$\bar{x} \pm s(n)$	Median	Range	AA	ICPES	NAA	OES	XRF	Others	
In	ppb	---	0.96 (1)	---	---	---	---	---	---	---	---	---
K	%	4.46 ± 0.03	4.38 ± 0.29 (24)	4.47	3.00 - 9.24	4.35 ± 0.28 (4)	4.44 ± 0.11 (5)[a]	4.38 ± 0.15 (4)	4.3 ± 0.4 (10)	6.4 ± 2.5 (3)[a]	---	---
La	ppb	900	640 ± 210 (4)	---	346 - 800	---	---	640 ± 210 (4)	---	---	---	---
Lu	ppb	---	12 (1)	---	---	---	---	---	---	---	---	---
Mg	ppm	7000	6800 ± 400 (19)	6900	6000 - 7800	6700 (2)[b]	6700 ± 400[a]	6650 (2)	7000 ± 500 (11)	---	---	---
Mn	ppm	238 ± 7	218 ± 16 (27)	221	138 - 414	217 ± 4 (5)	225 ± 7 (5)	226 ± 25 (6)	215 ± 22 (10)	300 ± 100 (3)[a]	---	---
Mo	ppb	---	530 ± 90 (6)	1700	400 - 17900	---	480 ± 50 (4)[b]	635 (2)	9000 ± 6000 (6)	---	---	---
N	%	5.0	4.93 ± 0.03 (3)	---	4.90 - 4.95	---	---	---	---	---	---	---
Na	ppm	---	580 ± 170 (14)	570	350 - 1600	---	---	490 ± 30 (4)	640 ± 210 (8)	---	---	---
Nd	ppb	---	700 (1)	---	---	---	---	---	---	---	---	---
Ni	ppm	---	1.17 ± 0.08 (5)	1.12	0.3 - 5.9	---	2 ± 2 (5)[a]	---	---	---	---	---
P	ppm	3400 ± 200	3400 ± 200 (21)	3400	2400 - 5000	3350 ± 130 (4)[a]	3470 ± 120 (7)	3420 (1)	3200 ± 400 (10)	---	---	---
Pb	ppm	6.3 ± 0.3	5.8 ± 0.7 (30)	5.85	3.2 - 15	5.9 ± 0.4 (21)	5.9 ± 2.1 (3)[a]	---	---	---	5.5 ± 1.1 (4) ASV	---
Pr	ppb	---	190 (1)	---	---	---	---	---	---	---	---	---
Rb	ppm	16.5 ± 0.1	17 ± 3 (5)	16.4	15.2 - 40	---	---	17 ± 3 (5)	---	---	---	---
Sb	ppb	---	34 ± 5 (4)	34	30 - 120	---	---	55 ± 44 (4)	---	---	---	---
Sc	ppb	130	180 ± 30 (5)	170	138 - 220	---	---	180 ± 30 (5)	---	---	---	---
Se	ppb	---	60 ± 14 (5)	57	49 - 84	---	---	61 ± 20 (3)	---	---	---	---
Sm	ppb	---	155 (2)	---	110 - 200	---	---	---	---	---	---	---
Sr	ppm	44.9 ± 0.3	46 ± 12 (6)	45	36 - 102	---	---	55 (2)	43 ± 9 (3)	---	---	---
Ta	ppb	---	430 (1)	---	---	---	---	---	---	---	---	---
Tb	ppb	---	4 (1)	---	---	---	---	---	---	---	---	---
Th	ppb	170 ± 30	205 (2)	---	190 - 220	---	---	---	---	---	---	---
Ti	ppm	---	68 (1)	---	---	---	---	---	---	---	---	---
Tl	ppm	50	---	---	---	---	---	---	---	---	---	---
U	ppb	61 ± 3	56 ± 6 (3)	54	20 - 63	---	---	47 ± 19 (4)	---	---	---	---
V	ppm	---	1.30 ± 0.10 (4)	---	1.19 - 1.42	---	---	---	---	---	---	---
W	ppb	---	<40 (1)	---	---	---	---	---	---	---	---	---
Yb	ppb	--	80 (1)	---	---	---	---	---	---	---	---	---
Zn	ppm	62 ± 6	61 ± 5 (30)	62	26 - 124	63 ± 3 (6)	59 ± 4 (9)[a]	59 ± 4 (4)	62 ± 11 (10)	91 ± 28 (3)[a]	---	---

TABLE 8

ELEMENTAL CONCENTRATIONS IN NBS SRM 1575: PINE NEEDLES

			Literature							
						Individual Means by Analytical Technique				
Element	Units	NBS (1976)	x ± s (n)	Median	Range	AA	ICPES	NAA	OES	Others
Ag	ppb	—	150 (1)	—	—	—	—	—	—	—
Al	ppm	545 ± 30	520 ± 70 (11)	521	255 - 1243	—	—	640 ± 100 (3)	420 ± 100 (8)	—
As	ppb	210 ± 40	200 ± 30 (15)	200	150 - 240	200 ± 30 (8)	—	200 ± 30 (6)	—	—
Au	ppb	—	0.6 (2)	—	0.3 - 0.9	—	—	—	—	—
B	ppm	—	17 ± 3 (14)	16.6	13 - 20	—	—	—	17 ± 3 (10)	16.6 (2) TCGS
Ba	ppm	—	6.2 ± 1.7 (6)	6.6	3 - 8	—	—	6.1 (1)	6.2 ± 1.9 (5)	—
Br	ppm	9	6.6 ± 0.8 (8)	6.43	5.4 - 30	—	—	6.8 ± 0.7 (7)	—	—
C	%	—	51.4 ± 1.8 (4)	—	50.37 - 54.0	—	—	—	—	50.49 ± 0.18 (3)[a]
Ca	ppm	4100 ± 200	4200 ± 400 (18)	4100	3100 - 13100	—	4100 ± 100 (5)[a]	4000 ± 800 (3)	4200 ± 600 (10)	—
Cd	ppb	<500	220 ± 60 (13)	210	140 - 310	250 ± 50 (6)	210 ± 70 (5)[a]	193. (2)	—	—
Ce	ppb	400	150 (1)	—	—	—	—	—	—	—
Cl	ppm	—	400 ± 160 (4)	—	243 - 551	—	—	360 ± 170 (3)	—	—
Co	ppb	100	121 ± 13 (4)	130	110 - 340	—	—	180 ± 110 (4)	—	—
Cr	ppm	2.6 ± 0.2	2.6 ± 0.3 (9)	2.6	1.3 - 3.9	2.4 ± 0.3 (4)[b]	2.5 ± 0.8 (4)	3.0 ± 0.8 (3)	—	—
Cs	ppb	—	120 ± 27 (4)	—	101 - 160	—	—	120 ± 27 (4)	—	—
Cu	ppm	3.0 ± 0.3	3.3 ± 0.8 (26)	3.2	0.7 - 53	3.3 ± 0.2 (6)	3.0 ± 0.6 (6)	—	5.4 ± 2.8 (10)	2.91 ± 0.02 (3) COLOR
Eu	ppb	6	6.2 (2)	—	6.0 - 6.5	—	—	—	—	—
F	ppm	—	3.0 ± 0.6 (3)	—	2.5 - 3.7	—	—	—	—	—
Fe	ppm	200 ± 10	180 ± 27 (25)	185	47 - 790	320 ± 240 (3)[a]	189 ± 11 (7)	200 ± 40 (5)	160 ± 70 (10)	181 ± 12 (3)[b] COLOR
H	%	—	6.48 ± 0.08 (3)	—	6.39 - 6.54	—	—	—	—	—
Hf	ppb	—	10 (1)	—	—	—	—	—	—	—
Hg	ppb	150 ± 50	144 ± 16 (5)	147	121 - 160	146 ± 12 (3)	—	141 (2)	—	—
I	ppb	—	145 (2)	—	140 - 150	—	—	—	—	—
K	ppm	3700 ± 200	3600 ± 300 (15)	3700	2700 - 9100	—	3600 ± 200 (3)	3800 ± 200 (3)	4400 ± 1200 (9)	—
La	ppb	200	160 ± 40 (3)	—	130 - 210	—	—	160 ± 40 (3)	—	—
Lu	ppb	—	1.3 (1)	—	—	—	—	—	—	—
Mg	ppm	—	1250 ± 170 (16)	1200	900 - 2200	—	1170 ± 40 (5)[a]	1350 (2)	1300 ± 200 (10)	

[a]Only two analysts reporting.
[b]Only one analyst reporting.

TABLE 8 (cont)

Element	Units	NBS (1976)	Literature			Individual Means by Analytical Technique				
			x ± s (n)	Median	Range	AA	ICPES	NAA	OES	Others
Mn	ppm	675 ± 15	668 ± 38 (19)	669	430 - 2200	680 ± 7 (6)	657 ± 7 (6)	682 ± 20 (3)	610 ± 140 (9)	---
Mo	ppb	---	0.8 ± 0.9 (8)	800	100 - 18500	---	160 ± 50 (4)	100 (1)	5600 ± 7300 (5)	---
N	%	1.2	1.20 ± 0.10 (3)	---	1.11 - 1.30	---	---	---	---	---
Na	ppm	---	55 ± 32 (10)	70	18 - 190	---	---	46 ± 23 (3)	59 ± 36 (7)	---
Nd	ppb	---	200 (1)	---	---	---	---	---	---	---
Ni	ppm	3.5	2.3 ± 0.2 (9)	2.34	2.1 - 4.0	---	2.24 ± 0.12 5[a]	2.25 (2)	---	---
P	ppm	1200 ± 200	1220 ± 150 (17)	1190	1000 - 2100	---	1180 ± 50 (7)	---	1350 ± 250 (9)	---
Pb	ppm	10.8 ± 0.5	10.7 ± 0.5 (19)	11	7.4 - 33	10.8 ± 0.4 (4)	10.1 ± 0.8 (3)[a]	---	---	10.7 (2) ASV
Pd	ppb	---	<2 (1)	---	---	---	---	---	---	---
Pr	ppb	---	<70 (1)	---	---	---	---	---	---	---
Rb	ppm	11.7 ± 0.1	12.2 ± 0.9 (4)	---	11 - 35	---	---	11.9 ± 0.8 (3)	---	---
S	ppm	---	1040 (2)	---	580 - 1500	---	---	---	---	---
Sb	ppb	200	195 ± 16 (8)	190	180 - 1140	184 (2)	---	199 ± 17 (6)	---	---
Sc	ppb	30	41 ± 13 (3)	---	27 - 130	---	---	63 ± 46 (4)	---	---
Se	ppb	---	47 ± 5 (5)	47	43 - 96	---	---	61 ± 24 (4)	---	---
Si	ppm	---	248 (1)	---	---	---	---	---	---	---
Sm	ppb	---	75 (2)	---	20 - 130	---	---	---	---	---
Sr	ppm	4.8 ± 0.2	6 ± 2 (5)	5.2	4.7 - 20	---	---	---	12 ± 8 (3)	---
Ta	ppm	---	1.74 (1)	---	---	---	---	---	---	---
Tb	ppb	---	60 (1)	---	---	---	---	---	---	---
Th	ppb	37 ± 3	34 (2)	---	34 - 35	---	---	---	---	---
Tl	ppb	50	---	---	---	---	---	---	---	---
U	ppb	20 ± 4	15 ± 2 (4)	15	13 - 20	---	---	15 ± 2 (4)	---	---
V	ppb	---	400 ± 50 (4)	---	346 - 470	---	---	---	---	---
W	ppb	---	50 (1)	---	---	---	---	---	---	---
Zn	ppm	---	67 ± 9 (25)	66.5	5 - 141	---	---	58 ± 6 (4)	74 ± 10 (10)	---

TABLE 9

ELEMENTAL CONCENTRATIONS IN NBS SRM 1577: BOVINE LIVER (OLDER)

			Literature									
						Individual Means by Analytical Technique						
Element	Units	NBS (1977)	$\bar{x} \pm s$ (n)	Median	Range	AA	CPXRF	ICPES	NAA	XRF	Others	
Ag	ppb	60	51 ± 11 (11)	66	5 - 2000	66 (2)	---	---	64 ± 16 (9)	---	---	---
Al	ppm	---	17 ± 12 (14)	18	1.8 - 65	---	---	6.8 ± 1.6 (4)	21 ± 15 (12)	---	---	---
As	ppb	55 ± 5	53 ± 40 (45)	55	23 - 600	47 ± 9 (11)	360 ± 210 (3)[a]	---	56 ± 8 (24)	---	615 (2) ASV	---
Au	ppb	---	4.9 ± 2.3 (4)	5.6	0.23 - 29	---	---	---	8 ± 11 (6)	---	---	---
B	ppm	---	2.9 ± 0.8 (4)	---	2.24 - 4.0	---	---	---	---	---	---	---
Ba	ppm	---	1.0 ± 1.3 (5)	---	0.12 - 2.9	---	---	---	1.6 ± 1.4 (3)	---	---	---
Be	ppb	17	8 ± 8 (3)	---	3 - 17	---	---	---	---	---	---	---
Br	ppm	---	9.1 ± 1.2 (37)	9.0	4.3 - 22	---	8.7 ± 2.2 (8)	---	9.2 ± 1.1 (25)	8.6 ± 0.8 (4)	---	---
C	%	---	50.6 ± 1.1 (4)	---	49.6 - 52.0	---	---	---	---	---	---	---
Ca	ppm	124 ± 6	117 ± 14 (39)	120	30 - 309	114 ± 12 (9)	118 ± 23 (6)	125 ± 8 (10)	116 ± 16 (12)	---	---	---
Cd	ppb	270 ± 40	282 ± 20 (79)	288	210 - 560	280 ± 50 (42)	---	350 ± 50 (3)[a]	284 ± 18 (20)	---	270 ± 40 (5) ASV	---
Ce	ppb	---	24 ± 13 (5)	22	13 - 46	---	---	---	27 ± 13 (4)	---	---	---
Cl	ppm	2700	2690 ± 180 (27)	2640	1880 - 11663	---	---	---	2660 ± 120 (18)	---	---	---
Co	ppb	180	250 ± 60 (61)	240	120 - 410	240 ± 40 (6)	---	---	230 ± 40 (40)	---	---	---
Cr	ppb	88 ± 12	230 ± 370 (53)	150	5 - 61000	94 ± 50 (9)	---	200 ± 190 (4)[a]	140 ± 60 (27)	---	---	---
Cs	ppb	---	14.8 ± 2.3 (12)	16	11 - 130	---	---	---	17 ± 7 (12)	---	---	---
Cu	ppm	193 ± 10	190 ± 10 (114)	190	93 - 394	189 ± 14 (34)	197 ± 25 (13)	191 ± 9 (13)	188 ± 12 (38)	182 ± 11 (5)	204 ± 13 (3)[a] ASV	---
Dy	ppb	---	2.4 (1)	---	---	---	---	---	---	---	---	---
Er	ppb	---	0.5 (1)	---	---	---	---	---	---	---	---	---
Eu	ppb	---	0.98 ± 1.3 (4)	---	0.23 - 310	---	---	---	0.31 ± 0.07 (3)[a]	---	---	---
F	ppb	---	80 (2)	---	40 - 120	---	---	---	---	---	---	---
Fe	ppm	268 ± 8	253 ± 16 (96)	265	110 - 1433	257 ± 22 (18)	270 ± 16 (11)	260 ± 11 (17)	266 ± 19 (36)	262 ± 15 (4)	---	---
Ga	ppb	---	550 (2)	---	4 - 1100	---	---	---	---	---	---	---
Gd	ppb	---	2.1 (2)	---	1.8 - 2.4	---	---	---	---	---	---	---
H	%	---	6.97 ± 0.16 (3)	---	6.8 - 7.12	---	---	---	---	---	---	---
Hf	ppb	---	4 (2)	---	1.0 - 7.3	---	---	---	---	---	---	---

[a]Only two analysts reporting.
[b]Only one analyst reporting.

TABLE 9 (cont)

Element	Units	NBS (1977)	Literature $\bar{x} \pm s$ (n)	Literature Median	Literature Range	Individual Means by Analytical Technique: AA	CPXRF	ICPES	NAA	XRF	Others	
Hg	ppb	15 ± 2	16.2 ± 1.5 (37)	16.1	13.7 - 200	16 ± 2 (16)	---	---	18 ± 7 (23)	---	---	---
Ho	ppb	--	0.22 (2)	---	0.20 - 0.25	---	---	---	---	---	---	---
I	ppb	180	235 ± 32 (9)	246	180 - 280	---	---	---	235 ± 32 (9)	---	---	---
In	ppb	50	0.07 (2)	---	0.05 - 0.09	---	---	---	---	---	---	---
K	%	0.97 ± 0.06	0.97 ± 0.08 (48)	0.964	0.50 - 1.18	0.993 ± 0.024 (4)	0.93 ± 0.12 (8)	---	0.98 ± 0.09 (23)	---	---	---
La	ppb	--	16 ± 3 (8)	17.2	10 - 72	---	---	---	17 ± 4 (9)	---	---	---
									68 ± 5 (3)	---	---	---
Lu	ppb	---	0.039 (2)	---	0.039	---	---	---	---	---	---	---
Mg	ppm	604 ± 9	610 ± 40 (35)	601	290 - 1040	591 ± 16 (12)	---	620 ± 50 (9)	670 ± 100 (11)	---	---	---
Mn	ppm	10.1 ± 1.0	10.1 ± 0.6 (96)	10.2	5.1 - 19	10.3 ± 0.6 (30)	9.5 ± 1.1 (8)	9.9 ± 0.4 (11)	10.2 ± 0.5 (32)	12 ± 4 (5)	---	---
Mo	ppm	3.4	3.2 ± 0.4 (45)	3.3	2.0 - 5.8	4.1 ± 1.5 (3)	3.3 ± 0.6 (6)	3.1 ± 0.8 (4)	3.3 ± 0.3 (30)	---	---	---
N	%	10.6 ± 0.6	10.5 ± 0.2 (5)	10.59	10.31 - 10.82	---	---	---	---	---	---	---
Na	ppm	2430 ± 130	2400 ± 200 (43)	2370	1019 - 3100	2430 ± 90 (4)	---	---	2320 ± 250 (27)	---	---	---
Nd	ppb	--	64 ± 91 (3)	---	9 - 170	---	---	---	---	---	---	---
Ni	ppb	--	160 ± 80 (9)	145	50 - 1300	320 ± 460 (4)	870 ± 380 (3)	---	370 ± 340 (6)	---	---	---
P	%	0.1	1.07 ± 0.09 (12)	1.10	0.31 - 1.35	---	---	1.09 ± 0.10 (7)	1.0 ± 0.3 (4)	---	---	---
Pb	ppb	340 ± 80	355 ± 52 (49)	360	240 - 43000	350 ± 60 (31)	---	360 ± 50 (3)[a]	---	---	382 ± 8 (5) ASV 375 (2)[b] POL	331 (2)[b] IDMS
Pr	ppb	--	4.3 (2)	---	4.0 - 4.6	---	---	---	---	---	---	---
Rb	ppm	18.3 ± 1.0	18.4 ± 1.0 (45)	18.7	9.9 - 29	---	17 ± 3 (9)	---	18.3 ± 0.9 (32)	17.3 ± 1.6 (4)	---	---
S	ppm	---	8000 ± 1300 (3)	7200	3300 - 16200	---	---	---	---	---	---	---
Sb	ppb	5	10 ± 6 (19)	14	4.0 - 170	5 (1)	---	---	9 ± 5 (16)	---	---	---
									51 ± 18. (6)			
Sc	ppb	---	0.87 ± 0.29 (6)	1.0	0.4 - 20	---	---	---	1.0 ± 0.2 (5)	---	---	---
Se	ppm	1.1 ± 0.1	1.09 ± 0.08 (138)	1.1	0.23 - 13.4	1.04 ± 0.11 (33)	1.12 ± 0.18 (5)	---	1.10 ± 0.07 (72)	1.20 ± 0.17 (3)	1.10 (2) ASV[b] 1.08 ± 0.12 (7) FLUOR	1.12 ± 0.07 (5) GC 1.11 (2) SSMS
Se (VI)	ppm	---	0.30 (2)	---	0.30 - 0.31	---	---	---	---	---	---	---
Si	ppm	17	16.7 (2)	---	16.7 - 16.8	---	---	---	---	---	---	---
Sm	ppb	---	1.5 ± 0.3 (5)	1.6	1.0 - 35	---	---	---	---	---	---	---
Sn	ppb	---	84 ± 120 (3)	---	10 - 220	---	---	---	1.7 ± 0.6 (6)	---	---	---
									---	---	---	---
Sr	ppm	140	190 ± 70 (4)	220	150 - 2200	---	---	---	---	---	---	---
Ta	ppb	---	3 (1)	---	---	---	---	---	---	---	---	---
Tb	ppb	---	0.8 ± 1.0 (3)	---	0.17 - 2.0	---	---	---	---	---	---	---
Te	ppb	---	90 (1)	---	---	---	---	---	---	---	---	---
Th	ppb	---	6.8 (1)	---	---	---	---	---	---	---	---	---
Ti	ppm	---	1.9 ± 1.0 (4)	---	0.7 - 3.2	---	---	---	---	---	---	---
Tl	ppb	50	48 (1)	---	---	---	---	---	---	---	---	---
Tm	ppb	---	0.12 (2)	---	0.10 - 0.15	---	---	---	---	---	---	---
U	ppb	0.8	1.0 (2)	---	0.99 - 1.0	---	---	---	---	---	---	---
V	ppb	---	58 ± 8 (12)	61	15 - 600	55 (1)	---	250 ± 300 (3)	430 ± 100 (3) 62 ± 3 (7)	---	---	---
W	ppb	---	13 ± 10 (5)	14	5 - 700	---	---	---	---	---	---	---
Y	ppm	---	<1 (1)	---	---	---	---	---	---	---	---	---
Yb	ppb	---	0.35 ± 0.11 (3)	---	0.28 - 830	---	---	---	---	---	---	---
Zn	ppm	130 ± 13	130 ± 7 (145)	129	13 - 200	129 ± 7 (30)	134 ± 16 (13)	132 ± 6 (15)	130 ± 6 (57)	127 ± 11 (5)	94 ± 55 (3)[a] ASV	120 ± 3 (3)[b] POL
Zr	ppm	---	3.7 (2)	---	3.4 - 4.0	---	---	---	---	---	---	---

TABLE 10

ELEMENTAL CONCENTRATIONS IN NBS SRMs 610-616: TRACE ELEMENTS IN GLASS

		610		612		614		616	
Element	Units	NBS (1972)	Literature $\bar{x} \pm s$ (n)	NBS (1972)	Literature $\bar{x} \pm s$ (n)	NBS (1982)	Literature $\bar{x} \pm s$ (n)	NBS (1982)	Literature $\bar{x} \pm s$ (n)
Ag	ppm	254 ± 10	180 (1)	22.0 ± 0.3	31 (1)	0.42 ± 0.04	0.52 (2)	---	---
Al	%	1.05	---	1.05	---	1.05	---	1.05	---
As	ppm	---	305 (1)	---	---	---	---	---	---
Au	ppm	25	20 (1)	5	5 (1)	0.5	0.64 (2)	0.18 ± 0.01	---
B	ppm	351	368 (1)	32	40 (1)	1.3 ± 0.2	---	0.20 ± 0.02	---
Ba	ppm	---	638 (1)	41	---	---	---	---	---
Be	ppm	---	450 (1)	---	31 (1)	---	---	---	---
Bi	ppm	---	405 (1)	---	---	---	---	---	---
Ca	%	8.6	7.64 (1)	8.6	---	8.6	---	8.6	---
Cd	ppm	---	187 (1)	---	---	0.55	---	---	---
Ce	ppm	---	318 (1)	39	37 (1)	---	---	---	---
Co	ppm	390	260 (2)	35.5 ± 1.2	31 (1)	0.73 ± 0.02	0.59 (1)	---	---
Cr	ppm	---	371 (1)	---	---	---	---	---	---
Cu	ppm	444 ± 4	---	37.7 ± 0.9	---	1.37 ± 0.07	1.61 (1)	0.80 ± 0.09	---
Dy	ppm	---	---	35	---	---	---	---	---
Er	ppm	---	---	39	---	---	---	---	---
Eu	ppm	---	---	36	26 (1)	0.99 ± 0.04	1.10 (1)	---	---
Fe	ppm	458 ± 9	---	51 ± 2	---	13.3 ± 1.0	---	11 ± 2	---
Ga	ppm	---	481 (1)	---	---	1.3	---	0.23 ± 0.02	---
Gd	ppm	---	---	39	---	---	---	---	---
Ge	ppm	---	496 (1)	---	---	---	---	---	---
Hf	ppm	---	220 (1)	---	---	---	---	---	---
In	ppm	---	319 (1)	---	---	---	---	---	---
K	ppm	461	---	64	---	30 ± 1	---	29 ± 1	---
La	ppm	---	---	36	35 (1)	0.83 ± 0.02	---	0.034 ± 0.007	---
Li	ppm	---	354 (1)	---	44 (1)	---	---	---	---
Mg	ppm	---	472 (1)	---	---	---	---	---	---
Mn	ppm	485 ± 10	391 (1)	39.6 ± 0.8	---	---	---	---	---

TABLE 10 (cont)

Element	Units	610 NBS (1972)	610 Literature $\bar{x} \pm s$ (n)	612 NBS (1972)	612 Literature $\bar{x} \pm s$ (n)	614 NBS (1982)	614 Literature $\bar{x} \pm s$ (n)	616 NBS (1982)	616 Literature $\bar{x} \pm s$ (n)
Mo	ppm	---	307 (1)	---	---	---	---	---	---
Na	%	10.4	---	10.4	---	10.4	---	10.4	---
Nd	ppm	---	---	36	---	---	---	---	---
Ni	ppm	458.7 ± 4.0	431 (1)	38.8 ± 0.2	---	0.95	---	---	---
Pb	ppm	426 ± 1	392 (1)	38.57 ± 0.2	38.56 (1)	2.32 ± 0.04	---	1.85 ± 0.04	---
Rb	ppm	425.7 ± 0.8	---	31.4 ± 0.4	---	0.855 ± 0.005	---	0.100 ± 0.007	---
Sb	ppm	---	387 (1)	---	---	1.06	1.10 (1)	0.078 ± 0.007	0.012 (1)
Sc	ppm	---	---	---	---	0.59 ± 0.04	0.68 (1)	0.026 ± 0.012	0.020 (1)
Si	%	34	---	34	---	34	---	34	---
Sm	ppm	---	---	39	---	---	---	---	---
Sr	ppm	515.5 ± 0.5	---	78.4 ± 0.2	---	45.8 ± 0.1	---	41.72 ± 0.05	---
Sr-87/86	ppm	0.7094 ± 0.0002	---	0.7089 ± 0.0002	---	0.7083 ± 0.0002	---	0.7080 ± 0.0002	---
Ta	ppm	---	206 (1)	---	---	---	---	---	---
Te	ppm	---	259 (1)	---	---	---	---	---	---
Th	ppm	457.2 ± 1.2	469 (1)	37.79 ± 0.08	31 (1)	0.748 ± 0.006	0.58 (1)	0.0252 ± 0.0007	0.018 (1)
Ti	ppm	437	361 (1)	50.1 ± 0.8	---	3.1 ± 0.3	---	2.5 ± 0.7	---
Tl	ppm	61.8 ± 2.5	52 (1)	15.7 ± 0.3	---	0.269 ± 0.005	0.29 (1)	0.0082 ± 0.0005	---
U	ppm	461.5 ± 1.1	450 ± 30 (4)	37.38 ± 0.08	38 ± 2 (5)	0.823 ± 0.002	0.74 (1)	0.0721 ± 0.0013	---
U-235	A%	0.2376	0.251 (1)	0.2392	0.229 (1)	0.2792	---	0.616	---
V	ppm	---	206 (1)	---	---	---	---	---	---
Yb	ppm	---	---	42	---	---	---	---	---
Zn	ppm	433	---	---	---	---	---	---	---

TABLE 11

ELEMENTAL CONCENTRATIONS IN NBS COAL STANDARD REFERENCE MATERIALS
1630, 1632A, AND 1635

		1630		1632A				1635		
			Literature	NBS	Literature			NBS	Literature	
Element	Units	NBS	$\bar{x} \pm s$ (n)	(1971)	$\bar{x} \pm s$ (n)	Median	Range	(1978)	$\bar{x} \pm s$ (n)	Range
Ag	ppb	---	---	---	300. (1)	---	---	---	<38 (2)	---
Al	%	---	0.53 (1)	3.07	2.95 ± 0.08 (10)	2.99	2.80 - 9.47	0.32	0.31 ± 0.02 (3)	0.30 - 0.34
As	ppm	---	19 (1)	9.3 ± 1.0	9.3 ± 0.4 (15)	9.3	6.4 - 11	0.42 ± 0.15	0.35 ± 0.06 (5)	0.28 - 0.70
Ash	%	---	2.2 (1)	---	21.8 (2)	---	21.7 - 21.8	---	4.8 (1)	---
Au	ppb	---	---	---	3. (1)	---	---	---	---	---
B	ppm	---	5 (1)	---	53 ± 2 (5)	52.7	22 - 55	---	115 ± 17 (3)	104 - 135
Ba	ppm	---	---	---	124 ± 16 (7)	122	100 - 150	---	73 ± 6 (5)	67 - 81
Be	ppm	---	1 (1)	---	---	---	---	---	---	---
Bi	ppm	---	---	---	---	---	---	---	<1 (1)	---
Br	ppm	---	33 (2)	---	42 ± 2 (9)	43	39.6 - 50	---	1.9 ± 0.8 (4)	1.1 - 3.0
C	%	---	---	---	66 ± 4 (3)	---	62.7 - 71	---	62.6 (2)	59 - 66.2
Ca	ppm	---	700 (1)	---	2400 ± 200 (9)	2400	2100 - 46500	---	5500 ± 200 (3)	5400 - 5700
Cd	ppb	---	<200 (1)	170 ± 20	190 ± 30 (3)	---	150 - 210	30 ± 10	29 (1)	---
Ce	ppm	---	---	30	29 ± 2 (9)	28.5	25.7 - 32	3.6	3.4 ± 0.1 (3)	3.3 - 8.0
Cl	ppm	---	2200 (1)	---	760 ± 30 (8)	776	700 - 897	---	29 ± 6 (3)	26 - 36
Co	ppm	---	4.8 (2)	6.8	6.4 ± 0.3 (7)	6.55	5.86 - 7.5	0.65	0.64 ± 0.06 (3)	0.59 - 0.70
Cr	ppm	---	7.6 (2)	34.4 ± 1.5	34 ± 5 (9)	36	26 - 40	2.5 ± 0.3	2.38 ± 0.24 (5)	2.0 - 2.6
Cs	ppm	---	---	2.4	2.3 ± 0.2 (7)	2.4	1.9 - 2.5	---	0.050 (2)	0.046 - 0.053
Cu	ppm	---	16 (1)	16.5 ± 1.0	16.5 ± 0.7 (4)	---	15.9 - 17.2	3.6 ± 0.3	3.3 (2)	3.0 - 3.56
Dy	ppm	---	---	---	2.1 ± 0.2 (6)	2.15	1.83 - 2.56	---	0.31 (1)	---
Er	ppm	---	---	---	0.91 (1)	---	---	---	<2 (1)	---
Eu	ppb	---	---	540	527 ± 23 (7)	525	460 - 550	64	60 (2)	59 - 61
F	ppm	---	25 (1)	---	90 (2)	---	84 - 95	---	20 (1)	---
Fe	%	---	0.78 (2)	1.11 ± 0.02	1.12 ± 0.02 (10)	1.12	1.07 - 6.78	0.239 ± 0.005	0.229 ± 0.006 (4)	0.22 - 0.234
Ga	ppm	---	1.08 (2)	8.49	7.9 ± 0.5 (5)	8.0	7.2 - 8.5	1.05	1.1 (1)	---
Gd	ppm	---	---	---	2.4 ± 0.5 (5)	2.4	1.9 - 3.0	---	0.29 (2)	0.23 - 0.35
Ge	ppm	---	1 (1)	---	2.5 (1)	---	---	---	0.5 (1)	---
H	%	---	---	---	3.85 ± 0.28 (3)	---	3.68 - 4.17	---	4.07 (2)	3.96 - 4.18
H_2O^-	%	---	0.40 (1)	---	---	---	---	---	---	---
H_2O-T	%	---	---	---	1.62 (1)	---	---	~20	14 (1)	---
Hf	ppm	---	---	1.6	1.68 ± 0.19 (5)	1.70	1.44 - 1.90	0.29	0.27 ± 0.02 (3)	0.24 - 0.29
Hg	ppb	130 ± 10	126 ± 13 (19)	130 ± 30	146 ± 33 (7)	134.1	118 - 210	---	20 (2)	5 - 35
Ho	ppm	---	---	---	380 (1)	---	---	---	<1.5 (1)	---
I	ppm	---	---	---	1.5 ± 0.5 (3)	---	0.9 - 1.8	---	0.6 (1)	---
In	ppb	---	---	---	37 ± 2 (3)	---	36 - 40	---	5 (1)	---
K	ppm	---	800 (1)	---	4120 ± 150 (9)	4200	3700 - 14900	---	102 ± 16 (3)	90 - 120
La	ppm	---	4.4 (1)	---	15 ± 3 (8)	14.8	10.9 - 19	---	1.8 ± 0.4 (3)	1.38 - 2.1
Li	ppm	---	---	---	36 (1)	---	---	---	---	---
Lu	ppb	---	---	---	176 ± 30 (6)	180	134 - 220	---	32 (2)	27 - 36
Mg	ppm	---	200 (1)	---	1200 ± 200 (4)	1160	600 - 19900	---	970 (2)	940 - 1000
Mn	ppm	---	6.0 (1)	28 ± 2	30 ± 4 (10)	29	20 - 720	21.4 ± 1.5	22 ± 2 (4)	19 - 24
Mo	ppm	---	2 (1)	---	2.0 (1)	---	---	---	0.27 (1)	---
N	%	---	---	---	1.23 ± 0.04 (4)	---	1.19 ± 1.27	---	1.26 (2)	1.0 - 1.52

TABLE 11 (cont)

Element	Units	1630 NBS	1630 Literature $\bar{x} \pm s$ (n)	1632A NBS (1978)	1632A Literature $\bar{x} \pm s$ (n)	1632A Literature Median	1632A Literature Range	1635 NBS (1978)	1635 Literature $\bar{x} \pm s$ (n)	1635 Literature Range
Na	ppm	---	405 (2)	---	830 ± 100 (11)	840	680 - 4450	---	2400 ± 200 (5)	2200 - 2700
Nb	ppm	---	---	---	4.0 (1)	---	---	---	<1 (1)	---
Nd	ppm	---	---	---	11.4 ± 1.3 (4)	11.8	10 - 15.6	---	1.4 (1)	---
Ni	ppm	---	10 (1)	19.4 ± 1.0	20 ± 2 (7)	19.9	15.7 - 26	1.74 ± 0.1	2.2 ± 0.7 (3)	1.72 - 3.0
O	%	---	---	---	18.8 ± 0.8 (3)	---	18.31 - 19.8	---	29.6 ± 7.7 (3)	20.79 - 34.99
P	ppm	---	17 (1)	---	260 ± 40 (4)	280	85 - 1310	---	63 (1)	---
Pb	ppm	---	4 (1)	12.4 ± 0.6	11 ± 3 (5)	12.4	6.9 - 15.3	1.9 ± 0.2	2.0 (2)	1.48 - 2.6
Pb-210	pCi/g	---	---	---	0.449 (1)	---	---	---	0.069 (1)	---
Pr	ppm	---	---	---	3.2 (2)	---	3.0 - 3.3	---	---	---
Rb	ppm	---	---	31	29.0 ± 0.5 (8)	29	28.2 - 34	---	0.8 (2)	0.76 - 0.83
S	%	---	1.22 (2)	1.58±0.04	1.58 ± 0.06 (5)	1.59	1.19 - 1.62	0.33	0.32 (1)	---
Sb	ppm	---	1.15 (2)	0.58	0.60 ± 0.12 (7)	0.61	0.41 - 1.0	0.14	0.14 ± 0.02 (5)	0.12 - 0.17
Sc	ppm	---	1.4 (1)	6.3	6.4 ± 0.3 (9)	6.3	5.3 - 6.9	0.63	0.71 ± 0.14 (4)	0.56 - 0.90
Se	ppm	---	2.17 ± 0.21 (6)	2.6 ± 0.7	2.6 ± 0.2 (7)	2.58	2.4 - 3.1	0.9 ± 0.3	0.89 ± 0.08 (8)	0.79 - 1.20
Si	%	---	0.72 (1)	---	6.01 ± 0.16 (5)	5.92	3.1 - 28	---	0.54 (2)	0.52 - 0.56
Sm	ppm	---	---	---	2.4 ± 0.3 (10)	2.1	1.1 - 2.8	---	0.29 ± 0.04 (4)	0.25 - 0.34
Sn	ppm	---	6 (1)	---	4.5 (2)	---	1.0 - 8.1	---	<0.6 (1)	---
Sr	ppm	---	---	---	89 ± 5 (5)	90	84 - 96	---	128 ± 9 (4)	118 - 140
Ta	ppb	---	---	---	410 ± 30 (3)	---	390 - 450	---	45 (2)	44 - 46
Tb	ppb	---	---	---	310 ± 20 (4)	---	290 - 330	---	35 (1)	---
Te	ppb	---	---	---	500 (1)	---	---	---	600 (1)	---
Th	ppm	---	---	4.5 ± 0.1	4.5 ± 0.3 (8)	4.3	3.1 - 5.0	0.62 ± 0.04	0.62 ± 0.03 (4)	0.58 - 0.64
Th-228	pCi/g	---	---	---	0.449 (1)	---	---	---	0.0648 (1)	---
Th-230	pCi/g	---	---	---	0.452 (1)	---	---	---	0.0765 (1)	---
Th-232	pCi/g	---	---	---	0.484 (1)	---	---	---	0.0619 (1)	---
Ti	ppm	---	500 (1)	1750	1650 ± 100 (10)	1620	1480 - 5990	200	202 ± 10 (4)	190 - 210
Tl	ppm	---	---	---	<1 (1)	---	---	---	<1 (1)	---
Tm	ppb	---	---	---	400 (1)	---	---	---	<1000 (1)	---
U	ppm	---	---	1.28 ± 0.02	1.22 ± 0.07 (11)	1.24	1.0 - 1.45	0.24 ± 0.02	0.25 ± 0.06 (3)	0.20 - 0.32
U-234	pCi/g	---	---	---	0.448 (1)	---	---	---	0.0719 (1)	---
U-235	fCi/g	---	---	---	22.8 (1)	---	---	---	4.9 (1)	---
U-238	pCi/g	---	---	---	0.444 (1)	---	---	---	0.073 (1)	---
V	ppm	---	24 (1)	44 ± 3	45 ± 2 (9)	45	42 - 48	5.2 ± 0.5	4.26 ± 0.25 (3)	4.0 - 4.5
W	ppb	---	---	---	820 ± 170 (4)	---	600 - 1000	---	173 (1)	---
Y	ppm	---	---	---	7.9 ± 1.9 (3)	---	5.8 - 9.5	---	1.9 (1)	---
Yb	ppm	---	---	---	1.03 ± 0.12 (5)	0.98	0.9 - 1.2	---	0.16 ± 0.02 (3)	0.14 - 0.175
Zn	ppm	---	6 (1)	28 ± 2	28 ± 2 (6)	28	24.3 - 31	4.7 ± 0.5	6.9 ± 1.0 (4)	5.6 - 7.8
Zr	ppm	---	21 (1)	---	53 ± 5 (3)	---	47 - 57	---	15.6 ± 0.5 (3)	15 - 19.4

TABLE 12

ELEMENTAL CONCENTRATIONS IN NBS SRM 1632: TRACE ELEMENTS IN COAL

Element	Units	NBS (1974)	Literature $\bar{x} \pm s$ (n)	Literature Median	Literature Range	Individual Means by Analytical Technique: AA	ICPES	NAA	PAA	XRF	Others	
Ag	ppb	≤100	63 ± 13 (5)	65	45 - 1050	---	---	55 ± 9 (3)	---	---	---	---
Al	%	---	1.73 ± 0.11 (28)	1.74	1.51 - 3.00	1.71 (2)	1.72 ± 0.12 (5)	1.76 ± 0.15 (21)	---	---	---	---
As	ppm	5.9 ± 0.6	5.8 ± 0.5 (48)	5.8	3.0 - 8.9	5.9 ± 0.6 (5)	5.9 (2)	5.7 ± 0.6 (29)	6.0 ± 0.3 (6)	4.8 ± 1.8 (3)	5.4 (1) COLOR	---
ASH	%	---	13.2 (1)	---	---	---	---	---	---	---	---	---
Au	ppb	---	58 ± 90 (6)	---	0.85 - 200	---	---	---	---	---	---	---
B	ppm	---	41 ± 8 (7)	43	29 - 118	---	---	---	---	---	45 ± 3 (5) TCGS	---
Ba	ppm	---	330 ± 37 (31)	314	87 - 410	---	---	331 ± 32 (25)	---	---	---	---
Be	ppm	1.5	1.62 ± 0.11 (10)	1.64	1.2 - 1.85	1.6 ± 0.1 (6)	1.8 ± 0.1 (3)[a]	1.7 (1)	---	---	1.5 (1) FLUOR	---
Bi	ppm	---	1.05 (1)	---	---	---	---	---	---	---	---	---
Br	ppm	---	17.7 ± 1.8 (27)	18	7.8 - 38	---	---	18 ± 2 (24)	---	20 ± 3 (3)	---	---
C	%	---	70.4 ± 1.8 (4)	70	68.93 - 73.0	---	---	---	---	---	71.0 ± 1.7 (3) TCGS	---
Ca	ppm	---	4200 ± 500 (26)	4200	2400 - 7000	---	4400 ± 400 (5)[a]	4000 ± 600 (16)	---	---	---	---
Cd	ppb	190 ± 30	220 ± 40 (24)	210	170 - 700	230 ± 15 (7)	---	215 (2)	205 ± 24 (6)	---	310 (1) IDMS	270 ± 120 (3) SSMS 187 ± 12 (3) TCGS
Ce	ppm	---	21 ± 2 (22)	20	17.3 - 30	---	---	20 ± 2 (17)	---	---	---	---
Cl	ppm	---	880 ± 70 (26)	890	80 - 1177	---	---	880 ± 70 (2)	---	---	895 (2) TCGS	---
Co	ppm	6	5.6 ± 0.5 (33)	5.7	3.9 - 11	6.1 ± 0.8 (3)	4.9 ± 0.9 (3)[a]	5.8 ± 0.5 (28)	---	---	---	---
Cr	ppm	20.2 ± 0.5	19.9 ± 1.3 (37)	20	8 - 35	20.3 ± 1.4 (6)	18 ± 3 (3)[a]	20.2 ± 1.8 (26)	---	---	---	---
Cs	ppm	---	1.52 ± 0.19 (24)	1.46	0.35 - 3.5	---	---	1.6 ± 0.4 (24)	---	---	---	---
Cu	ppm	18 ± 2	18 ± 2 (28)	17.8	13 - 30	18.3 ± 1.8 (7)	18.1 ± 0.9 (3)[a]	15.8 ± 1.5 (6)	28 ± 4 (3)[b]	18 ± 3 (6)	16.7 ± 1.7 (3) SSMS	---
Dy	ppm	---	1.25 ± 0.22 (10)	1.3	0.57 - 2.4	---	---	1.1 ± 0.3 (9)	---	---	---	---
Er	ppm	---	0.7 (1)	---	---	---	---	---	---	---	---	---
Eu	ppb	---	355 ± 44 (23)	365	210 - 500	---	---	350 ± 50 (20)	---	---	---	---
F	ppm	---	76 ± 16 (7)	80	51 - 100	---	---	---	---	---	76 ± 10 (4) ISE	---
Fe	ppm	8700 ± 300	8600 ± 400 (38)	8600	6500 - 11300	8700 ± 400 (4)	8400 ± 400 (5)	8600 ± 600 (25)	---	7700 ± 700 (4)	---	---
Ga	ppm	---	5.8 ± 1.1 (16)	5.8	4.5 - 9.0	---	---	5.5 ± 0.9 (11)	---	---	---	---
Gd	ppm	---	2.3 ± 1.0 (8)	2.35	1.2 - 3.6	---	---	3.2 ± 0.6 (3)[a]	---	---	---	---
Ge	ppm	---	2.6 ± 0.4 (4)	2.9	2 - 70	---	---	---	---	---	---	---
H	%	---	4.20 ± 0.16 (3)	---	4.02 - 4.30	---	---	---	---	---	4.11 ± 0.16 (3) TCGS	---
H_2O-T	%	---	2.6 (1)	---	---	---	---	---	---	---	---	---
Hf	ppm	---	0.98 ± 0.10 (19)	0.96	0.72 - 1.53	---	---	0.96 ± 0.11 (19)	---	---	---	---
Hg	ppb	130 ± 30	120 ± 23 (19)	120	88 - 950	117 ± 15 (7)	---	160 ± 50 (11)	100 (3)[a]	---	---	---
Ho	ppb	---	243 ± 6 (3)	---	240 - 250	---	---	---	---	---	---	---
I	ppm	---	3.1 ± 0.3 (11)	3.3	2.68 - 6.63	---	---	3.8 ± 1.5 (10)	---	---	---	---
In	ppb	---	110 ± 90 (12)	63	17 - 230	---	---	37 ± 33 (7) 210 (2)	---	---	---	---
Ir	ppb	---	2.8 ± 0.6 (3)	---	2.48 - 3.53	---	---	---	---	---	---	---
K	ppm	---	2810 ± 140 (32)	2800	2500 - 4000	---	2800 ± 200 (5)	2900 ± 200 (23)	---	---	---	---
La	ppm	---	10.4 ± 0.8 (26)	10.5	6.0 - 11.5	---	---	10.5 ± 0.9 (21)	---	---	---	---
Li	ppm	---	26 ± 2 (3)	---	24 - 29	---	---	---	---	---	---	---
Lu	ppb	---	128 ± 17 (13)	130	100 - 416	---	---	137 ± 28 (12)	---	---	---	---
Mg	ppm	---	1600 ± 400 (24)	1600	980 - 8200	---	1400 ± 200 (5)	1800 ± 500 (16)	---	---	---	---
Mn	ppm	40 ± 3	41 ± 3 (41)	41.1	28 - 47	39 ± 2 (5)	44 ± 2 (3)[a]	42 ± 2 (25)	---	38 ± 1 (4)	---	---
Mo	ppm	---	0.29 ± 0.08 (6) 3.8 ± 0.8 (10)	0.30 3.5	0.20 - 5.0	---	4.0 (2)[b]	3.3 ± 1.7 (6)	0.26 ± 0.05 (5)[a]	---	---	---
N	%	---	1.27 ± 0.06 (3)	---	1.2 - 1.3	---	---	---	---	---	1.27 ± 0.06 (3) TCGS	---
Na	ppm	---	377 ± 26 (32)	380	325 - 1200	---	380 ± 30 (5)[a]	380 ± 30 (23)	---	---	---	---
Nb	ppm	---	5 (1)	---	---	---	---	---	---	---	---	---
Nd	ppm	---	8.8 ± 1.8 (7)	9.5	6.4 - 17.8	---	---	12 ± 5 (5)	---	---	---	---
Ni	ppm	15 ± 1	15 ± 2 (37)	15	10 - 20.4	15.1 ± 1.4 (4)	17 ± 2 (3)[a]	16.2 ± 3.3 (12)	13.9 ± 0.2 (5)	14 ± 3 (5)	14.7 ± 0.1 (3) IDMS 14.8 (1) POL	15.3 (2) SSMS
O	%	---	15.05 (1)	---	---	---	---	---	---	---	---	---
Os	ppm	---	<1 (1)	---	---	---	---	---	---	---	---	---
P	ppm	---	150 ± 70 (9)	138	71 - 270	---	126 ± 32 (4)[a]	---	---	---	260 (2) COLOR	---
Pb	ppm	30 ± 9	28 ± 4 (28)	28	12 - 33	28 ± 3 (8)	21 ± 6 (4)[a]	---	30 ± 2 (7)	25 ± 8 (4)	28.7 (2) IDMS 28.4 (1) POL	30 ± 3 (3) SSMS
Pd	ppb	---	<5 (1)	---	---	---	---	---	---	---	---	---
Pr	ppm	---	3.4 ± 1.3 (3)	---	2.0 - 4.6	---	---	---	---	---	---	---
Pt	ppb	---	230 (2)	---	186 - 270	---	---	---	---	---	---	---
Rb	ppm	---	20 ± 3 (29)	20	10 - 30	---	---	20 ± 3 (22)	---	23 ± 5 (4)	---	---
Rh	ppm	---	<5 (1)	---	---	---	---	---	---	---	---	---
Ru	ppb	---	18 (1)	---	---	---	---	---	---	---	---	---
S	%	---	1.19 ± 0.20 (7)	1.29	0.17 - 2.02	---	---	---	---	1.32 (2)[b]	1.30 ± 0.02 (3) TCGS	---
Sb	ppm	---	3.5 ± 0.5 (31)	3.3	0.61 - 6.4	---	---	3.4 ± 0.6 (26)	3.6 ± 0.5 (3)[a]	---	---	---
Sc	ppm	---	3.78 ± 0.22 (25)	3.8	3.4 - 5.4	---	---	3.8 ± 0.3 (21)	---	---	---	---
Se	ppm	2.9 ± 0.3	3.0 ± 0.3 (41)	3.0	1.1 - 5.5	2.3 (2)	---	3.1 ± 0.4 (28)	3.00 ± 0.01 (5)[a]	3.6 ± 1.3 (4)	3.05 (1) ASV	---
Si	%	3.2	3.17 ± 0.16 (8)	3.14	2.1 - 3.92	---	3.18 ± 0.03 (4)[b]	---	---	---	2.95 (2) TCGS	---
Sm	ppm	---	1.58 ± 0.19 (22)	1.6	1.3 - 2.9	---	---	1.6 ± 0.2 (18)	---	---	---	---
Sn	ppm	---	8.8 ± 2.4 (10)	10	2.0 - 125	---	7.2 ± 2.9 (3)[a]	---	10.2 ± 0.4 (5)[a]	---	---	---
Sr	ppm	---	145 ± 24 (30)	148	1.0 - 280	---	140 (1)	144 ± 29 (23)	---	150 ± 5 (4)	---	---
Ta	ppb	---	250 ± 40 (17)	250	170 - 460	---	---	260 ± 50 (17)	---	---	---	---
Tb	ppb	---	270 ± 80 (9)	245	30 - 500	---	---	270 ± 80 (9)	---	---	---	---
Te	ppb	<100	710 ± 280 (3)	---	500 - 1020	---	---	---	---	---	---	---
Th	ppm	3.0	3.2 ± 0.2 (22)	3.2	1.3 - 4.7	---	---	3.2 ± 0.5 (20)	---	---	---	---
Ti	ppm	800	940 ± 110 (35)	938	680 - 1550	840 ± 170 (3)	954 ± 16 (5)	1000 ± 140 (19)	920 ± 40 (3)[a]	---	---	---
Tl	ppb	590 ± 30	550 ± 50 (8)	555	500 - 610	---	---	---	530 ± 40 (5)[a]	---	600 ± 10 (3) SSMS	---
Tm	ppb	---	240 ± 110 (3)	---	110 - 300	---	---	---	---	---	---	---
U	ppm	1.4 ± 0.1	1.37 ± 0.13 (29)	1.4	0.98 - 6.0	---	---	1.37 ± 0.13 (20)	1.42 ± 0.13 (5)[b]	---	1.41 (2) GAMMA	1.21 (2) IDMS
V	ppm	35 ± 3	35 ± 2 (32)	35	24 - 50	37 ± 4 (5)	35 ± 3 (3)[a]	35 ± 3 (22)	---	---	---	---
W	ppb	---	740 ± 60 (11)	750	450 - 1900	---	---	700 ± 100 (11)	---	---	---	---
Y	ppm	---	7.6 ± 0.4 (5)	7.6	7.0 - 8.0	---	---	---	---	---	---	---
Yb	ppb	---	790 ± 140 (21)	790	550 - 1200	---	---	800 ± 140 (17)	---	---	---	---
Zn	ppm	37 ± 4	37 ± 3 (45)	37.5	30 - 58	38.4 ± 0.7 (6)	38 ± 2 (3)[a]	38 ± 6 (20)	37.6 ± 1.2 (6)	36 ± 2 (6)	---	---
Zr	ppm	---	34 ± 10 (10)	38	1.56 - 90	---	25 (1)	55 ± 26 (6)	---	36 (2)	---	---

[a]Only two analysts reporting.
[b]Only one analyst reporting.

TABLE 13

ELEMENTAL CONCENTRATIONS IN NBS SRM 1633: COAL FLY ASH (OLDER)

Element	Units	NBS (1975)	Literature									
						Individual Means by Analytical Technique						
			$\bar{x} \pm s$ (n)	Median	Range	AA	ICPES	NAA	PAA	XRF	Others	
Ag	ppb	---	640 ± 590 (3)	---	258 - 1320	---	---	---	---	---	---	---
Al	%	---	12.6 ± 0.5 (33)	12.6	10.4 - 14.3	13.0 ± 0.7 (4)	12.5 ± 0.6 (4)	12.6 ± 0.8 (22)	---	11.7 (1)	13.2 ± 0.7 (3) OES	12.5 ± 0.2 (3) TCGS
As	ppm	61 ± 6	61 ± 4 (54)	60	46 - 72	60 ± 5 (5)	56 ± 1 (3)	60 ± 5 (32)	62 ± 2 (9)	64 ± 2 (3)	---	---
Au	ppb	---	5.2 ± 2.6 (3)	---	2.75 - 1700	---	---	6 ± 3 (4)	---	---	---	---
B	ppm	---	440 ± 60 (10)	438	100 - 500	---	---	---	---	---	470 ± 30 (5) TCGS	---
Ba	ppm	---	2650 ± 150 (41)	2630	1800 - 3400	2600 ± 300 (3)	2600 (2)	2700 ± 200 (33)	2603 ± 6 (3)[a]	2400 ± 400 (4)	---	---
Be	ppm	12	12.1 ± 0.8 (15)	12	5 - 14	12.4 ± 0.5 (11)	11.5 ± 1.0 (3)	---	---	---	---	---
Bi	ppm	---	0.89 (2)	---	0.7 - 1.08	---	---	---	---	---	---	---
Br	ppm	---	8.4 ± 2.2 (22)	7.7	5.8 - 12.1	---	---	8.6 ± 2.3 (20)	---	---	---	---
C	%	---	3.3 ± 0.2 (3)	---	3.05 - 3.45	---	---	---	---	---	---	---
Ca	%	---	4.6 ± 0.3 (40)	4.62	3.50 - 5.30	4.5 ± 0.4 (3)	4.64 ± 0.12 (4)	4.5 ± 0.3 (19)	4.7 ± 0.5 (6)	4.7 ± 0.6 (3) TCGS	---	
Cd	ppm	1.45 ± 0.06	1.46 ± 0.14 (33)	1.5	0.93 - 15	1.46 ± 0.16 (13)	1.55 (2)	1.36 ± 0.20 (5)	1.35 ± 0.17 (6)	---	1.85 (1) IDMS	---
Ce	ppm	---	149 ± 7 (26)	149.6	125 - 210	---	---	150 ± 12 (24)	---	154 ± 6 (3)	1.50 (1) POL 153 ± 1 (4)[b] TCGS	1.53 ± 0.06 (3) TCGS ---
Cl	ppm	---	35 ± 17 (13)	40	19.6 - 185	---	---	39 ± 14 (10)	23 ± 3 (3)[a]	---	---	---
Co	ppm	38	40 ± 2 (37)	40.1	26 - 50	39 ± 4 (5)	36 ± 9 (3)	40 ± 2 (26)	40 ± 3 (5)[b]	---	---	---
Cr	ppm	131 ± 3	128 ± 8 (50)	130	112 - 180	130 ± 5 (8)	122 ± 8 (3)	128 ± 7 (27)	133 ± 6 (3)[b]	131 ± 17 (5)	---	---
Cs	ppm	---	8.6 ± 0.7 (24)	8.35	0.63 - 13.8	---	---	8.4 ± 1.0 (26)	6 ± 4 (3)[a]	---	---	---
Cu	ppm	128 ± 5	129 ± 7 (33)	129	70 - 198	127 ± 4 (10)	128 ± 8 (3)	128 ± 11 (7)	138 ± 3 (3)[a]	129 ± 5 (6)	135 ± 9 (3)[b] TCGS	
Dy	ppm	---	10 ± 1 (9)	10.2	7.6 - 19	---	---	10.0 ± 1.2 (10)	---	---	---	---
Er	ppm	---	11 (1)	---	---	---	---	---	---	---	---	---
Eu	ppm	---	2.6 ± 0.2 (22)	2.58	1.9 - 5.3	---	---	2.6 ± 0.3 (22)	---	---	---	---
F	ppm	---	15 (2)	---	10 - 20	---	---	---	---	---	---	---
Fe	%	---	6.14 ± 0.24 (50)	6.20	4.23 - 7.0	6.3 ± 0.4 (7)	6.2 ± 0.2 (5)	6.2 ± 0.4 (27)	5.4 ± 1.0 (5)	6.10 ± 0.12 (7)	5.9 ± 0.3 (3)	6.3 ± 0.4 (3) TCGS
Ga	ppm	---	42 ± 4 (15)	42	34.3 - 72	---	---	40 ± 3 (10)	---	43 ± 5 (3)	---	---
Gd	ppm	---	11.6 ± 0.5 (4)	11.8	11 - 23	---	---	---	---	---	---	---
Ge	ppm	---	22 ± 4 (4)	25	19 - 476	---	---	---	---	---	---	---
H	ppm	---	1100 (2)	---	1000 - 1200	---	---	---	---	---	---	---
H_2O^-	%	---	0.03 (1)	---	---	---	---	---	---	---	---	---
H_2O^+	%	---	0.17 (1)	---	---	---	---	---	---	---	---	---
Hf	ppm	---	7.6 ± 0.5 (20)	7.62	6.5 - 10.8	---	---	7.5 ± 0.5 (23)	---	---	---	---
Hg	ppb	140 ± 10	136 ± 17 (14)	141	100 - 11000	130 ± 9 (4)	---	145 ± 12 (7)	160 ± 30 (6)[b]	---	---	---
Ho	ppm	---	2.5 ± 1.0 (3)	---	1.94 - 3.6	---	---	---	---	---	---	---
I	ppm	---	2.7 ± 0.4 (5)	2.9	2.0 - 3.0	---	---	2.7 ± 0.5 (4)	---	---	---	---
In	ppb	---	220 ± 80 (10)	280	118 - 3000	---	---	210 ± 90 (10)	287 ± 6 (3)[a]	---	---	---
Ir	ppb	---	---	---	15 - 18600	---	---	18 ± 2 (3) 250 (2)	---	---	---	---
K	%	1.72	1.69 ± 0.09 (40)	1.70	1.29 - 3.30	1.66 ± 0.06 (3)	1.61 ± 0.11 (3)[b]	1.74 ± 0.11 (24)	1.60 ± 0.01 (4)[b]	1.68 ± 0.05 (4)	1.74 ± 0.04 (3) TCGS	
La	ppm	---	79 ± 5 (28)	80	45 - 110	---	---	79 ± 7 (26)	---	77 ± 5 (3)	---	---
Li	ppm	---	170 ± 110 (3)	---	1.7 - 300	---	---	---	---	---	---	---
Lu	ppm	---	1.08 ± 0.23 (11)	1.06	0.87 - 4.0	---	---	1.13 ± 0.30 (13)	---	---	---	---
Mg	%	---	1.60 ± 0.25 (30)	1.52	1.01 - 6.30	1.29 ± 0.14 (3)	1.4 ± 0.3 (4)	1.7 ± 0.2 (17)	1.48 ± 0.03 (5)[b]	---	1.6 ± 0.2 (3) OES	1.8 ± 0.5 (3) TCGS
Mn	ppm	493 ± 7	496 ± 18 (51)	496	351 - 570	490 ± 40 (12)	503 ± 18 (3)	490 ± 24 (25)	493 ± 2 (5)[b]	508 ± 18 (6)	485 ± 22 (3) OES	---
Mo	ppm	---	28 ± 6 (13)	25.3	0.5 - 37	---	---	27 ± 5 (8)	0.8 ± 0.6 (3)[a]	---	---	---
N	ppm	---	<1000 (1)	---	---	---	---	---	---	---	---	---
Na	ppm	---	3100 ± 200 (36)	3200	2600 - 9700	3160 ± 150 (3)	3000 ± 100 (3)[b]	3100 ± 200 (25)	3500 ± 300 (5)[b]	---	5200 ± 3900 (3) OES	3200 ± 300 (3) TCGS
Nb	ppm	---	20 ± 11 (3)	---	7 - 28	---	---	---	---	---	---	---
Nd	ppm	---	63 ± 7 (11)	62	58 - 94	---	---	64 ± 7 (10)	---	---	62 (2) TCGS	---
Ni	ppm	98 ± 3	98 ± 6 (41)	98	69 - 128	96 ± 9 (8)	107 ± 18 (3)	99 ± 14 (14)	97 ± 5 (9)	98 ± 6 (6)	96 (3)[a] IDMS	98 (1) POL
O	%	---	47.02 (1)	---	---	---	---	---	---	---	---	---
Os	ppb	---	<400 (2)	---	---	---	---	---	---	---	---	---
P	ppm	---	1020 ± 150 (4)	1140	880 - 3000	---	---	---	---	---	---	---
Pb	ppm	70 ± 4	72 ± 6 (37)	71	40 - 100	74 ± 7 (13)	74 ± 9 (3)	---	70 ± 2 (7)	67 ± 3 (4)	78 (2) IDMS	67 (1) POL 59 ± 17 (3)[b] SSMS
Pb-210	pCi/g	---	3.37 (1)	---	---	---	---	---	---	---	---	---
Pd	ppb	---	<2 (3)	---	---	---	---	---	---	---	---	---
Pr	ppm	---	26 (2)	---	24 - 28	---	---	---	---	---	---	---
Pt	ppb	---	0.7 ± 0.6 (3)	---	0.4 - 1.38	---	---	---	---	---	---	---
Rb	ppm	112	115 ± 8 (28)	113	70 - 150	---	---	117 ± 10 (24)	111 ± 13 (3)	113 ± 7 (5)	---	---
Re	ppb	---	<200 (1)	---	---	---	---	---	---	---	---	---
Rh	ppb	---	<500 (3)	---	---	---	---	---	---	---	---	---
Ru	ppb	---	---	---	0.26 - 3.0	---	---	---	---	---	---	---
S	ppm	---	4000 ± 300 (4) 8400 (2)	4000	2000 - 9000	---	---	---	---	---	4100 ± 300 (3) TCGS	---
Sb	ppm	---	6.8 ± 0.5 (31)	6.9	4.0 - 12.1	---	---	6.8 ± 0.6 (26)	7.07 ± 0.06 (6)	---	---	---
Sc	ppm	---	26.6 ± 1.7 (25)	26.9	20 - 41	---	---	27 ± 2 (26)	25 ± 4 (3)[a]	---	---	---
Se	ppm	9.4 ± 0.5	9.6 ± 0.6 (42)	9.75	3.2 - 35	7.4 ± 3.7 (3)	---	9.7 ± 0.7 (28)	9.7 ± 0.3 (6)[b]	9.6 ± 1.2 (3)	---	---
Si	%	---	22.1 ± 1.1 (17)	21.8	16.0 - 24.5	---	---	22.9 ± 0.5 (4)	20.3 ± 0.6 (3)[b]	22.1 ± 0.8 (3)	20.4 ± 2.4 (3)	---
Sm	ppm	---	12.7 ± 1.1 (21)	12.6	10 - 20	---	---	12.6 ± 1.3 (21)	---	---	---	---
Sn	ppm	---	8.6 ± 3.6 (9)	10.2	3 - 740	---	---	---	12.2 ± 0.3 (3)[a]	---	---	---
SO_4	%	---	0.98 (1)	---	---	---	---	---	---	---	---	---
Sr	ppm	1380	1380 ± 100 (36)	1390	120 - 8000	---	1500 (2)	1410 ± 120 (26)	1320 ± 70 (5)[b]	1100 ± 500 (6)	---	---
Ta	ppm	---	1.91 ± 0.12 (18)	1.95	1.6 - 3.5	---	---	1.93 ± 0.23 (22)	---	---	---	---
Tb	ppm	---	1.8 ± 0.3 (14)	2.0	0.22 - 3.3	---	---	1.8 ± 0.3 (16)	---	---	---	---
Te	ppm	---	1.8 ± 0.8 (3)	---	0.92 - 9.9	---	---	---	2.31 ± 0.01 (3)[a]	---	---	---
Th	ppm	24	24.6 ± 1.4 (22)	24.2	20 - 32	---	---	24.7 ± 1.2 (20)	---	---	---	---
Th-228	pCi/g	---	2.23 (1)	---	---	---	---	---	---	---	---	---
Th-230	pCi/g	---	3.74 (1)	---	---	---	---	---	---	---	---	---
Th-232	pCi/g	---	2.45 (1)	---	---	---	---	---	---	---	---	---
Ti	ppm	---	7300 ± 300 (35)	7250	3000 - 8900	7700 ± 1000 (3)	7200 ± 200 (4)	7100 ± 600 (22)	7400 ± 200 (6)	6900 ± 2000 (6)	7120 ± 140 (3) TCGS	---
Tl	ppm	4	3.4 ± 0.6 (7)	3.75	2.0 - 18	---	---	---	3.64 ± 0.12 (6)	---	---	---
Tm	ppm	---	1.3 (2)	---	---	---	---	---	---	---	---	---
U	ppm	11.6 ± 0.2	11.8 ± 0.7 (26)	11.85	8.4 - 15	---	---	11.7 ± 1.0 (19)	11.8 ± 0.5 (5)[a]	---	11.8 (2) IDMS	---
U-234	pCi/g	---	4.07 (1)	---	---	---	---	---	---	---	---	---
U-235	pCi/g	---	0.179 (1)	---	---	---	---	---	---	---	---	---
U-238	pCi/g	---	4.01 (1)	---	---	---	---	---	---	---	---	---
V	ppm	214 ± 8	221 ± 20 (37)	223	151 - 410	260 ± 100 (4)	225 ± 7 (3)	228 ± 15 (21)	209 ± 1 (3)[a]	210 ± 50 (5)	---	---
W	ppm	---	4.8 ± 0.7 (15)	4.8	3.8 - 12.7	---	---	4.8 ± 0.7 (16)	---	---	---	---
Y	ppm	---	63 ± 7 (10)	66	30 - 150	---	---	---	64 ± 3 (4)	65 ± 4 (3)	---	---
Yb	ppm	---	6.2 ± 1.0 (19)	6.2	4.7 - 9.0	---	---	6.3 ± 1.0 (18)	---	---	---	---
Zn	ppm	210 ± 20	210 ± 9 (54)	212	180 - 700	210 ± 13 (13)	216 ± 8 (5)	215 ± 19 (23)	213 ± 6 (7)	207 ± 7 (7)	---	---
Zr	ppm	---	300 ± 60 (21)	301	160 - 640	---	---	350 ± 80 (14)	300 ± 1 (6)[b]	302 ± 11 (3)	---	---

[a]Only one analyst reporting.
[b]Only two analysts reporting.

TABLE 14

ELEMENTAL CONCENTRATIONS IN NBS SRM 1633A: COAL FLY ASH (NEWER)

Element	Units	NBS (1979)	Literature			Individual Means by Analytical Technique		
			$\bar{x} \pm s$ (n)	Median	Range	NAA	TCGS	Other
Ag	ppb	---	<600 (1)	---	---	---	---	---
Al	%	14	14.4 ± 0.4 (9)	14.2	13.8 - 15.0	14.1 ± 0.2 (4)	14.0 (2)	---
As	ppm	145 ± 15	144 ± 2 (8)	145	97 - 148	145 ± 2 (5)	---	---
B	ppm	---	39.7 ± 1.3 (4)	---	39 - 41.6	---	40 ± 1 (4)	---
Ba	ppm	1500	1400 ± 200 (14)	1470	1060 - 1760	1480 ± 140 (9)	---	---
Be	ppm	12	---	---	---	---	---	---
Br	ppm	---	2.3 (2)	---	2.2 - 2.4	---	---	---
Ca	%	1.11 ± 0.01	1.12 ± 0.04 (10)	1.12	1.05 - 1.29	1.10 ± 0.03 (5)	1.29 (2)	---
Cd	ppm	1.0 ± 0.15	1.07 (1)	---	---	---	---	---
Ce	ppm	180	175 ± 8 (7)	177	163 - 230	176 ± 10 (5)[a]	---	
Cl	ppm	---	<69 (1)	---	---	---	---	---
Co	ppm	46	43 ± 4 (8)	44	37 - 47	43 ± 4 (6)[a]	---	---
Cr	ppm	196 ± 6	193 ± 5 (9)	194	185 - 200	193 ± 5 (5)[a]	---	---
Cs	ppm	11	10.0 ± 0.4 (7)	10.1	9.3 - 10.6	10.6 ± 0.5 (6)[a]	---	---
Cu	ppm	118 ± 3	120 (1)	---	---	---	---	---
Dy	ppm	---	15.4 ± 1.2 (5)	15	14.3-16.8	15.1 ± 1.0 (4)	---	---
Eu	ppm	4	3.5 ± 0.3 (7)	3.62	2.0 - 3.7	3.5 ± 0.3 (6)	---	---
Fe	%	9.40 ± 0.10	9.45 ± 0.17 (10)	9.40	8.84 - 9.70	9.45 ± 0.16 (6)[a]	9.70 (2)	---
Ga	ppm	58	55 ± 3 (5)	55.7	51 - 59	57 ± 2 (3)[a]	---	---
Gd	ppm	---	19 (2)	---	15.3 - 23.5	---	---	---
H_2O-T	%	---	0.35 (1)	---	---	---	---	---
Hf	ppm	7.6	7.2 ± 0.5 (8)	73	6.3 - 7.8	7.4 ± 0.5 (6)[a]	---	---
Hg	ppb	160 ± 10	150 (2)	---	150 - 151	---	---	---
I	ppm	---	<5 (1)	---	---	---	---	---
In	ppb	---	156 (2)	---	151 - 160	---	---	---
K	%	1.88 ± 0.06	1.89 ± 0.06 (11)	1.88	1.80 - 1.99	1.88 ± 0.07 (5)	1.97 (2)	1.95 (2) AA
La	ppm	---	83 ± 3 (6)	84	62 - 100	83 ± 3 (6)	---	---
Lu	ppm	---	1.1 ± 0.3 (3)	---	0.93 - 1.44	---	---	---
Mg	ppm	4550 ± 10	4300 ± 300 (5)	4540	3800 - 8000	---	---	---
Mn	ppm	190	210 ± 35 (10)	191	170 - 277	220 ± 40 (6)	190 (2)	---
Mo	ppm	29	31 ± 4 (3)	---	27 - 36	---	---	---
Na	ppm	1700 ± 100	1750 ± 120 (10)	1750	1560 2200	1740 ± 40 (6)	2100 (2)	
Nd	ppm	---	79 ± 23 (4)	71	65.6 - 122	---	---	---
Ni	ppm	127 ± 4	124 ± 12 (4)	---	112 - 139	---	---	---
O	%	---	47.66 (1)	---	---	---	---	---
P	ppm	---	1830 ± 150 (3)	---	1700 - 2000	---	---	---
Pb	ppm	72.4 ± 0.4	65 (1)	---	---	---	---	---
Pr	ppm	---	18 (2)	---	17.9 - 18.9	---	---	---
Rb	ppm	131 ± 2	140 ± 12 (8)	136	124 - 163	142 ± 14 (5)[a]	---	---
S	ppm	---	2700 (1)	---	---	---	---	---
Sb	ppm	7	7.1 ± 0.6 (6)	7.2	6.3 - 7.8	7.3 ± 0.5 (5)	---	---
Sc	ppm	40	38 ± 3 (8)	40	34 - 43	40 ± 2 (6)[a]	---	---
Se	ppm	10.3 ± 0.6	9.5 ± 1.0 (7)	9.4	7.8 - 10.7	9.9 ± 0.6 (4)[a]	---	---
Si	%	22.8 ± 0.8	23.5 ± 0.8 (5)	23.37	18.0 - 24.2	---	---	---
Sm	ppm	---	17 ± 2 (7)	16.6	14.5 - 20.0	17 ± 2 (5)	---	---
Sr	ppm	830 ± 30	822 ± 25 (8)	819	740 - 850	800 ± 37 (6)	---	---
Ta	ppm	---	1.89 ± 0.14 (7)	1.8	1.71 - 2.10	1.91 ± 0.13 (6)[a]	---	---
Tb	ppm	---	2.4 ± 0.4 (5)	2.3	2.1 - 2.9	2.5 ± 0.4 (4)[a]	---	---
Te	ppm	---	<6.6 (1)	---	---	---	---	---
Th	ppm	24.7 3	24.6 ± 1.0 (8)	24.8	22.4 - 28	24.8 ± 0.2 (5)[a]	---	---
Ti	ppm	8000	8100 ± 200 (10)	8200	7800 - 9000	8100 ± 200 (6)	8400 (2)	---
Tl	ppm	5.7 ± 0.2	4.4 (1)	---	---	---	---	---
U	ppm	10.2 ± 0.1	10.4 ± 0.2 (4)	10.4	9.8 - 11	10.3 ± 0.3 (9)	---	---
V	ppm	300	289 ± 7 (8)	291	280 - 360	293 ± 5 (5)	---	---
W	ppm	---	5.9 ± 0.7 (4)	---	5.4 - 6.9	5.8 ± 0.8 (4)[a]	---	---
Yb	ppm	---	8.2 ± 1.3 (4)	---	6.9 - 10	8.6 ± 1.3 (3)[a]	---	---
Zn	ppm	220 ± 10	235 ± 16 (7)	230	218 - 256	233 ± 20 (3)[a]	---	---
Zr	ppm	---	370 ± 50 (4)	---	300 - 410	---	---	---

[a]Only two analysts reporting.

TABLE 15

ELEMENTAL CONCENTRATIONS IN NEWER NBS SILICATE ROCK, SEDIMENT, AND AIR PARTICULATE STANDARD REFERENCE MATERIALS

		278		688		1645		1646		1648		1649
Element	Units	NBS (1981)	Literature $\bar{x} \pm s$ (n)	NBS (1981)	Literature $\bar{x} \pm s$ (n)	NBS (1978)	Literature $\bar{x} \pm s$ (n)	NBS (1982)	Literature $\bar{x} \pm s$ (n)	NBS (1978)	Literature $\bar{x} \pm s$ (n)	NBS (1982)
Ag	ppb	---	---	---	---	---	---	---	---	6	6.1 ± 0.3 (3)	3.5
Al	%	7.49 ± 0.08	7.62 (2)	9.18 ± 0.05	8.9 (2)	2.1	2.40 (2)	6.25 ± 0.20	---	3.3	3.23 ± 0.17 (6)	---
As	ppm	---	4.9 ± 0.2 (3)	---	2.7 (1)	66	67 ± 3 (9)	11.6 ± 1.3	---	115 ± 10	117 ± 3 (6)	67
Au	ppb	---	2.1 (2)	---	0.9 (1)	---	---	---	---	---	---	---
B	ppm	25	25.1 ± 0.2 (3)	---	1.1 (2)	---	29.9 (1)	---	83 (1)	---	158 (1)	---
Ba	ppm	1140	1010 ± 110 (3)	200	204 (2)	---	370 (2)	---	---	737	780 ± 40 (5)	569
Be	ppm	---	---	---	---	---	1.0 (1)	1.5	---	---	3.0 (1)	---
Bi	ppb	---	---	---	---	---	<100 (1)	---	---	---	---	---
Br	ppm	---	2.8 ± 0.2 (3)	---	---	---	---	---	---	500	505 ± 24 (6)	1190
C	%	0.05	---	---	---	---	---	---	---	---	15.0 (2)	---
CO_2	%	0.01	---	0.05	---	---	---	---	---	---	---	---
Ca	%	0.703 ± 0.002	6900 ± 800 (3)	8.70	8.05 (2)	2.9	2.8 ± 0.3 (5)	0.83 ± 0.03	---	---	5.8 ± 0.4 (7)	---
Cd	ppm	---	---	---	---	10.2 ± 1.5	10.1 ± 0.9 (8)	0.36 ± 0.07	---	75 ± 7	70 ± 4 (6)	18
Ce	ppm	62.2	60 ± 5 (4)	13.3	10 (1)	---	24 (2)	80	---	55	55 ± 4 (4)	51.6
Cl	ppm	---	640 (1)	---	---	---	---	---	---	4500	4700 (2)	2820
Co	ppm	1.5	1.93 ± 0.10 (3)	49.7	52 (2)	8	9.2 ± 1.3 (5)	10.5 ± 1.3	---	18	19 ± 5 (5)	16.4
Cr	ppm	6.1	6.5 ± 0.2 (3)	332 ± 9	329 (2)	29600 ± 2800	31100 ± 1280 (12)	76 ± 3	---	403 ± 12	405 ± 19 (8)	211
Cs	ppm	5.5	5.2 ± 0.2 (4)	---	0.21 (1)	---	2.8 (2)	3.7	3.6 (1)	3	3.5 ± 0.2 (3)	2.85
Cu	ppm	5.9 ± 0.2	---	96	---	109 ± 19	110 ± 10 (10)	18 ± 3	---	609 ± 27	591 ± 12 (8)	---
Eu	ppm	0.84	0.80 ± 0.03 (4)	1.07	0.96 (2)	---	0.5 (2)	1.5	---	0.8	0.85 ± 0.13 (3)	0.87
F	ppm	500	---	200	---	---	1740 (1)	---	---	---	---	---
Fe	%	1.43 ± 0.02	1.41 ± 0.18 (5)	7.23 ± 0.03	7.19 ± 0.08 (3)	11.3 ± 1.2	10.7 ± 0.6 (7)	3.35 ± 0.10	---	3.91 ± 0.10	3.90 ± 0.21 (11)	3.00
FeO	%	1.36 ± 0.02	---	7.64 ± 0.03	---	---	---	---	---	---	---	---
Ga	ppm	---	11 (2)	---	57 (1)	---	38 (1)	---	---	---	40 (2)	---
Gd	ppm	5.3	5.0 ± 0.5 (3)	---	2.7 (2)	---	---	---	---	---	---	---
Ge	ppm	---	---	---	---	---	---	1.4	---	---	---	---
H	%	---	0.089 (1)	---	---	---	---	---	---	---	2.23 (1)	---
Hf	ppm	8.4	8.0 ± 1.4 (3)	1.6	1.52 (2)	---	1.39 (1)	---	---	4.4	4.6 ± 0.5 (3)	4.41
Hg	ppb	---	---	---	---	1100 ± 500	1130 ± 180 (5)	63 ± 12	---	---	---	---
I	ppm	---	---	---	---	---	---	---	---	20	18 (2)	---
In	ppm	---	0.044 (1)	---	---	---	---	---	---	1.0	0.98 (1)	---
K	%	3.45 ± 0.02	3.7 ± 0.4 (4)	0.155 ± 0.007	0.17 (1)	1.2	1.07 (2)	1.4	---	1.0	1.03 ± 0.06 (5)	---
La	ppm	---	32 ± 5 (4)	---	6.7 (2)	9	15 (1)	---	---	42	39 ± 3 (5)	33.3
Li	ppm	---	---	---	---	---	---	49	---	---	---	---
Lu	ppb	730	780 ± 50 (4)	340	342 (1)	---	---	---	---	---	34 (1)	---
Mg	%	0.14	---	5.1	4.8 (2)	2.4	1.8 (3)	1.09 ± 0.08	---	0.8	0.77 ± 0.04 (5)	---
Mn	ppm	400 ± 15	401 ± 26 (4)	1290 ± 20	1200 ± 90 (3)	785 ± 97	760 ± 13 (6)	375 ± 20	---	860	821 ± 47 (13)	---
Mo	ppm	---	3.7 (2)	---	---	---	25 (1)	2.0	---	---	19 (2)	14
N-Total	%	---	---	---	---	---	---	---	---	---	3.25 (1)	---

TABLE 15 (cont)

Element	Units	278 NBS (1981)	278 Literature x̄ ± s (n)	688 NBS (1981)	688 Literature x̄ ± s (n)	1645 NBS (1978)	1645 Literature x̄ ± s (n)	1646 NBS (1982)	1646 Literature x̄ ± s (n)	1648 NBS (1978)	1648 Literature x̄ ± s (n)	1649 NBS (1982)
N-Kjeldahl	ppm	---	---	---	---	797 ± 48	---	---	---	---	---	---
Na	%	3.59 ± 0.04	3.3 ± 0.5 (4)	1.60 ± 0.02	1.4 ± 0.3 (3)	0.55	0.55 (2)	2.0	---	0.40	0.46 ± 0.07 (4)	---
Nb	ppm	---	---	---	---	---	1.4 (1)	---	---	---	22 (1)	---
Nd	ppm	---	28 (1)	---	10 (1)	---	---	---	---	---	---	---
NH_4	%	---	---	---	---	---	---	---	---	2.01 ± 0.08	---	---
Ni	ppm	3.6 ± 0.3	---	150	123 (1)	45.8 ± 2.9	42 ± 9 (11)	32 ± 3	---	82 ± 3	88 ± 13 (7)	---
NO_3	%	---	---	---	---	---	---	---	---	1.07 ± 0.06	---	---
P	ppm	160 ± 13	---	580 ± 10	---	510 ± 14	---	540 ± 50	---	---	---	---
Pb	ppm	16.4 ± 0.2	---	3.3 ± 0.2	---	714 ± 28	708 ± 19 (8)	28.2 ± 1.8	---	6550 ± 80	6500 ± 300 (9)	---
Pr	ppm	---	---	---	---	---	14 (1)	---	---	---	8 (1)	---
Rb	ppm	127.5 ± 0.3	137 ± 7 (3)	1.91 ± 0.01	---	---	39.6 ± 1.4 (4)	87	---	---	54 ± 3 (4)	47
S	%	---	---	---	---	---	---	0.96	---	---	5.21 (1)	3.27
Sb	ppm	1.5	1.7 ± 0.1 (4)	---	0.44 (2)	51	31 ± 6 (10)	0.4	0.85 (1)	45	44 ± 2 (5)	29.9
Sc	ppm	5.1	4.9 ± 0.5 (4)	38.1	36.2 (2)	2	2.6 (2)	10.8	10.4 (1)	7	6.7 ± 0.1 (4)	5.73
Se	ppm	---	---	---	---	---	1.2 ± 0.3 (4)	0.6	---	24	25 ± 2 (4)	25.6
Si	%	34.11 ± 0.06	34.9 (2)	22.6 ± 0.05	24.6 (1)	24	30.6 (1)	31	---	12.5	13.5 ± 1.7 (6)	---
Sm	ppm	5.7	5.66 ± 0.04 (4)	2.79	2.3 ± 0.2 (3)	---	---	---	---	4.4	4.2 ± 0.2 (3)	4.71
Sn	ppm	---	---	---	---	---	313 (1)	---	---	---	147 (1)	56
SO_4	%	---	---	---	---	---	---	---	---	15.42 ± 0.14	---	---
Sr	ppm	63.5 ± 0.1	---	169.2 ± 0.7	179. (1)	---	900 ± 90 (4)	---	---	---	207 ± 15 (3)	---
Ta	ppm	1.2	1.26 ± 0.05 (3)	---	0.31 (2)	---	0.22 (1)	---	---	---	7.0 (2)	---
Tb	ppm	1.0	1.18 ± 0.06 (4)	0.448	0.49 (2)	---	---	---	---	---	---	---
Te	ppb	---	---	---	---	---	---	500	---	---	---	---
Th	ppm	12.4 ± 0.3	12.6 ± 0.4 (4)	0.33 ± 0.02	0.46 (1)	1.62 ± 0.22	1.8 (1)	10	---	7.4	7.6 ± 0.2 (3)	6.63
Ti	ppm	1470 ± 40	1475 (2)	7000 ± 60	7100 (2)	---	590 ± 220 (5)	5100	---	4000	4020 ± 140 (8)	---
Tl	ppm	0.54 ± 0.04	---	---	---	1.44 ± 0.07	1.9 (1)	0.5	---	---	---	---
Tm	ppb	---	301 (1)	---	---	---	---	---	---	---	---	---
U	ppm	4.58 ± 0.04	4.6 ± 0.3 (4)	0.37	0.31 (2)	1.11 ± 0.05	1.1 ± 0.3 (3)	---	3.0 (1)	5.5 ± 0.1	5.6 ± 0.2 (3)	2.65
V	ppm	---	---	250	235 (1)	23.5 ± 6.9	26 ± 3 (3)	88 ± 10	---	130	118 ± 9 (5)	---
W	ppm	---	---	---	---	---	---	---	---	4.8	4.2 ± 0.7 (3)	1.8
Y	ppm	---	---	---	---	---	7.2 (2)	---	---	---	5 (1)	---
Yb	ppm	4.5	4.2 ± 0.8 (4)	2.09	1.86 (1)	---	0.6 (1)	---	---	---	2 (1)	---
Zn	ppm	55	56 (2)	58.0	---	1720 ± 169	1640 ± 120 (12)	138 ± 6	---	4760 ± 140	4700 ± 160 (15)	1670
Zr	ppm	---	298 (2)	---	59 (1)	---	63 (2)	---	---	---	169 (1)	---

TABLE 16

ELEMENTAL CONCENTRATIONS AND URANIUM ISOTOPE RATIOS IN SEVERAL NBS STANDARD REFERENCE MATERIALS

SRM No.	Element	Units	Literature			Certification Date
			NBS	$\bar{x} \pm s$ (n)	Range	
1619	S	ppm	7190 ± 70	---	---	1981
1620a	S	%	4.504 ± 0.010	---	---	1981
1621	S	%	1.05 ± 0.02	1.00 ± 0.07 (4)	0.90 - 1.06	1967
1621a	S	%	0.94 ± 0.01	0.94 ± 0.03 (6)	0.89 - 0.973	1980
1621b	S	%	0.950 ± 0.005	---	---	1981
1622a	S	%	1.96 ± 0.04	1.90 ± 0.20 (4)	1.60 - 2.02	1979
1622b	S	%	1.982 ± 0.018	---	---	1981
1623	S	ppm	2680 ± 40	2710 ± 130 (4)	2600 - 2900	1971
1623a	S	ppm	2400 ± 30	---	---	1981
1624	S	ppm	2110 ± 40	2050 ± 120 (4)	1900 - 2200	1971
1624a	S	ppm	1410 ± 20	---	---	1981
1631A	Ash	%	5.00 ± 0.02	---	---	1974
	S	ppm	5460 ± 30	5530 ± 270 (4)	5260 - 5900	---
1631B	Ash	%	14.59 ± 0.09	---	---	1974
	S	%	2.016 ± 0.014	1.99 ± 0.05 (4)	1.92 - 2.04	---
1631C	Ash	%	6.17 ± 0.02	---	---	1974
	S	%	3.020 ± 0.008	3.04 ± 0.07 (4)	2.98 - 3.12	---
1641	Hg	ppm	1.49 ± 0.05	1.47 (1)	---	1975
1642	Hg	ppb	1.18 ± 0.05	---	---	1974
1642A	Hg	ppb	1.10 ± 0.06	1.30 (1)	---	1977
950A	U-238/235	---	"normal"	138.1 ± 0.6 (4)	137.55 - 138.9	1961
950B	U-238/234	---	"normal"	17630 (1)	---	1978
	U-238/235	---	"normal"	137.4 (1)	---	1978

TABLE 17

ELEMENTAL CONCENTRATIONS IN NBS FUEL OIL STANDARD REFERENCE MATERIALS

		1634				1634A
			Literature			
Element	Units	NBS (1978)	$\bar{x} \pm s$ (n)	Median	Range	NBS (1982)
As	ppb	95	81 ± 26 (5)	70	56 - 120	120
Au	ppb	---	24 (1)	---	---	---
Be	ppb	<10	---	---	---	6
Br	ppb	---	39.8 ± 0.9 (4)	40	39 - 240	<1
Ca	ppm	---	15 (1)	---	---	16
Cd	ppb	<10	5 (1)	---	---	2
Cl	ppm	--	8.1 ± 0.3 (3)	---	7.8 - 18	31
Co	ppb	---	310 ± 50 (5)	301	250 - 400	300
Cr	ppb	90	97 ± 15 (4)	---	80 - 116	700
Cu	ppb	---	220 (1)	---	---	---
Fe	ppm	13.5 ± 1.0	14.2 ± 2.3 (14)	14.1	10.8 - 25	31
Hg	ppb	2.3	12 (2)	---	2.3 - 22	<2
K	ppm	---	315 (1)	---	---	---
Mn	ppb	120	200 ± 90 (4)	---	110 - 320	190 ± 20
Mo	ppb	---	870 (1)	---	---	120
Na	ppm	---	11.9 ± 0.9 (4)	---	11.2 - 13.2	87 ± 4
Ni	ppm	36 ± 4	36 ± 3 (16)	36.4	31.1 - 39.5	29 ± 1
Pb	ppb	41 ± 5	46 (2)	---	41 - 50	2.80 ± 0.08
S	%	2.14 ± 0.02	2.13 ± 0.11 (9)	2.15	2.0 - 2.3	2.85 ± 0.05
Sb	ppb	---	11 ± 2 (3)	---	10 - 14	---
Se	ppb	---	187 ± 15 (3)	---	138 - 200	150 ± 20
V	ppm	320 ± 15	308 ± 16 (14)	312	266 - 326	56 ± 2
Zn	ppb	230 ± 50	320 ± 160 (3)	---	170 - 480	2.7 ± 0.2

TABLE 18

ELEMENTAL CONCENTRATIONS IN NBS SULFUR IN COAL STANDARD REFERENCE MATERIALS

Element	Units	2682 NBS (1982)	2683 NBS (1982)	2684 NBS (1982)	2685 NBS (1982)
Al	%	0.46	0.86	1.1	1.7
As	ppm	1.0	3.6	3.9	12
Ash	%	6.37 ± 0.18	6.85 ± 0.02	11.09 ± 0.18	16.53 ± 0.15
B	ppm	39	67	114	109
Ba	ppm	382	71	41	105
Br	ppm	3.7	17	11	5.6
C	%	75	79	68	66
Ca	%	1.1	0.20	0.44	0.52
Ce	ppm	10	9	12	18
Co	ppm	1.7	2.2	3.9	4.6
Cr	ppm	15	11	17	22
Cs	ppm	<0.1	0.4	1.2	1.3
Eu	ppb	170	180	230	360
Fe	%	0.24	0.76	1.5	2.9
H	%	4.7	5.0	4.8	4.6
H_2O^-	%	18	1.4	3.6	1.8
Hf	ppb	600	420	570	910
K	ppm	100	800	2000	2600
La	ppm	5.2	5.1	6.7	10
Mg	ppm	6900	1900	3100	4200
Mn	ppm	26	13	36	41
N	%	0.8	1.6	1.6	1.1
Na	ppm	1000	500	300	800
Rb	ppm	<2	5.3	15	17
S	%	0.47 ± 0.03	1.85 ± 0.06	3.00 ± 0.13	4.62 ± 0.18
Sb	ppb	190	280	350	360
Sc	ppm	1.5	1.9	2.7	3.7
Se	ppm	0.91	1.2	1.9	1.9
Sm	ppm	0.78	0.86	1.1	1.7
Th	ppm	1.5	1.4	2.0	2.7
Ti	ppm	500	400	600	900
U	ppb	520	420	900	950
V	ppm	15	14	22	31
W	ppm	1.8	0.48	0.56	1.2
Zn	ppm	8.6	9.5	110	17

TABLE 19

ELEMENTAL CONCENTRATIONS IN NBS WATER STANDARD REFERENCE MATERIALS

		1643		1643A	
Element	Units	NBS (1977)	Literature $\bar{x} \pm s$ (n)	NBS (1980)	Literature $\bar{x} \pm s$ (n)
Ag	ppb	3.4 ± 0.4	---	2.8 ± 0.3	2.7 (2)
Al	ppb	77 ± 1	81 ± 3 (3)	---	57 (1)
As	ppb	76 ± 1	76 ± 4 (4)	76 ± 7	73 (2)
Ba	ppb	18	18.3 ± 0.9 (5)	46 ± 2	46 (2)
Be	ppb	19 ± 1	20 (2)	19 ± 2	---
Ca	ppm	---	24 (1)	---	28 (2)
Cd	ppb	8 ± 1	<15 (1)	10 ± 1	9.3 ± 3.8 (3)
Cr	ppb	15 ± 1	---	17 ± 2	19 (2)
Co	ppb	17 ± 1	20 (1)	19 ± 2	---
Cu	ppb	16 ± 1	15.7 ± 1.6 (3)	18 ± 2	15 ± 4 (3)
Fe	ppb	75 ± 1	79 (2)	88 ± 4	70 ± 40 (3)
Hg	ppb	2	---	<0.2	---
K	ppm	---	---	---	1.6 (2)
Mg	ppm	---	5.7 (1)	---	7.8 (2)
Mn	ppb	29 ± 1	27.6 ± 1.2 (4)	31 ± 2	21 (2)
Mo	ppb	105 ± 3	107 (2)	95 ± 6	---
Na	ppm	--	8.8 (1)	---	9 (2)
Ni	ppb	49 ± 1	49.8 ± 1.4 (4)	55 ± 3	57 (1)
NO_3	ppm	---	---	---	1.0 (1)
Pb	ppb	20 ± 1	23 (1)	27 ± 1	32 ± 8 (3)
Se	ppb	12 ± 1	11 (2)	11 ± 1	10 (1)
Sr	ppb	212 ± 4	---	239 ± 5	236 (1)
Sn	ppb	---	<20 (1)	---	---
V	ppb	50 ± 1	45 (2)	53 ± 3	--
Zn	ppb	65 ± 3	62 (2)	72 ± 4	66 ± 10 (3)

TABLE 20

NBS ENVIRONMENTAL RADIOACTIVITY STANDARD REFERENCE MATERIALS

		4350		4350B		4353	
Isotope	Units	NBS (1975)	Literature	NBS (1981)	Literature	NBS (1981)	Literature
K-40	pCi/g	1.40 ± 0.13	---	15	---	19.5 ± 1.9	---
	Bq/g	$5.4 \pm 0.5 \times 10^{-1}$	---	5.6×10^{-1}	---	$7.23 \pm 0.69 \times 10^{-1}$	---
Mn-54	fCi/g	57 ± 7	---	---	---	---	---
	Bq/g	$2.1 \pm 0.2 \times 10^{-3}$	---	---	---	---	---
Fe 55	pCi/g	43	---	0.46	---	0.067	---
	Bq/g	1.6	---	1.7×10^{-2}	---	2.49×10^{-3}	---
Co-60	pCi/g	4.00 ± 0.22	---	0.125	0.13 (1)	---	---
	Bq/g	$1.48 \pm 0.08 \times 10^{-1}$	---	$4.64 \pm 0.23 \times 10^{-3}$	---	---	---
Zn-65	fCi/g	350 ± 47	---	---	---	---	---
	Bq/g	$1.30 \pm 0.18 \times 10^{-2}$	---	---	---	---	---
Sr-90 and Y-90	fCi/g	278 ± 42	---	140		206 ± 21	---
	Bq/g	$1.03 \pm 0.15 \times 10^{-2}$	---	5.3×10^{-3}	---	$7.63 \pm 0.78 \times 10^{-3}$	---
Sb-125	fCi/g	95	---	---	---	---	---
	Bq/g	3.5×10^{-3}	---	---	---	---	---
Cs-137	pCi/g	2.70 ± 0.12	2.5 (1)	0.783 ± 0.049	0.85 (1)	0.464 ± 0.021	0.52 (1)
	Bq/g	$1.00 \pm 0.04 \times 10^{-1}$	---	$2.90 \pm 0.18 \times 10^{-2}$	---	$1.76 \pm 0.08 \times 10^{-2}$	---
Eu-152	pCi/g	6.50 ± 0.38	---	0.824 ± 0.033	---	---	---
	Bq/g	$2.4 \pm 0.1 \times 10^{-1}$	---	$3.05 \pm 0.12 \times 10^{-2}$	---	---	---
Eu-154	pCi/g	1.4 ± 0.1	---	0.102 ± 0.015	---	---	---
	Bq/g	$5.2 \pm 0.4 \times 10^{-2}$	---	$3.78 \pm 0.57 \times 10^{-2}$	---	---	---
Eu-155	fCi/g	380	---	---	---	---	---
	Bq/g	1.4×10^{-2}	---	---	---	---	---
Tl-208	fCi/g	380	---	---	---	---	---
	Bq/g	14×10^{-2}	---	---	---	---	---
Pb-212	pCi/g	1.6	---	---	---	---	---
	Bq/g	6×10^{-2}	---	---	---	---	---
Bi-212	pCi/g	1.4	---	---	---	---	---
	Bq/g	5×10^{-2}	---	---	---	---	---
Pb-214	pCi/g	1.1	---	---	---	---	---
	Bq/g	4.1×10^{-2}	---	---	---	---	---
Bi-214	pCi/g	0.92	---	---	---	---	---
	Bq/g	3.4×10^{-2}	--	---	---	---	---
Ra-226	pCi/g	0.84	---	0.967 ± 0.097	---	1.16 ± 0.08	---
	Bq/g	3.1×10^{-2}	---	$3.58 \pm 0.36 \times 10^{-2}$	---	$4.30 \pm 0.28 \times 10^{-2}$	---
Ac-228	pCi/g	0.92 ± 0.18	---	---	---	1.88 ± 0.10	---
	Bq/g	$3.4 \pm 0.7 \times 10^{-2}$	---	---	---	$6.98 \pm 0.36 \times 10^{-2}$	---
Th-228	pCi/g	1.07	---	0.904	---	1.91 ± 0.10	---
	Bq/g	3.95×10^{-2}	---	3.35×10^{-2}	---	$7.08 \pm 0.36 \times 10^{-2}$	---
Th-230	pCi/g	0.988	---	0.796	0.80 (1)	1.20 ± 0.06	1.20 (1)
	Bq/g	3.66×10^{-2}	---	2.95×10^{-2}	---	$4.43 \pm 0.22 \times 10^{-2}$	---
Th-232	pCi/g	0.84	---	0.896	---	1.87 ± 0.10	---
	Bq/g	3.4×10^{-2}	---	3.32×10^{-2}	---	$6.93 \pm 0.35 \times 10^{-2}$	---
Pa-231	fCi/g	47	---	---	---	---	---
	Bq/g	1.75×10^{-3}	---	---	---	---	---
U-234	pCi/g	1.34	---	0.896	---	1.06 ± 0.04	---
	Bq/g	4.96×10^{-2}	---	3.32×10^{-2}	---	$3.91 \pm 0.14 \times 10^{-2}$	---
U-235	fCi/g	50	---	46	---	51	---
	Bq/g	1.85×10^{-3}	---	1.7×10^{-3}	---	1.9×10^{-3}	---
U-238	pCi/g	1.14	---	0.832	---	1.05 ± 0.05	---
	Bq/g	4.42×10^{-2}	---	3.08×10^{-2}	---	$3.89 \pm 0.20 \times 10^{-2}$	--
Pu-238	fCi/g	2.0	---	0.35 ± 0.06	0.2 (1)	4.5 ± 0.5	3.5 (1)
	Bq/g	6.7×10^{-5}	---	$1.3 \pm 0.2 \times 10^{-5}$	---	$1.66 \pm 0.18 \times 10^{-4}$	---
Pu-239 and Pu-240	fCi/g	38 ± 3	33 (1)	13.7 ± 0.8	11.6 (1)	217 ± 16	202 (1)
	Bq/g	$1.4 \pm 0.1 \times 10^{-3}$	---	$5.08 \pm 0.29 \times 10^{-4}$	---	$8.03 \pm 0.60 \times 10^{-3}$	---
Pu-239	A%	---	---	89.91	---	94.57	---
Pu-240	A%	---	---	9.43	---	5.23	---
Pu-241	A%	---	---	0.318	---	0.178	---
Pu-242	A%	---	---	0.336	--	0.023	---
Am-241	fCi/g	8.4	---	4.0 ± 0.8	5 (1)	33.8 ± 2.5	42 (1)
	Bq/g	3.15×10^{-4}	---	$1.5 \pm 0.3 \times 10^{-4}$	---	$1.25 \pm 0.09 \times 10^{-3}$	---
I	ppm	---	5.4 (1)	---	---	---	---
I-129	fCi/g	---	0.032 (1)	---	---	---	---

TABLE 21

ELEMENTAL CONCENTRATIONS IN VARIOUS NBS STANDARD REFERENCE MATERIALS

		1A		1B		1C	70		70A		76	
Element	Units	NBS (1931)	Literature $\bar{x} \pm s$ (n)	NBS (1966)	Literature $\bar{x} \pm s$ (n)	NBS (1978)	NBS (1926)	Literature $\bar{x} \pm s$ (n)	NBS (1981)	Literature $\bar{x} \pm s$ (n)	NBS (1927)	Literature $\bar{x} \pm s$ (n)
Al	%	2.20	2.25 ± 0.10 (5)	0.592	0.57 (2)	0.69 ± 0.02	9.54	---	9.47	---	19.93	20.0 (1)
B	ppm	---	90 (2)	---	---	---	---	---	---	---	---	---
Ba	ppm	---	---	---	86 (1)	---	300	380 (1)	180	121 (2)	---	---
Be	ppb	---	---	---	420 (1)	---	---	---	---	---	---	---
C	%	9.76	9.73 (1)	11.0	---	---	---	---	---	0.005 (1)	---	---
Ca	%	29.54	29.4 ± 0.5 (4)	36.4	36.4 (2)	36.0 ± 0.2	0.05	---	0.079	0.064 (1)	0.19	0.16 (1)
Cd	ppb	---	---	---	52 (1)	---	---	---	---	8.7 (1)	---	---
Co	ppm	---	3.9 (1)	---	4.1 (1)	---	---	0.1 (1)	---	0.2 (1)	---	---
Cr	ppm	---	26 (2)	---	15.7 (1)	---	---	---	---	---	---	---
Cs	ppm	---	---	---	---	---	---	6.6 (1)	---	9.6 (2)	---	---
Cu	ppm	---	3 (1)	---	5.5 (1)	---	---	---	---	---	---	---
Eu	ppm	---	---	--	1.7 (1)	---	---	0.4 (1)	---	0.57 (1)	---	---
Fe	%	1.14	1.07 ± 0.11 (6)	0.52	0.52 (2)	0.38 ± 0.02	0.02	0.03 (1)	0.052	0.054 (2)	1.66	1.53 (2)
Ga	ppm	---	4 (1)	---	---	---	---	---	---	---	---	---
Hg	ppb	---	58 (2)	---	15.7 (1)	---	---	98 (1)	---	15 (1)	---	---
K	%	0.59	0.69 (1)	0.21	0.20 (1)	0.23 ± 0.01	10.44	---	9.79	9.74 ± 0.05 (3)	1.28	1.29 (1)
La	ppm	---	100 (1)	---	---	---	---	---	---	---	---	---
Li	ppm	---	---	---	---	---	---	---	---	---	510	---
Lu	ppb	---	---	---	---	---	---	---	---	8 (1)	---	---
Mg	%	1.32	1.34 ± 0.05 (4)	0.22	0.22 (2)	0.25 ± 0.03	0.008	---	---	---	0.35	0.28 (1)
Mn	ppm	290	440 ± 104 (3)	1500	1470 (2)	190 ± 40	8	---	---	---	---	230 (1)
Na	%	0.29	0.25 (2)	0.03	0.026 (1)	0.015 ± 0.007	1.77	---	1.89	1.86 ± 0.05 (3)	0.11	---
Ni	ppm	---	10 (1)	---	11 (1)	---	---	---	---	---	---	--
P	ppm	650	1075 (2)	350	370 (1)	174 ± 44	50	---	---	---	300	---
Pb	ppm	---	19 ± 2 (3)	---	9.5 (2)	---	---	---	---	---	---	---
Rb	ppm	---	---	---	---	---	---	470 (1)	550	528 ± 7 (7)	---	---
S	ppm	2600	2880 ± 140 (7)	---	100 (1)	---	---	---	---	3 (1)	---	---
Sc	ppm	---	15 (1)	---	---	---	---	0.04 (1)	---	0.11 (1)	---	---
Se	ppm	---	---	---	---	---	---	---	---	66 (1)	---	---
Si	%	6.59	6.60 ± 0.08 (5)	2.30	2.3 (2)	3.19 ± 0.04	31.13	---	31.3	---	25.54	25.8 (1)
Sn	ppm	---	1.68 (1)	---	---	---	---	---	---	0.75 (1)	---	---
Sr	ppm	1940	1910 ± 140 (4)	1200	1200 (2)	250	---	---	---	65 ± 1 (4)	---	85 (1)
Ta	ppb	---	---	---	---	---	---	---	---	150 (1)	---	---
Th	ppb	---	---	---	---	---	---	---	---	300 (1)	---	---
Ti	ppm	960	1050 ± 250 (5)	280	296 (2)	420 ± 60	10	---	60	---	13200	13400 (1)
Tl	ppm	---	---	---	---	---	---	---	---	2.8 (2)	---	---
V	ppm	---	30 (1)	---	30 (1)	---	---	---	---	---	120	---
Y	ppm	---	10 (1)	---	---	---	---	---	---	---	---	---
Yb	ppm	---	---	---	2.1 (1)	---	---	---	---	---	---	---
Zn	ppm	---	20 (2)	---	41 (1)	---	---	6.9 ± 0.8 (3)	---	---	---	---
Zr	ppm	---	60 (1)	---	16 (1)	---	---	---	---	---	520	---

TABLE 22

ELEMENTAL CONCENTRATIONS IN VARIOUS NBS STANDARD REFERENCE MATERIALS

		77		88		88A		91	
Element	Units	NBS (1927)	Literature $\bar{x} \pm s$ (n)	NBS (1928)	Literature $\bar{x} \pm s$ (n)	NBS (1982)	Literature $\bar{x} \pm s$ (n)	NBS (1931)	Literature $\bar{x} \pm s$ (n)
Al	%	31.42	31.0 (2)	0.035	---	0.10	0.06 (2)	3.18	3.2 (1)
B	ppm	---	---	---	---	---	---	---	302 (1)
Ba	ppm	---	---	---	---	---	13 (1)	---	79 (1)
Be	ppb	---	---	---	---	---	180 (1)	---	---
C	%	---	---	12.90	---	12.7	12.8 (1)	---	---
Ca	%	0.19	0.14 (1)	21.80	21.8 (1)	21.56	21.7 (2)	7.49	7.54 (1)
Cl	ppm	---	---	---	---	---	---	140	---
Co	ppm	---	---	---	0.7 (1)	---	3 (1)	---	4.5 (1)
Cr	ppm	---	---	---	3.9 (1)	---	11.7 (1)	---	26 (2)
Cu	ppm	---	---	---	---	---	2.5 (1)	---	16 (1)
Eu	ppm	---	---	---	---	---	1.2 (1)	---	---
F	%	---	---	---	---	---	---	5.72	5.68 ± 0.06 (6)
Fe	%	0.63	0.54 (2)	0.059	0.058 (1)	0.20	0.21 (2)	0.057	0.25 ± 0.24 (4)
Ga	ppm	---	---	---	---	---	---	---	12 (1)
Gd	ppm	---	---	---	---	---	3.4 (1)	---	---
Hg	ppb	---	---	---	---	---	28 (1)	---	---
K	%	1.75	1.79 (1)	0.025	---	0.10	0.085 (2)	2.70	2.68 (1)
Li	ppm	1600	---	---	---	---	---	---	---
Mg	%	0.30	0.22 (1)	12.95	---	12.8	13.0 (2)	---	0.006 (1)
Mn	ppm	---	80 (1)	44	---	230	180 (2)	---	51 (2)
Na	%	0.045	---	0.06	---	0.007	0.01 (1)	6.29	6.28 (2)
Ni	ppm	---	---	---	---	---	---	---	3 (2)
O	%	---	---	---	---	---	---	---	49.0 (1)
P	ppm	2000	---	13	---	40	145 (2)	96	---
Pb	ppm	---	---	---	---	---	27 (1)	900	600 (2)
S	ppm	---	---	270	287 ± 15 (3)	---	12 (2)	---	---
Si	%	15.12	15.32 (2)	0.14	---	0.56	0.41 (1)	31.54	31.9 ± 0.4 (3)
Sr	ppm	---	1200 (1)	<80	58 (2)	85	68 (2)	---	39 (1)
Ti	%	1.76	1.82 (1)	0.003	0.018 (2)	0.012	0.012 (2)	0.011	0.014 ± 0.002 (3)
U	ppb	---	---	---	---	---	---	---	540 (1)
V	ppm	180	---	---	---	---	9 (1)	---	43 (1)
Yb	ppm	---	---	---	---	---	1.2 (1)	---	---
Zn	ppm	---	---	---	---	---	4.1 (1)	640	---
Zr	ppm	670	---	---	---	---	---	70	47 (1)

TABLE 23

ELEMENTAL CONCENTRATIONS IN NBS CLAY STANDARD REFERENCE MATERIALS

		97		97A		98		98A	
Element	Units	NBS (1931)	Literature $\bar{x} \pm s$ (n)	NBS (1969)	Literature $\bar{x} \pm s$ (n)	NBS (1931)	Literature $\bar{x} \pm s$ (n)	NBS (1969)	Literature $\bar{x} \pm s$ (n)
Al	%	20.51	20.5 (2)	20.52	---	11.93	13.53 ± 0.07 (5)	17.56	---
B	ppm	---	64 (2)	---	69 (1)	---	140 ± 80 (4)	---	120 (1)
Ba	ppm	---	170 ± 80 (3)	670	660 (1)	---	680 ± 120 (3)	270	320 (2)
Be	ppm	---	1.3 (1)	---	3.6 (1)	---	4.1 (1)	---	5.9 (1)
C	ppm	---	3200 (1)	---	600 (1)	---	4000 (1)	---	8100 (1)
Ca	ppm	720	---	790	---	1500	1530 ± 60 (3)	---	---
Ce	ppm	---	59 (2)	---	160 (2)	---	127 (2)	---	200 (2)
Co	ppm	---	3.7 ± 0.6 (3)	---	4.4 (2)	---	15.8 ± 1.4 (5)	---	13 (3)
Cr	ppm	540	550 ± 60 (6)	200	190 (2)	140	150 ± 40 (9)	200	220 (2)
Cs	ppm	---	2.4 (1)	---	1.6 (1)	---	11 (1)	---	6.2 (1)
Cu	ppm	24	18 ± 5 (4)	---	25 (1)	70	64 ± 24 (6)	---	120 (1)
Dy	ppm	---	4.3 (1)	---	8.9 (1)	---	7.1 (1)	---	18 (1)
Eu	ppm	---	1.4 (2)	---	3.7 (1)	---	1.9 (2)	---	3.4 (2)
Fe	%	0.68	0.66 ± 0.01 (4)	0.31	0.30 (1)	1.43	1.32 ± 0.14 (6)	0.94	0.88 (1)
Ga	ppm	---	45 (1)	---	32 (1)	---	52 (2)	---	23 (1)
Hf	ppm	---	40 (1)	---	13 (2)	---	7 (1)	---	7.3 (1)
Hg	ppb	---	114 (2)	---	388 (1)	---	460 (1)	---	39 (1)
K	%	0.45	---	0.41	---	2.63	---	0.863	---
La	ppm	---	34 (1)	---	70 (2)	---	94 ± 49 (3)	---	130 (2)
Li	ppm	1070	1074 (1)	510	439 (1)	140	144 (1)	320	290 (1)
Lu	ppm	---	0.96 (1)	---	0.98 (1)	---	0.65 (1)	---	1.2 (1)
Mg	ppm	1600	1450 (2)	900	---	4300	4300 ± 200 (5)	2500	---
Mn	ppm	15	50 ± 43 (3)	---	5.2 (1)	40	69 ± 32 (6)	---	41 (1)
Mo	ppm	---	2 (1)	---	---	---	1.0 (1)	---	---
Na	ppm	520	---	270	---	1900	---	610	---
Nb	ppm	---	36 (1)	---	39 (1)	---	---	---	40 (1)
Nd	ppm	---	19 (1)	---	88 (1)	---	49 (1)	---	98 (1)
Ni	ppm	---	34 (2)	---	81 (1)	---	44 ± 8 (3)	---	160 (1)
P	ppm	350	---	1600	---	350	370 (2)	480	---
Pb	ppm	---	35 (2)	---	42 (1)	---	44 (2)	---	69 (1)
Rb	ppm	---	24 (1)	---	---	---	154 (1)	---	35 (1)
S	ppm	170	176 ± 22 (3)	---	308 (1)	280	273 ± 25 (3)	---	1300 (1)
Sb	ppm	---	1.4 (1)	---	0.8 (1)	---	1.3 (1)	---	2.3 (1)
Sc	ppm	---	16 (2)	---	26 (2)	---	25 ± 4 (3)	---	32 (2)
Se	ppm	---	---	---	---	---	1.2 ± 0.2 (3)	---	---
Si	%	20.02	20.0 (1)	20.39	---	27.60	27.60 ± 0.01 (3)	22.85	---
Sm	ppm	---	5.8 (1)	---	14 (2)	---	8.3 (2)	---	12 (2)
Sn	ppm	---	8.6 (2)	---	6.3 (2)	---	6.5 (1)	---	5.0 (2)
Sr	ppm	---	73 ± 38 (3)	1500	860 (1)	---	290 ± 70 (5)	330	440 (1)
Ta	ppm	---	4.2 (1)	---	3.2 (1)	---	2.2 (1)	---	2.5 (1)
Tb	ppm	---	1.27 (1)	---	2.8 (1)	---	1.4 (1)	---	2.9 (1)
Th	ppm	---	37 (1)	---	31 (1)	---	20 (1)	---	24 (1)
Ti	%	1.43	1.36 (2)	1.14	---	0.88	0.90 ± 0.06 (6)	0.964	---
Tl	ppb	---	---	---	---	---	---	---	350 (1)
U	ppm	---	---	---	6.6 (1)	---	---	---	---
V	ppm	220	240 ± 90 (4)	---	360 (1)	140	180 ± 80 (8)	---	550 (1)
Y	ppm	---	35 (2)	---	120 (1)	---	38 ± 9 (3)	---	180 (1)
Yb	ppm	---	7.1 (2)	---	8.9 (2)	---	11 ± 9 (3)	---	9.8 (2)
Zn	ppm	---	92 (2)	---	---	---	125 (1)	---	---
Zr	ppm	1800	1390 (1)	---	520 (2)	300	320 ± 40 (5)	---	740 (1)

TABLE 24

ELEMENTAL CONCENTRATIONS IN NBS FEDLSPAR AND PHOSPHATE ROCK STANDARD REFERENCE MATERIALS

		99		99A		120A		120B	
Element	Units	NBS (1931)	Literature $\bar{x} \pm s$ (n)	NBS (1981)	Literature $\bar{x} \pm s$ (n)	NBS (1961)	Literature $\bar{x} \pm s$ (n)	NBS (1979)	Literature $\bar{x} \pm s$ (n)
Ag	ppm	—	—	—	—	—	—	—	5 (1)
Al	%	10.08	10.1 (1)	10.8	—	0.50	0.45 (1)	—	0.60 ± 0.10 (5)
B	ppm	—	10 (1)	—	—	—	—	—	—
Ba	ppm	90	—	2300	2600 (1)	—	—	—	61 (1)
Be	ppm	—	—	—	—	—	—	—	2.9 (1)
C	%	—	—	—	0.03 (1)	0.87	1.04 (1)	0.76	1.4 (2)
Ca	%	0.26	—	1.53	1.51 (1)	36.0	36.1 (2)	35.7	33.7 ± 0.9 (5)
Cd	ppm	—	—	—	—	—	—	18	24 (2)
Ce	ppm	—	8 (1)	—	5 (1)	—	—	—	182 (1)
Co	ppm	—	0.74 (2)	—	0.1 (1)	—	—	—	3 (1)
Cr	ppm	—	7 ± 5 (3)	—	—	—	—	—	63 (1)
Cs	ppm	—	0.7 (1)	—	5 (2)	—	—	—	—
Cu	ppm	—	21 (2)	—	—	—	—	—	10 (2)
Eu	ppm	—	0.35 (1)	—	0.82 (1)	—	—	—	4.8 (1)
F	%	—	—	—	—	3.92	3.88 ± 0.09 (5)	3.84	3.88 ± 0.11 (4)
Fe	ppm	470	500 (1)	450	480 (2)	6990	7340 (1)	—	7500 ± 500 (7)
Ga	ppm	—	30 (1)	—	—	—	—	—	—
Gd	ppm	—	—	—	—	—	—	—	21 (1)
Hf	ppm	—	0.9 (1)	—	0.3 (1)	—	—	—	—
Hg	ppb	—	—	—	165 (1)	—	58 (1)	—	—
K	%	0.34	—	4.3	4.27 ± 0.12 (3)	0.083	—	0.087	0.070 ± 0.09 (4)
La	ppm	—	—	—	22 (1)	—	—	—	89 (1)
Mg	ppm	320	—	120	130 (1)	1600	1400 (1)	1700	2000 ± 600 (4)
Mn	ppm	<70	30 (2)	—	—	150	160 (1)	250	210 ± 50 (6)
Na	%	7.96	—	4.6	4.55 ± 0.09 (3)	0.30	—	0.26	0.26 ± 0.03 (4)
Nd	ppm	—	—	—	—	—	—	—	127 (1)
Ni	ppm	—	15 (1)	—	—	—	—	—	17 ± 6 (3)
O	%	—	—	—	—	—	—	—	36.0 (1)
P	%	0.062	0.057 (1)	0.009	—	15.0	—	15.1	14.9 ± 0.9 (5)
Pb	ppm	—	110 (2)	—	—	—	—	—	30 (2)
Rb	ppm	—	23 (1)	—	104 (2)	—	—	—	—
S	ppm	—	—	—	19 (1)	—	2900 (1)	—	2200 (1)
Sb	ppm	—	0.5 (1)	—	—	—	—	—	10 (1)
Sc	ppm	—	0.83 (1)	—	0.23 (1)	—	—	—	—
Si	%	32.06	32.0 (2)	30.4	30.4 (1)	—	—	2.18	2.18 ± 0.13 (6)
Sm	ppm	—	—	—	0.5 (1)	—	—	—	38 (1)
Sn	ppb	—	—	—	450 (1)	—	—	—	—
Sr	ppm	—	220 ± 160 (3)	—	—	—	—	—	700 (1)
Ta	ppm	—	1.9 (1)	—	—	—	—	—	—
Tb	ppb	—	280 (1)	—	—	—	—	—	—
Th	ppm	—	1.6 (1)	—	0.5 (1)	—	—	—	8.5 (2)
Ti	ppm	100	240 ± 220 (4)	40	—	720	720 (1)	900	850 ± 230 (5)
U	ppm	—	1.1 (1)	—	—	—	110 (1)	128.4 ± 0.5	131 (2)
V	ppm	—	—	—	—	—	—	—	170 ± 100 (3)
Y	ppm	—	10 (1)	—	—	—	—	—	—
Yb	ppm	—	1 (1)	—	—	—	—	—	13 (1)
Zn	ppm		16 ± 2 (3)	—	—	—	—	—	120 (2)
Zr	ppm	—	26 (2)	—	70 (1)	—	—	—	12 (1)

TABLE 25: ANALYTICAL METHODS CODE

CODE	SPECIFIC TECHNIQUES
Neutron Activation:	
NAA	General, Unspecified or Mixed Conditions
ITNA	Instrumental Thermal
IENA	Instrumental Epithermal
RTNA	Radiochemical Thermal
RENA	Radiochemical Epithermal
14NAA	14 MeV
TCGS	Thermal Neutron Capture Gamma Spectrometry
DNA	Delayed Neutron Assay
Atomic Absorption - Emission:	
AA	General, Flame AA, Unspecified or Mixed Conditions
FAA	Flameless AA
HAA	Hydride Evolution AA
CVAA	Cold Vapor AA
FE	Flame Emission - Flame Photometry - Atomic Emission
FAE	Flameless Atomic Emission
AF	Atomic Fluorescence
AE + AF	Atomic Emission + Atomic Fluorescence
X-ray Methods:	
XRF	General or Unspecified
EXRF	Energy Dispersive XRF
WXRF	Wavelength Dispersive XRF
CPXRF	Charged Particle Induced XRF
Optical Emission:	
OES	General, DC ARC
MPOES	Microwave Plasma OES
ICPES	Inductively Coupled Plasma OES
DCP	Direct Coupled Plasma OES
Gas Chromatography - Mass Spectrometry:	
GC	Gas Chromatography
IDMS	Isotope Dilution Mass Spectrometry
SSMS	Spark Source Mass Spectrometry
GC-MS	Gas Chromatography-Mass Spectrometry
GCMES	Gas Chromatography Microwave Emission
MS	Mass Spectrometry without Isotope Dilution
GC-AA	Gas Chromatography-Atomic Absorption Spectrometry

TABLE 25 (cont.)

Others:

AS	Alpha Spectrometry
ASV	Anodic Stripping Voltammetry
CB	Combustion, Elemental Analyzer
CHEM	Chemical
CHEML	Chemiluminescence, Candoluminescence
COLOR	Colorimetry, Photometry, Spectrophotometry
CPAA	Charged Particle Activation Analysis
CSV	Cathodic Stripping Voltammetry
ESCA	Electron Spectroscopy for Chemical Applications
FD	Freeze Drying
FLUOR	Fluorometry
GAMMA	Direct Gamma-Ray Counting
GRAV	Gravimetry
IC	Ion Chromatography
ISE	Ion Selective Electrodes
MECA	Molecular Emission Cavity Analysis
NM	Nuclear Method (General)
NT	Nuclear Track
PAA	Photon Activation Analysis, X-ray Activation Analysis
POL	Polarography
POT	Potentiometry
RR	Rapid Rock
SIMS	Secondary Ion Mass Spectrometry
TITR	Titrimetry
TURB	Turbidimetry
UU	Unspecified
VOLT	Voltammetry
VV	Various

TABLE 26: "WHOLE ROCK" CONCENTRATION SUMMATIONS OF MAJOR AND MINOR ELEMENTS IN COAL AND FLY ASH SRMS

ELEMENT (%)	SRM 1632	1632A	1633	1633A	1635
Al	1.73	2.95	12.60	14.40	0.31
Ba	0.03	0.01	0.26	0.14	--
C	70.40	66.00	3.30	--	62.60
Ca	0.42	0.24	4.60	1.12	0.55
Cl	0.09	0.08	--	--	--
Fe	0.86	1.12	6.14	9.45	0.23
H	4.20	3.85	0.11	0.04	4.07
K	0.28	0.41	1.69	1.89	0.01
Mg	0.16	0.12	1.60	0.43	0.10
N	1.27	1.23	--	--	1.26
Na	0.04	0.08	0.31	0.18	0.24
O	15.05	18.80	47.02	47.66	29.60
P	0.02	0.03	0.10	0.18	--
S	1.19	1.58	0.40	0.27	0.32
Si	3.17	6.01	22.10	23.50	0.54
Sr	0.01	--	0.14	0.08	0.01
Ti	0.09	0.16	0.73	0.81	0.02
Total	99.01	102.67	101.10	100.15	99.86

TABLE 27: ELEMENTAL DATA REPORTED BY YEAR

DATE	NO. REPORTED MEASUREMENTS
pre 1972	245
1972	127
1973	349
1974	669
1975	995
1976	905
1977	1603
1978	1192
1979	1393
1980	1581
1981	1424
1982	1761

TABLE 28

Distribution of SRM data by Analytical Technique

Analytical Method	Geological SRMs	Biological SRMs
Neutron Activation	3104	2566
Atomic Absorption	428	1034
X-ray Fluorescence	458	507
Optical Emission	453	1323
Mass Spectrometry	99	89
Colorimetry, Spectrophotometry	14	55
Photon Activation	332	104
Other	217	357
TOTAL	5105	6088

TABLE 29: COMMENT CODES FOR APPENDIX TABLES

CODE	DEFINITION
D	Same data apparently reported in two or more references
H	Hydride generation
L	Limit
R	Range
*	Not used in mean value calculation
1	Different nebulizers used for independent results
2	V2O5 catalyst used in dissolution
3	Different electrodes used for independent results
4	Aqueous slurry of reground sample
5	Different radioactive isotopes used for independent results
6	Different methods of standardization used for independent results
7	Different chemical separation methods used for independent results
8	Isotope dilution methods combined with spark source mass spectrometry
9	Gamma-gamma coincidence
10	Different neutron filters used for independent results by epithermal neutron activation
11	Different dissolution or matrix destruction methods used for independent results
12	Different methods of peak integration or dead time correction used for independent results by neutron activation
13	Different detectors used for independent results
14	Different furnace configuration used for independent results
15	Different laboratories prepared fused beads used for independent results
16	Different matrix correction methods used for independent results
17	Different laboratories reporting independent results in the same reference
18	Different bottles of reference material
19	Duplicate entries from same reference from previous data compilation source - reason unknown
20	Different emission-absorption lines used for independent results
21	Dichromate used for FeO determination
22	Vanadate used for FeO determination
23	Modified Penfield method used for H2O+ determination
24	Different irradiation containers used for independent results by neutron activation
25	Different colorimetric methods used in same reference for independent results
31	Different chemical methods used for independent results
32	Different background correction and/or X-ray tubes and/or crystals used for independent results by XRF
33	Different pellet sizes used for independent results by XRF
34	Analyzed on dry sample basis
35	Analyzed on as-received basis
36	OES pre-ignition at various temperatures for independent results

TABLE 30: MULTIPLIERS USED FOR OXIDE TO ELEMENT CONVERSIONS

OXIDE	MULTIPLIER	OXIDE	MULTIPLIER
Al_2O_3	0.529	MnO	0.774
B_2O_3	0.311	Mn_2O_3	0.696
BaO	0.896	Mn_3O_4	0.720
BeO	0.360	MoO_3	0.667
CO_2	0.273	Na_2O	0.742
CaO	0.715	Nd_2O_3	0.857
CdO	0.875	NiO	0.786
CoO	0.786	P_2O_5	0.436
Cr_2O_3	0.684	PbO	0.928
Cs_2O	0.943	Rb_2O	0.914
CuO	0.799	SiO_2	0.467
FeO+Fe_2O_3	1.112	SO_3	0.400
FeO	0.777	Sc_2O_3	0.652
Fe_2O_3	0.699	SrO	0.846
Ga_2O_3	0.592	TiO_2	0.599
H_2O	0.112	U_3O_8	0.848
K_2O	0.830	V_2O_5	0.560
La_2O_3	0.853	Y_2O_3	0.787
Li_2O	0.465	ZnO	0.803
MgO	0.603	ZrO_2	0.740

FIGURE 1
SUMMARY OF ELEMENTAL MEASUREMENTS REPORTED IN NBS BIOLOGICAL SRM's 1566-1577A

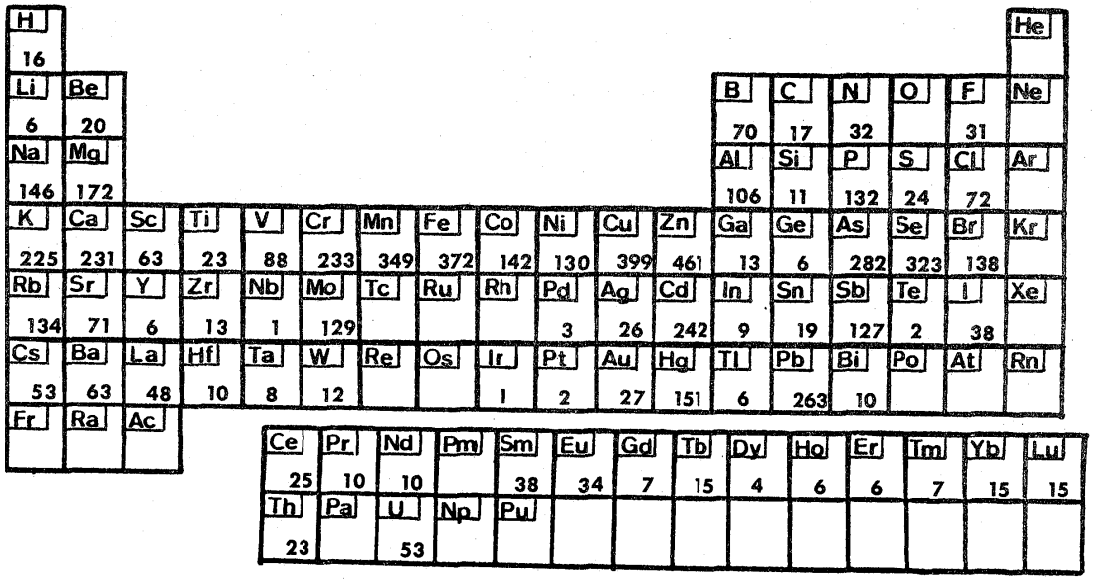


FIGURE 2
SUMMARY OF ELEMENTAL MEASUREMENTS REPORTED IN NBS GEOLOGICAL SRM's 278, 610-688 and 1630-1646

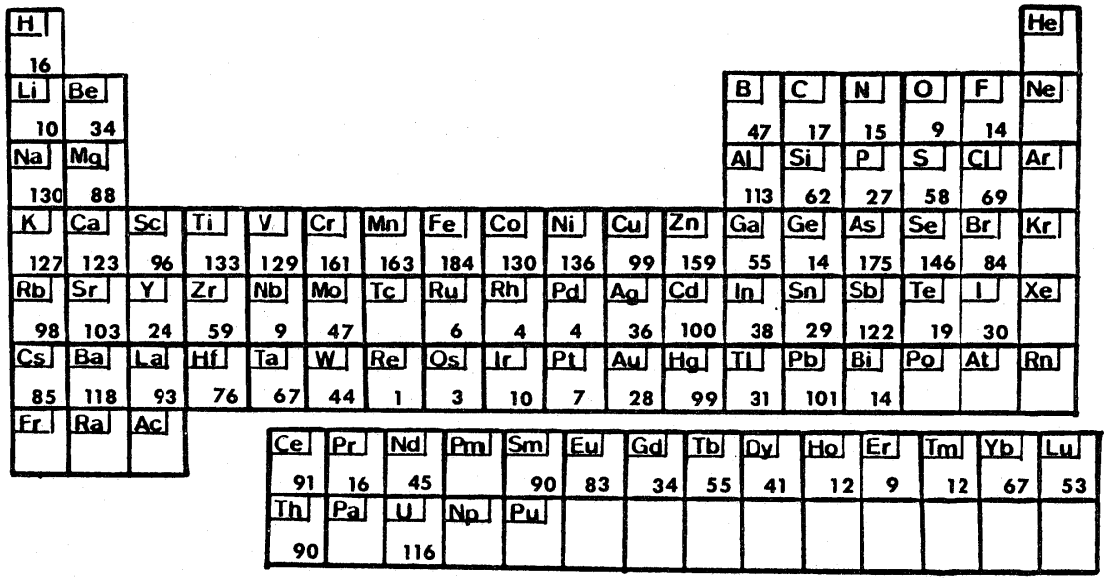


TABLE A

NBS SRM 120A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (ppm)					
4500.			ICPES	80BRE	01
C (%)					
1.04			CB	78TER	01
Ca (%)					
36.02			TITR	80HIT	02
36.1			ICPES	80BRE	01
F (%)					
3.8		11	ISE	69EDM	01
3.8	0.1		ISE	77HOP	01
3.88		11	ISE	69EDM	01
3.93		11	ISE	71PET	01
4.01		11	ISE	71PET	01
Fe (ppm)					
7340.			ICPES	80BRE	01
Hg (ppb)					
57.5	3.6		FAA	82FLA	01
Mg (ppm)					
1400.			ICPES	80BRE	01
Mn (ppm)					
160			ICPES	80BRE	01
S (ppm)					
2900.			CB	78TER	01
Ti (ppm)					
720.			ICPES	80BRE	01
U (ppm)					
110.	10		COLOR	81OGU	01

TABLE B

NBS SRM 120B—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppm)					
5.			ICPES	81CHU	01
Al (ppm)					
5100.	100.		AA	82JEN	01
5400.	500.		ICPES	82JEN	01
5870.	20.		ICPES	81CHU	01
6000.		35	TCGS	78GLA	04
7780.			EXRF	80DAL	01
8500.		*	SIMS	78MOR	01
As (ppm)					
	5.	L*	ICPES	81CHU	01
Au (ppm)					
	3.	L*	ICPES	81CHU	01
Ba (ppm)					
61	1.2		ICPES	81CHU	01
Be (ppm)					
2.9	0.06		ICPES	81CHU	01
Bi (ppm)					
	25.	L*	ICPES	81CHU	01
C (%)					
0.983			CB	77TIL	01
1.8			SIMS	78MOR	01
Ca (%)					
17.8		*	SIMS	78MOR	01
32.7		35	TCGS	78GLA	04
33.			EXRF	80DAL	01
33.78	2.07		ICPES	82JEN	01
33.98	0.72		AA	82JEN	01
35.06	1.16		ICPES	81CHU	01
Cd (ppm)					
22.	10.		ICPES	81CHU	01
25.3			AA	76KRI	03
Ce (ppm)					
182.	3.6		ICPES	81CHU	01
Co (ppm)					
3.	1		ICPES	81CHU	01
Cr (ppm)					
63.1	1.9		ICPES	81CHU	01

TABLE B (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Cu (ppm)					
8.6	1		ICPES	81CHU	01
11.3			AA	76KRI	03
Eu (ppm)					
4.8	1.		ICPES	81CHU	01
F (%)					
3.78	0.07		NAA	80NOR	01
3.82		35	IENA	79GLA	03
3.89	0.21		IC	82JEN	01
4.04	0.47		ISE	82JEN	01
Fe (ppm)					
3200.		*	SIMS	78MOR	01
6600.	200.		AA	82JEN	01
7200.	800.		ICPES	82JEN	01
7400.		35	TCGS	78GLA	04
7700.		35	IENA	79GLA	03
7827.			AA	76KRI	03
7900.	200.		ICPES	81CHU	01
7970.			EXRF	80DAL	01
Gd (ppm)					
21.	0.6		ICPES	81CHU	01
K (ppm)					
110.		*35	TCGS	78GLA	04
600.	200.		ICPES	82JEN	01
660.			EXRF	80DAL	01
760.			SIMS	78MOR	01
800.	100.		AA	82JEN	01
1170.	25.	*	ICPES	81CHU	01
La (ppm)					
89.	4.		ICPES	81CHU	01
Li (ppm)					
	2.	L*	ICPES	81CHU	01
Mg (ppm)					
51.		*35	TCGS	78GLA	04
1600.	100.		ICPES	82JEN	01
1600.	100.		AA	82JEN	01
1870.	60.		ICPES	81CHU	01
2800.			SIMS	78MOR	01
Mn (ppm)					
130.			SIMS	78MOR	01
150.			EXRF	80DAL	01
230.	15.		ICPES	82JEN	01

TABLE B (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
240.	20.		AA	82JEN	01
246.			AA	76KRI	03
260.	7.8		ICPES	81CHU	01
Mo (ppm)					
	5.	L*	ICPES	81CHU	01
Na (ppm)					
2300.	100.		AA	82JEN	01
2630.	70.		ICPES	81CHU	01
2800.		35	TCGS	78GLA	04
2900.			SIMS	78MOR	01
Nd (ppm)					
127.	25.		ICPES	81CHU	01
Ni (ppm)					
12.		35	IENA	79GLA	03
15.4	1.		ICPES	81CHU	01
22.9			AA	76KRI	03
O (%)					
36.	0.5		14NAA	80NOR	01
P (%)					
12.97	0.79	*	IC	82JEN	01
13.5			SIMS	78MOR	01
14.7		35	TCGS	78GLA	04
15.19	1.23		ICPES	82JEN	01
15.21	0.38		ICPES	81CHU	01
15.9			EXRF	80DAL	01
Pb (ppm)					
25.	5.		ICPES	81CHU	01
32.7			AA	76KRI	03
S (ppm)					
2200.			EXRF	80DAL	01
Sb (ppm)					
10.			ICPES	81CHU	01
Se (ppm)					
	30.	L*	ICPES	81CHU	01
Si (%)					
2.01			EXRF	80DAL	01
2.12		35	IENA	79GLA	03
2.12	0.19		ICPES	82JEN	01
2.19		35	TCGS	78GLA	04

TABLE B (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
2.21	0.01		AA	82KIS	01
2.41	0.24		AA	82JEN	01
Sm (ppm)					
38.	1.9		ICPES	81CHU	01
Sn (ppm)					
	3.	L*	ICPES	81CHU	01
Sr (ppm)					
705.	14.		ICPES	81CHU	01
Th (ppm)					
	25.	L*	ICPES	81CHU	01
7.9	0.8		AS	82ROE	01
9.05	0.4		AS	82THO	02
Ti (ppm)					
590.			SIMS	78MOR	01
740.	20.		ICPES	81CHU	01
780.		35	IENA	79GLA	03
950.		35	TCGS	78GLA	04
1200.			EXRF	80DAL	01
U (ppm)					
	30.	L*	ICPES	81CHU	01
130.	5.		AS	82ROE	01
132.	2.		AS	82THO	02
V (ppm)					
103.	3.1		ICPES	81CHU	01
120.	10.		ICPES	82JEN	01
280.	40.		AA	82JEN	01
Yb (ppm)					
12.7	0.4		ICPES	81CHU	01
Zn (ppm)					
107.			AA	76KRI	03
127.	3.9		ICPES	81CHU	01
Zr (ppm)					
12.	1.2		ICPES	81CHU	01

TABLE C

NBS SRM 1566—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
As (ppm)					
12.2	1.1		IENA	82GLA	02
12.4			IENA	83GLA	01
13.	1.2		ITNA	79KOB	03
13.17	0.34		HAA	81UTH	01
15.5	0.3	*11	HAA	82JON	01
B (ppm)					
7.	1.		TCGS	82GLA	02
Br (ppm)					
45.	1.4		ITNA	79KOB	03
180.			EXRF	81PAR	01
Ca (ppm)					
880.	3370.	R*	AA	80UCH	01
1510.	20.	11	ICPES	82JON	01
1530.	30.	11	ICPES	82JON	01
4500.			EXRF	81PAR	01
Cd (ppm)					
3.2	0.1		FAA	82SUZ	01
3.24	0.29		ASV	82SAT	02
3.3	0.3		ASV	82GAJ	01
3.4	0.22		FAA	81CHA	01
3.54	0.04	11	ICPES	82JON	01
3.61	0.03	11	ICPES	82JON	01
Co (ppb)					
340.	20.		ITNA	79KOB	03
Cr (ppb)					
340.	90.	11	ICPES	82JON	01
600.	200.	11	ICPES	82JON	01
700.	200.		ITNA	79KOB	03
Cu (ppm)					
61.			XRF	80SUZ	02
61.8	0.9	11	ICPES	82JON	01
62.9	0.5	11	ICPES	82JON	01
63.			AA	80UCH	01
128.	2.	*	AA	81UCH	01
189.		*	EXRF	81PAR	01
Eu (ppb)					
20.	10.		ITNA	79KOB	03
F (ppm)					
4.9	0.5		ISE	83KNA	01
5.4	1.2		ISE	83GLA	01

TABLE C (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Fe (ppm)					
178.	4.		ITNA	79KOB	03
191.	5.	11	ICPES	82JON	01
194.	9.	11	ICPES	82JON	01
196.	6.	11	ICPES	82JON	01
203.	8.	11	ICPES	82JON	01
209.			AA	80UCH	01
576.		*	EXRF	81PAR	01
Hg (ppb)					
40.			CVAA	83GLA	01
I (ppm)					
2.337	0.074	*	RTNA	80GVA	01
2.79			NAA	79HEC	01
3.062	0.128	35	RTNA	81ALL	01
3.209	0.134		RTNA	81STR	01
3.209	0.134	34	RTNA	81ALL	01
K (%)					
0.87	0.03		ITNA	79KOB	03
0.977			FE	80UCH	01
0.98	0.04	11	ICPES	82JON	01
0.98	0.02	11	ICPES	82JON	01
1.89		*	EXRF	81PAR	01
Mg (ppm)					
1280.			AA	80UCH	01
1410.	20.	11	ICPES	82JON	01
1430.	40.	11	ICPES	82JON	01
Mn (ppm)					
3.		*	XRF	80SUZ	02
15.	1.2		ITNA	79KOB	03
17.2	0.6		FAA	81CHA	01
17.2	0.2	11	ICPES	82JON	01
17.4	0.6	11	ICPES	82JON	01
17.8	0.9	11	ICPES	82JON	01
19.			AA	80UCH	01
49.		*	EXRF	81PAR	01
Mo (ppb)					
	70.	L*	ICPES	82JON	01
100.	100.	11	ICPES	82JON	01
Na (ppm)					
4600.	240.		ITNA	79KOB	03
4920.			FE	80UCH	01
Ni (ppm)					
0.92	0.04	11	ICPES	82JON	01
0.97	0.09	11	ICPES	82JON	01

TABLE C (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
P (ppm)					
7600.	400.	6	FAA	81LAN	01
7800.	200.	11	ICPES	82JON	01
7800.	300.	6	FAA	81LAN	01
7900.	100.	11	ICPES	82JON	01
Pb (ppb)					
440.	40.		FAA	82RAI	01
450.		6	FAA	81HIN	01
450.		6	FAA	82KOI	01
470.	10.		FAA	81CHA	01
480.		6	FAA	82KOI	01
480.		6	FAA	81HIN	01
500.	20.		ASV	82GAJ	01
500.	200.	11	ICPES	82JON	01
500.	300.	11	ICPES	82JON	01
510.	60.		ASV	82SAT	02
Rb (ppm)					
20.			EXRF	81PAR	01
Sb (ppb)					
150.	40.		ITNA	79KOB	03
Sc (ppb)					
89.	6.		ITNA	79KOB	03
Se (ppm)					
1.8	0.2		HAA	82MAY	01
2.22	0.03	11	HAA	82JON	01
2.42	0.08	11	HAA	82JON	01
Sr (ppm)					
9.9	1.1		FAA	82SUZ	03
92.			EXRF	81PAR	01
U (ppb)					
126.			DNA	83GLA	01
V (ppm)					
2.44	0.06	11	ICPES	82JON	01
Zn (ppm)					
750.		*	XRF	80SUZ	02
843.	12.	11	ICPES	82JON	01
859.	9.	11	ICPES	82JON	01
860.			AA	80UCH	01
869.	8.	11	ICPES	82JON	01
870.	35.		ITNA	79KOB	03
878.	15.	11	ICPES	82JON	01
2953.		*	EXRF	81PAR	01

TABLE D

NBS SRM 1567—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
As (ppb)					
	80.	L*	ICPES	81WOL	01
	50.	L*	HAA	82JON	01
	30.	L*	IENA	82GLA	02
	50.	L*	HAA	82JON	01
5.4	0.5	7	RTNA	77GIL	03
5.4	0.5		RTNA	78GIL	01
5.6	1.	7	RTNA	77GIL	03
6.	1.	H	ICPES	82HAH	01
30.	10.	*	COLOR	77BUR	01
B (ppm)					
1.5			TCGS	82GLA	02
Be (ppb)					
	30.	L*	ICPES	82KUE	01
	30.	L*	ICPES	82KUE	01
	30.	L*	ICPES	82KUE	01
Bi (ppb)					
	8.	L*	ICPES	82HAH	01
Br (ppm)					
9.9	1.5		ITNA	78GIL	01
Ca (ppm)					
173.		38	AA	81YAS	01
179.		38	AA	81YAS	01
181.		38	AA	81YAS	01
183.		38	AA	81YAS	01
193.			ICPES	81WOL	01
194.	6.	11	ICPES	82JON	01
195.	2.	6	ICPES	82KUE	01
195.	3.	6	ICPES	82KUE	01
196.	2.	6	ICPES	82KUE	01
197.		38	AA	81YAS	01
199.		38	AA	81YAS	01
199.	4.	11	ICPES	82JON	01
Cd (ppb)					
20.			ASV	82GAJ	01
29.	4.		ASV	82SAT	02
30.	20.	6	ICPES	82KUE	01
30.	20.	6	ICPES	82KUE	01
30.	20.	6	ICPES	82KUE	01
40.	10.	11	ICPES	82JON	01
50.	30.	11	ICPES	82JON	01
Co (ppb)					
21.	4.		ITNA	78GIL	01

TABLE D (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Cr (ppb)					
	250.	L*	ICPES	82KUE	01
	250.	L*	ICPES	82KUE	01
	250.	L*	ICPES	82KUE	01
300.	100.	11	ICPES	82JON	01
400.	200.	11	ICPES	82JON	01
Cs (ppb)					
	200.	L*	ITNA	82GLA	02
Cu (ppm)					
1.8	0.2	11	ICPES	82JON	01
1.9	0.2	11	ICPES	82JON	01
2.	0.1		ICPES	81KNA	01
2.	0.2		RTNA	78GIL	01
2.	0.01	6	ICPES	82KUE	01
2.04			ICPES	81WOL	01
2.06	0.04	6	ICPES	82KUE	01
2.06	0.03	6	ICPES	82KUE	01
F (ppb)					
	200.	L*	ISE	83GLA	01
40.	20.		ISE	83KNA	01
Fe (ppm)					
17.	1.	11	ICPES	82JON	01
17.1	0.8	11	ICPES	82JON	01
17.2	0.6		ITNA	78GIL	01
17.7	0.7	6	ICPES	82KUE	01
17.9	0.8	11	ICPES	82JON	01
18.	1.	11	ICPES	82JON	01
18.4	1.	6	ICPES	82KUE	01
18.7	2.1	6	ICPES	82KUE	01
19.3	1.1		ICPES	81KNA	01
19.6			ICPES	81WOL	01
Ge (ppb)					
	20.	L*	ICPES	82HAH	01
Hg (ppb)					
1.	0.3		RTNA	78GIL	01
K (ppm)					
1300.	50.	11	ICPES	82JON	01
1310.	40.	11	ICPES	82JON	01
1320.	10.	6	ICPES	82KUE	01
1320.	10.	6	ICPES	82KUE	01
1330.	20.	6	ICPES	82KUE	01
1392.	37.	*	ITNA	78GIL	01

TABLE D (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Mg (ppm)					
398.	10.	6	ICPES	82KUE	01
406.	3.	6	ICPES	82KUE	01
419.	4.	6	ICPES	82KUE	01
420.	10.	11	ICPES	82JON	01
429.	9.	11	ICPES	82JON	01
Mn (ppm)					
6.7	1.2	*	AE+AF	82GOL	01
8.	0.4	11	ICPES	82JON	01
8.2	0.3	11	ICPES	82JON	01
8.3			ICPES	81WOL	01
8.3	0.2	11	ICPES	82JON	01
8.55	0.15	6	ICPES	82KUE	01
8.58	0.16	6	ICPES	82KUE	01
8.6	0.4		ITNA	78GIL	01
8.67	0.12	6	ICPES	82KUE	01
9.9	0.5	*	ICPES	81KNA	01
Mo (ppb)					
380.	30.	6	ICPES	82KUE	01
390.	90.	11	ICPES	82JON	01
400.	40.	6	ICPES	82KUE	01
420.	40.	6	ICPES	82KUE	01
420.	70.	11	ICPES	82JON	01
Na (ppm)					
10.4	2.5		ITNA	78GIL	01
Ni (ppb)					
	500.	L*	ICPES	82KUE	01
	500.	L*	ICPES	82KUE	01
	500.	L*	ICPES	82KUE	01
160.	40.	11	ICPES	82JON	01
200.	40.	11	ICPES	82JON	01
P (ppm)					
1350.	20.	6	ICPES	82KUE	01
1370.	50.	11	ICPES	82JON	01
1370.	10.	6	ICPES	82KUE	01
1400.	10.	6	ICPES	82KUE	01
1420.	30.	11	ICPES	82JON	01
Pb (ppm)					
	0.1	L*	ICPES	82JON	01
	0.02	L*	ASV	82GAJ	01
	0.1	L*	ICPES	82JON	01
	3.8	L*	ICPES	82KUE	01
	3.8	L*	ICPES	82KUE	01
	3.8	L*	ICPES	82KUE	01
0.018	0.003		ASV	82SAT	02

TABLE D (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Rb (ppm)					
0.99	0.16		ITNA	78GIL	01
Sb (ppb)					
	2.	L*	ICPES	82HAH	01
38.	1.		RTNA	78GIL	01
Se (ppm)					
0.7		*	FAA	81MEY	01
0.76	0.08	11	HAA	82JON	01
0.82	0.08		ICPES	81WOL	01
0.87			HAA	81HAH	01
0.87	0.06	H	ICPES	82HAH	01
0.901	0.051		HAA	80RAP	02
0.91	0.03	11	HAA	82JON	01
0.95	0.04		GC-MS	81REA	02
0.96	0.08		HAA	81MEY	01
1.	0.1	11	XRF	80RAP	01
1.	0.2		HAA	81REA	01
1.	0.1		HAA	80VIJ	01
1.			CSV	81HAN	01
1.03	0.04		HAA	81HAN	01
1.04	0.01	D*	EXRF	80RAP	03
1.05	0.09	7	RTNA	77GIL	03
1.05	0.09	7	RTNA	77GIL	03
1.1	0.02		XRF	81KNA	01
1.1	0.02	11	XRF	80RAP	01
1.11	0.05		RTNA	78GIL	01
1.12	0.01	7	RTNA	77GIL	03
1.12	0.01		ITNA	78GIL	01
1.17	0.18	7*	RTNA	77GIL	03
Sn (ppb)					
	20.	L*	ICPES	82HAH	01
U (ppb)					
0.95	0.24	35	DNA	80GLA	04
V (ppb)					
	50.	L*	ICPES	82JON	01
Zn (ppm)					
10.2		*	ICPES	81WOL	01
10.5	0.7	11	ICPES	82JON	01
10.6	0.7	11	ICPES	82JON	01
10.6	0.5	11	ICPES	82JON	01
10.6	0.4	11	ICPES	82JON	01
10.88	0.56		ITNA	78GIL	01
10.9	0.1	6	ICPES	82KUE	01
11.	0.2	6	ICPES	82KUE	01
11.1	0.4	6	ICPES	82KUE	01
11.3	1.1		ICPES	81KNA	01

TABLE E

NBS SRM 1568—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
As (ppb)					
	50.	L*	HAA	82JON	01
90.	10.	*	COLOR	77BUR	01
320.	40.	*11	HAA	82JON	01
380.	20.	7	RTNA	77GIL	03
390.	80.	7	RTNA	77GIL	03
390.	70.	7	RTNA	77GIL	03
400.	10.	11	HAA	81RAP	01
400.	10.		RTNA	78GIL	01
410.	20.	11	HAA	81RAP	01
410.	70.	11	HAA	81RAP	01
410.	70.		HAA	81KNA	01
436.	18.		HAA	82TAM	01
440.	50.	H	ICPES	82HAH	01
452.	70.		ICPES	81WOL	01
460.	70.		IENA	82GLA	02
B (ppm)					
	1.	L*	TCGS	82GLA	02
Bi (ppb)					
	8.	L*	ICPES	82HAH	01
Br (ppm)					
1.23	0.08		ITNA	78GIL	01
Ca (ppm)					
142.	3.		ICPES	81WOL	01
144.		38	AA	81YAS	01
145.		38	AA	81YAS	01
146.		38	AA	81YAS	01
146.		38	AA	81YAS	01
148.	5.	11	ICPES	82JON	01
148.	3.	11	ICPES	82JON	01
149.		38	AA	81YAS	01
151.		38	AA	81YAS	01
Cd (ppb)					
20.			ASV	82GAJ	01
25.	2.		ASV	82SAT	02
40.	20.	11	ICPES	82JON	01
60.	30.	11	ICPES	82JON	01
Co (ppb)					
18.	2.		ITNA	78GIL	01
Cr (ppb)					
80.	80.	11	ICPES	82JON	01
200.	200.	11	ICPES	82JON	01
Cs (ppb)					
	200.	L*	ITNA	82GLA	02

TABLE E (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Cu (ppm)					
1.9	0.2	11	ICPES	82JON	01
1.9	0.2	11	ICPES	82JON	01
2.01	0.01		ICPES	81WOL	01
2.1	0.1		ICPES	81KNA	01
2.2	0.13		RTNA	78GIL	01
F (ppb)					
180.	40.		ISE	83KNA	01
200.			ISE	83GLA	01
Fe (ppm)					
7.1	0.4	11	ICPES	82JON	01
7.3	0.4	11	ICPES	82JON	01
7.6	0.4	11	ICPES	82JON	01
7.8	0.4	11	ICPES	82JON	01
8.85	0.94		ITNA	78GIL	01
9.06	1.		ICPES	81WOL	01
9.4	0.3		ICPES	81KNA	01
Ge (ppb)					
	20.	L*	ICPES	82HAH	01
Hg (ppb)					
5.6	0.5		CVAA	81KNA	01
6.4	1.		RTNA	78GIL	01
I (ppm)					
0.011	0.001	35	RTNA	81ALL	01
0.012	0.001	34	RTNA	81ALL	01
K (ppm)					
965.	11.		ICPES	81WOL	01
1125.	16.		ITNA	78GIL	01
1140.	30.	11	ICPES	82JON	01
1150.	80.	11	ICPES	82JON	01
Mg (ppm)					
510.	20.	11	ICPES	82JON	01
510.	10.	11	ICPES	82JON	01
Mn (ppm)					
19.1	0.9	11	ICPES	82JON	01
19.9	0.4		ICPES	81WOL	01
19.95	0.69		ITNA	78GIL	01
20.1	0.3	11	ICPES	82JON	01
20.2	0.5	11	ICPES	82JON	01
21.4	1.4		ICPES	81KNA	01
Mo (ppm)					
1.59	0.07	11	ICPES	82JON	01
1.59	0.09	11	ICPES	82JON	01

TABLE E (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
1.6	0.13		ICPES	81WOL	01
Na (ppm)					
6.9	0.4		ITNA	78GIL	01
Ni (ppb)					
150.	20.	11	ICPES	82JON	01
160.	30.	11	ICPES	82JON	01
P (ppm)					
1600.	60.	11	ICPES	82JON	01
1630.	30.	11	ICPES	82JON	01
Pb (ppb)					
	100.	L*	ICPES	82JON	01
	100.	L*	ICPES	82JON	01
30.			ASV	82GAJ	01
35.	4.		ASV	82SAT	02
Rb (ppm)					
7.27	0.21		ITNA	78GIL	01
Sb (ppb)					
	2.	L*	ICPES	82HAH	01
5.	1.		RTNA	78GIL	01
Se (ppb)					
280.	55.		FAA	81MEY	01
280.	30.	11	HAA	82JON	01
315.	14.		HAA	81HAH	01
320.	40.	11	HAA	82JON	01
320.	50.		HAA	81MEY	01
331.	29.		ICPES	81WOL	01
338.	3.	7	RTNA	77GIL	03
370.	60.	H	ICPES	82HAH	01
370.	30.		HAA	80RAP	02
380.	10.		HAA	81HAN	01
380.	50.		HAA	80VIJ	01
390.	70.		HAA	81REA	01
390.	20.		GC MS	81REA	02
400.	100.	11	XRF	80RAP	01
400.	20.		XRF	81KNA	01
400.	20.	11	XRF	80RAP	01
400.	8.	D*	EXRF	80RAP	03
420.	30.		ITNA	78GIL	01
420.	30.	7	RTNA	77GIL	03
450.	30.		RTNA	78GIL	01
460.	80.	7	RTNA	77GIL	03
480.	70.		HAA	82TAM	01
Sn (ppb)					
	20.	L*	ICPES	82HAH	01

TABLE E (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
U (ppb)					
0.89	0.22	35	DNA	80GLA	04
V (ppb)					
	50.	L*	ICPES	82JON	01
Zn (ppm)					
19.3	0.7	11	ICPES	82JON	01
19.4	0.4		ICPES	81WOL	01
19.8	0.8	11	ICPES	82JON	01
19.97	0.69		ITNA	78GIL	01
20.	1.	11	ICPES	82JON	01
20.2	0.8	11	ICPES	82JON	01
21.3	1.3	*	ICPES	81KNA	01

TABLE F

NBS SRM 1569—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (ppm)					
2000.	56.	11	ICPES	82JON	01
2300.	10.		ITNA	78BER	01
As (ppb)					
530.	80.	11	HAA	82JON	01
560.	30.	11	HAA	82JON	01
670.	70.		IENA	82GLA	02
B (ppm)					
6.2			TCGS	82GLA	02
Br (ppm)					
0.65	0.03		ITNA	78BER	01
6.7	0.4		ITNA	79KOB	03
Ca (ppm)					
2270.	70.	11	ICPES	82JON	01
2290.	10.	11	ICPES	82JON	01
2420.	40.	11	ICPES	82JON	01
2490.	30.	11	ICPES	82JON	01
Cd (ppb)					
80.	40.	11	ICPES	82JON	01
120.	70.	11	ICPES	82JON	01
180.	70.	11	ICPES	82JON	01
290.	60.	11	ICPES	82JON	01
Ce (ppm)					
2.3	0.1		ITNA	78BER	01
Cl (ppm)					
460.	30.		ITNA	78BER	01
Co (ppb)					
260.	20.		ITNA	78BER	01
300.	60.		ITNA	79KOB	03
Cr (ppm)					
0.078	0.026	*	FAA	74WOL	01
0.7	0.1	*11	ICPES	82JON	01
0.87			FAA	80CHA	01
1.04	0.04	7	FAA	80CHA	01
1.12	0.08		RTNA	78GOE	01
1.2	0.6	11	ICPES	82JON	01
1.558	0.015	11	RTNA	78MCC	01
2.	0.02		NM	80SHI	01
2.043		11	NAA	79VER	01
2.074	0.012	11	RTNA	78MCC	01
2.08	0.09		IDMS	79VEI	01
2.082	0.013	24	ITNA	78MCC	01

TABLE F (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
2.094		11	NAA	79VER	01
2.096	0.02	24	ITNA	78MCC	01
2.1	0.5		ITNA	79KOB	03
2.119	0.025	24	ITNA	78MCC	01
2.12	0.08		ITNA	78BER	01
2.13	0.12	7	FAA	80CHA	01
2.17	0.11		ITNA	82GLA	02
Cs (ppb)					
	200.	L*	ITNA	82GLA	02
Cu (ppm)					
11.	2.		ITNA	78BER	01
13.	1.	11	ICPES	82JON	01
17.7	0.2	11	ICPES	82JON	01
18.1	0.7	11	ICPES	82JON	01
18.4	0.3	11	ICPES	82JON	01
Eu (ppb)					
20.	10.		ITNA	79KOB	03
F (ppm)					
14.	2.		ISE	83KNA	01
15.	2.		ISE	83GLA	01
Fe (ppm)					
257.	34.	*11	ICPES	82JON	01
499.	15.	11	ICPES	82JON	01
590.	24.		ITNA	79KOB	03
660.	15.	11	ICPES	82JON	01
693.	25.	11	ICPES	82JON	01
707.	16.		ITNA	78BER	01
Ga (ppm)					
7.1	0.5		ITNA	78BER	01
Hf (ppb)					
130.	10.		ITNA	78BER	01
Hg (ppb)					
22.			CVAA	82GLA	02
I (ppb)					
60.	20.		IENA	82SAT	01
K (%)					
1.4	0.1	11	ICPES	82JON	01
1.45	0.007	11	ICPES	82JON	01
1.45	0.05	11	ICPES	82JON	01
1.55	0.05		ITNA	78BER	01
1.59	0.04	11	ICPES	82JON	01
1.71	0.12		ITNA	79KOB	03

TABLE F (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Mg (ppm)					
1730.	70.	11	ICPES	82JON	01
1780.	100.		ITNA	78BER	01
1870.	50.	11	ICPES	82JON	01
1900.	60.	11	ICPES	82JON	01
1980.	60.	11	ICPES	82JON	01
Mn (ppm)					
7.	0.8	*	ITNA	78BER	01
9.1	0.6	11	ICPES	82JON	01
9.6	0.6	11	ICPES	82JON	01
10.	1.5		ITNA	79KOB	03
10.4	0.8	11	ICPES	82JON	01
10.9	0.7	11	ICPES	82JON	01
Mo (ppm)					
3.3	0.3	11	ICPES	82JON	01
3.4	0.1	11	ICPES	82JON	01
3.8	0.2	11	ICPES	82JON	01
3.9	0.2	11	ICPES	82JON	01
Na (ppm)					
510.	30.		ITNA	78BER	01
670.	42.		ITNA	79KOB	03
Ni (ppm)					
4.6	0.3	11	ICPES	82JON	01
4.8	0.1	11	ICPES	82JON	01
5.9	0.2	11	ICPES	82JON	01
6.	0.2	11	ICPES	82JON	01
P (%)					
1.	0.04	11	ICPES	82JON	01
1.02	0.03	11	ICPES	82JON	01
1.04	0.05	11	ICPES	82JON	01
1.08	0.04	11	ICPES	82JON	01
Pb (ppb)					
200.	200.	11	ICPES	82JON	01
500.	500.	11	ICPES	82JON	01
Rb (ppm)					
16.	1.		ITNA	78BER	01
Sb (ppb)					
75.	5.		ITNA	78BER	01
230.	50.		ITNA	79KOB	03
Sc (ppb)					
180.	10.		ITNA	78BER	01
220.	30.		ITNA	79KOB	03

TABLE F (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Se (ppm)					
0.92	0.09		ITNA	78BER	01
0.98	0.05	11	HAA	82JON	01
1.01	0.06	11	HAA	82JON	01
Th (ppm)					
3.7	0.2		ITNA	78BER	01
Ti (ppm)					
38.	2.		ITNA	78BER	01
U (ppb)					
441.	4.		IDMS	82CUR	01
460.	20.	35	DNA	81GLA	03
470.	20.		DNA	83GLA	01
470.	20.	35	DNA	80GLA	04
470.	20.		DNA	82GLA	02
470.	50.	35	DNA	81GLA	04
490.	20.		ITNA	78BER	01
U-238/235					
137.7	1.3		IDMS	82CUR	01
V (ppm)					
1.46	0.05	11	ICPES	82JON	01
4.1	0.1		ITNA	78BER	01
4.4	0.1	11	ICPES	82JON	01
Zn (ppm)					
30.	4.3	*	ITNA	79KOB	03
59.	6.	11	ICPES	82JON	01
63.	2.	11	ICPES	82JON	01
64.	5.	11	ICPES	82JON	01
64.	4.	11	ICPES	82JON	01
65.	2.	11	ICPES	82JON	01
65.	2.	11	ICPES	82JON	01
66.	2.	11	ICPES	82JON	01
70.	2.		ITNA	78BER	01
70.	4.	11	ICPES	82JON	01

TABLE G

NBS SRM 1570—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppb)					
65.	40.		AA	80JAC	01
65.	10.		RTNA	80SLO	01
Al (ppm)					
482.		*	ICPES	78CAP	01
782.	31.	11	ICPES	82JON	01
820.	25.		ITNA	83GLA	01
824.	10.		ITNA	80SLO	01
829.	23.		ITNA	77NAD	02
881.			ITNA	78CAP	01
1190.		*35	ITNA	81GLA	03
As (ppb)					
	100.	L*	IENA	83GLA	01
62.	13.	*7	FAA	82HOE	02
114.		*	HAA	77IHN	01
147.	1.		RTNA	79HOE	01
150.	10.	11	HAA	82JON	01
150.	13.	7	FAA	82HOE	02
152.	5.	7	FAA	82HOE	02
160.			FAA	78CAP	01
160.	10.	11	HAA	82JON	01
170.	20.		FAA	80DUP	01
170.	10.	H	ICPES	82HAH	01
170.	40.		RTNA	80SLO	01
170.	10.		COLOR	77BUR	01
180.	70.		IENA	82GLA	02
180.	20.		HAA	80TAM	01
Au (ppb)					
0.4			RTNA	80SLO	01
2.			ITNA	79REN	03
B (ppm)					
20.9	0.3		ICPES	79HER	01
28.	0.4		TCGS	82GLA	02
Ba (ppm)					
	45.	L*	ITNA	78CAP	01
13.1	1.8		ITNA	77NAD	02
87.	29.		ITNA	79REN	03
Be (ppb)					
	30.	L*	ICPES	82KUE	01
	60.	L*	ICPES	78CAP	01
	30.	L*	ICPES	82KUE	01
	30.	L*	ICPES	82KUE	01
Bi (ppb)					
	8.	L*	ICPES	82HAH	01

TABLE G (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Br (ppm)					
	65.	L*	ITNA	80TOU	01
42.4	2.4	5	ITNA	80HOE	01
43.6	2.3	5	IENA	79GLA	02
45.	3.3		ITNA	80SLO	01
45.1	0.3	5	IENA	79GLA	02
46.	2.	5	ITNA	80HOE	01
47.	4.		ITNA	83GLA	01
47.2	0.5		ITNA	77NAD	02
48.	9.4		ITNA	79REN	03
48.			ITNA	78CAP	01
52.	4.8		ITNA	79KOB	03
54.	3.	35	NAA	81GLA	03
55.3	3.8	5	ITNA	80TOU	01
138.		*	EXRF	81PAR	01
C (%)					
40.82	0.81		CB	80SCH	02
Ca (%)					
	0.86	L*	ITNA	80TOU	01
0.82	0.11	*	ITNA	80SLO	01
1.19	0.09	6	EXRF	79MAT	01
1.21		35	AA	81GLA	04
1.24	0.08	11	ICPES	82JON	01
1.25	0.01	11	ICPES	82JON	01
1.29	0.03	6	ICPES	82KUE	01
1.347	0.014		NM	81YUZ	01
1.35	0.025	6	ICPES	82KUE	01
1.36	0.04	11	ICPES	82JON	01
1.37	0.07	5	ITNA	80TOU	01
1.38	0.014	6	ICPES	82KUE	01
1.39	0.03	11	ICPES	82JON	01
1.4	0.04	6	EXRF	79MAT	01
1.46			ITNA	78CAP	01
1.49	0.1		ITNA	77NAD	02
1.54	0.01		ICPES	79HER	01
1.62			ICPES	78CAP	01
1.78	0.25	*	ITNA	79REN	03
2.45		*	EXRF	81PAR	01
Cd (ppm)					
	2.5	L*	ICPES	78CAP	01
1.2	0.15		ASV	82GAJ	01
1.2			FAA	80PRE	01
1.23	0.16		ASV	82SAT	02
1.3			FAA	82PRE	01
1.32			ASV	78CAP	01
1.38	0.08		RTNA	80SLO	01
1.4	0.08	11	ICPES	82JON	01
1.41	0.03	6	ICPES	82KUE	01
1.42	0.03	6	ICPES	82KUE	01
1.45	0.07	6	ICPES	82KUE	01
1.46	0.04		FAA	80LEG	01
1.46	0.02		NAA	76DER	01
1.49	0.08	11	ICPES	82JON	01
1.52	0.07		RTNA	77DER	01
1.6	0.2		FAA	81KNA	01

TABLE G (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
1.67	0.29		SSMS	77PAU	01
1.7	0.1		RTNA	76GAL	01
1.7	0.2		AA	80SCH	05
2.	0.1		AA	76GAL	01
2.1	0.2		ICPES	79HER	01
2.2	1.	*11	ICPES	82JON	01
2.8	0.1	*11	ICPES	82JON	01
Ce (ppb)					
240.	30.		RTNA	80SLO	01
Cl (ppm)					
6000.		35	ITNA	81GLA	04
6290.			ITNA	78CAP	01
6500.	300.		CPXRF	79REN	02
6800.	100.		ITNA	80SLO	01
7000.	120.		ITNA	83GLA	01
10000.	1000.	*	ITNA	77NAD	02
Co (ppm)					
	26.	L*	ITNA	80TOU	01
0.9	0.1	*	PAA	80YAM	01
1.41			ITNA	78CAP	01
1.47	0.1		AA	80JAC	01
1.49	0.05		RTNA	80SLO	01
1.5	0.1		ITNA	79KOB	03
1.5	0.2		ITNA	79REN	03
1.6	0.1	5	ITNA	80TOU	01
1.65			FAA	82HOE	01
1.68	0.03		RTNA	77MEL	01
1.7	0.1		ITNA	76GAL	01
1.76	0.01		ITNA	77NAD	02
3.2	0.2	*	AA	76GAL	01
Cr (ppm)					
3.06	0.3		AA	80JAC	01
3.5	0.3	6	ICPES	82KUE	01
3.54	0.3	6	ICPES	82KUE	01
3.6	0.5	11	ICPES	82JON	01
3.75		11	AA	79HOE	02
4.3	0.5		ITNA	77NAD	02
4.3	0.7	6	ICPES	82KUE	01
4.4			FAA	82HOE	01
4.4		11	AA	79HOE	02
4.5	0.2		RTNA	76GAL	01
4.5	0.3		ITNA	79KOB	03
4.51		11	AA	79HOE	02
4.6	0.2	11	ICPES	82JON	01
4.7	0.3	D*	DCP	81REE	01
4.7	0.3		DCP	79REE	01
4.7	0.4		ITNA	82GLA	02
4.8			ITNA	78CAP	01
5.2	0.5		ITNA	76GAL	01
5.2	1.5		AE+AF	82GOL	01
5.8	0.2		AA	76GAL	01
6.	0.7		PAA	80YAM	01
6.2	0.1		ICPES	79HER	01
7.5	1.6		ITNA	79REN	03

TABLE G (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
20.5	2.8	*11	RTNA	76STE	01
21.	2.	*11	RTNA	77MEL	01
21.3	2.6	*11	RTNA	76STE	01
21.8	1.5	*11	RTNA	76STE	01
23.9	0.9	*11	RTNA	76STE	01
24.5	1.2	*11	RTNA	76STE	01
24.8	2.8		ITNA	76STE	01
Cs (ppb)					
	200.	L*	ITNA	82GLA	02
48.	5.		ITNA	77NAD	02
64.	2.		ITNA	83GLA	01
270.	40.		RTNA	77MEL	01
320.	40.		ITNA	79REN	03
Cu (ppm)					
9.1	0.4	*	AA	76GAL	01
10.9	0.6		RTNA	80SLO	01
10.9	0.3	11	ICPES	82JON	01
11.1	0.2	11	ICPES	82JON	01
11.1	0.5	11	ICPES	82JON	01
11.2	0.4	11	ICPES	82JON	01
11.4	0.5		RTNA	79KOB	01
11.5	0.5		SSMS	77PAU	01
11.5	0.4		FAE	76EPS	01
11.6	0.7		ITNA	79KOB	03
11.6	0.7		RTNA	78KOB	01
11.8	0.3		RTNA	77DER	01
11.8	0.3	6	ICPES	82KUE	01
11.8	2.5		VV	80SCH	05
12.	0.3	6	ICPES	82KUE	01
12.06	0.03		COLOR	77BUR	01
12.1	0.2		ICPES	79HER	01
12.1			AA	80EVA	01
12.1	0.1		COLOR	76EPS	01
12.2	0.1	6	ICPES	82KUE	01
12.3			ICPES	78CAP	01
12.3		11	AA	79HOE	02
12.6			FAA	78CAP	01
12.6	1.4	6	EXRF	79MAT	01
12.7	0.4		AA	76EPS	01
13.	1.	D*	DCP	81REE	01
13.	1.		DCP	79REE	01
13.2		*11	AA	79HOE	02
Eu (ppb)					
	200.	L*	ITNA	78CAP	01
14.	1.		ITNA	79KOB	03
20.	1.		ITNA	77NAD	02
F (ppm)					
4.3	0.4		ISE	83KNA	01
4.4	0.3		ISE	83GLA	01
Fe (ppm)					
178.	2.	D*	DCP	81REE	01
470.	50.	6	ICPES	82KUE	01
478.			ICPES	78CAP	01

TABLE G (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
491.	20.	11	ICPES	82JON	01
494.			FAA	78CAP	01
510.			ITNA	78CAP	01
511.	7.		ICPES	79HER	01
518.	8.	11	ICPES	82JON	01
522.	14.	11	COLOR	82SCH	03
525.	11.	6	EXRF	79MAT	01
530.	11.	6	ICPES	82KUE	01
540.	18.		ICPES	80SCH	05
540.	23.		ITNA	79KOB	03
540.	10.	6	ICPES	82KUE	01
541.	15.	11	ICPES	82JON	01
545.			AA	80EVA	01
548.	9.		NM	80SUZ	01
551.		11	AA	79HOE	02
556.	11.	11	COLOR	82SCH	03
557.	8.		RTNA	80SLO	01
557.	19.	11	ICPES	82JON	01
557.	8.		ITNA	79DAS	01
566.	18.		ITNA	77NAD	02
570.		11	AA	79HOE	02
597.	6.	6	EXRF	79MAT	01
600.	90.	35	ITNA	81GLA	03
660.	300.	*	ITNA	79REN	03
763.	34.	*	RTNA	77MEL	01
1200.		*	EXRF	81PAR	01
Ge (ppb)					
	20.	L*	ICPES	82HAH	01
H (%)					
5.54	0.08		CB	80SCH	02
5.6	0.1	35	TCGS	79GLA	04
Hf (ppb)					
40.	20.		RTNA	80SLO	01
Hg (ppb)					
25.		11	CVAA	79HOE	02
26.	8.		RTNA	80SLO	01
30.	5.		CVAA	82GLA	02
33.	16.		CVAA	82DOO	01
34.	3.		ITNA	77NAD	02
110.	20.	*	RTNA	77MEL	01
I (ppm)					
1.08	0.16		IENA	82SAT	01
1.1	0.2		PAA	77WIL	01
1.267	0.054	35	RTNA	81ALL	01
1.325	0.055		RTNA	81STR	01
1.325	0.055	34	RTNA	81ALL	01
In (ppb)					
1.2	0.1		RTNA	78KOB	01
1.3	0.2		RTNA	79KOB	01

TABLE G (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
K (%)					
3.26	0.23		ITNA	79REN	03
3.29	0.18		ICPES	79HER	01
3.43	0.11		ITNA	77NAD	02
3.52	0.1	6	ICPES	82KUE	01
3.53	0.032	6	ICPES	82KUE	01
3.54			ITNA	80EDD	01
3.56		1	AA	78SZY	01
3.57	0.04	6	ICPES	82KUE	01
3.59			ICPES	79COO	01
3.6	0.2	11	ICPES	82JON	01
3.6	0.09		ITNA	79KOB	03
3.61		1	AA	78SZY	01
3.61	0.35		ITNA	82EHM	01
3.7	0.04	11	ICPES	82JON	01
3.7	0.1	11	ICPES	82JON	01
3.73			ITNA	78CAP	01
3.74	0.07		ITNA	80SLO	01
3.9	0.1	11	ICPES	82JON	01
4.04	0.06	*6	EXRF	79MAT	01
4.85	0.05	*6	EXRF	79MAT	01
7.95		*	EXRF	81PAR	01
La (ppb)					
	700.	L*	ITNA	7[illegible]	[illegible]1
260.	50.		RTNA	80SL[illegible]	
320.	30.		ITNA	77NAD [illegible]	
350.	60.		ITNA	79REN	03
Lu (ppb)					
	5.	L*	RTNA	80SLO	01
Mg (ppm)					
7000.		*	ICPES	78CAP	01
7300.	500.		ITNA	80SLO	01
8400.			FAA	78CAP	01
8550.	65.	6	ICPES	82KUE	01
8600.	400.	11	ICPES	82JON	01
8600.	230.	6	ICPES	82KUE	01
8700.	100.		ICPES	79HER	01
8790.	150.	6	ICPES	82KUE	01
8800.	100.	11	ICPES	82JON	01
8900.	300.	11	ICPES	82JON	01
9000.	600.		ITNA	78CAP	01
9000.	200.	11	ICPES	82JON	01
9800.			ITNA	77NAD	02
Mn (ppm)					
1.3	0.1	D*	DCP	81REE	01
49.	2.	*11	ICPES	82JON	01
102.	3.	*	AA	76GAL	01
118.	3.	*	ITNA	76GAL	01
146.	32.		AE+AF	82GOL	01
155.			FAA	78CAP	01
156.		11	AA	79HOE	02
156.	5.		ITNA	79KOB	03
157.			ICPES	78CAP	01

TABLE G (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
158.	7.	11	ICPES	82JON	01
159.		11	AA	79HOE	02
160.		35	ITNA	81GLA	04
160.	3.	11	ICPES	82JON	01
161.	6.		ITNA	77NAD	02
162.	9.		ITNA	83GLA	01
165.	3.	6	EXRF	79MAT	01
165.	3.	6	ICPES	82KUE	01
166.	5.	11	ICPES	82JON	01
166.	1.		ICPES	79HER	01
167.	6.	11	ICPES	82JON	01
168.	3.		VV	80SCH	05
169.	4.		ITNA	80SLO	01
170.			AA	80EVA	01
171.	1.	6	ICPES	82KUE	01
171.			ITNA	78CAP	01
172.	5.	6	ICPES	82KUE	01
178.	2.		DCP	79REE	01
184.	10.	6	EXRF	79MAT	01
187.9	18.9		PAA	80YAM	01
200.		*	ITNA	79REN	03
684.		*	EXRF	81PAR	01
Mo (ppb)					
	300.	L*	ICPES	82KUE	01
	5000.	L*	ICPES	78CAP	01
	300.	L*	ICPES	82KUE	01
	300.	L*	ICPES	82KUE	01
200.	100.	11	ICPES	82JON	01
200.	100.	11	ICPES	82JON	01
300.	100.		RTNA	80SLO	01
300.	100.	11	ICPES	82JON	01
400.	200.	11	ICPES	82JON	01
N (%)					
5.62	0.11		CB	80SCH	02
6.	0.4	35	TCGS	79GLA	04
Na (%)					
1.13	0.02		ITNA	80SLO	01
1.28	0.1		ITNA	82SCH	05
1.31	0.07		ITNA	77NAD	02
1.33	0.05		ITNA	79KOB	03
1.43			ITNA	83GLA	01
1.44			ITNA	78CAP	01
1.48		35	ITNA	81GLA	04
1.54	0.14		ITNA	79REN	03
1.55		1	AA	78SZY	01
1.56		1	AA	78SZY	01
Ni (ppm)					
1.3	0.1	*	DCP	79REE	01
2.3	0.5	*	RTNA	80SLO	01
4.1	0.5		ITNA	77NAD	02
4.9	0.2	11	ICPES	82JON	01
5.1	0.1	11	ICPES	82JON	01
5.12			VOLT	81PIH	01
5.4	1.	6	EXRF	79MAT	01

TABLE G (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
5.4	0.1	11	ICPES	82JON	01
5.4	0.1	11	ICPES	82JON	01
5.51	0.32	6	ICPES	82KUE	01
6.03	0.52	6	ICPES	82KUE	01
6.1	0.2		PAA	80YAM	01
6.17	0.72	6	ICPES	82KUE	01
6.5	0.2		RTNA	78KOB	01
6.5	0.3		RTNA	79KOB	01
7.5	0.5		RTNA	77MEL	01
8.1			PAA	82HOE	01
8.1	0.2		ICPES	79HER	01
P (ppm)					
4500.		*	ICPES	78CAP	01
5100.			FAA	79EDI	01
5200.	200.	11	ICPES	82JON	01
5240.	70.	6	ICPES	82KUE	01
5300.	100.	11	ICPES	82JON	01
5300.	70.	6	ICPES	82KUE	01
5350.	45.	6	ICPES	82KUE	01
5360.	270.		ICPES	81OWE	01
5400.			ICPES	79EDI	01
5500.	200.	11	ICPES	82JON	01
5600.	400.	7	NM	81SHI	01
5700.	200.	11	ICPES	82JON	01
6000.	100.		ICPES	79HER	01
Pb (ppm)					
	3.5	L*	ICPES	78CAP	01
	3.8	L*	ICPES	82KUE	01
	3.8	L*	ICPES	82KUE	01
	3.8	L*	ICPES	82KUE	01
0.8	0.3	11	ICPES	82JON	01
0.8	0.1	11	ICPES	82JON	01
1.	0.1		FAA	80LEG	01
1.	0.8		ICPES	79HER	01
1.02			FAA	82HOE	01
1.03	0.15		ASV	82GAJ	01
1.04	0.09		ASV	80SZY	01
1.09	0.06		FAA	79DAB	02
1.1	0.2		FAA	81KNA	01
1.1	0.1		AA	80SCH	05
1.1	0.08		ASV	82SAT	02
1.1		11	FAA	79HOE	02
1.12	0.03		SSMS	77PAU	01
1.16	0.08		FAA	82RAI	01
1.2			FAA	80PRE	01
1.25			ASV	78CAP	01
1.3		6	FAA	81HIN	01
1.3	0.4		HAA	82WEI	01
1.3			FAA	82PRE	01
1.3		6	FAA	82KOI	01
1.4		6	FAA	81HIN	01
1.4		6	FAA	82KOI	01
2.	1.4	*	PAA	80YAM	01
Pd (ppb)					
	2.	L*	RTNA	81BYR	01

TABLE G (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Pr (ppb)					
	60.	L*	RTNA	80SLO	01
Rb (ppm)					
10.			ITNA	78CAP	01
11.	1.	35	ITNA	81GLA	03
11.32	3.1		ITNA	79REN	03
11.6	0.3		ITNA	77NAD	02
17.	3.		RTNA	77MEL	01
39.		*	EXRF	81PAR	01
S (ppm)					
2400.	600.		CPXRF	79REN	02
Sb (ppb)					
14.	3.	*H	ICPES	82HAH	01
27.	6.		ITNA	77NAD	02
31.	1.		RTNA	80KOS	02
38.	3.		RTNA	79HOE	01
44.	2.		ITNA	79KOB	03
50.			ITNA	78CAP	01
50.	20.		RTNA	80SLO	01
690.	150.	*	ITNA	79REN	03
Sc (ppb)					
	340.	L*	ITNA	80TOU	01
150.	30.	5	ITNA	80TOU	01
160.			ITNA	78CAP	01
170.			ITNA	80EDD	01
170.	20.		RTNA	80SLO	01
170.	4.		ITNA	77NAD	02
180.	10.		ITNA	79KOB	03
180.	20.		RTNA	77MEL	01
470.	40.	*	ITNA	79REN	03
Se (ppb)					
	100.	L*	HAA	82JON	01
	100.	L*	RTNA	77MEL	01
	3.	L*	ICPES	82HAH	01
	600.	L*	ITNA	78CAP	01
	100.	L*	HAA	82JON	01
24.	10.	9	ITNA	80WAN	01
25.			FAA	78CAP	01
33.	3.	11	GC	81UCH	02
33.	3.	11	GC	81UCH	02
37.			FLUOR	79WAT	02
40.	10.		RTNA	80KNA	01
42.9			HAA	77IHN	01
60.	20.		RTNA	80SLO	01
66.	9.		ITNA	77NAD	02
510.	80.	*	RTNA	82POL	01
Sm (ppb)					
	12000.	L*	ITNA	80TOU	01
33.	4.	5	ITNA	80TOU	01

TABLE G (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
80.	20.		RTNA	80SLO	01
200.	140.		ITNA	79REN	03
Sn (ppb)					
	20.	L*	ICPES	82HAH	01
3.1			ICPES	78CAP	01
Sr (ppm)					
79.	1.		ICPES	79HER	01
82.5	15.8		AE+AF	82GOL	01
208.			EXRF	81PAR	01
Ta (ppm)					
0.23	0.08		ITNA	79REN	03
Th (ppb)					
110.	10.		ITNA	77NAD	02
150.	40.		RTNA	80SLO	01
Ti (ppm)					
16.5			ICPES	78CAP	01
Tl (ppb)					
31.	5.		SSMS	77FAU	01
U (ppb)					
42.			DNA	83GLA	01
45.	0.8	35	DNA	80GLA	04
69.	120.	R*	DNA	81GLA	03
V (ppm)					
1.06	0.17		ITNA	77NAD	02
1.08	0.07	D*	DCP	81REE	01
1.08	0.07		DCP	79REE	01
1.13	0.01		RTNA	78BYR	01
1.2	0.06		ITNA	76GAL	01
1.28	0.07	11	ICPES	82JON	01
1.34	0.06	11	ICPES	82JON	01
1.7		*	ITNA	78CAP	01
W (ppb)					
140.	50.		RTNA	80SLO	01
Yb (ppb)					
2.	1.		RTNA	80SLO	01
Zn (ppm)					
42.	2.		RTNA	80SLO	01
45.9	2.8		RTNA	77DER	01
46.	2.	11	ICPES	82JON	01
46.	1.	11	ICPES	82JON	01

TABLE G (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
46.2	0.6	11	ICPES	82JON	01
46.7		11	AA	79HOE	02
47.	0.48		ITNA	79REN	03
48.	2.	11	ICPES	82JON	01
48.			ICPES	78CAP	01
48.	1.	11	ICPES	82JON	01
48.	3.		ICPES	80SCH	05
48.	3.	11	ICPES	82JON	01
48.			ITNA	78CAP	01
49.2	0.1		PAA	80YAM	01
49.5	0.7		SSMS	77PAU	01
49.8	1.3	6	ICPES	82KUE	01
50.	1.		ITNA	77NAD	02
50.6	1.3	6	ICPES	82KUE	01
50.8			AA	80EVA	01
51.2	0.6	6	ICPES	82KUE	01
52.	1.	D*	DCP	81REE	01
52.	1.		DCP	79REE	01
52.	2.2		ITNA	79KOB	03
52.9	2.2	6	EXRF	79MAT	01
53.	3.	11	ICPES	82JON	01
53.		11	AA	79HOE	02
54.	1.		ICPES	79HER	01
57.	8.		RTNA	77MEL	01
59.7			FAA	78CAP	01
60.1	2.	6	EXRF	79MAT	01
72.5	1.6	*	RTNA	76GAL	01
72.8	1.3	*	AA	76GAL	01
119.		*	EXRF	81PAR	01

TABLE H

NBS SRM 1571—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppb)					
	20.	L*	ITNA	74RAN	02
	100.		OES	75BOL	02
13.	5.		RTNA	80SLO	01
620.	60.		RTNA	74CAR	03
Al (ppm)					
99.			OES	75JON	02
103.	22.	6	ITNA	74HOF	01
110.	140.	R*	AA	75MAN	01
128.			OES	75JON	11
140.	8.		ICPES	81BLA	02
146.	20.		ICPES	79ABE	01
157.			ICPES	78CAP	01
165.			OES	75JON	07
196.			OES	75JON	06
201.			OES	75JON	01
223.			OES	75JON	09
231.			OES	75JON	04
243.			OES	75JON	08
255.			OES	75JON	05
278.			OES	75JON	10
296.	30.		ITNA	77ZIK	01
322.	22.		14NAA	81WIL	01
322.	18.	11	ICPES	82JON	01
330.			NAA	77LAU	01
333.			ITNA	76BAT	01
343.	460.	R*	ITNA	79IMA	03
343.	460.	R*	ITNA	79IMA	01
347.	7.5		POL	72MAI	01
347.	7.5		POL	77MAI	01
349.7	6.1		ITNA	77GOO	01
350.			ITNA	78LAU	02
359.	4.		IENA	79JON	01
377.	21.		ICPES	79MCQ	01
378.	13.		ITNA	75RIC	01
380.			ITNA	83GLA	01
380.	100.		14NAA	81WIL	02
383.			ITNA	78CAP	01
390.	50.		AA	79MCQ	01
398.	24.		ITNA	82EHM	01
407.	11.	6	ITNA	74HOF	01
420.	58.		ITNA	77HAM	01
430.	40.		ITNA	74RAN	02
430.			CPAA	80HAN	01
440.			RTNA	72MOR	03
460.	33.		ITNA	79KOB	03
460.	7.		VV	81NON	01
470.		35	ITNA	81GLA	03
500.			ITNA	80CRE	01
520.	180.		FAA	77FUJ	01
824.	50.	*	ITNA	80SLO	01
As (ppm)					
1.1		*	ITNA	78KEL	02
3.5	1.6	*	CPXRF	80KIR	01
7.5		*	SSMS	81VER	02
8.	1.		PAA	80SEG	01
8.5	0.3		HAA	74LOO	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
14.1		6	NAA	78GAN	01
14.3		*	XRF	78CAM	02
14.3	0.4	*	EXRF	77NIE	01
15.	0.1	*	RTNA	77BAN	03
15.3	0.5	*	EXRF	73SPA	01
15.3	2.	*	ITNA	79AHM	01
15.4	0.2	*19	ITNA	74RAN	02
16.	2.	*	CPXRF	77CAM	01
16.		*	AA	79HIL	01
17.		*	CPXRF	76ZEI	01
17.		*	CPAA	78MCG	01
38.		*	EXRF	81PAR	01
As(III) (ppm)					
4.9			HAA	76AGG	01
Au (ppb)					
0.78	0.15		ITNA	79REN	03
0.97	0.09		RTNA	77NAD	01
1.			RTNA	72MOR	03
1.			ITNA	82QUR	01
1.2		1	IENA	79KUC	01
1.4			ITNA	81KUL	01
1.4	0.5		IENA	81KOS	01
1.5	4.	R*	RTNA	80SLO	01
1.5			ITNA	79KUC	01
1.5	0.5		RTNA	77KUS	01
1.64	0.1		ITNA	77MIN	01
1.8	0.3		ITNA	81HAB	01
1.8		1	IENA	79KUC	01
2.	0.8		ITNA	81KOS	01
3.5	0.6	*	RTNA	74CAR	03
B (ppm)					
16.	12.	*	ITNA	82SCH	05
22.55		*6	AE+AF	74DAU	01
23.		*	OES	75JON	10
24.	2.		ICPES	79HER	01
25.15		6	AE+AF	74DAU	01
27.			OES	75JON	05
27.			OES	75JON	02
30.			OES	75JON	01
31.2	2.8		NM	79YAN	01
31.9	4.7	14	FAA	79SZY	01
32.	4.		ICPES	79ABE	01
32.			OES	75JON	04
32.			OES	75JON	09
32.2	0.4		TCGS	79AND	01
32.5	0.5		COLOR	79YAN	01
32.8	2.3	6	TCGS	76GLA	01
33.	4.		CPAA	80HAN	01
33.	2.	11	ICPES	79MIZ	01
33.			OES	75JON	06
33.			OES	75JON	07
33.2	0.1		TCGS	79FAI	01
33.3	2.3	6	TCGS	76GLA	01
33.4	0.7		ICPES	81KNA	01
34.	1.	11	ICPES	79MIZ	01
35.1	9.9	14	FAA	79SZY	01
36.			CPAA	81SAS	02

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
36.			OES	75JON	03
36.	3.		CPAA	81SAS	01
36.	5.		CPAA	75MCG	01
38.			OES	75JON	08
38.			OES	75JON	11
40.	1.	11	ICPES	79MIZ	01
Ba (ppm)					
	230.	L*	ITNA	80TOU	01
	240.	L*	14NAA	81WIL	01
0.3	0.1	*	CPXRF	77RIN	01
14.7		*	SSMS	81VER	02
25.9	6.8	*	ITNA	81HAB	01
28.		*	ITNA	80CRE	01
30.			NAA	74BEL	01
37.	11.	5	ITNA	80TOU	01
37.9		1	IENA	79KUC	01
38.	4.7		CPXRF	80KIR	01
38.			OES	75JON	05
39.4			ITNA	79KUC	01
40.			NAA	77LAU	01
40.	3.	9	ITNA	78LAU	02
40.			OES	75JON	03
41.	4.		ITNA	79SAT	01
41.	1.3		RTNA	77GUI	03
42.	2.		ICPES	79MCQ	01
42.	6.		ITNA	78LAU	02
42.	2.		ICPES	79MCQ	02
43.	5.7		ITNA	77HAM	01
43.			OES	75JON	11
43.9		1	IENA	79KUC	01
44.	57.	R^	AA	75MAN	01
44.3			AA	74BUS	02
44.8	2.5		IENA	81KOS	01
45.			ITNA	78CAP	01
45.			OES	75JON	04
45.	6.		VV	81NON	01
45.3	2.7		ITNA	81KOS	01
46.	6.		ITNA	74RAN	02
47.	3.		ITNA	81KUL	01
51.			RTNA	72MOR	03
51.3	4.5		PAA	74CHA	01
51.9			ICPES	78DAH	01
52.			OES	75JON	01
59.54	1.81	*	ITNA	79REN	03
62.	21.	*	ITNA	77ZIK	01
80.	22.	*	14NAA	81WIL	02
Be (ppb)					
	60.	L*	ICPES	78CAP	01
13.7	1.8	6	ICPES	82SCH	01
14.8	1.6	6	ICPES	82SCH	01
26.	1.		FLUOR	77WIC	01
30.	4.		VV	74FLO	01
36.	4.	11	FAA	75OWE	01
67.	7.	*11	FAA	75OWE	01
110.	10.	*	GC	73BLA	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
8.66	1.25		ITNA	79REN	03
8.7	0.2		RTNA	73HEY	01
8.8	0.4		ICPES	80HAA	01
8.9	2.2		ICPES	81NAD	01
9.			RTNA	75ABU	01
9.	0.4	H	ICPES	79ROB	01
9.1		1	IENA	79KUC	01
9.2			ITNA	79KUC	01
9.27			HAA	77IHN	01
9.3		35	HAA	77TAM	01
9.4	1.		HAA	76VIJ	02
9.5			HAA	81INU	01
9.5	0.76		RTNA	79HEI	04
9.5	0.5		RTNA	80SLO	01
9.5	0.3	11	HAA	81RAP	01
9.5	0.8		RTNA	79ROS	02
9.6			FAA	82HEI	01
9.6	0.3	11	HAA	81RAP	01
9.68	0.14		NAA	74HEY	01
9.7	0.4	7	RTNA	77GIL	03
9.7	0.12		RTNA	72BYR	01
9.7	0.3		RTNA	79KAN	02
9.7	0.4		ITNA	75RIC	01
9.7	0.4		RTNA	78GAL	01
9.76	0.17		RTNA	79HOE	01
9.8	0.9		ESCA	78CAR	01
9.8	0.1		HAA	81KNA	01
9.8	0.3		RTNA	82COR	01
9.8	0.9		COLOR	76VIJ	02
9.8	0.1	11	HAA	81RAP	01
9.8	0.4	H	ICPES	81PIC	01
9.9	0.1		IENA	78WAN	01
9.98	0.31		HAA	80TAM	01
10.			RTNA	72MOR	03
10.	14.	R*	ITNA	79IMA	03
10.			HAA	79PEA	01
10.	0.1		VV	81NON	01
10.			RTNA	79BYR	01
10.	2.		ITNA	77MIN	01
10.	14.	R*	ITNA	79IMA	01
10.	1.		EXRF	80DYC	01
10.	0.4		RTNA	78GIL	01
10.	2.		COLOR	79MCQ	01
10.1	0.4		IENA	81KOS	01
10.1	0.3	7	RTNA	77GIL	03
10.1	0.2	19	ITNA	74RAN	02
10.1			ITNA	80CRE	01
10.1	0.8		EXRF	79GIA	01
10.1	0.3		RTNA	78WEE	01
10.14			ASV	78DAV	01
10.2	1.		PAA	74CHA	01
10.2	1.		NAA	77JER	01
10.2			HAA	80HON	01
10.2	0.2		HAA	77SMI	01
10.2	0.2		COLOR	77BUR	01
10.2		35	XRF	77TAM	01
10.3	0.9		ITNA	81KOS	01
10.3			HAA	81ARA	01
10.3	0.2		HAA	80AGE	02
10.3	0.4	7	RTNA	77GIL	03
10.3	0.2	34	HAA	78FLA	01
10.3	1.6		RTNA	79REN	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
10.4	0.4		ITNA	78LAU	02
10.43	0.22		HAA	81UTH	01
10.5		1	IENA	79KUC	01
10.5	1.		PAA	76KAT	04
10.5			ITNA	82AKA	01
10.6			ASV	81LEE	01
10.6	0.8		RTNA	74ORV	01
10.6	0.3		14NAA	81WIL	01
10.6	0.8		EXRF	73GIA	01
10.6	0.5		14NAA	81WIL	02
10.7	0.4		FAA	78HAY	01
10.7	1.	6	ITNA	74BEC	01
10.8			HAA	81BRO	01
10.8			IENA	83GLA	01
10.8			FAA	78CAP	01
10.8	0.5		IENA	82GLA	02
10.8	0.9		RTNA	76MEL	01
10.8		6	NAA	78GAN	01
10.82	0.25		HAA	77YAS	02
11.			ICPES	79MCQ	02
11.	2.		RTNA	77KUS	01
11.	1.		PAA	76KAT	02
11.	3.		ITNA	77ZIK	01
11.			ICPES	79MCQ	01
11.	0.6		PAA	78HIS	01
11.	1.		HAA	76FIO	01
11.5	0.5		HAA	81YAN	01
11.5	1.5		RTNA	74GOE	01
11.5	0.47		HAA	81YAN	01
11.5	0.3		GCMES	75TAL	01
11.6	0.27	H	HAA	76SIE	01
11.6	1.8		RTNA	79NIC	01
11.6			HAA	77SIE	01
11.6	1.3		ITNA	74NAD	02
11.8	0.8		SSMS	77DON	01
11.9	0.2		ITNA	81HAB	01
11.9		H	FAE	79FEL	01
11.9	0.1		FAA	80DUP	01
11.98	0.08	H	ICPES	81PAH	01
12.	0.6		AE+AF	82MAT	01
12.	2.5		ITNA	77HAM	01
12.	3.		ITNA	81KUL	01
12.	0.6	11	HAA	82JON	01
12.	2.		HAA	79STO	01
12.			RTNA	74ERD	01
12.	0.38		HAA	82TAM	01
12.	2.6		EXRF	75REU	01
12.	1.		ITNA	76KUC	01
12.15	0.43		NAA	76GUZ	01
12.3	0.2		ITNA	79KOB	03
12.3	0.4		RTNA	73TJI	01
12.7	2.		ITNA	82QUR	01
12.7	0.7		ITNA	79JER	01
12.9	0.4	11	HAA	82JON	01
13.	3.		CPAA	77ZIK	01
13.	0.1		ITNA	75BOL	01
13.	1.	H	ICPES	82HAH	01
13.2			CPXRF	75CAM	01
13.3	0.4		HAA	76WAU	01
13.4	0.93		COLOR	73LEB	01
13.5			HAA	76AGG	01
14.	1.		ITNA	78FUR	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Bi (ppb)					
	8.	L*	ICPES	82HAH	01
4.	1.	H*	ICPES	81PAH	01
39.			FAA	79INU	01
110.	20.		POL	77MAI	01
110.	20.		POL	72MAI	01
110.	100.		POL	74MAI	01
64000.		*	FAA	82HEI	01
Br (ppm)					
	19.	L*	ITNA	80TOU	01
5.	5.	*	ITNA	77ZIK	01
6.3	2.	*	EXRF	77FLO	01
6.6	0.4	*5	IENA	79GLA	02
6.6	0.4	*	EXRF	73SPA	01
7.1			EXRF	81BIS	01
7.3	9.3	R*	ITNA	79IMA	03
7.3	3.2		CPXRF	80KIR	01
7.3	9.3	R*	ITNA	79IMA	01
7.4	0.2		ITNA	75RIC	01
7.8	0.3		EXRF	80DYC	01
8.2			RTNA	72MOR	03
8.2	0.6		ITNA	80SLO	01
8.3	0.5	5	ITNA	80HOE	01
8.48	0.07	5	ITNA	80HOE	01
8.5	0.5	6	ITNA	74BEC	01
8.7			ITNA	83GLA	01
8.8	0.6	5	IENA	79GLA	02
8.8	1.6		EXRF	75REU	01
9.	0.5		EXRF	79GIA	01
9.	0.5		ITNA	78LAU	02
9.1	0.5		ITNA	78WEE	01
9.19	1.39		ITNA	79REN	03
9.2	0.2		ITNA	74RAN	02
9.2			ITNA	80CRE	01
9.3	0.6		EXRF	73GIA	01
9.3	1.4		RTNA	78WEE	01
9.4			ITNA	79KUC	01
9.5	1.		EXRF	77NIE	01
9.5	0.8		RTNA	76MEL	03
9.5			XRF	78CAM	02
9.5		1	IENA	79KUC	01
9.5		1	IENA	79KUC	01
9.6	2.8		ITNA	77HAM	01
9.6	1.2	6	NAA	78GAN	01
9.7	1.1		ITNA	78GIL	01
9.8	0.78		ITNA	77STE	02
9.8	0.8		RTNA	79CRO	01
9.9	0.2		IENA	81KOS	01
10.	1.		ITNA	76KUC	01
10.	2.1		VV	81NON	01
10.1	0.8		ITNA	77GUI	02
10.2	1.		ITNA	81KUL	01
10.5	1.4		ITNA	79CRO	01
10.5	0.6		ITNA	81KOS	01
10.8	0.9	6	NAA	78GAN	01
10.8	0.4	35	NAA	81GLA	03
10.9			ITNA	80SAT	01
11.	1.2		ITNA	79KOB	03

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
11.			ITNA	78CAP	01
11.	0.7	5	ITNA	80TOU	01
12.	1.3		ITNA	79AHM	01
12.	3.		ITNA	77ZIK	01
12.5		*	ITNA	82AKA	01
34.		*	EXRF	81PAR	01
C (%)					
45.76	0.51		CB	82GLA	02
45.8	1.3	35	CB	79GLA	04
46.	2.		TCGS	79FAI	01
46.35	0.31		CB	80SCH	02
47.	5.	35	TCGS	79GLA	04
52.	5.	*	TCGS	79AND	01
Ca (%)					
	3.	L*	14NAA	81WIL	01
1.58		*35	AA	81GLA	04
1.6	2.26	R*	ITNA	79IMA	01
1.6	2.26	R*	ITNA	79IMA	03
1.63		*	OES	75JON	07
1.74		*	OES	75JON	05
1.8			NAA	77LAU	01
1.8			OES	75JON	02
1.81	0.24	5	ITNA	80TOU	01
1.81			ITNA	82AKA	01
1.83	0.07		CPXRF	80KIR	01
1.86	0.1		14NAA	77VAN	01
1.9	0.11		ITNA	79REN	03
1.91			OES	75JON	10
1.92			EXRF	81BIS	01
1.93	0.07		EXRF	79KUE	01
1.932	0.09		ITNA	77ZIK	01
1.94			OES	75JON	04
1.96	0.06		FE	78KOR	01
1.96	0.002	11	AA	75ISA	01
1.97	0.03	11	ICPES	82JON	01
1.97	0.055		PAA	76KAT	04
1.97	0.15		14NAA	81WIL	02
1.97	0.08		TCGS	79AND	01
1.97	0.05		PAA	76KAT	02
1.98	0.05		ICPES	79MCQ	02
1.98	0.04	11	ICPES	82JON	01
1.98	0.08		EXRF	75REU	01
1.98	0.07		ICPES	79MCQ	01
1.99	0.06		EXRF	77NIE	01
1.99			XRF	78CAM	02
2.			OES	75ISA	01
2.	0.08		ITNA	80SLO	01
2.01	0.02		AA	79MCQ	01
2.01	0.18		RTNA	80CAN	01
2.02	0.11		EXRF	82DAK	01
2.02	0.002	11	AA	75ISA	01
2.03			ICPES	78DAH	01
2.03	0.04	11	ICPES	82JON	01
2.03	0.02	11	ICPES	82JON	01
2.039	0.06		CPAA	77ZIK	01
2.04			OES	75JON	03
2.04			AA	80URE	01
2.04	0.02	11	AA	78GAI	01
2.06			COLOR	77HAM	04

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
2.07	0.06		IENA	79JON	01
2.08	0.02	11	AA	78GAI	01
2.08	0.01		PAA	74CHA	01
2.08	0.04		ITNA	79KOB	03
2.08	0.06		ICPES	79ABE	01
2.08			OES	75JON	09
2.08			OES	75JON	11
2.1			RTNA	72MOR	03
2.1	0.2		14NAA	80FAA	01
2.1	0.08	6	EXRF	79MAT	01
2.1	0.05		ITNA	81KOS	01
2.1	0.2		ITNA	78LAU	02
2.11			ICPES	81WEI	01
2.11			AA	79HIL	01
2.11	0.08	6	EXRF	79MAT	01
2.12	0.07		IENA	81KOS	01
2.13	0.09		ITNA	75RIC	01
2.13			SSMS	81VER	02
2.13	0.11		TCGS	79FAI	01
2.13			ITNA	76BAT	01
2.14	0.02		ITNA	78FUR	01
2.145	0.017		CPXRF	81ROB	02
2.15			COLOR	80LAU	01
2.15			ITNA	78CAP	01
2.17			OES	75JON	08
2.17	0.03		EXRF	80DYC	01
2.2	0.1		ITNA	81KUL	01
2.2	0.02		ICPES	79HER	01
2.2	0.05		PAA	78HIS	01
2.21	0.15		ITNA	77HAM	01
2.28			CPAA	80HAN	01
2.29	0.04		VV	81NON	01
2.29			OES	75JON	06
2.41		*	OES	75JON	01
2.46	0.09	*5	ITNA	80TOU	01
2.63		*	ICPES	78CAP	01
5.01		*	EXRF	81PAR	01
Cd (ppb)					
	300.	L*	AA	73LOO	03
	200.	L*	PAA	80SEG	01
	50000.	L*	RTNA	72MOR	03
	200.	L*	PAA	78HIS	01
	2500.	L*	ICPES	78CAP	01
	100.	L*	POL	72SIN	01
	1900.	L*	OES	75BOL	02
	100.	L*	POL	72SIN	01
70.			RTNA	80SLO	01
70.			FAA	73LOO	01
72.	14.		FAA	81ZAU	01
90.	10.		FAA	80LEG	01
90.			AA	79HIL	01
92.	18.		RTNA	73TJI	01
95.		11	FAA	79HOE	02
100.			FAA	80PRE	01
100.	40.		HAA	82WEI	01
100.			AA	73LOO	01
100.			AA	79NAR	01
100.	4.		ASV	82SAT	02
100.	10.		POL	74MAI	01
105.	5.		FAA	79STO	01
105.			FAA	82HOE	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
106.	9.		FAA	74RAI	02
108.	8.		AE+AF	74RAI	02
109.	2.		FAA	79DAB	02
110.	10.		FAA	81KNA	01
110.	10.		NAA	77JER	01
110.			FAA	82PRE	01
110.	6.		AA	80SCH	05
110.			FAA	82AKA	01
110.			RTNA	79BYR	01
110.	10.		AA	82RIT	01
110.	10.		PAA	74CHA	01
110.	10.		AA	75EPS	01
110.	10.		AA	78RIT	01
110.	10.		AF	75EPS	01
116.	8.		RTNA	78GAL	01
116.	10.		FAA	83GLA	01
116.	13.		RTNA	80GRE	01
120.	10.		IENA	81KOS	01
120.		11	FAA	79HOE	02
120.	80.	11	ICPES	82JON	01
120.	14.		NAA	76GUZ	01
120.	20.	11	FAA	78SMI	01
120.			RTNA	74ROO	01
120.	20.	11	FAA	78SMI	01
120.	10.		RTNA	74ORV	01
130.	20.		ITNA	81KOS	01
130.			FAA	82HEI	01
130.	5.	7	AA	73TAL	01
130.	5.		FAA	74TAL	01
130.	7.	7	AA	73TAL	01
130.	7.		FAA	74TAL	01
140.	40.		FAA	82WEI	01
150.	50.		AA	80AGE	01
150.	50.		AA	76GAL	01
150.	60.		TCGS	79AND	01
160.	16.		FAA	76URE	01
160.	10.		ICPES	79HER	01
160.	50.		RTNA	80VAL	01
160.	70.	11	ICPES	82JON	01
170.			AF	78URE	02
170.	70.	11	ICPES	82JON	01
180.		16	AA	79ABO	01
200.	100.	*11	ICPES	82JON	01
200.	80.	*	RTNA	76GAL	01
230.	20.	*	FAA	73SEG	01
230.	60.	*	ITNA	74RAN	02
580.		*16	AA	79ABO	01
660.	340.	*	AA	79MON	01
2000.		*	AE+AF	79ULL	01
Ce (ppm)					
	2.	L*	14NAA	81WIL	01
	2.	L*	14NAA	81WIL	02
0.75	0.067		ITNA	77HAM	01
0.84	0.04		ITNA	81KOS	01
0.9		D*	RTNA	82LAU	01
0.9			RTNA	77LAU	02
0.91	0.06		RTNA	80SLO	01
0.92	0.14		ITNA	77NAD	02
0.97			ITNA	79KUC	01
0.98	0.07		VV	81NON	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
0.98	0.05		ITNA	78LAU	02
1.			NAA	77LAU	01
1.			RTNA	72MOR	03
1.1			SSMS	78URE	01
1.2	0.2	*	ITNA	81KUL	01
Cl (ppm)					
	1400.	L*	14NAA	81WIL	01
53.		*	SSMS	81VER	02
400.	770.	R*	ITNA	79IMA	03
400.	770.	R*	ITNA	79IMA	01
510.		*35	ITNA	81GLA	03
580.	27.	*	FAA	78TSU	01
630.	24.		AA	78TSU	01
632.	80.		ITNA	77ZIK	01
638.	27.		ISE	81NAD	01
675.			ITNA	78CAP	01
685.	32.		PAA	74CHA	01
690.			NAA	76GUZ	01
700.	60.	35	ITNA	81GLA	04
706.	26.		ITNA	78FUR	01
717.	193.		PAA	76KAT	04
719.5			ITNA	82AKA	01
720.	15.		VV	81NON	01
720.	140.		PAA	76KAT	02
730.	60.		ITNA	80SLO	01
730.	30.		TCGS	79FAI	01
730.	26.		NAA	78GAN	01
732.	29.		ITNA	77GUI	02
732.	29.		NAA	76MIL	02
739.			ITNA	76BAT	01
740.	58.		ITNA	77HAM	01
740.	30.		TCGS	79AND	01
750.	35.		ITNA	77STE	02
750.			ITNA	74RAN	02
750.	19.		ITNA	75RIC	01
755.			ITNA	80CRE	01
760.			ITNA	83GLA	01
770.			XRF	78CAM	02
770.	150.		CPXRF	79REN	02
770.	240.		EXRF	77NIE	01
790.			RTNA	72MOR	03
800.	40.		IENA	79JON	01
810.	150.		EXRF	80DYC	01
950.	70.	*	14NAA	81WIL	02
Co (ppb)					
	1300.	L*	ITNA	80TOU	01
	6000.	L*	EXRF	79GIA	01
	8000.	L*	14NAA	81WIL	01
	8000.	L*	14NAA	81WIL	02
100.			RTNA	72MOR	03
110.	20.	6	NAA	78GAN	01
112.	17.		NAA	76GUZ	01
120.	50.		AA	76GAL	01
130.			NAA	77LAU	01
130.			ITNA	79KUC	01
130.			ITNA	78CAP	01
130.	10.		RTNA	74GOE	01
130.			ITNA	80CRE	01
130.	10.		ITNA	78LAU	02

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
130.	20.		RTNA	77KUS	01
130.	20.	6	ITNA	74BEC	01
138.	10.		ITNA	74RAN	02
140.	30.	6	NAA	78GAN	01
140.			NAA	74BEL	01
140.	10.		ITNA	78GIL	01
142.	7.		FAA	75HAG	01
145.			ITNA	82AKA	01
150.			ITNA	80SAT	01
150.		1	IENA	79KUC	01
150.	20.	11	FAA	80FUD	01
150.	30.		ITNA	76KUC	01
160.	20.		RTNA	80SLO	01
160.	10.		ITNA	82COR	01
170.	10.		ITNA	79SAT	01
170.	10.		ITNA	79KOB	03
180.	30.		ITNA	81KUL	01
180.	20.		RTNA	77MEL	01
180.	28.		ITNA	77HAM	01
190.	40.		VV	81NON	01
190.	5.	11	FAA	80FUD	01
210.	20.	6	ITNA	74BEC	01
210.	20.		ITNA	81KOS	01
220.	40.		ITNA	78FUR	01
220.	30.		ITNA	82QUR	01
230.	50.		IENA	81KOS	01
230.	30.		ITNA	79AHM	01
260.	120.	5	ITNA	80TOU	01
297.	26.	*	COLOR	82KIR	01
300.	40.	*	ITNA	76GAL	01
300.		*	FAA	82HOE	01
420.	470.	R*	ITNA	75RIC	01
460.	100.	*	ITNA	79REN	03
290.	100.	*	ITNA	77ZIK	01
Cr (ppm)					
	5.	L*	EXRF	79GIA	01
	2.	L*	14NAA	81WIL	01
	2.	L*	14NAA	81WIL	02
1.07	0.13	6*	NAA	78GAN	01
1.5		*	AA	73LOO	03
1.97	0.44		NAA	76GUZ	01
2.	0.13		GC-AA	76WOL	01
2.			ICPES	79MCQ	01
2.	0.2	6	ITNA	74BEC	01
2.			ICPES	79MCQ	02
2.			NAA	74BEL	01
2.			AA	79MCQ	01
2.05		11	AA	79HOE	02
2.2	0.4		VV	81NON	01
2.2	1.		CPXRF	80KIR	01
2.2	2.9	R*	AA	75MAN	01
2.2	0.3		RTNA	77MEL	01
2.22	0.2		PAA	74CHA	01
2.23		6	NAA	78GAN	01
2.25		11	AA	79HOE	02
2.37	0.07		SSMS	72MAG	01
2.4	0.36		ITNA	77HAM	01
2.4	0.1	11	ICPES	82JON	01
2.4	0.6		ICPES	81BLA	02
2.4			RTNA	75ABU	01
2.4			ITNA	79KUC	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
2.4	0.3		ITNA	78LAU	02
2.4	0.1		RTNA	76MEL	03
2.4	0.1		CHEML	74LI	01
2.4	0.1	9	ITNA	78LAU	02
2.46	0.025		RTNA	74MCC	01
2.463	0.02	11	RTNA	78MCC	01
2.47	0.14		FAA	75CAR	02
2.495	0.014	11	RTNA	78MCC	01
2.5	1.6		EXRF	73GIA	01
2.5	0.4		ITNA	76KUC	01
2.5			*RTNA*	*72MOR*	*03*
2.574	0.01		ITNA	78MCC	01
2.58	0.04		ITNA	81KOS	01
2.59	0.15	7	FAA	80CHA	01
2.6	0.3	11	ICPES	82JON	01
2.6	0.1	35	FAA	81GLA	03
2.6	0.4		ITNA	78FUR	01
2.6	0.1		ITNA	79KOB	03
2.6	0.2		NM	80SHI	01
2.6	0.2	6	ITNA	74BEC	01
2.6		11	AA	79HOE	02
2.65	0.16	7	FAA	80CHA	01
2.67	0.15		RTNA	78GAL	01
2.7	0.2	D*	DCP	*81REE*	*01*
2.7			FAA	82HOE	01
2.7			AA	81ARA	01
2.7	0.2		DCP	79REE	01
2.7	0.17		AA	80AGE	01
2.7	0.3		ITNA	82COR	01
2.7			ITNA	78CAP	01
2.7	0.2		ITNA	79SAT	01
2.8	0.2		ICPES	81KNA	01
2.8	0.2		ITNA	82QUR	01
2.8			NAA	77LAU	01
2.8			SSMS	81VER	02
2.8	*0.4*		*ITNA*	*74RAN*	*02*
2.8	0.2		ITNA	75RIC	01
2.8	0.2		ITNA	79AHM	01
2.8	0.6		FAA	74WOL	01
2.82		7	FAA	80CHA	01
2.9	0.3		RTNA	74GOE	01
2.9	0.4		EXRF	80DYC	01
2.9			RTNA	78GOE	01
3.	1.		ITNA	77ZIK	01
3.	0.2		AA	76GAL	01
3.14	0.4		ITNA	81HAB	01
3.2	0.3		RTNA	76GAL	01
3.2	0.3		ITNA	81KUL	01
3.3		*	*ITNA*	*80CRE*	*01*
3.4	0.5	*	ITNA	76GAL	01
3.67	0.01	*	ICPES	79HER	01
5.5	2.2	*	PAA	80YAM	01
5.81	0.84	*	ITNA	79REN	03

Cs (ppb)

	60.	L*	RTNA	72MOR	03
	100.	L*	ITNA	82GLA	02
	300.	L*	14NAA	81WIL	02
20.			NAA	77LAU	01
24.	*3.*	*9*	*ITNA*	*78LAU*	*02*
28.	5.		ITNA	81KUL	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
28.	5.		ITNA	78LAU	02
29.	2.		ITNA	74RAN	02
37.	2.		ITNA	83GLA	01
37.4	11.		NAA	76GUZ	01
38.	7.	6	ITNA	74BEC	01
40.	10.		ITNA	79SAT	01
40.	9.		VV	81NON	01
42.			ITNA	80CRE	01
42.	1.		IENA	81KOS	01
48.	4.		ITNA	81KOS	01
80.	10.	*	RTNA	77MEL	01
150.	*60.*	*	*ITNA*	*79REN*	*03*

Cu (ppm)

3.6	1.3	*6	ITNA	74HOF	01
8.		*	EXRF	82KEE	01
8.1	2.	*	EXRF	77FLO	01
8.4	0.8		ITNA	78FUR	01
8.9	1.7		FAA	77FUJ	01
9.4			EXRF	81BIS	01
9.6	1.7		EXRF	73SPA	01
9.76	0.61	9	ITNA	77GAN	03
9.8	0.6	6	NAA	78GAN	01
9.8	0.6	6	NAA	78GAN	01
10.			RTNA	72MOR	03
10.	1.		XRF	78LIN	01
10.	2.		CPXRF	77CAM	01
10.	0.7		AA	78LIN	01
10.3	0.5		FAA	82JEN	02
10.3			AA	76KRI	03
10.3	0.6		AA	76GAL	01
10.4	13.3	R*	ITNA	79IMA	03
10.4	2.4		EXRF	75REU	01
10.4	13.3	R*	ITNA	79IMA	01
10.5	1.		RTNA	80SLO	01
10.8		*6*	*NAA*	*72SIN*	*01*
11.			ICPES	81WEI	01
11.			AE+AF	79ULL	01
11.			OES	75JON	10
11.		1	AA	77FRY	01
11.	1.		ICPES	79MCQ	02
11.	1.		RTNA	77KUS	01
11.	15.	R*	AA	75MAN	01
11.	1.5		AA	79MON	01
11.	1.		FAA	79KRA	01
11.1	1.		RTNA	82COR	01
11.2			VV	81NON	01
11.2	0.18		AA	80AGE	01
11.2	*1.3*		ITNA	74RAN	02
11.2	1.	6	POL	72SIN	01
11.3		16	AA	79ABO	01
11.4			ICPES	78CAP	01
11.43	0.2		RTNA	74RAV	01
11.5	0.6		FAA	83GLA	01
11.5	1.		EXRF	79GIA	01
11.5	1.		POL	74MAI	01
11.5	0.5		RTNA	73TJI	01
11.6	0.4		ICPES	81BLA	02
11.6	0.2		AA	75ABU	01
11.6	0.4		RTNA	78GAL	01
11.6			*FAA*	*78CAP*	*01*

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
11.7	1.7		CPXRF	81ROB	02
11.7	0.2	11	ICPES	82JON	01
11.8	0.7		ITNA	79KOB	03
11.8	0.3		RTNA	78GIL	01
11.8			RTNA	79BYR	01
11.9	1.4		FAA	82GRO	01
11.9	1.6		ASV	79BRI	02
12.			CPXRF	76ZEI	01
12.			AA	79HIL	01
12.			AA	81ARA	01
12.	0.4	11	ICPES	82JON	01
12.	1.		AA	77YAN	01
12.			AA	76FUK	01
12.	2.		FAA	77LOR	01
12.	1.		ICPES	79MCQ	01
12.	1.4		EXRF	77NIE	01
12.	0.8	11	ICPES	82JON	01
12.			XRF	78CAM	02
12.	0.5		AA	73TAL	01
12.	1.		AA	79MCQ	01
12.	0.2	11	ICPES	82JON	01
12.			OES	75JON	02
12.			CPAA	78MCG	01
12.			AA	73LOO	03
12.	1.		AA	78RIT	01
12.	1.		RTNA	74GOE	01
12.	2.		RTNA	74CAR	03
12.			FAA	73SEG	01
12.1	0.2		ICPES	81KNA	01
12.1	0.9		ITNA	79SAT	01
12.1		16	AA	79ABO	01
12.1	1.3		PAA	76WIL	01
12.2	1.1		ICPES	79ABE	01
12.3	1.4		VV	80SCH	05
12.3	0.9		RTNA	76MEL	03
12.4	1.6		RTNA	80VAL	01
12.5		11	AA	79HOE	02
12.5	0.8		VV	79STO	01
12.5	0.7		FAA	74WOL	01
12.6	0.6		EXRF	73GIA	01
12.62	0.85		NAA	76GUZ	01
12.7		6	POL	72SIN	01
12.9		6	AA	72SIN	01
13.			ICPES	78DAH	01
13.		11	AA	79HOE	02
13.	1.	35	RTNA	77GLA	01
13.	0.47	11	AA	75ISA	01
13.	4.2		CPXRF	80KIR	01
13.			OES	75JON	07
13.		1	AA	77FRY	01
13.1	0.6		AA	73THO	01
13.2	0.5		SSMS	72MAG	01
13.3	0.1		ICPES	79HER	01
13.5	1.5		ITNA	82QUR	01
13.5	1.5		ITNA	79AHM	01
13.7	1.3	6	EXRF	79MAT	01
13.8	1.4		XRF	74REU	01
14.	2.		ITNA	77ZIK	01
14.	4.5	6	ITNA	74HOF	01
14.	1.		EXRF	80DYC	01
14.	0.13	11	AA	75ISA	01
14.			OES	75JON	11
14.			OES	75JON	04

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
14.			OES	75JON	03
14.5	4.7		ITNA	77HAM	01
14.5	1.		FAA	82KRI	01
15.			OES	75ISA	01
15.			OES	75JON	05
15.5			SSMS	81VER	02
15.5			ITNA	82AKA	01
16.			OES	75JON	01
16.			OES	75JON	09
17.		*	OES	75JON	06
18.1		*	CPXRF	75CAM	01
18.3	6.9	*	XRF	77SMI	04
19.		*	ITNA	78KEL	02
20.		*	OES	75JON	08
21.	11.	*	CPAA	77ZIK	01
27.		*	OES	75BOL	02
30.		*	XRF	80SUZ	02
35.		*	EXRF	81PAR	01
Dy (ppb)					
	100.	L*	NAA	77LAU	01
53.	8.		ITNA	77NAD	02
110.			SSMS	78URE	01
Er (ppb)					
	100.		RTNA	77LAU	02
	100.	D*	RTNA	82LAU	01
30.			SSMS	78URE	01
Eu (ppb)					
	50.	L*	ITNA	78CAP	01
20.			SSMS	78URE	01
20.			ITNA	80CRE	01
20.	2.		ITNA	78LAU	02
21.			RTNA	77LAU	02
21.		D*	RTNA	82LAU	01
21.	1.		ITNA	74RAN	02
22.	8.		RTNA	80SLO	01
22.	3.		ITNA	79KOB	03
24.	4.		ITNA	77NAD	02
26.	1.		IENA	81KOS	01
26.			NAA	77LAU	01
27.	3.		ITNA	81KOS	01
27.	6.		ITNA	81KUL	01
28.	6.3		ITNA	77HAM	01
31.	4.	*	ITNA	74BEC	01
120.	20.	*	RTNA	77KUS	01
300.		*	RTNA	72MOR	03
F (ppm)					
	60.	L*	14NAA	81WIL	02
	240.	L*	14NAA	81WIL	01
3.12			COLOR	79DAB	01
3.6			AA	77TSU	01
3.69			COLOR	79DAB	01
3.8	0.32		ISE	79DAB	01
3.88			ISE	79DAB	01
4.	0.3		ISE	82GLA	02
4.2	0.4		ISE	83GLA	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
4.4	0.3		ISE	83KNA	01
4.8	1.		MS	77STE	02
10.		*	CPAA	80HAN	01
Fe (ppm)					
121.		*	CPAA	78MCG	01
121.		*	CPXRF	76ZEI	01
145.	4.	*11	AA	78GAI	01
151.		*	OES	75JON	09
174.		*	OES	75JON	06
190.		*	OES	75JON	11
190.		*	OES	75JON	02
205.	37.	*	ITNA	81HAB	01
213.			OES	75JON	03
220.	6.	11	AA	78GAI	01
225.	58.		XRF	77SMI	04
229.	22.		XRF	78LIN	01
229.			OES	75JON	08
232.			OES	75JON	04
235.			ICPES	78CAP	01
235.			AA	76FUK	01
237.	13.		CHEML	72SEI	01
238.			AA	76KRI	03
239.			OES	75ISA	01
240.	330.	R*	AA	75MAN	01
245.	35.		ICPES	79ABE	01
246.			FAA	78CAP	01
250.			AA	73LOO	03
250.	42.5	11	AA	75ISA	01
250.	30.		RTNA	74CAR	03
253.			ITNA	80SAT	01
254.	9.		EXRF	80DYC	01
255.	5.	11	COLOR	82SCH	03
256.	11.	11	*ICPES*	*82JON*	*01*
256.	1.		AA	78LIN	01
259.			ITNA	78CAP	01
260.	20.		ITNA	78GIL	01
261.			SSMS	81VER	02
261.	39.1	11	AA	75ISA	01
262.	5.		ICPES	79HER	01
267.			ICPES	78DAH	01
267.	2.9		CPXRF	81ROB	02
267.	6.		ICPES	79MCQ	02
270.			ITNA	80CRE	01
270.	50.	35	ITNA	81GLA	03
270.			OES	75BOL	02
271.	7.		RTNA	77MEL	01
271.	6.	11	COLOR	82SCH	03
272.	16.		AA	73THO	01
273.	6.		ICPES	79MCQ	01
274.	19.		EXRF	79GIA	01
276.	8.		EXRF	73GIA	01
276.			OES	75JON	05
278.	11.		AA	79MCQ	01
279.	79.		RTNA	77KUS	01
280.	10.		ITNA	78LAU	02
280.			NAA	77LAU	01
280.	26.		ITNA	77HAM	01
282.			COLOR	72SEI	01
282.	21.		14NAA	81WIL	02
283.	23.		ITNA	75RIC	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
283.	3.	11	ICPES	82JON	01
285.	5.		RTNA	80SLO	01
285.	9.	11	COLOR	82SCH	03
285.	5.		ITNA	79DAS	01
287.			AA	79HIL	01
288.	20.		ICPES	80SCH	05
290.	35.		IENA	81KOS	01
290.	6.	11	ICPES	82JON	01
290.	30.		CPAA	77ZIK	01
290.			RTNA	72MOR	03
290.	12.		PAA	74CHA	01
290.	25.	6	NAA	78GAN	01
290.	30.		ITNA	81KOS	01
290.			FAA	73SEG	01
290.	30.		ITNA	81KUL	01
291.	24.		VV	*81NON*	*01*
293.	14.		EXRF	77FLO	01
293.		11	AA	79HOE	02
293.	18.		EXRF	79KUE	01
294.			OES	75JON	10
295.		11	AA	79HOE	02
295.7	20.1		ITNA	82COR	01
296.	12.		ICPES	81BLA	02
296.	8.		ITNA	82QUR	01
296.	8.		ITNA	79AHM	01
297.			AA	81ARA	01
297.	10.		FAA	82JEN	02
299.	1.		ITNA	79KOB	03
300.	50.		14NAA	80FAA	01
300.	14.		COLOR	82MOR	01
300.			EXRF	81BIS	01
300.	40.		ITNA	76KUC	01
300.	17.	11	ICPES	82JON	01
300.			NAA	74BEL	01
300.	45.		*ITNA*	*74RAN*	*02*
301.	2.5		EXRF	73SPA	01
303.	32.		ITNA	79SAT	01
304.	30.		ITNA	78FUR	01
306.			ITNA	79KUC	01
306.	6.		EXRF	77NIE	01
310.	54.		FAA	77FUJ	01
310.			XRF	78CAM	02
311.1	10.4		NAA	76GUZ	01
312.	11.4		POL	72MAI	01
312.	11.4		POL	77MAI	01
312.	11.		POL	74MAI	01
313.			ICPES	81WEI	01
314.	40.		EXRF	75REU	01
315.	25.		RTNA	74GOE	01
316.			OES	75JON	01
317.	25.		ICPES	81KNA	01
318.4	26.9	6	ITNA	74BEC	01
319.	32.		XRF	74REU	01
320.	25.	6	NAA	78GAN	01
326.			EXRF	82KEE	01
326.	30.		ITNA	77ZIK	01
331.5	118.		PAA	76KAT	04
332.	84.		PAA	76KAT	02
335.	14.	6	EXRF	79MAT	01
338.	16.	6	EXRF	79MAT	01
343.	6.		SSMS	72MAG	01
348.	10.		14NAA	81WIL	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
367.		*	OES	75JON	07
370.	45.	*	CPXRF	77CAM	01
422.		*	CPXRF	75CAM	01
450.	70.	*	ITNA	79REN	03
500.		*	AE+AF	79ULL	01
884.		*	EXRF	81PAR	01
Ga (ppb)					
	500.	L*	EXRF	79GIA	01
	160.	L*	IENA	78WAN	01
78.	25.		NAA	76GUZ	01
86.			RTNA	72MOR	03
89.3	3.6		RTNA	80STU	01
100.	10.		RTNA	77KUS	01
Gd (ppb)					
1.64	0.24		ITNA	77NAD	02
100.		D*	RTNA	82LAU	01
100.			RTNA	77LAU	02
100.			SSMS	78URE	01
Ge (ppb)					
	400.	L*	EXRF	79GIA	01
150.		H	ICPES	82HAH	01
H (%)					
5.54	0.08		TCCS	79FAI	01
5.6	0.1		TCGS	79AND	01
5.91	0.3		CB	82GLA	02
6.05	0.07		CB	80SCH	02
6.1	0.1	35	TCGS	79GLA	04
Hf (ppb)					
13.			RTNA	80SLO	01
23.			NAA	77LAU	01
27.			ITNA	80CRE	01
31.	4.		ITNA	78LAU	02
37.	5.		ITNA	74RAN	02
Hg (ppb)					
	5000.	L*	14NAA	81WIL	01
	1000.	L*	EXRF	79GIA	01
110.	30.	*	RTNA	77BAN	03
120.	10.		RTNA	74GOE	01
120.	20.		RTNA	80SLO	01
122.		11	CVAA	79HOE	02
125.			IDMS	74RIC	01
125.			AA	74RIC	01
130.			CVAA	80NAD	01
138.	2.	11	CVAA	77TAG	01
140.	20.		IDMS	72RAI	01
140.	10.		PAA	74CHA	01
140.	10.		NAA	77JER	01
140.	10.		ITNA	74FRI	01
141.	9.		SSMS	74ALV	01
142.	27.		CVAA	82DOO	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
146.	12.		RTNA	82LO	01
146.	6.		FAE	76CAV	01
146.			UU	74FEL	01
146.	17.		NAA	76GUZ	01
148.	10.	7	RTNA	72HEI	01
150.	17.		CVAA	74FIT	01
150.			CVAA	81NAR	01
150.	5.		FAA	72LYO	01
152.	6.		CVAA	80TON	01
152.	5.	2	CVAA	79KNE	01
152.	6.		RTNA	76MEL	01
153.	8.		CVAA	80KOR	01
153.	14.		FAA	75KOI	01
154.	16.	5	RTNA	80GRE	01
154.	13.		CVAA	79DOG	01
154.	28.		FAA	74CHU	03
154.	13.		FAA	76DOG	01
154.	20.		RTNA	78GIL	01
154.	5.		RTNA	74ORV	01
155.	5.6		RTNA	72ROO	02
155.	6.	11	CVAA	77TAG	01
155.	15.		RTNA	73TJI	01
155.	6.		RTNA	72ROO	01
155.	13.	5	RTNA	80GRE	01
155.	3.		RTNA	72RAI	01
157.	20.		CVAA	82GLA	02
157.	1.		AF	81EBD	01
158.	10.		FAA	77GLA	03
158.			RTNA	74RIC	01
158.	5.		RTNA	72LYO	01
158.			ITNA	80SAT	01
159.	21.		CVAA	78MAT	01
160.	70.		ITNA	81KUL	01
160.	20.		FAA	79STO	01
160.	20.		CVAA	82CHA	01
160.	12.		FAA	72ROO	01
160.	30.		RTNA	80VAL	01
160.	12.		FAA	74SIE	02
160.	6.		CVAA	72RAI	01
160.	40.	6	POT	82JAG	01
160.			RTNA	79DES	01
160.	20.		FAA	82JEN	02
161.	13.		RTNA	75LIT	01
162.	10.	7	RTNA	72HEI	01
163.	6.	17	CVAA	77TAG	01
163.	12.		RTNA	82GRI	01
165.	5.	35	CVAA	81GLA	04
167.			ITNA	74RIC	01
168.	10.		ITNA	82QUR	01
168.	10.		ITNA	79AHM	01
175.	5.	.17	CVAA	77TAG	01
180.	40.	6	POT	82JAG	01
180.	10.		ITNA	78FUR	01
180.	20.		ITNA	74RAN	02
180.	30.		RTNA	77MEL	01
190.	30.	6	ITNA	74BEC	01
190.	40.		CVAA	77AND	01
190.			ITNA	75RIC	01
200.	30.	*	ITNA	81HAB	01
200.	30.	*	PAA	80SEG	01
200.	80.	*	ITNA	74GUI	01
200.	20.	*	ITNA	81KOS	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
203.	11.	*17	CVAA	77TAG	01
240.		*17	CVAA	77TAG	01
305.	70.	*	ITNA	75LIT	01
190.	10.		NAA	78GAN	01
210.	50.	*	ITNA	77ZIK	01
Ho (ppb)					
13.		D*	RTNA	82LAU	01
13.			RTNA	77LAU	02
20.			SSMS	78URE	01
I (ppb)					
	1000.	L*	ITNA	83GLA	01
100.	50.		PAA	77WIL	01
100.	50.		PAA	78HIS	01
160.	20.		IENA	82SAT	01
167.	10.		RTNA	77ROO	01
173.2	4.4		RTNA	80GVA	01
183.	6.	17	NAA	79HEC	01
188.	26.		NAA	79BRA	01
200.	70.		RTNA	77STE	02
220.		17	NAA	79HEC	01
I-129 (fci)					
0.006	0.002		RTNA	79BRA	01
In (ppb)					
1.23	0.11		RTNA	74RAV	01
1.6	0.1		RTNA	78KOB	01
1.8	0.8		RTNA	77KUS	01
Ir (ppb)					
15.	3.		RTNA	74CAR	03
K (%)					
1.05	1.41	R*	ITNA	79IMA	01
1.05	1.406	R*	ITNA	79IMA	03
1.11		*	OES	75JON	05
1.19		*	OES	75JON	09
1.229	0.018	*	CPXRF	81ROB	02
1.26		*	OES	75JON	03
1.28			OES	75JON	11
1.3	0.2		14NAA	77SEG	01
1.35		1	AA	78SZY	01
1.35			OES	75JON	04
1.36	0.01	11	AA	78GAI	01
1.37	0.14		IENA	79JON	01
1.37			ITNA	80CRE	01
1.37	0.06		ITNA	74RAN	02
1.374		1	AA	78SZY	01
1.38	0.04		ITNA	75RIC	01
1.38			OES	75ISA	01
1.39			CPAA	80HAN	01
1.4	0.2	35	ITNA	81GLA	04
1.4			ITNA	82AKA	01
1.4	0.01	11	AA	78GAI	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
1.4	0.06		ITNA	78LAU	02
1.4	0.098	6	NAA	78GAN	01
1.4			OES	75JON	02
1.41	0.03		TCGS	79AND	01
1.41			OES	75JON	07
1.42	0.04		ITNA	81KOS	01
1.42			EXRF	81BIS	01
1.42	0.09		ITNA	76KUC	01
1.42			ITNA	78CAP	01
1.43	0.04		EXRF	79KUE	01
1.43	0.07	11	ICPES	82JON	01
1.43	0.06		FE	78KOR	01
1.437	0.079		NAA	76GUZ	01
1.44		11	AA	75ISA	01
1.44	0.04		RTNA	76MEL	03
1.445	0.11		PAA	76KAT	04
1.45			ITNA	79KUC	01
1.45			ICPES	79COO	01
1.45			OES	75JON	01
1.45	0.08		PAA	76KAT	02
1.45		11	AA	75ISA	01
1.46	0.14		14NAA	80FAA	01
1.46	0.11		EXRF	82DAK	01
1.46	0.07		ITNA	79AHM	01
1.46	0.2		14NAA	81WIL	02
1.47			NAA	77LAU	01
1.47	0.1		ITNA	79REN	03
1.47	0.02	11	ICPES	82JON	01
1.47	0.12		ITNA	79KOB	03
1.47	0.07	11	ICPES	82JON	01
1.48			AA	79HIL	01
1.48			ICPES	81WEI	01
1.49	0.03		ITNA	78GIL	01
1.49		1	IENA	79KUC	01
1.49	0.194		ITNA	77HAM	01
1.49	0.04		TCGS	79FAI	01
1.496	0.043		ITNA	78FUR	01
1.5			RTNA	72MOR	03
1.5			ITNA	76BAT	01
1.5	0.08		VV	81NON	01
1.5			ITNA	78KEL	02
1.51	0.06		CPXRF	80KIR	01
1.51	0.06		EXRF	77NIE	01
1.51			XRF	78CAM	02
1.54			OES	75JON	08
1.54	0.03		ITNA	80SLO	01
1.56	0.05	11	ICPES	82JON	01
1.57	0.08		EXRF	75REU	01
1.57	0.25		14NAA	81WIL	01
1.58	0.08	6	NAA	78GAN	01
1.59			OES	75JON	10
1.62			OES	75JON	06
1.66	0.8	*6	EXRF	79MAT	01
1.7	0.07	*	ICPES	79HER	01
1.74	0.04	*	EXRF	80DYC	01
1.81	0.08	6*	EXRF	79MAT	01
3.89		*	EXRF	81PAR	01
La (ppm)					
0.7	0.1	*	ITNA	77ZIK	01
0.8	0.05		RTNA	80SLO	01
0.89	1.25	R*	ITNA	79IMA	03

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
0.89	1.25	R*	ITNA	79IMA	01
0.95			ITNA	79KUC	01
0.98			ITNA	80CRE	01
0.99	0.08	6	ITNA	74BEC	01
1.			NAA	77LAU	01
1.		D*	RTNA	82LAU	01
1.			RTNA	77LAU	02
1.			NAA	74BEL	01
1.1	0.1		ITNA	78LAU	02
1.15	0.1		IENA	81KOS	01
1.18	0.09		ITNA	81KOS	01
1.2			ITNA	78CAP	01
1.2	0.1		RTNA	76MEL	03
1.2			RTNA	72MOR	03
1.2	0.165		ITNA	77HAM	01
1.2			SSMS	78URE	01
1.2	0.1		ITNA	81KUL	01
1.22	0.02		VV	81NON	01
1.24	0.08		ITNA	79REN	03
1.3	0.1		ITNA	74RAN	02
1.7	0.6	*	RTNA	77KUS	01
1.96	0.02	*	ITNA	77NAD	02
Li (ppb)					
	900.	L*	CPAA	81SAS	01
510.	660.	R*	AA	75MAN	01
570.	70.		AA	83GLA	01
770.	30.		ITNA	77HEY	01
800.	200.		CPAA	80HAN	01
13700.	1500.	*	NT	74CAR	02
Lu (ppb)					
	20.	L*	NAA	77LAU	01
	10.	L*	ITNA	78LAU	02
0.61	0.09		ITNA	77NAD	02
0.9	0.1		ITNA	81KOS	01
3.3		D*	RTNA	82LAU	01
3.3			RTNA	77LAU	02
6.			RTNA	80SLO	01
10.			SSMS	78URE	01
Mg (ppm)					
4000.	6250.	R*	ITNA	79IMA	01
4000.	6250.	R*	ITNA	79IMA	03
4900.		*	ICPES	78CAP	01
5140.	190.	*	VV	81NON	01
5300.		*	FAA	78CAP	01
5400.			NAA	77LAU	01
5500.	300.		ICPES	79ABE	01
5500.			AA	80URE	01
5500.	300.		IENA	79JON	01
5600.	100.		AA	79MCQ	01
5700.			OES	75JON	05
5700.	60.		ICPES	79MCQ	02
5700.	80.		ICPES	79MCQ	01
5800.	100.	11	AA	78GAI	01
5800.	730.		ITNA	77HAM	01
5900.	1.	11	AA	75ISA	01
5980.	70.	11	ICPES	82JON	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
6000.			RTNA	72MOR	03
6000.	500.		CPXRF	80KIR	01
6000.	500.		ITNA	78LAU	02
6000.	100.	11	AA	78GAI	01
6000.	200.	11	ICPES	82JON	01
6000.	500.		14NAA	80FAA	01
6000.	2.	11	AA	75ISA	01
6000.			OES	75JON	09
6000.			OES	75JON	07
6100.	400.		ITNA	80SLO	01
6100.			AA	79HIL	01
6100.	200.	11	ICPES	82JON	01
6100.	100.		PAA	74CHA	01
6100.	1100.		14NAA	81WIL	02
6100.	200.		PAA	78HIS	01
6100.			OES	75JON	10
6150.			ICPES	78DAH	01
6150.	100.		PAA	76KAT	04
6150.	70.		PAA	76KAT	02
6173.8	179.		NAA	76GUZ	01
6174.	173.		ITNA	75PIE	01
6200.	100.	11	ICPES	82JON	01
6200.			OES	75JON	08
6200.			OES	75JON	02
6258.	315.		ITNA	77ZIK	01
6300.	700.		TCGS	79FAI	01
6300.			ITNA	78CAP	01
6300.	130.		ITNA	78FUR	01
6400.			ICPES	81WEI	01
6400.			OES	75ISA	01
6500.			OES	75JON	06
6500.	100.		COLOR	74SLE	01
6550.	480.		ITNA	79KOB	03
6600.			OES	75JON	11
6700.			CPAA	80HAN	01
6700.	100.		ICPES	79HER	01
6800.	1000.		14NAA	77SEG	01
6800.			OES	75JON	03
6800.			OES	75JON	04
7000.			ITNA	76BAT	01
7030.	170.	*	14NAA	81WIL	01
7100.		*	OES	75JON	01
7830.		*	ITNA	75RIC	01
Mn (ppm)					
23.1	4.4	6*	ITNA	74HOF	01
32.	16.	*	EXRF	77FLO	01
52.		*	OES	75JON	07
65.	90.	R*	ITNA	79IMA	01
65.	90.	R*	ITNA	79IMA	03
68.2	8.2	*	XRF	77SMI	04
72.		*	OES	75JON	06
72.	1.	*11	AA	78GAI	01
73.5		*	ITNA	82AKA	01
77.			SSMS	81VER	02
79.	3.		RTNA	76MEL	03
80.			ICPES	78CAP	01
80.			AA	73LOO	03
80.	3.		XRF	78LIN	01
80.			OES	75ISA	01
80.			OES	75JON	11

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
80.6	2.9		CPXRF	81ROB	02
80.7	3.3		ITNA	81HAB	01
81.	4.		RTNA	77KUS	01
81.3			FAA	78CAP	01
82.	7.		EXRF	79KUE	01
82.			EXRF	82KEE	01
82.	99.	R*	AA	75MAN	01
82.	3.		IENA	79JON	01
82.	4.2		AA	78LIN	01
83.3			ICPES	78DAH	01
83.4			FAA	77SHE	02
84.	1.	11	ICPES	82JON	01
84.			NAA	77LAU	01
84.	4.		ITNA	78LAU	02
85.	4.		EXRF	80DYC	01
85.	10.	6	EXRF	79MAT	01
85.			ITNA	78CAP	01
85.	2.	11	ICPES	82JON	01
85.6	2.8	6	ITNA	74HOF	01
86.			RTNA	72MOR	03
86.			ASV	80CHR	01
86.			ITNA	83GLA	01
86.	1.		ICPES	79MCQ	02
86.	2.	11	ICPES	82JON	01
86.			AA	76FUK	01
86.	2.		ICPES	79MCQ	01
86.5	4.9		EXRF	79GIA	01
87.			FAA	73SEC	01
87.		11	AA	79HOE	02
87.			FAA	73SEG	01
87.		11	AA	79HOE	02
87.1	1.6		RTNA	73HEY	01
87.8	5.9		RTNA	74RAV	01
88.	4.4	11	AA	75ISA	01
88.			OES	75JON	02
88.			OES	75JON	04
88.2	3.4		PAA	74CHA	01
88.6	2.2		EXRF	73GIA	01
88.8		11	AA	79HOE	02
89.	3.		VV	80SCH	05
89.	1.	11	ICPES	82JON	01
89.	5.		ITNA	78GIL	01
89.	2.67	11	AA	75ISA	01
89.	4.4		ITNA	79KOB	03
89.	4.		ITNA	74RAN	02
89.	0.6		ICPES	79HER	01
89.	4.		AA	79MCQ	01
89.9			ITNA	76BAT	01
90.	7.		ITNA	77HAM	01
90.	3.		ICPES	79ABE	01
90.			ITNA	80CRE	01
90.	6.		ITNA	76KUC	01
90.	1.		ITNA	80SLO	01
90.	0.9	11	AA	78GAI	01
90.	12.		CPXRF	77CAM	01
91.	4.	MD	FAA	79WES	01
91.			EXRF	81BIS	01
91.	2.	6	NAA	78GAN	01
91.1	18.		EXRF	75REU	01
91.6	1.08		NAA	76GUZ	01
92.	4.	35	ITNA	81GLA	04
92.	3.		ITNA	78FUR	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
92.	1.		DCP	79REE	01
92.	1.	D*	DCP	81REE	01
92.	3.		ITNA	75RIC	01
92.			AA	76KRI	03
92.4	0.8		ICPES	81KNA	01
93.			ITNA	80SAT	01
93.			OES	75JON	05
93.			XRF	78CAM	02
93.	6.		EXRF	77NIE	01
93.8	17.2		PAA	80YAM	01
94.	3.5	6	NAA	78GAN	01
94.5	5.		PAA	76KAT	04
94.8	4.		ITNA	82QUR	01
94.8	4.		ITNA	79AHM	01
95.	7.3		CPXRF	80KIR	01
95.	4.		PAA	76KAT	02
95.	12.		ITNA	79SAT	01
95.			AE+AF	79ULL	01
95.4	2.1		ITNA	76GAL	01
96.			ICPES	81WEI	01
96.			OES	75JON	03
96.	5.		PAA	78HIS	01
96.2	4.8		AA	76GAL	01
96.8	3.6		AA	73THO	01
97.	10.		ITNA	77ZIK	01
97.			OES	75JON	10
97.4			CPXRF	75CAM	01
98.			XRF	80SUZ	02
98.	20.		TCGS	79FAI	01
100.			ITNA	78KEL	02
101.			OES	75JON	01
101.	10.		XRF	74REU	01
103.	5.	*	VV	81NON	01
107.	3.	*	SSMS	72MAG	01
110.		*	ITNA	79REN	03
110.	9.	*6	EXRF	79MAT	01
131.		*	OES	75JON	08
144.		*	OES	75JON	09
242.		*	EXRF	81PAR	01

Mo (ppb)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
	5000.	L*	ICPES	78CAP	01
	1400.	L*	14NAA	81WIL	01
	5000.	L*	RTNA	72MOR	03
	1000.	L*	PAA	78HIS	01
	800.	L*	14NAA	81WIL	02
110.	80.	*11	ICPES	82JON	01
200.			FAA	79BEN	01
200.	100.	11	ICPES	82JON	01
200.	100.	11	ICPES	82JON	01
200.	200.	11	ICPES	82JON	01
240.	20.		RTNA	78NAD	01
240.	21.		RTNA	82HAD	01
250.		1	IENA	79KUC	01
280.	20.		ICPES	82LYO	01
300.	60.		RTNA	77DIK	01
300.	30.		RTNA	74GOE	01
320.	60.		RTNA	80SLO	01
320.		1	IENA	79KUC	01
327.	70.		NAA	76GUZ	01
390.	40.		FAA	81NEU	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
400.	100.		PAA	80SEG	01
2260.	210.	*	PAA	74CHA	01
2300.		*	OES	75JON	10
3300.		*	OES	75JON	11
4000.	2000.	*	CPAA	77ZIK	01
4600.		*	OES	75JON	03
6200.		*	OES	75JON	01
10500.		*	OES	75JON	07
15200.		*	OES	75JON	02
N (%)					
2.59	0.11	*	CB	82GLA	02
2.61	0.05		14NAA	80FAA	01
2.62	0.03		CB	80SCH	02
2.7	0.01	11	TITR	82LIA	01
2.7	0.4		14NAA	77SEG	01
2.7	0.09		TCGS	79FAI	01
2.7	0.09	13	NT	74CAR	01
2.7	0.4	35	TCGS	79GLA	04
2.71	0.01		TITR	80GIN	01
2.72		11	TITR	82LIA	01
2.74	0.01		COLOR	80GIN	01
2.74	0.02	11	TITR	82LIA	01
2.74	0.01	11	TITR	82LIA	01
2.75	0.03	11	TITR	82LIA	01
2.755	0.038		GRAV	74CAR	01
2.76	0.09	13	NT	74CAR	01
2.81	0.15		TCGS	79AND	01
N-15 (AZ)					
0.367	0.002		MS	73CAR	01
Na (ppm)					
	70.	L*	14NAA	81WIL	02
	25.	L*	ITNA	74HOF	01
	360.	L*	14NAA	81WIL	01
	100.	L*	ITNA	74HOF	01
40.		*	OES	75JON	03
74.			OES	75JON	06
75.			NAA	77LAU	01
76.			NAA	74BEL	01
77.			RTNA	72MOR	03
77.	6.		ITNA	80SLO	01
77.	4.		RTNA	76MEL	03
78.	3.		ITNA	74RAN	02
78.	5.		ITNA	76KUC	01
79.3	5.		PAA	74CHA	01
80.	2.		FE	81MIZ	01
80.			ITNA	78LAU	02
80.6	1.3		FE	78KOR	01
81.	17.		ITNA	78FUR	01
81.			ITNA	79KUC	01
81.5	3.		ITNA	79AHM	01
81.8	1.83		NAA	76GUZ	01
82.		1	IENA	79KUC	01
83.	8.5		ITNA	77HAM	01
83.	5.		ITNA	75RIC	01
84.	4.		ITNA	78GIL	01
84.4			ITNA	76BAT	01
86.	1.		VV	81NON	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
86.	5.		ITNA	77ZIK	01
87.	11.		PAA	76KAT	02
87.			CPAA	80HAN	01
87.	16.		PAA	76KAT	04
88.	6.8		ITNA	79KOB	03
88.	142.	R*	ITNA	79IMA	01
88.	142.	R*	ITNA	79IMA	03
90.	8.		ITNA	81KOS	01
92.			ITNA	80CRE	01
92.		35	ITNA	81GLA	04
100.			OES	75JON	01
100.			OES	75JON	05
103.5			ITNA	82AKA	01
110.		35	ITNA	81GLA	03
114.	2.		NAA	78GAN	01
120.	40.		ITNA	79REN	03
140.	12.		ICPES	79ABE	01
150.		*	OES	75JON	04
154.		*	OES	75JON	09
155.		*	ITNA	78CAP	01
162.		*1	AA	78SZY	01
170.	30.	*	IENA	79JON	01
244.		*1	AA	78SZY	01
400.		*	OES	75JON	11
524.		*	OES	75JON	08
Nb (ppm)					
	0.3	L*	PAA	78HIS	01
Nd (ppb)					
	1000.	L*	NAA	77LAU	01
320.	90.		ITNA	77NAD	02
480.			SSMS	78URE	01
570.			RTNA	77LAU	02
570.		D*	RTNA	82LAU	01
Ni (ppm)					
	5.	L*	14NAA	81WIL	02
	10.	L*	AA	76KRI	03
	2.5	L*	PAA	78HIS	01
0.7			CPXRF	75CAM	01
1.		1	IENA	79KUC	01
1.1		16	AA	79ABO	01
1.14	0.08		FAA	79STO	01
1.15	0.07	11	ICPES	82JON	01
1.15	0.09	11	ICPES	82JON	01
1.18	0.08		AA	80AGE	01
1.2	0.5		EXRF	79GIA	01
1.2	0.063	6	COLOR	78FUD	01
1.2	0.4		FAA	82GRO	01
1.2	1.		EXRF	77NIE	01
1.2	0.07	6	COLOR	78FUD	01
1.2			XRF	78CAM	02
1.24	0.07	11	ICPES	82JON	01
1.27	0.08		PAA	74CHA	01
1.27	0.08	11	ICPES	82JON	01
1.28	0.16		NAA	76GUZ	01
1.3			AA	73LOO	03
1.3	0.1		RTNA	75ABU	01
1.3	0.07		VOLT	81PIH	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
1.3	0.2	9	ITNA	78LAU	02
1.3	0.4		EXRF	73GIA	01
1.31	0.17		FAA	80DOR	01
1.31	0.11		ITNA	75PIE	01
1.37	0.03		COLOR	77BUR	01
1.4	0.1		POL	72MAI	01
1.4		1	IENA	79KUC	01
1.4	0.3		RTNA	77MEL	01
1.4			FAA	82HOE	01
1.4	0.1		POL	77MAI	01
1.4	0.1		POL	74MAI	01
1.4	0.6		ITNA	74RAN	02
1.4			FAA	73SEG	01
1.5	0.2		PAA	80SEG	01
1.5	0.3		EXRF	80DYC	01
1.5	0.3		RTNA	80SLO	01
1.5	0.3		PAA	80YAM	01
1.6	0.4		AA	78RIT	01
1.7	0.1	D*	DCP	81REE	01
1.7	0.1		DCP	79REE	01
1.8	0.2		ICPES	79ABE	01
2.			NAA	77LAU	01
2.1	0.02		ICPES	79HER	01
2.2	0.7	*	14NAA	81WIL	01
2.6	1.	*	CPXRF	80KIR	01
2.9	1.	*	CPXRF	77CAM	01
4.		*	AE+AF	79ULL	01
4.	1.3	*	AA	79MON	01
4.3		*16	AA	79ABO	01
P (ppm)					
1400.		*	OES	75JON	04
1500.		*	OES	75JON	05
1560.		*	ICPES	78CAP	01
1770.	90.		ICPES	81OWE	01
1800.	100.		COLOR	79MCQ	01
1800.			OES	75JON	07
1800.			OES	75JON	11
1900.	200.	6	FAA	81LAN	01
1900.	40.		ICPES	79MCQ	02
1900.			OES	75JON	06
1900.	100.		ICPES	79MCQ	01
1900.			OES	75JON	10
1920.	1000.		EXRF	77NIE	01
1930.			COLOR	77HAM	04
1970.	70.	11	ICPES	82JON	01
1980.	40.	11	ICPES	82JON	01
2000.	100.	6	FAA	81LAN	01
2000.	400.		CPXRF	80KIR	01
2000.			COLOR	79HIL	01
2000.	100.	6	FAA	81LAN	01
2000.			CPAA	80HAN	01
2000.			ICPES	79EDI	01
2000.	100.		14NAA	81WIL	01
2000.	500.		ICPES	79ABE	01
2000.	200.		14NAA	81WIL	02
2060.	40.	11	ICPES	82JON	01
2070.	70.	7	NM	81SHI	01
2070.	100.		IENA	79JON	01
2090.	60.	11	ICPES	82JON	01
2096.7	70.14		NAA	76GUZ	01
2100.	80.	12	FAA	78EDI	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
2100.	130.	7	NM	81SHI	01
2100.			OES	75JON	02
2100.	100.		14NAA	80FAA	01
2100.			FAA	79EDI	01
2100.			OES	75JON	09
2110.	110.	7	NM	81SHI	01
2130.	20.		ICPES	79HER	01
2160.	50.	12	FAA	78EDI	01
2190.	110.	7	NM	81SHI	01
2300.			OES	75JON	08
2380.	180.		EXRF	75REU	01
2400.			OES	75JON	03
2500.	400.	*	14NAA	77SEG	01
3100.		*	OES	75JON	01
Pb (ppm)					
15.	5.1	*	CPXRF	80KIR	01
17.6		*	SSMS	81VER	02
26.		*	AA	76FUK	01
28.5	3.6	*	FAA	77FUJ	01
31.	2.	*	ICPES	81NAD	01
37.			AA	73LOO	03
38.	3.		FAA	77LOR	01
40.	2.		EXRF	73SPA	01
40.	4.		PAA	78HIS	01
40.7	3.		EXRF	79GIA	01
41.			ICPES	78DAH	01
41.	2.		AA	83GLA	01
41.	1.		ICPES	79HER	01
42.	1.7		AA	80AGE	01
42.			FAA	82HOE	01
42.	4.		ITNA	77GUI	02
42.	4.		NAA	76MIL	02
42.	1.		ICPES	79MCQ	02
42.	9.		14NAA	81WIL	02
42.			FAA	78URE	02
42.	3.		ICPES	79MCQ	01
42.2		11	FAA	79HOE	02
42.9		11	FAA	79HOE	02
43.			FAA	80PRE	01
43.			SSMS	74LUT	01
43.2	5.1		FAA	82JEN	02
43.3			AA	76KRI	03
43.4		6	POL	72SIN	01
43.7	0.9		HAA	76VIJ	01
44.	2.		NAA	77JER	01
44.	4.		FAA	81KNA	01
44.			FAA	79HEI	03
44.	2.		FAA	80LEG	01
44.	2.3	6	POL	72SIN	01
44.	2.	11	ICPES	82JON	01
44.	2.		AA	75ABU	01
44.			FAA	73SEG	01
44.2	2.1		PAA	74CHA	01
44.3			FAA	79YAS	01
44.5	1.7		POL	74MAI	01
44.5	6.2		XRF	77SMI	04
44.6	1.7		POL	72MAI	01
44.6	1.7		POL	77MAI	01
44.67	1.53		ASV	77KON	01
44.9	1.		ASV	82SAT	02
44.9			ICPES	78CAP	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
45.		6	FAA	81JAC	01
45.	3.6		AA	79MON	01
45.	2.		PAA	74LUT	01
45.	0.5		AA	73TAL	01
45.			POL	74LUT	01
45.3	1.13		FAA	82VAN	01
45.3	0.7		FAA	79DAR	02
45.3			CPXRF	75CAM	01
45.4	2.		EXRF	73GIA	01
45.5	1.		RTNA	72GIB	01
45.9	0.14		FAA	79STO	01
46.	1.	11	ICPES	82JON	01
46.	2.		AA	80SCH	05
46.	2.		FAA	79KRA	01
46.	2.		AA	77YAN	01
46.			FAA	82PRE	01
46.	52.	R*	AA	75MAN	01
46.4			AA	74BOP	01
46.5		16	AA	79ABO	01
46.8	5.6		HAA	82WEI	01
47.			ICPES	81WEI	01
47.			AA	79HIL	01
47.		6	FAA	81JAC	01
47.	2.5		ASV	79BRI	02
47.	5.		ASV	81DOG	01
47.	6.		EXRF	79KUE	01
47.	4.		ICPES	79ABE	01
47.1	4.7		XRF	74REU	01
47.3	5.6		FAA	82WEI	01
48.	5.		AA	78RIT	01
48.	5.		AA	82RIT	01
48.6	3.8		EXRF	75REU	01
49.	2.		PAA	80SEG	01
49.			DCP	78NAK	01
49.	5.		EXRF	77NIE	01
49.3		16	AA	79ABO	01
49.3	1.5		PAA	80YAM	01
50.	11.		AA	79MCQ	01
50.	5.		EXRF	77FLO	01
50.			FAA	74BRA	03
50.			AE+AF	79ULL	01
50.			AA	76FUK	01
51.	3.		EXRF	80DYC	01
52.6			FAA	78CAP	01
54.	10.	*	CPXRF	77CAM	01
57.	12.	*	14NAA	81WIL	01
57.	17.	*	CPAA	77ZIK	01
85.		*	OES	75BOL	02
115.		*	EXRF	81PAR	01
Pd (ppb)					
	1.	L*	RTNA	81BYR	01
Pr (ppb)					
60.			SSMS	78URE	01
110.			RTNA	80SLO	01
230.		D*	RTNA	82LAU	01
230.			RTNA	77LAU	02

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Pt (ppb)					
89.2	15.4		RTNA	77NAD	01
1200.	300.		RTNA	74CAR	03
Rb (ppm)					
	15.5	L*	ITNA	80TOU	01
5.	2.	*	EXRF	77FLO	01
9.8	1.3		XRF	77SMI	04
10.	1.		EXRF	79KUE	01
10.	1.5		CPXRF	80KIR	01
10.	1.		14NAA	81WIL	02
10.			NAA	77LAU	01
10.	0.9		ITNA	79AHM	01
10.			ITNA	80CRE	01
10.3		1	IENA	79KUC	01
10.3	0.7		ITNA	75RIC	01
10.3	0.6		ITNA	74RAN	02
10.5			ITNA	78CAP	01
10.5			ITNA	79KUC	01
10.6		1	IENA	79KUC	01
10.8	0.4		ITNA	79SAT	01
10.95	0.08		ITNA	81KOS	01
11.	2.		RTNA	77MEL	01
11.	16.	R*	AA	75MAN	01
11.	0.8		EXRF	73GIA	01
11.	1.		EXRF	80DYC	01
11.	1.		ITNA	78LAU	02
11.			RTNA	72MOR	03
11.	1.		ITNA	77ZIK	01
11.	2.		CPXRF	77CAM	01
11.2	0.4		EXRF	73SPA	01
11.2	0.3		IENA	81KOS	01
11.2	1.5		ITNA	81HAB	01
11.28	0.42		NAA	76GUZ	01
11.3	2.9	5	ITNA	80TOU	01
11.3	5.2		EXRF	75REU	01
11.4			EXRF	81BIS	01
11.5	0.6		EXRF	79GIA	01
11.5	1.		EXRF	77NIE	01
11.5			XRF	78CAM	02
11.7	0.1		ITNA	78GIL	01
11.8	1.2	35	ITNA	81GLA	03
11.8			ITNA	80SAT	01
11.9	0.8		NAA	78GAN	01
12.	0.7		ITNA	82COR	01
12.	1.5		ITNA	77HAM	01
12.			NAA	74BEL	01
12.	0.04		ITNA	78FUR	01
12.	2.		ITNA	76KUC	01
12.	1.1	6	ITNA	74BEC	01
12.1	1.	9	ITNA	78LAU	02
12.5	1.		PAA	76KAT	04
12.5	0.6		PAA	78HIS	01
12.8	0.6		14NAA	81WIL	01
13.	2.		ITNA	81KUL	01
13.	1.		PAA	76KAT	02
13.	3.5		CPXRF	81ROB	02
13.	0.9		VV	81NON	01
14.8		*	CPXRF	75CAM	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
15.61	3.01	*	ITNA	79REN	03
19.9		*	SSMS	81VER	02
28.		*	EXRF	81PAR	01
30.		*	CPXRF	76ZEI	01
30.		*	CPAA	78MCG	01
S (ppm)					
1400.	600.	*	CPXRF	79REN	02
1660.	220.		TCGS	79AND	01
1690.	5.		TITR	80SMI	01
1700.	200.		TCGS	79FAI	01
1860.	180.		COLOR	82BAR	01
1950.	200.		XRF	82BAR	01
2120.	50.		EXRF	77NIE	01
2120.			XRF	78CAM	02
2150.	380.		EXRF	75REU	01
2150.	200.		CB	77LAN	01
2200.	100.		CPXRF	80KIR	01
2300.	200.		TCGS	77JUR	01
2400.			FE	79BOG	01
2400.			TURB	79BOG	01
2700.	400.		XRF	81NAD	01
7020.	2620.	*	EXRF	77NIE	01
Sb (ppm)					
	99.	L*	ITNA	80TOU	01
1.1	0.2	*	ITNA	77ZIK	01
2.2	0.2	*	HAA	74LOO	01
2.3	0.3	*H	ICPES	79ROB	01
2.5			ITNA	78CAP	01
2.5	3.6	R*	ITNA	79IMA	03
2.5	3.6	R*	ITNA	79IMA	01
2.55		11	FAA	79HOE	02
2.55		11	FAA	79HOE	02
2.57	0.19		ITNA	79REN	03
2.62		6	NAA	78GAN	01
2.7	0.4		14NAA	81WIL	02
2.7			ITNA	80CRE	01
2.7	0.1		ITNA	78LAU	02
2.7			NAA	77LAU	01
2.7		1	IENA	79KUC	01
2.7	0.4	6	ITNA	74BEC	01
2.7	0.3	6	ITNA	74BEC	01
2.7	0.2		RTNA	74GOE	01
2.7	0.3		ITNA	74RAN	02
2.72	0.2		ITNA	82QUR	01
2.72	0.01		ITNA	79AHM	01
2.77	0.02	H	ICPES	81PAH	01
2.8	0.1		RTNA	78GAL	01
2.8	0.1	H	ICPES	82HAH	01
2.8	0.2		ITNA	81KOS	01
2.8			HAA	80HON	01
2.8		1	IENA	79KUC	01
2.8	0.1	7	RTNA	77GIL	03
2.8		11	HAA	82KUE	03
2.8			ITNA	79KUC	01
2.85	0.06		RTNA	80SLO	01
2.86	0.08		RTNA	78GIL	01
2.88	0.05	7	RTNA	77GIL	03
2.9	0.1		IENA	81KOS	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
2.9	0.2		ITNA	78VAL	01
2.9	0.5		RTNA	79REN	01
2.9	0.09		RTNA	79HOE	01
2.92	0.08	7	RTNA	77GIL	03
2.99	0.05		HAA	76FIO	01
2.99	0.45		RTNA	79ROS	02
3.			RTNA	72MOR	03
3.	0.2		FAA	80NAK	01
3.		11	HAA	82KUE	03
3.			RTNA	79BYR	01
3.02	0.26		HAA	79VIJ	01
3.1	0.03		VV	81NON	01
3.1	0.1		ITNA	79SAT	01
3.1	0.7		ITNA	77HAM	01
3.14	0.13		RTNA	72BYR	01
3.15	0.26		PAA	74CHA	01
3.16	0.26		NAA	77JER	01
3.2	0.2		GCMES	75TAL	01
3.25	0.3		PAA	76KAT	04
3.3	0.3		ITNA	81KUL	01
3.3	0.2	5	ITNA	80TOU	01
3.3		11	HAA	82KUE	03
3.3	0.6		RTNA	77KUS	01
3.3	0.14		ITNA	79KOB	03
3.3	0.2		PAA	76KAT	02
3.5	0.2	*	PAA	78HIS	01
3.5	0.3	*	FAA	78HAY	01
3.78	0.02	*	ITNA	81HAB	01
3.8	0.6	*6	NAA	78GAN	01
3.8	0.2	*	RTNA	73TJI	01
5.1	1.1	*	14NAA	81WIL	01
Sc (ppb)					
	2000.	L*	14NAA	81WIL	01
	97.	L*	ITNA	80TOU	01
40.	3.	6	ITNA	74BEC	01
40.		6	NAA	78GAN	01
40.	10.	6	NAA	78GAN	01
41.	4.		VV	81NON	01
44.	3.		ITNA	74RAN	02
52.	3.		ITNA	79CHA	04
54.	4.		RTNA	80SLO	01
57.	6.		ITNA	81KOS	01
60.	1.		ITNA	78LAU	02
62.	2.		ITNA	79KOB	03
62.			NAA	74BEL	01
63.	8.		ITNA	76KUC	01
65.			NAA	77LAU	01
65.	3.		ITNA	75RIC	01
66.	6.		ITNA	79SAT	01
67.	5.		ITNA	81HAB	01
67.			ITNA	78CAP	01
73.			ITNA	80CRE	01
75.	5.	5	ITNA	80TOU	01
80.	6.		ITNA	79REN	03
80.			ITNA	79KUC	01
90.	20.		ITNA	81KUL	01
110.		*	SSMS	78URE	01
170.	50.	*	RTNA	77MEL	01
200.		*	RTNA	72MOR	03
220.	10.	*	PAA	74CHA	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Se (ppb)					
	100.	L*	HAA	82JON	01
	300.	L*	EXRF	79CIA	01
	1600.	L*	ITNA	74GUI	01
	100.	L*	HAA	82JON	01
24.	6.7	*	FAA	81MEY	01
53.		*	FLUOR	79TAM	01
55.	9.		HAA	76FIO	01
56.	20.		RTNA	79ROS	02
57.	6.3		ITNA	77HAM	01
58.	14.		RTNA	73TJI	01
60.	20.		RTNA	74GOE	01
65.	14.	9	ITNA	80WAN	01
68.			FAA	82HEI	01
70.	200.	R*	RTNA	81GLA	03
70.			FAA	78CAP	01
70.	20.		HAA	82TAM	01
70.	4.		ICPES	80HAA	01
70.	10.	H	ICPES	82HAH	01
74.			ITNA	81HAN	01
74.			ITNA	81MEY	01
75.	5.	7	RTNA	77GIL	03
76.	10.		ITNA	79AHM	01
76.	3.	11	GC	81UCH	02
76.	1.3		HAA	81HAN	01
77.	6.		FAA	79VOB	01
77.	5.		FLUOR	76CHA	02
77.	2.	11	GC	81UCH	02
77.		17	FLUOR	74AND	01
78.	7.	34	HAA	78FLA	01
78.	7.2		HAA	81MEY	01
78.	11.		RTNA	82POL	01
78.			HAA	77IHN	01
78.	5.		GC	77POO	01
78.	4.		ITNA	77GUI	02
79.	12.		RTNA	72ROO	03
79.	12.		RTNA	77ROO	02
79.8	8.		NAA	76GUZ	01
80.	30.		ITNA	81KOS	01
80.	4.		FLUOR	80KOH	01
80.	10.	9	ITNA	79PAV	02
80.			RTNA	72MOR	03
80.	10.	9	ITNA	79VOB	01
80.	10.		RTNA	75ABU	01
80.	20.		SSMS	77ROO	02
80.		17	FLUOR	74AND	01
80.	10.		RTNA	80KNA	01
80.	10.		RTNA	74ORV	01
80.	20.		HAA	80AGE	02
80.			NAA	78GAN	01
80.	1.		FAA	80NEV	01
82.	20.		IENA	81KOS	01
82.	24.		HAA	76IHN	02
83.	12.	9	ITNA	77VOB	01
83.	4.		VV	81NON	01
83.	4.		GCMES	74TAL	02
83.	4.		DCP	81CAR	02
84.	8.		RTNA	78GIL	01
85.	4.		ITNA	79SAT	01
86.	10.		ITNA	78GIL	01
87.	3.		FLUOR	74LEI	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
87.	10.	7	RTNA	77GIL	03
87.	7.		HAA	75SIE	01
87.		17	FLUOR	74AND	01
87.	3.	6	FLUOR	75OLS	01
88.	7.		RTNA	73HEY	01
88.	11.		FLUOR	74IHN	02
88.	16.		ASV	76AND	01
89.	17.		ITNA	77VOB	01
89.	3.	6	FLUOR	75OLS	01
90.			HAA	80HON	01
90.	10.		ITNA	82QUR	01
90.	10.	7	RTNA	77GIL	03
90.	20.		ITNA	79PAV	02
90.	10.		RTNA	78GAL	01
90.	30.		ITNA	78LAU	02
90.	10.		RTNA	77BAN	03
100.	20.	6	ITNA	74BEC	01
100.			ITNA	79VOB	01
100.	20.	9	ITNA	78LAU	02
100.			ITNA	80CRE	01
100.	40.		NAA	74LEI	01
110.	20.		RTNA	80SLO	01
110.	30.		AA	79PAV	02
118.	79.	*	HAA	77IHN	03
130.	40.	*	RTNA	77MEL	01
140.	20.	*	ITNA	74RAN	02
200.		*	ITNA	78CAP	01
1100.	170.	*	HAA	74CHU	01
Si (ppm)					
475.8	12.3		ITNA	75PIE	01
475.8	12.29		NAA	76GUZ	01
480.	14.		CPXRF	80KIR	01
500.	200.		14NAA	80FAA	01
600.			VV	81NON	01
750.			NAA	78GAN	01
1000.	160.	*	14NAA	77SEG	01
2340.	60.	*	IENA	79JON	01
Sm (ppb)					
	3100.	L*	ITNA	80TOU	01
16.	3.	*	IENA	81KOS	01
19.	4.	*	ITNA	81KOS	01
88.	8.	5	ITNA	80TOU	01
90.			SSMS	78URE	01
90.	140.	R*	ITNA	79IMA	01
100.			RTNA	77LAU	02
100.		D*	RTNA	82LAU	01
100.	30.		ITNA	77NAD	02
100.			ITNA	79KUC	01
100.			NAA	77LAU	01
100.		1	IENA	79KUC	01
105.	4.		RTNA	80SLO	01
110.	10.		ITNA	78LAU	02
110.			ITNA	80CRE	01
110.	30.		TCGS	79FAI	01
130.	40.		ITNA	77HAM	01
140.			RTNA	72MOR	03
140.		1	IENA	79KUC	01
140.	40.		ITNA	74RAN	02

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
150.	20.		VV	81NON	01
170.	30.	*	TCGS	79AND	01
320.	120.	*	ITNA	79REN	03
Sn (ppb)					
	1500.	L*	ICPES	78CAP	01
180.	10.	H	ICPES	82HAH	01
284.	4.	5	RTNA	74BYR	01
290.	25.		RTNA	77BYR	01
304.	15.	5	RTNA	74BYR	01
340.	90.		ICPES	80HAA	01
375.	25.		COLOR	82OMA	01
4100.		*	RTNA	72BOW	01
Sr (ppm)					
14.5	2.5	*	FAA	77FUJ	01
18.1		*	SSMS	81VER	02
23.		*	OES	75JON	03
28.	0.6		PAA	78HIS	01
28.	28.3	R*	AA	75MAN	01
31.	3.3		CPXRF	80KIR	01
31.3	4.1		XRF	77SMI	04
31.7	4.8		14NAA	77VAN	01
33.1			EXRF	81BIS	01
34.	1.		FAA	82SUZ	03
34.3	0.5		EXRF	73SPA	01
35.			NAA	77LAU	01
35.	3.	9	ITNA	78LAU	02
35.	2.		EXRF	80DYC	01
35.			OES	75JON	04
35.	3.		ICPES	79ABE	01
35.2			ICPES	78DAH	01
36.			CPAA	78MCG	01
36.			CPXRF	76ZEI	01
36.	6.		ITNA	78LAU	02
36.2	2.		PAA	74CHA	01
36.3	1.3		EXRF	79GIA	01
36.5	2.		EXRF	77FLO	01
36.5	4.		EXRF	75REU	01
36.5	0.3		ICPES	79HER	01
36.5	1.		PAA	76KAT	04
36.6	1.2		EXRF	73GIA	01
37.	1.		ICPES	79MCQ	02
37.	1.		PAA	76KAT	02
37.	1.		ITNA	79SAT	01
37.	2.		ICPES	79MCQ	01
37.2	0.2		IENA	81KOS	01
37.4	8.3		CPXRF	81ROB	02
38.	5.		NAA	78GAN	01
38.7	1.5		ITNA	81KOS	01
39.	2.		14NAA	81WIL	02
40.			RTNA	72MOR	03
41.	3.		RTNA	77KUS	01
42.2	4.2		XRF	74REU	01
44.2	2.85		NAA	76GUZ	01
45.	15.		CPAA	77ZIK	01
45.			OES	75JON	01
45.	2.		ITNA	74RAN	02
53.	4.	*	14NAA	81WIL	01
118.		*	EXRF	81PAR	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ta (ppb)					
5.			NAA	77LAU	01
7.	2.		ITNA	78LAU	02
10.			ITNA	80CRE	01
10.	3.		ITNA	74RAN	02
Tb (ppb)					
1.23	0.12	*	ITNA	77NAD	02
9.	1.		RTNA	80SLO	01
12.	2.		ITNA	78LAU	02
13.			RTNA	77LAU	02
13.		D*	RTNA	82LAU	01
14.			ITNA	80CRE	01
15.			NAA	77LAU	01
18.	1.		ITNA	74RAN	02
80.		*	SSMS	78URE	01
Te (ppb)					
11.	3.	35	RTNA	75GLA	01
Th (ppb)					
	1000.	L*	EXRF	79GIA	01
6.6	0.3	*	IENA	81KOS	01
6.8	0.4	*	ITNA	81KOS	01
44.			ITNA	79KUC	01
44.		1	IENA	79KUC	01
50.	10.		RTNA	80SLO	01
52.	4.		ITNA	78LAU	02
59.	13.		ITNA	81KUL	01
59.	20.		ITNA	74RAN	02
60.			ITNA	80CRE	01
60.			NAA	77LAU	01
69.		1	IENA	79KUC	01
90.	50.	*	VV	81NON	01
Ti (ppm)					
2.4	0.4	*	CPAA	77ZIK	01
6.6	0.5	*	ICPES	79ABE	01
7.6		*	ICPES	78CAP	01
14.2			SSMS	81VER	02
17.2	0.3		COLOR	82KIR	02
18.	8.5		EXRF	79GIA	01
26.	3.		14NAA	81WIL	01
26.			SSMS	78URE	01
30.	4.		14NAA	81WIL	02
40.			ITNA	78LAU	02
60.		*	NAA	77LAU	01
96.	12.	*	PAA	78HIS	01
191.	33.	*	ITNA	81HAB	01
Tl (ppb)					
	20000.	L*	ITNA	74RAN	02
74.			FAA	82HEI	01
200.	40.		PAA	80SEG	01
300.	100.		PAA	78HIS	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Tm (ppb)					
	10.	L*	RTNA	77LAU	02
	10.	D*	RTNA	82LAU	01
3.72	0.23		ITNA	77NAD	02
10.			SSMS	78URE	01
U (ppb)					
	20.	L*	RTNA	80SLO	01
	2000.	L*	EXRF	79GIA	01
18.	3.	*	IENA	79FAA	01
25.	5.		PAA	80SEG	01
25.	4.	35	RTNA	75GLA	01
25.2	1.		RTNA	78DER	01
26.	3.		RTNA	72BEC	03
27.	8.		ITNA	81KUL	01
28.	3.	5	RTNA	80AUG	01
28.	2.		NT	72BEC	03
28.	3.		IENA	81KOS	01
29.	3.	5	RTNA	80AUG	01
30.	1.		IDMS	72BEC	03
30.	4.	13	PAA	81SEG	01
30.		35	DNA	81GLA	04
30.	6.	13	PAA	81SEG	01
30.6	0.6	35	DNA	80GLA	04
32.	9.		ITNA	74WEA	01
32.	5.		ITNA	81KOS	01
33.	2.		DNA	83GLA	01
56.	9.	*35	DNA	81GLA	03
V (ppb)					
	1000.	L*	NAA	77LAU	01
	8000.	L*	EXRF	79GIA	01
	600.	L*	RTNA	72MOR	03
	500.	L*	ITNA	74RAN	02
140.	30.	6*	ITNA	74HOF	01
340.	20.	11	RTNA	72LEV	01
361.	90.		UU	75WEL	02
370.	11.		FAA	77MYR	01
377.	10.		RTNA	80HEY	01
390.	980.	R*	ITNA	79IMA	01
390.	980.	R*	ITNA	79IMA	03
400.	100.		ITNA	77ZIK	01
401.	16.		RTNA	81COR	02
401.	16.		RTNA	79COR	01
408.	16.		RTNA	80HEY	01
409.	41.		RTNA	72DAM	01
410.	15.		RTNA	80HEY	01
435.	20.		RTNA	80HEY	01
440.	40.		RTNA	79BLO	01
471.	14.	11	RTNA	78BYR	01
480.	28.		COLOR	82KIR	01
500.	150.		RTNA	77GUI	03
530.	50.	11	ICPES	82JON	01
535.			NAA	80KOS	02
535.	30.	11	RTNA	78BYR	01
540.	20.	11	ICPES	82JON	01
570.	110.		ITNA	81HAB	01
570.	140.	6	ITNA	74HOF	01
580.	130.		ITNA	77HAM	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
580.	70.		ITNA	75RIC	01
580.			ITNA	76BAT	01
598.	32.		ITNA	80HEY	01
600.	20.		RTNA	79BLO	01
600.	200.		ITNA	78LAU	02
610.	23.		ITNA	73PIE	01
622.	23.	11	RTNA	72LEV	01
643.	129.		RTNA	76GUI	01
700.	100.		ITNA	79KOB	03
750.	110.		VV	81NON	01
800.		*	ITNA	78CAP	01
900.	20.	*	ITNA	76GAL	01
2200.	100.	*	ICPES	79ABE	01
300.		35	ITNA	81GLA	03
640.	310.		UU	75GUI	01
W (ppb)					
	2000.	L*	RTNA	72MOR	03
16.	4.		RTNA	80SLO	01
20.	7.		RTNA	77KUS	01
Y (ppb)					
	1100.	L*	14NAA	81WIL	02
	1100.	L*	14NAA	81WIL	01
	1000.	L*	EXRF	79GIA	01
480.			SSMS	78URE	01
Yb (ppb)					
	50.	L*	ITNA	78LAU	02
11.			RTNA	80SLO	01
20.			SSMS	78URE	01
21.	1.		ITNA	77NAD	02
25.		D*	RTNA	82LAU	01
25.			RTNA	77LAU	02
29.	3.		ITNA	81KOS	01
31.	1.		IENA	81KOS	01
40.			NAA	77LAU	01
Zn (ppm)					
	40.	L*	14NAA	81WIL	02
	110.	L*	14NAA	81WIL	01
	10000.	L*	ITNA	80TOU	01
12.		*	EXRF	82KEE	01
13.		*	OES	75BOL	02
15.	3.	*	CPXRF	77CAM	01
17.		*	AA	76KRI	03
17.1	2.	*	EXRF	77FLO	01
18.		*	OES	75JON	09
19.	4.		ICPES	79HER	01
20.	3.		ITNA	81KUL	01
20.	6.		CPAA	77ZIK	01
21.	1.		ICPES	79ABE	01
21.	2.		ITNA	75RIC	01
21.7	2.8		ITNA	81HAB	01
22.	3.1		CPXRF	80KIR	01
22.			ITNA	79KUC	01
22.	1.		EXRF	80DYC	01
22.5	0.8		AA	76GAL	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
23.			AA	73LOO	03
23.			EXRF	81BIS	01
23.			OES	75JON	02
23.	1.		RTNA	77MEL	01
23.	2.1		XRF	78LIN	01
23.			ITNA	78CAP	01
23.	1.		RTNA	76MEL	03
23.			AE+AF	79ULL	01
23.1			ICPES	78CAP	01
23.3	2.7		RTNA	74RAV	01
23.5	0.9	11	ICPES	82JON	01
23.5	1.8		AA	73THO	01
23.7	0.8		EXRF	73GIA	01
23.75			ITNA	82AKA	01
23.9	3.2		PAA	80YAM	01
24.	0.4		VV	81NON	01
24.	1.		AA	83GLA	01
24.		1	AA	77FRY	01
24.			FAA	73SEG	01
24.	28.	R*	AA	75MAN	01
24.	2.	11	AA	78GAI	01
24.	1.		RTNA	74ORV	01
24.			AA	81ARA	01
24.	1.	11	AA	78GAI	01
24.	3.		AA	77YAN	01
24.2	1.5		PAA	74CHA	01
24.2	1.5		NAA	77JER	01
24.3	0.3	11	ICPES	82JON	01
24.5	0.6		RTNA	80SLO	01
24.5	3.		EXRF	77NIE	01
24.5			XRF	78CAM	02
24.6	0.9		SSMS	72MAG	01
24.6			RTNA	79BYR	01
24.7	2.2	6	EXRF	79MAT	01
24.8	1.1		ITNA	78GIL	01
24.8	1.9		ITNA	79SAT	01
25.			ICPES	81WEI	01
25.			ITNA	80CRE	01
25.	1.	11	ICPES	82JON	01
25.			RTNA	72MOR	03
25.			ITNA	80SAT	01
25.			OES	75JON	03
25.	3.		FAA	82JEN	02
25.	1.6		EXRF	73SPA	01
25.	1.	11	ICPES	82JON	01
25.	3.		ITNA	78LAU	02
25.	2.	9	ITNA	78LAU	02
25.	1.		AA	78RIT	01
25.07	0.76		NAA	76GUZ	01
25.1	0.7		AF	75EPS	01
25.1	0.8		AA	75EPS	01
25.3			SSMS	81VER	02
25.3	0.5		AA	80AGE	01
25.3	2.5	6	EXRF	79MAT	01
25.3	2.1		EXRF	79GIA	01
25.5	1.1	6	ITNA	74BEC	01
25.5		11	AA	79HOE	02
25.6	3.4		EXRF	75REU	01
25.6	7.64		AA	79MON	01
25.9			FAA	78CAP	01
26.	1.	11	ICPES	82JON	01
26.	3.4		ITNA	77HAM	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
26.	2.1		AA	78LIN	01
26.	3.		ICPES	80SCH	05
26.	1.		ICPES	79MCQ	01
26.	1.	11	ICPES	82JON	01
26.	5.		AA	75ABU	01
26.	1.		ICPES	79MCQ	02
26.	2.	11	ICPES	82JON	01
26.			NAA	74BEL	01
26.	3.		EXRF	79KUE	01
26.	4.		ITNA	76KUC	01
26.			OES	75JON	11
26.	3.		RTNA	74CAR	03
26.			OES	75JON	05
26.			OES	75JON	10
26.	1.3	11	AA	75ISA	01
26.1	2.2		ITNA	82COR	01
26.7	4.6	6	ITNA	74BEC	01
26.8	1.2		ITNA	81KOS	01
26.9	1.2		RTNA	73TJI	01
27.	7.		ITNA	77ZIK	01
27.			AA	79HIL	01
27.	2.		RTNA	77KUS	01
27.	1.	11	ICPES	82JON	01
27.			ICPES	78DAH	01
27.	4.		PAA	76KAT	04
27.			NAA	77LAU	01
27.			OES	75JON	06
27.		1	AA	77FRY	01
27.	2.		RTNA	74GOE	01
27.	3.		PAA	76KAT	02
27.	2.		FAA	74TAL	01
27.	2.	7	AA	73TAL	01
27.2	2.4		ITNA	74RAN	02
27.3	2.1		ITNA	82QUR	01
27.3	2.1		ITNA	79AHM	01
27.4	2.7		XRF	74REU	01
27.5		11	AA	79HOE	02
27.6	1.3		CPXRF	81ROB	02
28.	5.		FAA	77LOR	01
28.	3.		FAE	74TAL	01
28.	1.	D*	DCP	81REE	01
28.	1.		DCP	79REE	01
28.	3.	7	AE+AF	73TAL	01
28.			OES	75ISA	01
28.1			CPXRF	75CAM	01
28.3	2.6	6	POL	72SIN	01
28.3	0.8		ITNA	79KOB	03
28.5	0.8		ICPES	81KNA	01
29.	5.		NAA	78GAN	01
29.	2.		ITNA	74GUI	01
29.	32.	R*	ITNA	79IMA	01
29.	0.87	11	AA	75ISA	01
29.	32.	R*	ITNA	79IMA	03
29.	1.		FAA	79KRA	01
29.3	2.5		PAA	76WIL	01
29.5		6	AA	72SIN	01
29.6		16	AA	79ABO	01
29.6		16	AA	79ABO	01
29.63	1.8		ITNA	79REN	03
29.8		6	POL	72SIN	01
30.	2.	5	ITNA	80TOU	01
30.	2.		AA	79MCQ	01

TABLE H (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
30.	4.		ITNA	78FUR	01
30.	3.		PAA	80SEG	01
30.5	1.2		RTNA	76GAL	01
31.			OES	75JON	04
32.			OES	75JON	07
34.	3.	*	PAA	78HIS	01
35.6	11.4	*	XRF	77SMI	04
38.	6.	*	FAA	77FUJ	01
41.		*	OES	75JON	08
45.		*	XRF	80SUZ	02
56.		*	CPAA	78MCG	01
56.		*	CPXRF	76ZEI	01
77.		*	EXRF	81PAR	01
81.		*	OES	75JON	01
Zr (ppm)					
	5.	L*	14NAA	81WIL	01
	3.	L*	EXRF	79GIA	01
1.3	0.3		PAA	78HIS	01
1.6	0.2	9	ITNA	78LAU	02
2.1			NAA	77LAU	01
3.	1.		14NAA	81WIL	02
3.8			CPAA	77ZIK	01
210.	20.	*	PAA	74CHA	01

TABLE I

NBS SRM 1572—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ca (%)					
3.07	0.003	11	AA	75ISA	01
3.14	0.005	11	AA	75ISA	01
Cu (ppm)					
16.	0.56	11	AA	75ISA	01
17.	0.14	11	AA	75ISA	01
Fe (ppm)					
95.	7.6	11	AA	75ISA	01
96.	8.6	11	AA	75ISA	01
K (ppm)					
17800.	4.	11	AA	75ISA	01
18000.	11.	11	AA	75ISA	01
Mg (ppm)					
5600.	1.7	11	AA	75ISA	01
5700.	3.	11	AA	75ISA	01
Mn (ppm)					
23.	0.12	11	AA	75ISA	01
25.	0.5	11	AA	75ISA	01
U (ppb)					
41.			DNA	83GLA	01
Zn (ppm)					
30.	1.5	11	AA	75ISA	01
31.	0.62	11	AA	75ISA	01

TABLE J

NBS SRM 1573—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppb)					
180.	50.		RTNA	80SLO	01
Al (ppm)					
182.			OES	75JON	02
228.			OES	75JON	11
280.			OES	75JON	07
286.			OES	75JON	08
296.			OES	75JON	06
356.			OES	75JON	03
382.			OES	75JON	04
391.			OES	75JON	09
495.			OES	75JON	05
835.			OES	75JON	01
1170.	60.	11	ICPES	82JON	01
1225.	239.		ITNA	77NAD	02
1280.			ITNA	82GLA	02
1300.	80.		ITNA	80SLO	01
As (ppb)					
118.	10.	7*	FAA	82HOE	02
170.	10.	7*	FAA	82HOE	02
200.	40.		RTNA	80SLO	01
225.	3.		RTNA	79HOE	01
230.	30.	11	HAA	81RAP	01
240.			IENA	83GLA	01
245.	5.	7	FAA	82HOE	02
250.	30.	11	HAA	81RAP	01
250.	30.		HAA	81KNA	01
260.	30.		ITNA	77NAD	02
260.	80.		HAA	81YAN	01
260.	30.	11	HAA	81RAP	01
260.			HAA	81ARA	01
270.		H	ICPES	81PIC	01
290.	10.	11	HAA	82JON	01
290.	10.		COLOR	77BUR	01
290.	20.	11	HAA	82JON	01
300.	30.		FAA	80DUP	01
310.	10.		HAA	80TAM	01
330.	30.	*	IENA	82GLA	02
Au (ppb)					
0.8	0.1		RTNA	80SLO	01
B (ppm)					
25.5	1.1		ICPES	79HER	01
26.			OES	75JON	10
28.			OES	75JON	02
29.			OES	75JON	07
30.			OES	75JON	04
32.	3.	35	TCGS	81GLA	04
32.			OES	75JON	06
32.			OES	75JON	01
32.			OES	75JON	03
35.			OES	75JON	09
36.	3.		TCGS	82GLA	02
37.			OES	75JON	05

TABLE J (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
37.			OES	75JON	08
42.		*	OES	75JON	11
Ba (ppm)					
40.			OES	75JON	03
47.			OES	75JON	04
49.			OES	75JON	11
56.5	11.24		NAA	76GUZ	01
58.			OES	75JON	05
59.			OES	75JON	01
63.	5.		ITNA	77NAD	02
69.	14.		ITNA	79REN	03
Br (ppm)					
19.	1.5	5	ITNA	80HOE	01
19.8	0.6	5	IENA	79GLA	02
20.1	1.2	5	ITNA	80HOE	01
20.8	2.4		ITNA	80SLO	01
21.	3.		ITNA	79REN	03
21.	1.2	5	IENA	79GLA	02
21.9	0.2		ITNA	77NAD	02
25.31	1.		ITNA	77STE	02
29.	2.	*35	NAA	81GLA	03
54.		*	EXRF	81PAR	01
C (%)					
37.67	0.45		CB	82GLA	02
37.92	0.26		CB	80SCH	02
Ca (%)					
2.22	0.08		ITNA	80SLO	01
2.38		*	OES	75JON	04
2.4	0.07		ITNA	79REN	03
2.42			OES	75JON	07
2.43			OES	75JON	03
2.55			OES	75JON	02
2.62			OES	75JON	08
2.64			OES	75JON	10
2.65	0.07	6	EXRF	79MAT	01
2.705	0.206		NAA	76GUZ	01
2.75	0.005	11	AA	75ISA	01
2.8			OES	75JON	11
2.87	0.005	11	AA	75ISA	01
2.91			OES	75JON	05
2.92	0.08	6	EXRF	79MAT	01
2.92			OES	75JON	09
2.99	0.05	11	ICPES	82JON	01
3.04	0.05	11	ICPES	82JON	01
3.08	0.05	11	ICPES	82JON	01
3.1			ITNA	82GLA	02
3.1	0.03	11	ICPES	82JON	01
3.19			OES	75JON	06
3.28			OES	75JON	01
3.41	0.09		ICPES	79HER	01
3.49	0.12	*	ITNA	77NAD	02
5.82		*	EXRF	81PAR	01

TABLE J (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Cd (ppm)					
1.6		*11	FAA	80PRE	01
2.1		6	POL	72SIN	01
2.2		11	FAA	80PRE	01
2.3	0.1		FAA	80LEG	01
2.3		11	FAA	80PRE	01
2.3		11	FAA	80PRE	01
2.3		11	FAA	80PRE	01
2.3			FAA	80PRE	01
2.4	0.01	11	ICPES	82JON	01
2.4	0.22	6	POL	72SIN	01
2.5			FAA	82PRE	01
2.5			ASV	82GAJ	01
2.55	0.09	11	ICPES	82JON	01
2.56	0.06	11	ICPES	82JON	01
2.6	0.1	11	ICPES	82JON	01
2.7	0.4		RTNA	80SLO	01
2.7			ASV	74COP	01
2.74	0.2		ASV	82SAT	02
2.8	0.2		AA	80SCH	05
2.8	0.2		FAA	83GLA	01
2.9	0.1		FAA	81KNA	01
3.3	0.2	*	ICPES	79HER	01
Ce (ppm)					
1.	0.1		RTNA	80SLO	01
Cl (%)					
1.04	0.02		ITNA	80SLO	01
1.05	0.072		ITNA	77STE	02
1.085	0.12		NAA	76GUZ	01
1.1	0.07		ITNA	77NAD	02
Co (ppb)					
400.	106.		NAA	76GUZ	01
467.	25.		ITNA	77GUZ	01
495.			FAA	82HOE	01
510.	10.	11	FAA	80FUD	01
540.	30.		RTNA	80SLO	01
550.	10.	11	FAA	80FUD	01
610.	30.		ITNA	77NAD	02
680.	30.		ITNA	79REN	03
Cr (ppm)					
2.28	0.06	*11	ICPES	82JON	01
3.1		11	AA	79HOE	02
3.107	1.08		NAA	76GUZ	01
3.7	0.3		ITNA	82GLA	02
3.8	0.3	35	FAA	81GLA	03
3.8	0.2	11	ICPES	82JON	01
3.9	0.3		ITNA	77NAD	02
3.94		11	AA	79HOE	02
4.3			AA	81ARA	01
4.3			FAA	82HOE	01
4.5	1.6		ITNA	79REN	03
4.6		11	AA	79HOE	02
5.9	0.2	*	ICPES	79HER	01

TABLE J (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Cs (ppb)					
	200.	L*	ITNA	82GLA	02
43.	2.		ITNA	77NAD	02
54.	4.		ITNA	83GLA	01
56.	6.		ITNA	77GUZ	01
140.	30.	*	ITNA	79REN	03
Cu (ppm)					
3.		*	AA	81ARA	01
7.7	0.5	6	POL	72SIN	01
7.7		6	POL	72SIN	01
8.2	0.4	11	ICPES	82JON	01
9.			OES	75JON	02
9.4		6	NAA	72SIN	01
9.5	0.2	11	ICPES	82JON	01
9.8	0.4	11	ICPES	82JON	01
10.			OES	75JON	03
10.1	0.4		RTNA	74RAV	01
10.4	0.6		VV	80SCH	05
10.4	0.2		ICPES	79HER	01
10.4	0.5	11	ICPES	82JON	01
10.5	0.8		RTNA	80SLO	01
10.8	0.1		COLOR	76ZAN	02
10.81	0.02		COLOR	77BUR	01
10.9	0.1	D*	AA	76ZAN	02
10.9	0.1		AA	76ZAN	01
11.			OES	75JON	04
11.2		11	AA	79HOE	02
11.5	0.2		AA	76EPS	02
12.		11	AA	79HOE	02
12.	0.17	11	AA	75ISA	01
12.	0.14	11	AA	75ISA	01
12.2	1.3	6	EXRF	79MAT	01
13.			OES	75JON	10
13.5	0.4		AA	77GUZ	01
14.1	5.64		NAA	76GUZ	01
14.1	1.3		ITNA	77GUZ	01
15.			OES	75JON	09
15.			OES	75JON	11
15.			OES	75JON	06
15.			OES	75JON	01
17.			OES	75JON	05
17.			OES	75JON	08
20.		*	OES	75JON	07
25.		*	EXRF	81PAR	01
Eu (ppb)					
15.	2.		ITNA	77GUZ	01
25.	5.		ITNA	77NAD	02
55.	8.		RTNA	80SLO	01
F (ppm)					
5.	1.		MS	77STE	02
5.7	0.2		ISE	83KNA	01
6.	0.7		ISE	83GLA	01

TABLE J (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Fe (ppm)					
55.		*	OES	75JON	01
162.		*	OES	75JON	09
220.		*	AA	81ARA	01
266.			OES	75JON	06
267.			OES	75JON	03
340.			OES	75JON	02
342.			OES	75JON	04
350.			OES	75JON	11
379.			OES	75JON	08
442.	115.	11	AA	75ISA	01
463.	157.	11	AA	75ISA	01
469.25	118.3		NAA	76GUZ	01
478.			OES	75JON	05
507.6	14.3		ITNA	77GUZ	01
531.	14.	11	ICPES	82JON	01
534.			OES	75JON	10
552.			OES	75JON	07
568.	3.		ICPES	79HER	01
575.	10.	11	COLOR	82SCH	03
597.		11	COLOR	82SCH	03
604.	11.	11	COLOR	82SCH	03
623.	10.	6	EXRF	79MAT	01
625.	14.	11	ICPES	82JON	01
642.	17.	11	ICPES	82JON	01
658.	18.	11	ICPES	82JON	01
661.	14.		ITNA	77NAD	02
665.		11	AA	79HOE	02
670.	50.	35	ITNA	81GLA	03
672.		11	AA	79HOE	02
685.	20.		ICPES	80SCH	05
698.			VOLT	81SZY	01
706.	12.		ITNA	79DAS	01
706.	12.		RTNA	80SLO	01
730.	90.		ITNA	79REN	03
831.	10.	6*	EXRF	79MAT	01
1170.		*	EXRF	81PAR	01
Fe(II) (ppm)					
540.			VOLT	81SZY	01
Fe(III) (ppm)					
158.			VOLT	81SZY	01
Ga (ppb)					
69.3	67.		NAA	76GUZ	01
H (%)					
5.	0.1	35	TCGS	79GLA	04
5.1	0.2		CB	82GLA	02
5.14	0.07		CB	80SCH	02
Hg (ppb)					
90.	8.		ITNA	77NAD	02
91.	11.		CVAA	82GLA	02
128.	118.		NAA	76GUZ	01

TABLE J (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
I (ppb)					
280.	30.		IENA	82SAT	01
300.	100.		PAA	77WIL	01
390.	120.		RTNA	77STE	02
In (ppb)					
0.96	0.08		RTNA	74RAV	01
K (%)					
3.	0.29	*	ICPES	79HER	01
3.8			OES	75JON	02
3.81			OES	75JON	10
3.85			OES	75JON	07
4.055		1	AA	78SZY	01
4.15	0.08		ITNA	79REN	03
4.17		1	AA	78SZY	01
4.25			OES	75JON	04
4.3	0.2	11	ICPES	82JON	01
4.33			OES	75JON	06
4.4	0.2	11	ICPES	82JON	01
4.4	0.1	11	ICPES	82JON	01
4.427	0.281		NAA	76GUZ	01
4.47	0.15		ITNA	80SLO	01
4.47	0.24		ITNA	77NAD	02
4.49			ICPES	79COO	01
4.51			OES	75JON	09
4.58			OES	75JON	03
4.58	0.004	11	AA	75ISA	01
4.6	0.2	11	ICPES	82JON	01
4.6	0.008	11	AA	75ISA	01
4.6			OES	75JON	06
4.74			OES	75JON	05
4.79	0.06	6	EXRF	79MAT	01
4.8			OES	75JON	11
5.16	0.06	*6	EXRF	79MAT	01
5.72		*	OES	75JON	01
9.24		*	EXRF	81PAR	01
La (ppb)					
346.	79.		NAA	76GUZ	01
640.	40.		ITNA	77NAD	02
770.	110.		RTNA	80SLO	01
800.	200.		ITNA	79REN	03
Lu (ppb)					
12.	2.		RTNA	80SLO	01
Mg (ppm)					
6000.			OES	75JON	08
6000.	600.		ITNA	80SLO	01
6100.	600.		ICPES	79HER	01
6300.			OES	75JON	09
6600.			OES	75JON	07
6700.	200.	11	ICPES	82JON	01
6700.	3.	11	AA	75ISA	01
6700.	3.	11	AA	75ISA	01

TABLE J (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
6800.			OES	75JON	10
6900.	200.	11	ICPES	82JON	01
6900.			OES	75JON	04
6900.	200.	11	ICPES	82JON	01
7000.			OES	75JON	03
7000.	200.	11	ICPES	82JON	01
7100.			OES	75JON	02
7300.	100.		ITNA	77NAD	02
7400.			OES	75JON	05
7400.			OES	75JON	06
7400.			OES	75JON	11
7800.		*	OES	75JON	01
Mn (ppm)					
138.		*	OES	75JON	07
189.			OES	75JON	04
189.			OES	75JON	10
197.			OES	75JON	09
198.			OES	75JON	06
200.			ITNA	79REN	03
209.18	9.93		NAA	76GUZ	01
209.2	11.9		ITNA	77GUZ	01
210.			OES	75JON	02
211.1	2.1		AA	77GUZ	01
215.			OES	75JON	11
216.	17.	11	AA	75ISA	01
217.	5.	11	ICPES	82JON	01
217.		11	AA	79HOE	02
218.	13.	11	AA	75ISA	01
221.	5.	11	ICPES	82JON	01
222.	5.	11	ICPES	82JON	01
223.		11	AA	79HOE	02
223.	7.	6	EXRF	79MAT	01
227.			OES	75JON	05
230.	5.	11	ICPES	82JON	01
230.			OES	75JON	03
231.	10.		ITNA	80SLO	01
234.	5.		VV	80SCH	05
235.	5.		ICPES	79HER	01
238.	17.		ITNA	77NAD	02
241.			OES	75JON	08
251.			OES	75JON	01
266.		*	ITNA	82GLA	02
266.	8.	*6	EXRF	79MAT	01
414.		*	EXRF	81PAR	01
Mo (ppm)					
0.4	0.2	11	ICPES	82JON	01
0.5	0.1	11	ICPES	82JON	01
0.5	0.1	11	ICPES	82JON	01
0.5	0.3	11	ICPES	82JON	01
0.62	0.04		ITNA	77NAD	02
0.65	0.1		RTNA	80SLO	01
2.8		*	OES	75JON	10
4.2		*	OES	75JON	11
4.5		*	OES	75JON	03
11.7		*	OES	75JON	01
14.6		*	OES	75JON	07
17.9		*	OES	75JON	02

TABLE J (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
N (%)					
4.9	0.2	35	TCGS	79GLA	04
4.94	0.11		CB	80SCH	02
4.95	0.08		CB	82GLA	02
Na (ppm)					
350.			OES	75JON	04
388.			OES	75JON	02
459.	46.1		NAA	76GUZ	01
475.	25.		ITNA	80SLO	01
488.		1	AA	78SZY	01
500.	200.		ITNA	79REN	03
522.	13.		ITNA	77NAD	02
531.			OES	75JON	08
602.		1	AA	78SZY	01
610.			OES	75JON	06
650.			OES	75JON	03
800.			OES	75JON	01
820.			OES	75JON	09
950.			OES	75JON	05
1090.	70.	*	ITNA	82SCH	05
1600.		*	OES	75JON	11
Nd (ppb)					
700.	100.		RTNA	80SLO	01
Ni (ppm)					
1.1	0.08	11	ICPES	82JON	01
1.12	0.06	11	ICPES	82JON	01
1.12	0.08	11	ICPES	82JON	01
1.2	0.3		ITNA	77NAD	02
1.3	0.2	11	ICPES	82JON	01
5.9	0.6	*	ICPES	79HER	01
0.3	0.2	*	RTNA	80SLO	01
P (ppm)					
2400.		*	OES	75JON	04
2800.			OES	75JON	10
3100.			OES	75JON	07
3200.	200.	6	FAA	81LAN	01
3200.			OES	75JON	05
3300.	200.	6	FAA	81LAN	01
3300.			OES	75JON	09
3300.			OES	75JON	11
3300.			OES	75JON	06
3300.			OES	75JON	08
3320.	160.		ICPES	81OWE	01
3400.	100.	11	ICPES	82JON	01
3400.			FAA	79EDI	01
3400.			OES	75JON	03
3400.			ICPES	79EDI	01
3420.	89.5		NAA	76GUZ	01
3500.	200.	6	FAA	81LAN	01
3500.	100.	11	ICPES	82JON	01
3500.	100.	11	ICPES	82JON	01
3500.	100.	11	ICPES	82JON	01
3700.	100.		ICPES	79HER	01

TABLE J (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
3800.			OES	75JON	02
5000.		*	OES	75JON	01
Pb (ppm)					
3.2		*6	POL	72SIN	01
4.			ASV	74COP	01
4.3	0.2	11	ICPES	82JON	01
4.5	0.1	6	POL	72SIN	01
4.9		11	FAA	80PRE	01
5.	0.2	11	ICPES	82JON	01
5.4		6	FAA	81JAC	01
5.5	0.4		FAA	80LEG	01
5.5		11	FAA	79HOE	02
5.6		6	FAA	81JAC	01
5.6	0.2		ASV	82SAT	02
5.7		11	FAA	79HOE	02
5.8		6	FAA	81HIN	01
5.8		6	FAA	82KOI	01
5.8		6	FAA	81HIN	01
5.8	0.8		HAA	82WEI	01
5.8		6	FAA	82KOI	01
5.9		11	FAA	80PRE	01
5.95	0.06		FAA	79DAB	02
6.		11	FAA	80PRE	01
6.			ASV	82GAJ	01
6.			FAA	82HOE	01
6.1	0.3		AA	80SCH	05
6.1		11	FAA	79HOE	02
6.2	0.3		FAA	81KNA	01
6.2			FAA	80PRE	01
6.3		11	FAA	80PRE	01
6.55	0.22		ASV	80SZY	01
6.6			FAA	82PRE	01
7.1	0.9		FAA	82WEI	01
7.5		11	FAA	80PRE	01
8.3	1.1	*	ICPES	79HER	01
15.		*	EXRF	81PAR	01
Pr (ppb)					
190.	40.		RTNA	80SLO	01
Rb (ppm)					
15.16	1.35		NAA	76GUZ	01
15.21	2.3		ITNA	79REN	03
16.4	0.5		ITNA	77GUZ	01
16.5	0.7		ITNA	77NAD	02
22.	3.	35	ITNA	81GLA	03
40.		*	EXRF	81PAR	01
Sb (ppb)					
30.	1.		RTNA	79HOE	01
30.	2.		RTNA	80KOS	02
34.			HAA	82KUE	03
40.	2.		ITNA	77NAD	02
120.	50.	*	ITNA	79REN	03

TABLE J (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Sc (ppb)					
138.	7.		ITNA	77GUZ	01
160.	30.		ITNA	79REN	03
170.	3.		ITNA	77NAD	02
208.	89.		NAA	76GUZ	01
220.	30.		RTNA	80SLO	01
Se (ppb)					
	100.	L*	HAA	82JON	01
	100.	L*	HAA	82JON	01
49.	5.		ITNA	77NAD	02
50.	20.		RTNA	80KNA	01
57.	3.	11	GC	81UCH	02
61.	2.	11	GC	81UCH	02
84.	15.	9	ITNA	80WAN	01
Sm (ppb)					
110.	15.		RTNA	80SLO	01
200.	90.		ITNA	79REN	03
Sr (ppm)					
36.	0.6		ICPES	79HER	01
38.			OES	75JON	03
38.			OES	75JON	04
45.	1.		ITNA	77NAD	02
54.			OES	75JON	01
65.5	5.84		NAA	76GUZ	01
102.		*	EXRF	81PAR	01
Ta (ppb)					
430.	300.		ITNA	79REN	03
Tb (ppb)					
4.	1.		RTNA	80SLO	01
Th (ppb)					
190.	20.		ITNA	77NAD	02
220.	30.		RTNA	80SLO	01
Ti (ppm)					
68.	9.		ITNA	77NAD	02
U (ppb)					
20.	20.	*	RTNA	80SLO	01
50.2	2.3		RTNA	78DER	01
54.			DNA	83GLA	01
60.	120.	R*	DNA	81GLA	03
63.	3.	35	DNA	80GLA	04

TABLE J (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
V (ppm)					
1.19	0.01	11	ICPES	82JON	01
1.27	0.035		RTNA	78BYR	01
1.3	0.2		ITNA	77NAD	02
1.42	0.08	11	ICPES	82JON	01
W (ppb)					
	40.	L*	RTNA	80SLO	01
Yb (ppb)					
80.	20.		RTNA	80SLO	01
Zn (ppm)					
26.		*	OES	75JON	09
29.		*	ASV	74COP	01
48.		*	OES	75JON	10
50.			OES	75JON	03
52.	1.	11	ICPES	82JON	01
54.	4.		RTNA	80SLO	01
56.	2.	11	ICPES	82JON	01
57.	2.	11	ICPES	82JON	01
58.			OES	75JON	06
58.			OES	75JON	01
58.03	3.33		NAA	76GUZ	01
58.9		11	AA	79HOE	02
59.	2.	11	ICPES	82JON	01
59.			OES	75JON	11
59.	3.	11	ICPES	82JON	01
60.			OES	75JON	02
60.	3.	11	ICPES	82JON	01
61.		6	AA	72SIN	01
62.	4.		ITNA	77NAD	02
62.	4 6		ITNA	79REN	03
62.	3.	11	ICPES	82JON	01
62.5			AA	81ARA	01
62.9		6	POL	72SIN	01
62.9	1.7	6	POL	72SIN	01
63.	2.5	11	AA	75ISA	01
64.	3.	11	ICPES	82JON	01
65.	7.		ICPES	80SCH	05
65.			OES	75JON	07
65.			OES	75JON	05
65.	3.25	11	AA	75ISA	01
68.		11	AA	79HOE	02
72.8	2.	6	EXRF	79MAT	01
73.	3.		ICPES	79HER	01
75.		*	OES	75JON	08
78.	2.1	*6	EXRF	79MAT	01
86.		*	OES	75JON	04
124.		*	EXRF	81PAR	01

TABLE K

NBS SRM 1575—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppb)					
150.	50.		RTNA	80SLO	01
Al (ppm)					
255.		*	OES	75JON	11
287.		*	OES	75JON	02
405.			OES	75JON	06
449.			OES	75JON	07
465.			OES	75JON	05
473.			OES	75JON	08
483.			OES	75JON	04
521.			OES	75JON	03
526.	17.	11	ICPES	82JON	01
565.	44.		ITNA	77NAD	02
582.	47.		CPXRF	80KIR	01
585.			AA	81ARA	01
620.		35	ITNA	81GLA	03
750.	200.	*	ITNA	80SLO	01
1243.		*	OES	75JON	01
As (ppb)					
150.	50.		RTNA	80SLO	01
154.	5.	7	FAA	82HOE	02
180.	15.	7	FAA	82HOE	02
181.	3.		RTNA	79HOE	01
187.	6.	7	FAA	82HOE	02
190.	10.	11	HAA	82JON	01
190.	30.	11	HAA	82JON	01
200.	30.		ITNA	77NAD	02
200.	20.	7	RTNA	77GIL	03
210.	10.		COLOR	77BUR	01
215.	6.		HAA	81UTH	01
220.	40.		IENA	82GLA	02
230.	20.		FAA	80DUP	01
230.			HAA	81ARA	01
240.	20.	7	RTNA	77GIL	03
Au (ppb)					
0.3	0.08		ITNA	79REN	03
0.9	0.1		RTNA	80SLO	01
B (ppm)					
13.			OES	75JON	08
13.			OES	75JON	09
13.3	0.7		ICPES	79HER	01
15.			OES	75JON	05
15.			OES	75JON	02
16.	4.		ITNA	82SCH	05
16.1	0.1		TCGS	82GLA	02
17.	1.	35	TCGS	81GLA	04
17.			OES	75JON	01
18.			OES	75JON	07
19.			OES	75JON	06
20.			OES	75JON	03
20.			OES	75JON	11
20.			OES	75JON	04

TABLE K (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ba (ppm)					
3.			OES	75JON	03
6.			OES	75JON	05
6.1	0.4		ITNA	77NAD	02
7.			OES	75JON	11
7.			OES	75JON	04
8.			OES	75JON	01
Br (ppm)					
5.4	1.2		CPXRF	80KIR	01
6.1	0.09		ITNA	79REN	03
6.25	0.2		ITNA	80HOE	01
6.4	0.8	5	IENA	79GLA	02
6.43	0.08		ITNA	77NAD	02
6.8	0.5	5	IENA	79GLA	02
7.4	0.3		ITNA	77STE	02
8.			ITNA	83GLA	01
30.		*	EXRF	81PAR	01
C (%)					
50.37	0.16		CB	80SCH	02
50.4	1.5	35	CB	79GLA	04
50.7	0.9		CB	82GLA	02
54.	2.	35	TCGS	79GLA	04
Ca (ppm)					
3100.	200.	*	ITNA	80SLO	01
3300.		*	OES	75JON	07
3700.	500.		CPXRF	80KIR	01
3800.			OES	75JON	05
3800.			OES	75JON	02
3800.			OES	75JON	11
3900.			OES	75JON	09
4000.	100.	11	ICPES	82JON	01
4000.			OES	75JON	06
4090.	20.	11	ICPES	82JON	01
4100.	30.	11	ICPES	82JON	01
4110.	30.	11	ICPES	82JON	01
4290.	60.		ICPES	79HER	01
4290.	40.		NM	81YUZ	01
4300.	600.		ITNA	79REN	03
4500.	400.		ITNA	77NAD	02
4600.			OES	75JON	03
4660.			AA	83GLA	01
4800.			OES	75JON	04
4900.			OES	75JON	01
5300.		*	OES	75JON	08
13100.		*	EXRF	81PAR	01
Cd (ppb)					
140.	70.	11	ICPES	82JON	01
160.	90.	11	ICPES	82JON	01
180.	30.		RTNA	80SLO	01
180.	90.	11	ICPES	82JON	01
200.			FAA	80PRE	01
206.	10.		RTNA	77DER	01
210.			FAA	82PRE	01

TABLE K (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
220.	30.		FAA	83GLA	01
250.	10.		FAA	80LEG	01
260.	10.		ICPES	79HER	01
300.	40.		AA	80SCH	05
300.	100.	11	ICPES	82JON	01
310.	30.		FAA	81KNA	01
Ce (ppb)					
150.	30.		RTNA	80SLO	01
Cl (ppm)					
243.	20.		ITNA	77NAD	02
280.	30.		ITNA	80SLO	01
510.	120.		CPXRF	79REN	02
551.	37.		ITNA	77STE	02
Co (ppb)					
110.			FAA	82HOE	01
110.			RTNA	80SLO	01
130.	20.		ITNA	77NAD	02
134.	6.		ITNA	77GUZ	01
340.	180.	*	ITNA	79REN	03
Cr (ppm)					
1.3	0.2	*11	ICPES	82JON	01
2.25		11	AA	79HOE	02
2.25		11	AA	79HOE	02
2.39		11	AA	79HOE	02
2.41	0.11		ITNA	77NAD	02
2.6	0.2		ICPES	81KNA	01
2.6	0.1		ITNA	82GLA	02
2.8			FAA	82HOE	01
2.9	0.2	11	ICPES	82JON	01
3.1	0.6		ICPES	79HER	01
3.93	0.05	*	ITNA	79REN	03
Cs (ppb)					
	200.	L*	ITNA	82GLA	02
101.	3.		ITNA	77NAD	02
104.	4.		ITNA	83GLA	01
115.	7.		ITNA	77GUZ	01
160.	60.		ITNA	79REN	03
Cu (ppm)					
0.7		*	OES	75JON	09
2.			OES	75JON	02
2.41	0.09		RTNA	77DER	01
2.5	0.3	11	ICPES	82JON	01
2.7	0.2	11	ICPES	82JON	01
2.8	0.3		FAE	76EPS	01
2.9	0.1		COLOR	76ZAN	02
2.9	0.2	11	ICPES	82JON	01
2.9	0.1		COLOR	76EPS	01
2.94	0.01		COLOR	77BUR	01
3.	0.15		ICPES	81KNA	01
3.	0.5	11	ICPES	82JON	01
3.	0.52		CPXRF	80KIR	01

TABLE K (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
3.	0.3		VV	80SCH	05
3.	0.3	D*	AA	76ZAN	02
3.	0.3		AA	76ZAN	01
3.2	0.2	D*	DCP	81REE	01
3.2	0.2		DCP	79REE	01
3.2	0.4		AA	76EPS	02
3.2	0.4		AA	76EPS	01
3.27	0.05		RTNA	80SLO	01
3.45		11	AA	79HOE	02
3.55		11	AA	79HOE	02
3.6	0.3		FAA	82KRI	01
4.			OES	75JON	04
4.1	0.8		ICPES	79HER	01
4.5			OES	75JON	07
5.			OES	75JON	06
6.			OES	75JON	08
8.		*	OES	75JON	03
8.		*	OES	75JON	01
8.		*	OES	75JON	05
8.		*	OES	75JON	11
11.		*	AA	81ARA	01
53.		*	XRF	80SUZ	02
Eu (ppb)					
6.	2.6		ITNA	77GUZ	01
6.5	0.8		ITNA	77NAD	02
F (ppm)					
2.5	0.3		ISE	83KNA	01
2.9	0.8		ISE	83GLA	01
3.7	0.6		MS	77STE	02
Fe (ppm)					
47.		*	OES	75JON	09
106.		*	OES	75JON	06
118.			OES	75JON	02
120.			OES	75JON	03
142.			OES	75JON	11
156.			OES	75JON	01
170.	10.		RTNA	80SLO	01
170.	10.		ITNA	79DAS	01
174.	0.9	11	COLOR	82SCH	03
174.	6.	11	COLOR	82SCH	03
175.	7.	11	ICPES	82JON	01
177.	4.	11	ICPES	82JON	01
182.			OES	75JON	08
183.	3.		ICPES	79HER	01
185.		11	AA	79HOE	02
185.		11	AA	79HOE	02
188.	17.		CPXRF	80KIR	01
193.			OES	75JON	07
194.	10.		ICPES	80SCH	05
194.	6.	11	COLOR	82SCH	03
194.	4.	11	ICPES	82JON	01
195.	10.	11	ICPES	82JON	01
195.7	5.4		ITNA	77GUZ	01
196.	7.		ITNA	77NAD	02
198.	8.		AF	81HOR	01
204.	12.		ICPES	81KNA	01

TABLE K (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
254.			OES	75JON	05
260.		*	OES	75JON	04
280.	50.	*	ITNA	79REN	03
595.		*	AA	81ARA	01
790.		*	EXRF	81PAR	01
H (%)					
6.39	0.07		CB	80SCH	02
6.5	0.1	35	TCGS	79GLA	04
6.54	0.08		CB	82GLA	02
Hf (ppb)					
10.			RTNA	80SLO	01
Hg (ppb)					
121.	6.		ITNA	77NAD	02
133.		11	CVAA	79HOE	02
147.	8.		CVAA	82GLA	02
157.	18.		CVAA	80DUM	01
160.	20.		RTNA	80SLO	01
I (ppb)					
	200.	L*	PAA	77WIL	01
140.	20.		IENA	82SAT	01
150.	50.		RTNA	77STE	02
K (ppm)					
2700.			OES	75JON	05
3200.			OES	75JON	09
3300.	100.		ICPES	79HER	01
3400.	200.	11	ICPES	82JON	01
3500.	500.		CPXRF	80KIR	01
3530.	80.	11	ICPES	82JON	01
3600.	100.		ITNA	77NAD	02
3600.			ICPES	79COO	01
3620.	40.	11	ICPES	82JON	01
3700.	200.		ITNA	79REN	03
3700.			OES	75JON	03
3800.			OES	75JON	04
3850.	80.	11	ICPES	82JON	01
4000.	100.		ITNA	80SLO	01
4000.			OES	75JON	01
4400.		*	OES	75JON	02
5100.		*	OES	75JON	06
5800.		*	OES	75JON	11
6500.		*	OES	75JON	07
9100.		*	EXRF	81PAR	01
La (ppb)					
130.	20.		RTNA	80SLO	01
140.	10.		ITNA	77NAD	02
210.	30.		ITNA	79REN	03
Lu (ppb)					
1.3	0.3		RTNA	80SLO	01

TABLE K (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Mg (ppm)					
900.			OES	75JON	09
1100.	100.		ICPES	79HER	01
1180.	30.	11	ICPES	82JON	01
1190.	20.	11	ICPES	82JON	01
1200.	200.		ITNA	80SLO	01
1200.			OES	75JON	07
1200.	20.	11	ICPES	82JON	01
1200.			OES	75JON	01
1200.	30.	11	ICPES	82JON	01
1200.			OES	75JON	06
1200.			OES	75JON	02
1300.			OES	75JON	03
1400.			OES	75JON	08
1500.	200.		ITNA	77NAD	02
1500.			OES	75JON	11
1600.			OES	75JON	05
1700.		*	OES	75JON	04
2200.	600.	*	CPXRF	80KIR	01
Mn (ppm)					
430.		*	OES	75JON	09
448.		*	OES	75JON	01
567.		*	OES	75JON	06
570.		*	OES	75JON	02
580.			OES	75JON	04
588.			OES	75JON	03
652.	14.	11	ICPES	82JON	01
652.	15.	11	ICPES	82JON	01
654.	20.		AA	77GUZ	01
655.	13.	11	ICPES	82JON	01
657.	7.	11	ICPES	82JON	01
660.	28.		ITNA	77NAD	02
668.			OES	75JON	05
670.	6.		ICPES	79HER	01
673.	10.	D*	DCP	81REE	01
673.	10.		DCP	79REE	01
677.	12.		VV	80SCH	05
678.	7.		ICPES	81KNA	01
685.	15.		ITNA	80SLO	01
688.		11	AA	79HOE	02
698.		11	AA	79HOE	02
700.	100.		ITNA	79REN	03
727.			XRF	80SUZ	02
738.			OES	75JON	08
885.		*	OES	75JON	07
2200.		*	EXRF	81PAR	01
Mo (ppm)					
0.1			RTNA	80SLO	01
0.1	0.1	11	ICPES	82JON	01
0.13	0.06	11	ICPES	82JON	01
0.2	0.1	11	ICPES	82JON	01
0.2	0.1	11	ICPES	82JON	01
1.5			OES	75JON	11
1.7			OES	75JON	01
2.5			OES	75JON	07
3.6		*	OES	75JON	03
18.5		*	OES	75JON	02

TABLE K (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
N (%)					
1.11	0.01		CB	80SCH	02
1.2	0.14		CB	82GLA	02
1.3	0.2	35	TCGS	79GLA	04
Na (ppm)					
	45.	L*	ITNA	80SLO	01
18.			OES	75JON	06
20.			OES	75JON	03
26.	4.		ITNA	77NAD	02
30.			OES	75JON	09
40.			ITNA	79REN	03
70.			OES	75JON	11
71.			ITNA	83GLA	01
78.			OES	75JON	08
100.			OES	75JON	01
100.			OES	75JON	05
190.		*	OES	75JON	04
Nd (ppb)					
200.	100.		RTNA	80SLO	01
Ni (ppm)					
2.07	0.07	11	ICPES	82JON	01
2.2	0.2		ITNA	77NAD	02
2.2	0.1	11	ICPES	82JON	01
2.24	0.06	11	ICPES	82JON	01
2.3	0.2		RTNA	80SLO	01
2.3	0.2		ICPES	79HER	01
2.39	0.09	11	ICPES	82JON	01
2.63			VOLT	81PIH	01
2.7	1.1		CPXRF	80KIR	01
2.9	0.1	*	DCP	79REE	01
2.9	0.1	D*	DCP	81REE	01
4.		*	FAA	82HOE	01
P (ppm)					
1000.	300.		CPXRF	80KIR	01
1000.			OES	75JON	04
1100.			FAA	79EDI	01
1100.			OES	75JON	09
1100.			ICPES	79EDI	01
1170.	50.		ICPES	81OWE	01
1170.	40.	11	ICPES	82JON	01
1180.	10.		ICPES	79HER	01
1190.	50.	11	ICPES	82JON	01
1190.	20.	11	ICPES	82JON	01
1200.			OES	75JON	05
1260.	20.	11	ICPES	82JON	01
1300.			OES	75JON	08
1300.			OES	75JON	06
1400.			OES	75JON	07
1400.			OES	75JON	11
1600.			OES	75JON	02
1800.		*	OES	75JON	03
2100.		*	OES	75JON	01

TABLE K (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Pb (ppm)					
7.4	1.3	*	CPXRF	80KIR	01
9.6	0.4	11	ICPES	82JON	01
9.8			FAA	80PRE	01
9.8	0.3	11	ICPES	82JON	01
10.4			FAA	82PRE	01
10.4			ASV	82GAJ	01
10.5		6	FAA	81HIN	01
10.5		6	FAA	82KOI	01
10.8	0.6		FAA	80LEG	01
10.9	0.3		FAA	81KNA	01
10.93	0.91		ASV	80SZY	01
11.	1.		ICPES	79HER	01
11.		6	FAA	81HIN	01
11.	0.6		FAA	79DAB	02
11.		6	FAA	82KOI	01
11.		11	FAA	79HOE	02
11.1	0.3		AA	80SCH	05
11.2	1.1		HAA	82WEI	01
11.2			FAA	82HOE	01
11.2		11	FAA	79HOE	02
13.9	1.2	*	FAA	82WEI	01
33.		*	EXRF	81PAR	01
Pd (ppb)					
	2.	L*	RTNA	81BYR	01
Pr (ppb)					
	70.	L*	RTNA	80SLO	01
Rb (ppm)					
11.	0.2		ITNA	77NAD	02
12.22	0.85		ITNA	77GUZ	01
12.5	3.9		ITNA	79REN	03
13.1	2.6		CPXRF	80KIR	01
35.		*	EXRF	81PAR	01
S (ppm)					
580.	140.		CPXRF	79REN	02
1500.	300.		CPXRF	80KIR	01
Sb (ppb)					
180.	14.		HAA	79VIJ	01
180.	10.		ITNA	77NAD	02
185.	2.		RTNA	79HOE	01
187.	7.		HAA	78KUB	02
190.	10.		RTNA	80SLO	01
198.	3.		RTNA	80KOS	02
220.	10.	7	RTNA	77GIL	03
220.	20.	7	RTNA	77GIL	03
1140.	440.	*	ITNA	79REN	03
Sc (ppb)					
27.	4.		ITNA	77GUZ	01
42.	2.		ITNA	77NAD	02

TABLE K (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
53.	8.		ITNA	79REN	03
130.		*	RTNA	80SLO	01
Se (ppb)					
	100.	L*	HAA	82JON	01
	100.	L*	HAA	82JON	01
43.	1.	11	GC	81UCH	02
43.	1.	11	GC	81UCH	02
44.	8.		ITNA	77NAD	02
50.	10.		RTNA	80KNA	01
53.	10.	9	ITNA	80WAN	01
96.	16.	*	RTNA	82POL	01
Si (ppm)					
248.	36.		CPXRF	80KIR	01
Sm (ppb)					
20.	2.		RTNA	80SLO	01
130.	120.		ITNA	79REN	03
Sr (ppm)					
4.7	0.2		AF	81HOR	01
4.9	0.1		ICPES	79HER	01
5.			OES	75JON	03
5.5	0.57		CPXRF	80KIR	01
10.			OES	75JON	04
20.		*	OES	75JON	01
Ta (ppm)					
1.74	0.27		ITNA	79REN	03
Tb (ppb)					
60.	10.		RTNA	80SLO	01
Th (ppb)					
34.	1.		ITNA	77NAD	02
35.	5.		RTNA	80SLO	01
U (ppb)					
13.	2.		RTNA	80SLO	01
15.			DNA	83GLA	01
15.	0.5		RTNA	78DER	01
18.	6.	35	DNA	80GLA	04
20.	48.	R*	DNA	81GLA	03
V (ppb)					
346.	18.		RTNA	78BYR	01
370.	90.	11	ICPES	82JON	01
410.	60.	11	ICPES	82JON	01
470.	80.		ITNA	77NAD	02
W (ppb)					
50.	10.		RTNA	80SLO	01

TABLE K (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Zn (ppm)					
5.		*	OES	75JON	09
51.	9.		CPXRF	79REN	02
52.	1.		ITNA	77NAD	02
53.5	2.		RTNA	80SLO	01
57.			OES	75JON	11
60.	3.	11	ICPES	82JON	01
60.3	1.3		RTNA	77DER	01
61.	4.	11	ICPES	82JON	01
63.	3.	11	ICPES	82JON	01
64.	7.		ICPES	79HER	01
64.	4.	11	ICPES	82JON	01
65.			AA	81ARA	01
65.	6.		ITNA	79REN	03
65.	4.	11	ICPES	82JON	01
66.			OES	75JON	06
67.			XRF	80SUZ	02
68.	5.	11	ICPES	82JON	01
68.			OES	75JON	08
71.	1.	D*	DCP	81REE	01
71.	1.		DCP	79REE	01
71.	10.	11	ICPES	82JON	01
72.			OES	75JON	02
74.	9.	11	ICPES	82JON	01
74.			OES	75JON	03
82.			OES	75JON	05
85.			OES	75JON	07
87.			OES	75JON	01
99.	10.	*	ICPES	80SCH	05
110.	12.	*	CPXRF	80KIR	01
141.		*	OES	75JON	04

TABLE L

NBS SRM 1577—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppb)					
	130.	L*	RTNA	76GAU	01
5.		*17	UU	74MAS	01
40.	8.		RTNA	79WAR	02
51.	11.		RTNA	77LIE	01
51.	11.		RTNA	75LIE	01
60.			ITNA	77OSB	01
60.	1.		FAA	75PIC	01
65.	5.		RTNA	80SLO	01
65.	10.		SSMS	77PAU	01
66.	21.		ITNA	79CHA	04
68.	6.		ITNA	78BEH	01
72.	13.		AA	80JAC	01
80.	6.		ITNA	79CHA	02
91.	26.	*	ITNA	73COR	01
194.		*17	UU	74MAS	01
300.	100.	*34	CPXRF	78JOL	01
400.		*	OES	75BOL	02
2000.	600.	*	RTNA	74SCH	03
Al (ppm)					
	15.	L*	ICPES	78CAP	01
	80.	L*	14NAA	81WIL	02
	80.	L*	14NAA	81WIL	01
1.8	0.2	*	ITNA	77GOO	01
2.21	0.15	*	ITNA	82EHM	01
5.			ICPES	79MCQ	01
6.	3.		ITNA	83GLA	01
6.	2.		ICPES	79ABE	01
7.		17	UU	74MAS	01
8.	0.6	11	ICPES	81BLA	02
8.2	0.8	11	ICPES	81BLA	02
11.3	2.9	6	ITNA	74HOF	01
15.3	1.1		ITNA	80SLO	01
20.4	2.9	6	ITNA	74HOF	01
20.8	0.7		RTNA	77BUO	01
23.4	0.6		RTNA	79WAR	02
23.6	2.		ITNA	79CHA	02
30.	65.	R*	ITNA	79IMA	01
30.	65.	R*	ITNA	79IMA	03
37.	6.		ITNA	77ZIK	01
42.	13.		ITNA	77HAM	01
45.6		*	ITNA	73NAD	01
65.		*	ITNA	78CAP	01
As (ppb)					
	100.	L*	HAA	82JON	01
	1300.	L*	14NAA	81WIL	02
	200.	L*	EXRF	77NIE	01
	104.	L*	ITNA	74NAD	02
	100.	L*	ITNA	73NAD	01
	700.	L*	CPXRF	77WIL	02
	300.	L*	EXRF	79GIA	01
	1300.	L*	14NAA	81WIL	01
	100.	L*	HAA	82JON	01
23.	12.		HAA	82TAM	01
30.	15.		IENA	78WAN	01
40.	10.		RTNA	80SLO	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
40.	10.		RTNA	75ABU	01
41.			HAA	79EVA	01
43.3			HAA	77IHN	01
46.	2.		RTNA	79HOE	01
47.	5.		HAA	82SUB	01
49.	6.		HAA	76FIO	01
50.	10.		HAA	80AGE	02
50.	10.		HAA	74LOO	01
50.			HAA	78WEL	01
52.	3.	34	HAA	78FLA	01
52.	7.		ITNA	79CHA	02
52.	3.		AA	79FLA	02
52.9	1.9	H	RTNA	79ORV	01
53.	2.	7	RTNA	81KUC	01
54.	4.		RTNA	78GAL	01
54.	4.		RTNA	82BYR	01
54.	5.		RTNA	74HEN	01
54.	2.		RTNA	79WAR	02
54.		H	FAE	79FEL	01
54.	5.		RTNA	79MAY	01
55.	3.		NAA	77GIL	01
55.	3.		RTNA	77GIL	03
56.	3.		HAA	81UTH	01
56.	4.		RTNA	75LIE	01
56.	4.		RTNA	77LIE	01
56.6	1.2		NAA	74HEY	01
57.			ASV	78DAV	01
58.	3.		RTNA	79HEI	04
58.	3.		RTNA	79ROS	02
58.5	9.		NAA	76GUZ	01
59.		7	RTNA	81KUC	01
59.			RTNA	75STE	02
63.	4.		RTNA	74ORV	01
64.		17	UU	74MAS	01
66.			ASV	81LEE	01
66.	23.		RTNA	74SCH	03
69.		17	UU	74MAS	01
80.	30.		RTNA	77TJI	01
100.	10.		GCMES	75TAL	01
100.			ITNA	77OSB	01
150.			ICPES	80HAA	01
200.	300.	*6	CPXRF	77WIL	03
280.	100.	*34	CPXRF	78JOL	01
500.		*	FAA	78CAP	01
600.	500.	6*	CPXRF	77WIL	03
290.	110.		ICPES	80HAA	01
Au (ppb)					
	0.5	L*	RTNA	80SLO	01
0.23	0.16	*	RTNA	77TJI	01
1.7	0.4		RTNA	77KUS	01
4.9	0.8		RTNA	74SCH	03
6.	1.		ITNA	79CHA	02
7.	0.8		RTNA	79WAR	02
29.2	2.1	*	RTNA	77NAD	01
B (ppm)					
2.24		6	AE+AF	74DAU	01
2.34		6	AE+AF	74DAU	01
3.2	0.2		TCGS	79FAI	01
4.	1.		ICPES	79ABE	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ba (ppm)					
	20.	L*	14NAA	81WIL	02
	30.	L*	ITNA	78CAP	01
0.12	0.13		RTNA	76GAU	01
0.13			ICPES	78DAH	01
0.22	0.02		RTNA	79WAR	02
1.8	0.39		RTNA	77GUI	03
2.92			ITNA	73NAD	01
Be (ppb)					
	3.	L*	ICPES	82SCH	01
	60.	L*	ICPES	78CAP	01
3.	1.	6	ICPES	82SCH	01
5.	3.		FAA	75OWE	01
17.	4.		FLUOR	77WIC	01
Br (ppm)					
	9.9	L*	ITNA	80TOU	01
4.3		*17	UU	74MAS	01
4.7	0.8	*	CPXRF	77RIN	01
6.1	0.6		CPXRF	77WIL	02
7.35		17	UU	74MAS	01
7.4	0.5		EXRF	80DYC	01
7.7	0.5	5	ITNA	80HOE	01
7.8	0.1	5	IENA	79GLA	02
8.	1.		RTNA	77TJI	01
8.	0.5		RTNA	76GAU	01
8.	0.1	5	IENA	79GLA	02
8.22	0.4		RTNA	79WAR	02
8.4	0.6		ITNA	83GLA	01
8.5	1.		ITNA	79CHA	02
8.5	9.9	R*	ITNA	79IMA	03
8.5	9.9	R*	ITNA	79IMA	01
8.6	0.4		NAA	78GAN	01
8.8	0.4		EXRF	79GIA	01
8.8	0.3	5	ITNA	80HOE	01
8.8	1.4		EXRF	77NIE	01
8.9	2.1		ITNA	77HAM	01
9.	1.		CPXRF	78VIS	01
9.	0.6		ITNA	78BEH	01
9.	0.6		ITNA	77JUR	02
9.3		1	IENA	79KUC	01
9.3	0.8		ITNA	80MAE	01
9.3	3.		CPXRF	79REN	02
9.34	0.82		ITNA	74DON	01
9.37			ITNA	73NAD	01
9.4	0.4		XRF	77SMY	01
9.5			ITNA	80CRE	01
9.5	1.	6	CPXRF	77WIL	03
9.7		1	IENA	79KUC	01
9.8			ITNA	79KUC	01
10.	1.		CPXRF	80MAE	01
10.	0.7		CPXRF	82ROE	02
10.4			ITNA	82AKA	01
11.	2.3		CPXRF	80KIR	01
11.			ITNA	78CAP	01
11.	1.	5	ITNA	80TOU	01
11.1	1.6		RTNA	74SCH	03
12.	4.		ITNA	77ZIK	01
13.4		*17	UU	74MAS	01
22.	10.	*	ITNA	77ZIK	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
C (%)					
49.6	1.5	35	CB	79GLA	04
49.87	0.07		CB	80SCH	02
51.	2.	35	TCGS	79GLA	04
52.	2.		TCGS	79FAI	01
Ca (ppm)					
	1000.	L*	14NAA	81WIL	02
	420.	L*	14NAA	77VAN	01
	200.	L*	ITNA	73NAD	01
	5000.	L*	14NAA	81WIL	01
30.		*	AE+AF	79ULL	01
71.	23.	*	EXRF	77NIE	01
80.	30.		ITNA	74WES	01
90.	13.		CPXRF	80MAE	01
94.	112.		AA	79MAN	01
100.	26.		ITNA	78FUR	01
100.	20.		RTNA	76GAU	01
100.			CPXRF	77WIL	02
101.			AA	79LOC	01
103.	12.		CPXRF	79MAN	01
104.		17	UU	74MAS	01
106.	3.2		AA	74WES	01
107.			ITNA	82AKA	01
107.	232.	R*	ITNA	79IMA	03
107.	232.	R*	ITNA	79IMA	01
108.	9.		CPAA	77ZIK	01
114.	2.	1	ICPES	78SUD	01
115.	12.		RTNA	80CAN	01
116.	2.	1	AA	77UCH	02
116.	2.		AA	80IID	01
118.	9.	1	ICPES	78SUD	01
119.	2.	1	AA	77UCH	02
120.	2.	11	ICPES	82JON	01
121.	3.	11	ICPES	82JON	01
122.			ICPES	80HAA	01
122.	7.		ICPES	79MCQ	01
123.	17.		AA	79MCQ	01
124.	10.		ITNA	79CHA	02
124.67	8.48		NAA	76GUZ	01
125.	13.		RTNA	79WAR	02
125.	8.		ITNA	75PIE	01
127.	7.		AA	80UCH	01
127.	12.		ICPES	79MCQ	02
127.	5.		AA	75HIN	01
130.	10.		ITNA	77ZIK	01
130.	30.		ITNA	83GLA	01
131.	9.		CPXRF	80KIR	01
131.	8.		CPXRF	78VIS	01
131.			RTNA	75STE	02
134.	18.		ICPES	79ABE	01
135.			ICPES	78DAH	01
137.5	18.		PAA	76KAT	04
140.			ICPES	78CAP	01
151.	7.4	*	CPXRF	81ROB	02
158.	15.	*	EXRF	80DYC	01
309.		*	ITNA	78CAP	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Cd (ppb)					
	1600.	L*	OES	75BOL	02
	100.	L*	POL	72SIN	01
	2500.	L*	ICPES	78CAP	01
	100.	L*	POL	72SIN	01
210.	42.	*	ASV	79STO	01
230.		*11	FAA	75BLO	01
240.	10.		FAA	82SUZ	01
240.		17	UU	74MAS	01
246.	56.		NAA	76GUZ	01
250.			AA	78EVA	01
250.	30.		VV	79CHA	02
250.	20.		AF	75EPS	01
250.		11	FAA	75BLO	01
253.	24.		AE+AF	74RAI	02
260.		11	ASV	81DAN	01
260.			FAA	82AKA	01
260.	30.		RTNA	80SLO	01
260.			FAA	75SLA	01
260.	30.		FAA	78PIE	01
260.	20.		AA	74ULL	01
260.	10.		RTNA	74ORV	01
260.	20.		FAA	79DAB	02
260.	30.		RTNA	74SCH	03
266.	27.		RTNA	79MAY	01
266.	20.		FAA	74RAI	02
269.	13.		RTNA	74ROO	01
270.	50.		FAA	81KNA	01
270.			AA	77FRI	01
270.	20.		AA	79WAR	01
270.	10.	11	AA	81BLA	03
270.	20.		AA	75EPS	01
270.	30.		AA	79LAK	01
270.	60.		TCGS	79FAI	01
270.		17	UU	74MAS	01
270.	80.		FAA	74GRO	01
270.		17	UU	74MAS	01
270.		17	UU	74MAS	01
280.	20.		SSMS	77PAU	01
280.			FAA	82HOE	01
280.	50.	11	AA	81BLA	03
280.			ASV	74COP	01
280.	30.		AA	80SCH	05
283.	50.		FAA	79STO	01
283.			RTNA	75HAL	01
283.		17	UU	74MAS	01
288.	29.		RTNA	80GRE	01
288.	26.		FAA	81ZAU	01
288.	35.		RTNA	77LIE	01
288.	35.		RTNA	75LIE	01
290.	10.		FAA	80LEG	01
290.	30.		FAA	83GLA	01
290.			FAA	80JAR	01
290.	30.		FAA	79WAR	01
290.	10.		RTNA	77BAJ	02
290.	20.		NAA	76DER	01
290.		11	ASV	81DAN	01
290.	20.		AA	79FLA	02
290.		17	UU	74MAS	01
290.	30.		RTNA	79DER	01
290.	13.	7	AA	73TAL	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
290.		17	UU	74MAS	01
290.	30.		RTNA	74HEN	01
300.	40.	7	RTNA	81KUC	01
300.	20.		RTNA	77TJI	01
300.			ASV	82GAJ	01
300.			ICPES	80HAA	01
300.	70.		AA	80AGE	01
300.	20.		RTNA	78GAL	01
300.	50.		AA	75HIN	01
300.	23.		AF	75WOR	01
300.	25.		FAA	74TAL	01
300.	700.		AA	76LAN	01
300.	25.	7	AA	73TAL	01
300.	30.		RTNA	76GAU	01
300.	18.	7	AA	73TAL	01
300.	800.	6	FAA	76LAN	01
300.	18.		FAA	74TAL	01
310.		7	RTNA	81KUC	01
310.	50.		FAA	80POL	01
310.			RTNA	75STE	02
310.	20.		FAA	78GRO	01
310.		11	FAA	81DAN	01
320.	130.	6	FAA	76LAN	01
320.	40.	11	AA	81BLA	03
320.		11	FAA	81DAN	01
337.	58.	*	RTNA	79PIA	01
350.	50.	*11	ICPES	82JON	01
390.	70.	*11	ICPES	82JON	01
550.	450.	*	AA	79MON	01
560.	130.	*34	CPXRF	78JOL	01
Ce (ppb)					
	3000.	L*	14NAA	81WIL	01
13.		17	UU	74MAS	01
18.	4.		RTNA	80SLO	01
21.5			RTNA	77LAU	02
22.			RTNA	82LAU	01
46.	14.		RTNA	76GAU	01
Cl (ppm)					
	5400.	L*	14NAA	81WIL	01
1880.		*17	UU	74MAS	01
2155.	170.	*34	CPXRF	78JOL	01
2410.	600.		EXRF	77NIE	01
2460.		35	ITNA	81GLA	04
2480.		17	UU	74MAS	01
2500.	130.	35	ITNA	81GLA	03
2530.			ITNA	78CAP	01
2542.	300.		ITNA	77ZIK	01
2550.	100.		ITNA	74WES	01
2570.	3110.	R*	ITNA	79IMA	01
2570.	3110.	R*	ITNA	79IMA	03
2590.		17	UU	74MAS	01
2610.	200.		ITNA	79CHA	02
2610.		17	UU	74MAS	01
2615.	192.		RTNA	74SCH	03
2632.	67.		ITNA	77GUI	02
2632.	67.		NAA	76MIL	02
2650.	100.		ITNA	80SLO	01
2680.	80.		RTNA	79WAR	02
2685.	165.		PAA	76KAT	04

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
2690.	170.		EXRF	80DYC	01
2700.	70.		ITNA	83GLA	01
2750.			ITNA	73NAD	01
2750.	110.		ITNA	78FUR	01
2760.			ITNA	82AKA	01
2793.	294.4		NAA	76GUZ	01
2830.	200.		NAA	78GAN	01
2900.			ITNA	80CRE	01
3000.	100.		TCGS	79FAI	01
3000.	190.		ITNA	77HAM	01
3200.	800.		CPXRF	79REN	02
3500.	200.	*	14NAA	81WIL	02
11663.		*17	UU	74MAS	01
Co (ppb)					
	6000.	L*	EXRF	79GIA	01
120.		*17	UU	74MAS	01
170.	10.		NAA	78GAN	01
170.			ITNA	73NAD	01
170.	20.		ITNA	79CHA	02
174.		17	UU	74MAS	01
178.	5.		RTNA	79WAR	02
180.	10.		RTNA	77GIL	03
180.	30.		ITNA	79WAR	01
180.	10.		NAA	77GIL	01
188.	27.		NAA	76GUZ	01
190.		1	IENA	79KUC	01
190.	20.	6	ITNA	74BEC	01
200.	16.		FAA	74WES	01
203.			RTNA	75STE	02
210.			ITNA	79KUC	01
210.	30.		AA	79FLA	02
210.	40.		FAA	79WAR	01
210.	20.		ITNA	74WES	01
217.	13.		ITNA	81KRI	01
220.			RTNA	75ABU	01
223.	11.		RTNA	77LIE	01
223.	11.		RTNA	75LIE	01
225.	7.		COLOR	82KIR	01
225.		17	UU	74MAS	01
230.	20.		RTNA	80SLO	01
230.	20.	6	ITNA	74BEC	01
230.	100.		ITNA	77ZIK	01
233.	5.		RTNA	79DER	01
240.	10.		ITNA	73COR	01
240.			ITNA	80CRE	01
240.			CHEML	79MIL	01
240.	37.		ITNA	77HAM	01
240.	14.		IENA	75MAZ	01
240.	30.		ITNA	78BEH	01
240.	20.		RTNA	74HEN	01
245.		7	RTNA	81KUC	01
247.	31.		ITNA	81MOL	01
248.	25.		ITNA	79ZEI	01
250.	30.		CHEML	81MAR	01
250.			ITNA	82AKA	01
257.	2.		ITNA	74LIN	01
260.	7.	7	RTNA	81KUC	01
260.	10.		ITNA	79SAT	01
260.	21.		RTNA	76GAU	01
260.		17	UU	74MAS	01
265.			AA	79ABU	01

TALBE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
269.	30.		AA	80JAC	01
275.			FAA	82HOE	01
280.			NAA	79MIL	01
290.			ITNA	78CAP	01
300.			ICPES	80HAA	01
300.			ITNA	77OSB	01
310.	120.		14NAA	81WIL	02
310.	60.		RTNA	74SCH	03
310.	120.		14NAA	81WIL	01
340.		17	UU	74MAS	01
360.	60.		ITNA	78FUR	01
370.	60.	*	RTNA	77MEL	01
390.		*17	UU	74MAS	01
400.		*	FAA	75SLA	01
410.	120.	*	RTNA	77KUS	01
246.	14.		RTNA	77TJI	01
Cr (ppb)					
	300.	L*	14NAA	81WIL	01
	3400.	L*	AA	79MON	01
	100.	L*	RTNA	77MEL	01
	300.	L*	14NAA	81WIL	02
	4000.	L*	EXRF	79GIA	01
	400.	L*	ITNA	78CAP	01
5.	1600.	R*	VV	77PAR	01
22.	10.		ICPES	81BLA	01
35.	4.	11	FAA	80KUM	01
35.	3.		GC	81BLA	01
44.9	5.	11	RTNA	76PIE	01
51.		17	UU	74MAS	01
53.	9.		FAA	74WOL	01
60.	12.		AA	80JAC	01
60.	30.		RTNA	74SCH	03
72.	8.	11	ICPES	81BLA	02
74.	5.		RTNA	77LIE	01
78.9		11	NAA	79VER	01
80.6		11	NAA	79VER	01
85.	9.		RTNA	78GAL	01
88.		7	RTNA	81KUC	01
88.	8.	11	FAA	80KUM	01
92.	10.	7	RTNA	81KUC	01
92.	9.	11	ICPES	81BLA	02
94.	8.	7	FAA	80CHA	01
94.8	19.5	11	RTNA	76PIE	01
98.	5.		RTNA	75LIE	01
115.	42.		RTNA	79FLA	01
120.	70.		ITNA	78BEH	01
120.	40.		AA	79FLA	02
123.	6.		RTNA	77LIE	01
130.		17	UU	74MAS	01
130.			ITNA	80CRE	01
130.	50.		RTNA	77TJI	01
130.	30.		RTNA	78GOE	01
140.		17	UU	74MAS	01
144.	23.	7	FAA	80CHA	01
150.	30.		ITNA	74DON	01
150.	10.		NAA	78GAN	01
150.		17	UU	74MAS	01
160.	60.		RTNA	76GAU	01
160.	5.	11	RTNA	78MCC	01
163.	10.		RTNA	74MCC	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
180.	100.		CPXRF	78VIS	01
190.	10.		FAA	79WAR	01
200.	20.	D*	DCP	81REE	01
200.	20.		DCP	79REE	01
210.	31.		ITNA	74MCC	01
210.	40.		ITNA	79WAR	01
210.	30.		ITNA	78MCC	01
210.	70.		RTNA	79WAR	02
210.	2.	11	RTNA	78MCC	01
280.	200.		ITNA	79SAT	01
400.	500.	11	ICPES	82JON	01
400.	500.	11	ICPES	82JON	01
490.		17	UU	74MAS	01
500.	3500.	R*	ITNA	73NAD	01
540.		17	UU	74MAS	01
600.			ITNA	79KUC	01
870.	60.		CHEML	74LI	01
1000.	600.	*11	RTNA	76STE	01
1160.	600.		ITNA	76STE	01
1300.		*17	UU	74MAS	01
1400.	800.	*11	RTNA	76STE	01
1570.		*17	UU	74MAS	01
1600.	800.	*11	RTNA	76STE	01
1700.	900.	*11	RTNA	76STE	01
1900.	1000.	*11	RTNA	76STE	01
2400.	700.		CPXRF	77WIL	02
61000.	3000.	*11	FAA	80KUM	01
Cs (ppb)					
	200.	L*	14NAA	81WIL	02
11.5	1.		ITNA	81KRI	01
12.			ITNA	81MOL	01
13.	1.		ITNA	77JUR	02
13.	1.		ITNA	78BEH	01
14.	2.		RTNA	75LIE	01
14.9	2.2		RTNA	77LIE	01
15.	2.		RTNA	79WAR	02
15.		17	UU	74MAS	01
16.	3.		ITNA	79SAT	01
16.	4.		RTNA	76GAU	01
18.	9.		ITNA	73COR	01
19.2		17	UU	74MAS	01
24.		*	ITNA	80CRE	01
35.		*	ITNA	73NAD	01
44.		*17	UU	74MAS	01
130.	30.	*	RTNA	77MEL	01
Cu (ppm)					
	6500.	L*	ITNA	80TOU	01
93.	12.	*6	ITNA	74HOF	01
138.	18.8	*	FAA	74GRO	01
146.	40.	*	ITNA	77ZIK	01
148.	19.	*	FAA	77FUJ	01
151.	191.	R*	ITNA	79IMA	03
151.	191.	R*	ITNA	79IMA	01
153.		*	CPXRF	78UEM	01
154.	43.	*	CPAA	77ZIK	01
161.	12.	*	RTNA	77KUS	01
167.		17	UU	74MAS	01
167.			XRF	80SUZ	02
168.	8.	1	ICPES	78SUD	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
170.	8.		RTNA	80SLO	01
173.		17	UU	74MAS	01
173.5	13.9	34	CPXRF	78JOL	01
174.	2.		EXRF	80DYC	01
175.		17	UU	74MAS	01
176.	9.	6	ITNA	74HOF	01
177.	19.	5	ITNA	80TOU	01
177.	1.		AA	79MCQ	01
177.	7.		RTNA	77TJI	01
180.		17	UU	74MAS	01
180.	8.	11	ICPES	81BLA	02
180.	3.		AA	73TAL	01
181.	124.		ITNA	82KIM	01
181.		17	UU	74MAS	01
182.	8.	7	RTNA	81KUC	01
182.	6.	1	ICPES	78SUD	01
183.	8.	35	RTNA	77GLA	01
183.	19.		CPXRF	79MAN	01
183.	8.		PAA	76WIL	01
184.	5.		SSMS	77PAU	01
185.	9.	11	ICPES	82JON	01
185.	7.		RTNA	78GAL	01
185.	6.8	11	RTNA	74WES	01
185.			FAA	78CAP	01
186.	2.		ICPES	79MCQ	02
186.	16.		EXRF	77NIE	01
186.	5.5	11	FAA	74WES	01
186.	5.5	6	CPXRF	77WIL	03
187.		7	RTNA	81KUC	01
187.	2.3		AA	80AGE	01
187.	4.	11	ICPES	81BLA	02
187.	8.		RTNA	75LIE	01
187.	8.		RTNA	77LIE	01
187.	13.		ITNA	74DON	01
187.	6.		ITNA	78FUR	01
187.4	15.5		AA	79MON	01
188.	6.		AA	79FLA	02
188.	10.		RTNA	79WAR	02
188.	9.		AA	75HIN	01
188.	1.		ICPES	79MCQ	01
188.	9.8	11	FAA	74WES	01
188.	10.		ITNA	79WAR	01
188.	3.		RTNA	74HEN	01
189.			ITNA	82AKA	01
189.	12.		CPXRF	80KIR	01
189.	4.	11	ICPES	82JON	01
189.	4.		CPXRF	81ROB	02
189.	6.		FAA	81CLE	01
189.	2.	1	AA	77UCH	02
189.	2.		AA	80IID	01
189.	2.	1	AA	77UCH	02
189.	7.		ICPES	78JAC	01
190.	3.		FAA	79WAR	01
190.		11	AA	81MOH	01
190.	24.		ITNA	77HAM	01
190.	10.		ICPES	79ABE	01
190.	8.		VV	80SCH	05
190.	15.		ASV	81DOG	01
191.		6	NAA	72SIN	01
191.	10.5		NAA	76GUZ	01
191.	34.		XRF	77SMI	04
191.	6.2	11	RTNA	74WES	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
191.		11	FAA	81DAN	01
192.	4.		EXRF	79GIA	01
192.	4.		FAA	81CLE	02
192.	9.	6	FAA	76LAN	01
193.	14.		RTNA	77GIL	03
193.		11	FAA	81DAN	01
193.	14.		NAA	77GIL	01
194.	31.		AA	79LAK	01
194.	13.	6	CPXRF	77WIL	03
194.			FAA	75SLA	01
194.		17	UU	74MAS	01
194.	1.		AA	75ABU	01
194.		17	UU	74MAS	01
195.	10.		ICPES	81KNA	01
195.	4.		AA	80UCH	01
195.	3.		AA	79WAR	01
195.		6	POL	72SIN	01
195.	5.		RTNA	76GAU	01
195.			AE+AF	79ULL	01
196.	8.		CPXRF	77WIL	02
196.	9.		AA	81KRI	01
196.	28.		RTNA	82KIM	01
196.	9.		FAA	75SME	01
196.	14.7		RTNA	79PLA	01
196.	6.	6	FAA	76LAN	01
197.	16.		CPXRF	80MAE	01
197.	13.	6	POL	72SIN	01
197.	4.		ITNA	79SAT	01
197.			NAA	78GAN	01
198.	9.		ITNA	79CHA	02
198.			AA	80EVA	01
199.	12.		ITNA	83GLA	01
199.	6.		ITNA	80MAE	01
200.		11	AA	81MOH	01
200.	2.		RTNA	79DER	01
201.			ICPES	78DAH	01
201.7	7.9		RTNA	77BUO	01
204.	9.		CPXRF	78VIS	01
204.			ICPES	80HAA	01
205.		6	AA	72SIN	01
206.	5.		RTNA	74RAV	01
207.		11	ASV	81DAN	01
208.	11.		AA	76LAN	01
208.	27.		RTNA	74SCH	03
210.			ICPES	78CAP	01
210.	12.5		FAA	75PIC	01
213.		17	UU	74MAS	01
216.	22.	32	CPXRF	77CRO	01
216.		11	ASV	81DAN	01
241.	45.	*	CPAA	78MCG	01
241.	54.	*32	CPXRF	77CRO	01
241.	65.	*	CPXRF	76ZEI	01
270.	90.	*	14NAA	81WIL	02
277.	14.	*	AA	79MAT	02
394.	3.	*	AA	81UCH	01

Dy (ppb)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
2.4	0.8		RTNA	76GAU	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Er (ppb)					
	0.5	L*	RTNA	82LAU	01
	0.5	L*	RTNA	76GAU	01
0.5			RTNA	77LAU	02
Eu (ppb)					
0.235	0.024		RTNA	76GAU	01
0.35			RTNA	77LAU	02
0.35			RTNA	82LAU	01
3.			ITNA	78CAP	01
140.		*	ITNA	80CRE	01
310.		*	ITNA	73NAD	01
F (ppb)					
	350000.	L*	14NAA	81WIL	01
40.	20.		ISE	83KNA	01
120.			ISE	83GLA	01
Fe (ppm)					
110.	5.	*	AA	75HIN	01
132.		*17	UU	74MAS	01
137.	5.	*	14NAA	81WIL	01
155.	49.	*11	AA	78GOR	01
186.	37.	*	AA	79MAN	01
205.		*	CPXRF	78UEM	01
209.	28.	*11	ICPES	82JON	01
220.	16.		RTNA	77MEL	01
226.		17	UU	74MAS	01
229.		17	UU	74MAS	01
230.	37.		FAA	77FUJ	01
236.	5.		RTNA	75LIE	01
236.	5.		RTNA	77LIE	01
240.		17	UU	74MAS	01
240.	7.		EXRF	80DYC	01
240.	12.		RTNA	77TJI	01
241.	8.	1	ICPES	78SUD	01
242.		17	UU	74MAS	01
243.	14.		FAA	81CLE	02
244.	6.		ICPES	79MCQ	01
244.	2.		ICPES	79MCQ	02
244.	10.		AA	79MCQ	01
247.3			AA	79LOC	01
248.	16.		CPXRF	80MAE	01
249.			RTNA	75STE	02
250.	22.		ITNA	77HAM	01
250.	12.		CPXRF	78VIS	01
252.	25.		ICPES	81BLA	01
252.			ITNA	79KUC	01
253.			FAA	78CAP	01
254.			ICPES	78CAP	01
255.	8.		ITNA	79SAT	01
255.	30.		ITNA	78FUR	01
255.	15.		ITNA	79ZEI	01
256.	3.		AA	80IID	01
256.			OES	75BOL	02
256.	3.	1	AA	77UCH	02
256.	32.		CPXRF	79MAN	01
257.	30.	32	CPXRF	77CRO	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
257.			ITNA	78CAP	01
258.		7	RTNA	81KUC	01
258.	10.	11	ICPES	82JON	01
259.	12.	11	ICPES	81BLA	02
260.9	12.89		NAA	76GUZ	01
262.			ITNA	73NAD	01
262.	7.		ICPES	78JAC	01
262.	13.		ICPES	79ABE	01
262.	10.		FAA	81CLE	01
263.	12.		CPXRF	81ROB	02
264.	3.	11	ICPES	82JON	01
264.	29.		ITNA	78BEH	01
264.	6.	11	ICPES	82JON	01
265.	19.		ITNA	81KRI	01
265.	5.		GC	81BLA	01
265.	11.		RTNA	79WAR	02
265.	25.		NAA	78GAN	01
265.	16.		ITNA	74WES	01
265.	30.		ITNA	79CHA	02
266.	9.		ICPES	80SCH	05
266.	10.	11	AA	74WES	01
266.	10.	11	AA	78GOR	01
266.	5.	11	ICPES	81BLA	02
267.	5.		EXRF	79GIA	01
268.	24.		EXRF	77NIE	01
268.	38.		VV	79LAK	01
268.	25.	1	ICPES	78SUD	01
269.	10.		ICPES	81KNA	01
270.			ICPES	78DAH	01
270.	47.		ITNA	74DON	01
270.	12.		ITNA	73COR	01
270.	20.		NAA	77GIL	01
270.	12.		COLOR	78GOR	01
271.	27.		ITNA	81MOL	01
271.5	11.5	34	CPXRF	78JOL	01
272.	3.		AA	82TIN	01
272.	15.	7	RTNA	81KUC	01
272.	71.		XRF	77SMI	04
272.	27.		RTNA	76GAU	01
272.	9.5	11	AA	74WES	01
273.	9.		FAA	81CHA	01
273.	8.5	6	CPXRF	77WIL	03
273.	5.		ITNA	80MAE	01
274.	5.		AA	80UCH	01
274.5	28.		PAA	76KAT	04
276.	2.	1	AA	77UCH	02
276.			FAA	75SLA	01
277.	2.		ITNA	74LIN	01
277.9	16.7	6	ITNA	74BEC	01
278.			AA	80EVA	01
278.	14.		CPAA	77ZIK	01
279.	20.		RTNA	77GIL	03
280.	30.		ITNA	77ZIK	01
282.			ICPES	80HAA	01
283.	60.		CPAA	78MCG	01
283.	68.		CPXRF	76ZEI	01
285.		17	UU	74MAS	01
287.	17.		CPXRF	77WIL	02
289.	52.	32	CPXRF	77CRO	01
290.			ITNA	80CRE	01
293.	8.		ITNA	79DAS	01
293.	8.		RTNA	80SLO	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
293.		17	UU	74MAS	01
293.	21.	6	CPXRF	77WIL	03
310.	28.	*	RTNA	74SCH	03
315.		*	ITNA	77OSB	01
331.		*17	UU	74MAS	01
334.	10.	*	14NAA	81WIL	02
350.	64.	*	RTNA	77KUS	01
364.		*17	UU	74MAS	01
1395.		*	AE+AF	79ULL	01
1433.		*17	UU	74MAS	01
Ga (ppb)					
	20000.	L*	14NAA	81WIL	02
	500.	L*	EXRF	79GIA	01
	240.	L*	IENA	78WAN	01
4.			RTNA	74HEN	01
1100.	700.		CPXRF	77WIL	02
Gd (ppb)					
	1.4	L*	RTNA	76GAU	01
1.8			RTNA	82LAU	01
2.4			RTNA	77LAU	02
Ge (ppb)					
	400.	L*	EXRF	79GIA	01
H (%)					
6.8	0.3		TCGS	79FAI	01
7.	0.1	35	TCGS	79GLA	04
7.12	0.1		CB	80SCH	02
Hf (ppb)					
1.			RTNA	80SLO	01
7.3			ITNA	80CRE	01
Hg (ppb)					
	20.	L*	ITNA	73NAD	01
	200.	L*	ITNA	74GUI	01
	400.	L*	CPXRF	78JOL	01
	800.	L*	EXRF	79GIA	01
13.7	1.4	14	FAA	74CHU	01
14.	2.		FAA	79STO	01
14.	2.		CVAA	78MAT	01
14.5	1.7		RTNA	72RAI	01
14.5	3.4		RTNA	72ROO	01
14.5	3.4		RTNA	72ROO	02
14.7			RTNA	75STE	02
15.	2.		MPOES	81TAN	01
15.	4.		RTNA	74SCH	03
15.8	5.1	14	FAA	74CHU	03
16.	2.		FAA	77GLA	03
16.	1.2		FAA	72ROO	01
16.			CVAA	82GLA	02
16.	3.		CVAA	80TON	01
16.	3.	7	RTNA	81KUC	01
16.	1.6		RTNA	79MAY	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
16.	5.		CVAA	80KOR	01
16.		7	RTNA	81KUC	01
16.	2.		AA	79FLA	02
16.	2.		RTNA	77TJI	01
16.			CVAA	79TAG	01
16.	1.		RTNA	74BYR	03
16.2	3.	14	FAA	74CHU	03
16.4	4.3		NAA	76GUZ	01
16.4	0.4		RTNA	74HEN	01
16.5	0.8		CVAA	72RAI	01
16.8	1.8	5	RTNA	80GRE	01
17.	2.		RTNA	79WAR	02
17.	2.		RTNA	74ORV	01
17.	4.	2	CVAA	79KNE	01
17.3	2.8	5	RTNA	80CRE	01
17.4	2.		RTNA	82GRI	01
18.	3.		RTNA	75LIT	01
18.	2.		RTNA	79CHA	02
20.	2.		CVAA	77AND	01
20.			UU	74FEL	01
20.		17	UU	74MAS	01
22.	1.	*	RTNA	75LIE	01
22.1	6.3	*14	FAA	74CHU	03
22.3	1.3	*	RTNA	77LIE	01
30.	10.	*	FAA	78EGA	01
41.		*17	UU	74MAS	01
47.	4.	*	RTNA	77MEL	01
200.	21.	*	ITNA	75LIT	01
Ho (ppb)					
	0.94	L*	RTNA	76GAU	01
0.2			RTNA	82LAU	01
0.25			RTNA	77LAU	02
I (ppb)					
180.	12.		RTNA	77ROO	01
200.	10.		RTNA	79WAR	02
220.	30.		ITNA	79CHA	02
221.8	14.8		RTNA	80GVA	01
246.	11.	35	RTNA	81ALL	01
249.	12.		RTNA	81STR	01
249.	12.	34	RTNA	81ALL	01
270.	30.		IENA	82SAT	01
280.			NAA	79HEC	01
In (ppb)					
	1000.	L*	RTNA	76GAU	01
0.05			RTNA	74RAV	01
0.09	0.01		RTNA	78KOB	01
K (%)					
0.5	0.07	*	CPXRF	80MAE	01
0.63	0.11	*	14NAA	81WIL	01
0.667	0.066	*	RTNA	74SCH	03
0.7		*	CPXRF	78UEM	01
0.725	0.789	R*	ITNA	79IMA	03
0.725	0.789	R*	ITNA	79IMA	01
0.742			ITNA	78CAP	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
0.753		17	UU	74MAS	01
0.821		17	UU	74MAS	01
0.84	0.13	32	CPXRF	77CRO	01
0.87	0.13		ITNA	83GLA	01
0.875			ITNA	80CRE	01
0.904		17	UU	74MAS	01
0.91	0.08		RTNA	79WAR	02
0.92	0.028		CPXRF	81ROB	02
0.92		1	IENA	79KUC	01
0.93	0.05		CPXRF	77WIL	02
0.93	0.11		EXRF	77NIE	01
0.935			ITNA	82AKA	01
0.94	0.05		ITNA	80MAE	01
0.948		17	UU	74MAS	01
0.948		17	UU	74MAS	01
0.95	0.05		CPXRF	80KIR	01
0.96			ITNA	73NAD	01
0.96			ITNA	79KUC	01
0.96	0.06		AA	74WES	01
0.964			CPXRF	76ZEI	01
0.964	0.004		CPAA	78MCG	01
0.969	0.022		FE	80UCH	01
0.969	0.091		PAA	76KAT	04
0.969	0.078		ITNA	74DON	01
0.969	0.09		ITNA	79CHA	02
0.97	0.05	11	ICPES	82JON	01
0.98		17	UU	74MAS	01
0.98	0.1		ITNA	82EHM	01
0.987		17	UU	74MAS	01
0.99	0.02	11	ICPES	82JON	01
0.992	0.022		AA	75HIN	01
0.998	0.064		NAA	76GUZ	01
1.			ITNA	77OSB	01
1.	0.03		TCGS	79FAI	01
1.006		1	AA	78SZY	01
1.01	0.18		ITNA	77HAM	01
1.015		1	AA	78SZY	01
1.02	0.012		ITNA	78FUR	01
1.021	0.048	34	CPXRF	78JOL	01
1.032	0.025		RTNA	75LIE	01
1.032	0.025		RTNA	77LIE	01
1.04	0.03		ITNA	74WES	01
1.06		35	ITNA	81GLA	04
1.06	0.08		NAA	78GAN	01
1.087	0.124		CPXRF	79MAN	01
1.12	0.02		ITNA	80SLO	01
1.13	0.04		EXRF	80DYC	01
1.18	0.1	*	14NAA	81WIL	02
La (ppb)					
10.	1.		RTNA	74HEN	01
12.	9.		RTNA	74SCH	03
14.	5.		RTNA	80SLO	01
17.			RTNA	82LAU	01
17.			RTNA	77LAU	02
17.			RTNA	75LIE	01
17.3	0.4		RTNA	77LIE	01
20.			ITNA	73NAD	01
24.5	1.2	*	RTNA	76GAU	01
62.	5.	*	ITNA	79CHA	02
70.		*	ITNA	78CAP	01
72.		*	ITNA	80CRE	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Lu (ppb)					
	0.1	L*	RTNA	76GAU	01
0.039			RTNA	77LAU	02
0.039			RTNA	82LAU	01
Mg (ppm)					
	550.	L*	ITNA	80SLO	01
290.	40.	*	14NAA	81WIL	01
332.	541.	R*	ITNA	79IMA	01
332.	541.	R*	ITNA	79IMA	03
516.		*17	UU	74MAS	01
517.		*17	UU	74MAS	01
555.	21.	1	ICPES	78SUD	01
566.			FAA	78CAP	01
566.	10.		AA	79MCQ	01
567.			AA	79LOC	01
573.	4.		ICPES	79MCQ	02
573.	17.		ICPES	79MCQ	01
580.	20.		CPXRF	80KIR	01
590.	40.		ICPES	79ABE	01
593.	10.	1	AA	77UCH	02
593.	10.		AA	80IID	01
595.	6.	6	AA	76HOW	01
596.5	13.5		PAA	76KAT	04
597.	10.		AA	75HIN	01
598.	50.		ITNA	77ZIK	01
598.	14.		ITNA	75PIE	01
600.	9.	1	AA	77UCH	02
601.	6.	6	AA	76HOW	01
602.	11.		AA	80UCH	01
604.6	26.84		NAA	76GUZ	01
605.	32.		AA	74WES	01
608.	6.		RTNA	79WAR	02
608.	6.		ITNA	79WAR	01
609.			AE+AF	79ULL	01
610.	15.		FAA	79WAR	01
613.			ICPES	78CAP	01
620.	20.		ITNA	79CHA	02
636.			ICPES	78DAH	01
657.	9.	11	ICPES	82JON	01
659.	82.		ITNA	74WES	01
660.	20.	11	ICPES	82JON	01
668.	42.		AA	79LAK	01
674.		17	UU	74MAS	01
684.	110.		ITNA	78FUR	01
700.	20.		14NAA	81WIL	02
700.	130.		ITNA	77HAM	01
712.	98.	*1	ICPES	78SUD	01
949.		*	ITNA	78CAP	01
1040.		*	ITNA	73NAD	01
Mn (ppm)					
5.3	0.72	*6	ITNA	74HOF	01
8.	1.	*	CPXRF	80MAE	01
8.4	2.1		CPXRF	80KIR	01
8.73			FAA	77SHE	02
9.	0.37		FAA	74GKO	01
9.	0.7		VV	80SCH	05
9.	2.2	6	CPXRF	77WIL	03
9.12		17	UU	74MAS	01
9.14			ITNA	73NAD	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
9.2	0.9	11	ICPES	81BLA	02
9.2	0.7		AA	79FLA	02
9.2	1.8	6	CPXRF	77WIL	03
9.26	0.85		RTNA	79PLA	01
9.3			ITNA	82AKA	01
9.4	1.1		EXRF	79GIA	01
9.42		17	UU	74MAS	01
9.5	0.7	11	ICPES	81BLA	02
9.5	0.5		ITNA	82KIM	01
9.5	1.4		CPXRF	77WIL	02
9.5		17	UU	74MAS	01
9.6	0.5		RTNA	77KUS	01
9.6	0.4		RTNA	74HEN	01
9.6	0.6	11	FAA	74WES	01
9.7			ICPES	78CAP	01
9.7	0.8	11	ICPES	82JON	01
9.7	0.3	1	ICPES	78SUD	01
9.77	0.79		ITNA	74DON	01
9.8	1.1		FAA	82GRO	01
9.9			ICPES	78DAH	01
9.9		17	UU	74MAS	01
9.9	0.47		ITNA	74WES	01
10.		35	ITNA	81GLA	04
10.	2.		EXRF	80DYC	01
10.	1.		ICPES	79MCQ	01
10.		11	AA	81MOH	01
10.	0.5		NAA	78GAN	01
10.			FAA	75SLA	01
10.	1.		ICPES	79MCQ	02
10.	5.		AA	76LAN	01
10.	0.7		ITNA	79WAR	01
10.	1.3		ICPES	79ABE	01
10.	0.7		RTNA	79WAR	02
10.	0.6	6	ITNA	74HOF	01
10.1	1.2		CPXRF	81ROB	02
10.1	0.2		ITNA	80SLO	01
10.1	1.1		ITNA	79SAT	01
10.1	0.1		AA	82CLE	01
10.1	3.6		EXRF	77NIE	01
10.1	0.5	11	RTNA	74WES	01
10.15	2.15		PAA	76KAT	04
10.17	0.69		NAA	76GUZ	01
10.2	0.1		AA	80IID	01
10.2			ASV	80CHR	01
10.2	1.	1	AA	77UCH	02
10.2	0.2		AA	75HIN	01
10.2		17	UU	74MAS	01
10.2	0.45	11	RTNA	74WES	01
10.2		17	UU	74MAS	01
10.23	0.43		RTNA	74RAV	01
10.3	0.3		FAA	82CLE	01
10.3	0.3		FAA	81CLE	02
10.3	0.2		ITNA	82EHM	01
10.3	0.77		ITNA	77HAM	01
10.3	0.8		RTNA	76GAU	01
10.3	0.36	11	FAA	74WES	01
10.4			AA	82CLE	01
10.4	0.3	1	AA	77UCH	02
10.4	0.4	11	ICPES	82JON	01
10.4	0.2		FAA	82CLE	01
10.4	0.4		RTNA	77BUO	01
10.4	0.6	11	FAA	75SME	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
10.4			FAA	78CAP	01
10.4	1.1		RTNA	74SCH	03
10.4	0.23		FAA	75PIC	01
10.5	0.6		ITNA	83GLA	01
10.5	0.3	11	ICPES	82JON	01
10.5	1.1		ITNA	79CHA	02
10.5	16.	6	FAA	76LAN	01
10.6	0.7		FAA	81CLE	01
10.6	1.1		ITNA	78FUR	01
10.7	0.3		ITNA	80MAE	01
10.8	0.8		FAA	79WAR	01
10.8	0.3		RTNA	82KIM	01
10.8	20.	6	FAA	76LAN	01
10.9	2.		XRF	77SMI	04
10.9	1.2		CPXRF	79MAN	01
10.9	1.5	34	CPXRF	78JOL	01
11.		11	AA	81MOH	01
11.		17	UU	74MAS	01
11.	0.4		FAA	81CHA	01
11.			AA	80EVA	01
11.2	0.5		RTNA	75LIE	01
11.2	0.5		RTNA	77LIE	01
11.2	1.4	1	ICPES	78SUD	01
11.4	0.8	11	FAA	75SME	01
11.5			ITNA	78CAP	01
11.5	13.7	R*	ITNA	79IMA	03
11.5		17	UU	74MAS	01
11.5	13.7	R*	ITNA	79IMA	01
11.7	0.7	MD	FAA	79WES	01
12.5	2.	D*	DCP	81REE	01
12.5	2.	*	DCP	79REE	01
13.	3.	*	ITNA	77ZIK	01
13.	6.	*	TCGS	79FAI	01
13.		*	AE+AF	79ULL	01
14.	1.	*	AA	79MCQ	01
14.2	1.8	*	FAA	77FUJ	01
19.	9.	*	CPXRF	78VIS	01
19.		*	XRF	80SUZ	02

Mo (ppm)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
	5.	L*	ICPES	78CAP	01
	510.	L*	ITNA	80TOU	01
2.		*	ICPES	79MCQ	02
2.	1.	*	CPAA	77ZIK	01
2.2	0.9		CPXRF	80KIR	01
2.5		17	UU	74MAS	01
2.5	0.1		ITNA	78FUR	01
2.6	0.4		14NAA	81WIL	01
2.8		17	UU	74MAS	01
2.95	0.27		RTNA	76GAU	01
2.97		17	UU	74MAS	01
3.	0.3		RTNA	77GIL	03
3.			ITNA	73NAD	01
3.	0.3		NAA	77GIL	01
3.04	0.18		IENA	75MAZ	01
3.06	0.7	34	CPXRF	78JOL	01
3.1	0.5	11	ICPES	82JON	01
3.1	0.03		RTNA	80KUL	01
3.1		1	IENA	79KUC	01
3.1			FAA	79BEN	01
3.12	0.26		RTNA	78NAD	01
3.19	0.14		RTNA	77LIE	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
3.19	0.14		RTNA	75LIE	01
3.2	0.1		RTNA	77DIK	01
3.2			ITNA	79KUC	01
3.23	0.09		SSMS	77PAU	01
3.3	0.3	11	RTNA	74WES	01
3.3	0.2		RTNA	79WAR	02
3.33			RTNA	75STE	02
3.4	0.2	7	RTNA	81KUC	01
3.4	0.7	5	ITNA	80TOU	01
3.4	0.1	11	ICPES	82JON	01
3.4	0.36		RTNA	82BYR	01
3.4	0.2		RTNA	80SLO	01
3.4		1	IENA	79KUC	01
3.4	0.15		FAA	74WES	01
3.42	0.11	11	RTNA	81COR	01
3.5	0.2	11	RTNA	74WES	01
3.5	1.5		CPXRF	77WIL	02
3.5	0.6		CPXRF	77RIN	01
3.6	0.7		RTNA	74SCH	03
3.6	0.9		CPXRF	80MAE	01
3.6	0.14	11	RTNA	81COR	01
3.7	0.4		14NAA	81WIL	02
3.71	0.25		RTNA	77TJI	01
3.78	0.356		NAA	76GUZ	01
3.8		7	RTNA	81KUC	01
3.8			ICPES	80HAA	01
4.1	0.4		CPXRF	78VIS	01
4.3	1.2	*	ITNA	79ZEI	01
4.9		*17	UU	74MAS	01
5.8	0.3	*	AA	79FLA	02
N (%)					
10.35	0.3		TCGS	79FAI	01
10.4	0.8	35	TCGS	79GLA	04
10.42	0.11		CB	80SCH	02
10.59	0.04		GRAV	74CAR	01
10.59	0.04	D*	GRAV	74CAR	05
10.81	0.24	D*	NT	74CAR	05
10.82	0.24		NT	74CAR	01
Na (ppm)					
1019.		*17	UU	74MAS	01
1152.	119.	*6	ITNA	74HOF	01
1600.	100.	*	14NAA	81WIL	01
1940.	30.		ITNA	80SLO	01
1980.	60.		ITNA	78FUR	01
2000.	150.		14NAA	81WIL	02
2000.	500.		CPXRF	80KIR	01
2040.			ITNA	80CRE	01
2176.	77.	6	ITNA	74HOF	01
2220.		17	UU	74MAS	01
2227.	200.		ITNA	77ZIK	01
2230.	210.		ITNA	77HAM	01
2250.			ITNA	83GLA	01
2250.		17	UU	74MAS	01
2260.	370.		ITNA	77JUR	02
2280.		1	IENA	79KUC	01
2280.	300.		ITNA	82SCH	05
2300.	2850.	R*	ITNA	79IMA	03
2300.	2850.	R*	ITNA	79IMA	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
2310.			ITNA	79KUC	01
2320.	300.		ICPES	79ABE	01
2320.	40.		AA	75HIN	01
2330.	60.		ITNA	74WES	01
2340.		17	UU	74MAS	01
2355.			ITNA	82AKA	01
2370.	40.		PAA	76KAT	04
2370.		17	UU	74MAS	01
2400.			ITNA	73NAD	01
2400.	200.		AA	74WES	01
2400.		35	ITNA	81GLA	03
2410.	10.		RTNA	74HEN	01
2420.	50.		FE	80UCH	01
2425.		17	UU	74MAS	01
2426.	130.		ITNA	74DON	01
2430.	150.		ITNA	79CHA	02
2438.			ITNA	78CAP	01
2440.	160.		RTNA	79WAR	02
2455.		1	AA	78SZY	01
2530.	120.		NAA	78GAN	01
2540.		1	AA	78SZY	01
2550.		35	ITNA	81GLA	04
2550.	190.		ITNA	78BEH	01
2570.		1	IENA	79KUC	01
2570.		17	UU	74MAS	01
2609.	142.		NAA	76GUZ	01
2632.	29.		RTNA	77LIE	01
2632.	29.		RTNA	75LIE	01
2768.	156.		RTNA	74SCH	03
3100.		*	ITNA	77OSB	01
3100.	600.	*	TCGS	79FAI	01
Nd (ppb)					
9.			RTNA	82LAU	01
14.5			RTNA	77LAU	02
170.	40.		RTNA	76GAU	01
Ni (ppb)					
	9000.	L*	14NAA	81WIL	01
	500.	L*	EXRF	77NIE	01
	60.	L*	ICPES	82JON	01
	720.	L*	RTNA	81KUC	01
	1000.	L*	RTNA	77MEL	01
	500.	L*	ITNA	75PIE	01
	60.	L*	ICPES	82JON	01
	800.	L*	EXRF	79GIA	01
	500.	L*	NAA	76GUZ	01
	500.	L*	ICPES	79ABE	01
	700.	L*	RTNA	76GAU	01
50.			AA	78EVA	01
62.	18.		IENA	75MAZ	01
70.	30.		AA	79FLA	02
155.	19.		FAA	80DOR	01
180.	20.		PAA	79CHA	02
200.	30.		RTNA	79WAR	02
210.			ITNA	73NAD	01
227.			VOLT	81PIH	01
270.	120.		RTNA	77TJI	01
470.		*7	RTNA	81KUC	01
600.	400.	*	CPXRF	78VIS	01
700.	500.	*	CPXRF	77WIL	02

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
1000.	690.	*	AA	79MON	01
1000.	500.	*	RTNA	80SLO	01
1200.	100.	*	EXRF	80DYC	01
1300.	200.	*	CPXRF	79REN	02
P (%)					
0.31	0.1	*	CPXRF	79REN	02
0.64	0.06	*	14NAA	81WIL	01
0.816	0.64	*	EXRF	77NIE	01
0.905			NAA	78GAN	01
0.98			ICPES	78CAP	01
0.989	0.046	1	ICPES	78SUD	01
1.	0.026	1	ICPES	78SUD	01
1.04	0.06	6	FAA	81LAN	01
1.1	0.006		COLOR	79MCQ	01
1.1	0.02	6	FAA	81LAN	01
1.1	0.15		14NAA	81WIL	02
1.13	0.03		ICPES	79MCQ	01
1.16	0.03		ICPES	79ABE	01
1.18	0.03	11	ICPES	82JON	01
1.21	0.01	11	ICPES	82JON	01
1.3	0.1	*	CPXRF	80KIR	01
1.349	0.029	*	NAA	76GUZ	01
Pb (ppb)					
	11000.	L*	14NAA	81WIL	02
	1000.	L*	EXRF	77NIE	01
	500.	L*	AA	79MON	01
	3500.	L*	ICPES	78CAP	01
	1000.	L*	EXRF	79GIA	01
	500.	L*	ICPES	79ABE	01
240.	80.		FAA	77FUJ	01
250.			AA	78EVA	01
262.		17	UU	74MAS	01
280.	40.		AA	80AGE	01
300.	40.		FAA	78GRO	01
300.	300.	11	ICPES	82JON	01
300.	100.		CPXRF	78VIS	01
300.			FAA	79YAS	01
320.	13.		FAA	75PIC	01
320.	60.		FAA	79WAR	01
328.	16.	11	IDMS	74CHO	02
330.	10.		FAA	80POL	01
330.	700.		AA	76LAN	01
330.			AA	77FRI	01
330.	10.		FAA	79DAB	02
333.	67.	11	IDMS	74CHO	02
340.		11	FAA	81DAN	01
340.	40.		FAA	76HAD	01
340.	20.		AA	79FLA	02
343.	23.		AA	76ZAN	02
343.	23.		FAA	76KOI	01
350.	50.		FAA	81KNA	01
350.	50.		AA	80SCH	05
350.	40.		AA	79WAR	01
350.	15.		FAA	81CHA	01
350.	50.		FAA	75BEH	01
350.	22000.	6	FAA	76LAN	01
360.	25.	6	POL	72SIN	01
360.	30.		SSMS	77PAU	01
360.	30.		FAA	79STO	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
360.		11	FAA	81DAN	01
360.	12000.	6	FAA	76LAN	01
370.			ASV	82GAJ	01
380.			ICPES	80HAA	01
380.			FAA	82VAN	01
380.	76.		ASV	79STO	01
380.			ASV	74COP	01
380.			FAA	82HOE	01
390.		6	POL	72SIN	01
390.		11	ASV	81DAN	01
390.		11	ASV	81DAN	01
400.	50.		PAA	79CHA	02
400.	300.	11	ICPES	82JON	01
400.	100.		PAA	74LUT	01
420.	140.	34	CPXRF	78JOL	01
450.	30.		FAA	80LEG	01
460.	130.		FAA	74GRO	01
490.		6	FAA	81HIN	01
490.		6	FAA	82KOI	01
500.		*6	FAA	81HIN	01
500.		*	OES	75BOL	02
500.		*6	FAA	82KOI	01
520.		*17	UU	74MAS	01
3900.	1000.	*	CPXRF	77WIL	02
5000.		*	14NAA	81WIL	01
43000.	4000.	*	FAA	79WES	01
Pr (ppb)					
	3.	L*	RTNA	82LAU	01
4.			RTNA	77LAU	02
4.6	0.3		RTNA	76GAU	01
Rb (ppm)					
9.9	1.6	*	CPXRF	80MAE	01
15.	2.	*	14NAA	81WIL	02
15.	2.5	*34	CPXRF	78JOL	01
15.1	4.4	*	XRF	77SMI	04
16.5	1.2	5	ITNA	80TOU	01
16.6	2.8		RTNA	74SCH	03
16.7	3.2		CPXRF	81ROB	02
16.8	1.9	6	CPXRF	77WIL	03
16.8		1	IENA	79KUC	01
16.9			ITNA	79KUC	01
17.	1.		EXRF	80DYC	01
17.	3.		ITNA	77ZIK	01
17.4	1.8		NAA	78GAN	01
17.72	1.8		ITNA	81MOL	01
17.8			ITNA	78CAP	01
17.97	0.6		RTNA	75LIE	01
17.97	0.6		RTNA	77LIE	01
18.	0.8		ITNA	79SAT	01
18.	1.		CPXRF	77WIL	02
18.	0.3		RTNA	79WAR	02
18.			ITNA	77OSB	01
18.1	0.6		14NAA	81WIL	01
18.4	0.4		EXRF	79GIA	01
18.4	2.		ITNA	81KRI	01
18.5	0.4		ITNA	74LIN	01
18.62	0.95		NAA	76GUZ	01
18.7	0.9	5	ITNA	80TOU	01
18.7	1.		ITNA	73COR	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
18.7	1.5		ITNA	79CHA	02
18.7	0.5		ITNA	78FUR	01
18.7		17	UU	74MAS	01
18.7	3.6		EXRF	77NIE	01
18.8	1.4		ITNA	79LAK	01
18.8	1.3		RTNA	76GAU	01
18.95	1.65		PAA	76KAT	04
19.	1.6		ITNA	78BEH	01
19.			ITNA	80CRE	01
19.	1.6		ITNA	77JUR	02
19.	2.5		ITNA	77HAM	01
19.	1.		RTNA	77MEL	01
19.2	1.4		ITNA	80MAE	01
19.3	2.8		CPXRF	79MAN	01
19.5	2.1		ITNA	79ZEI	01
19.8	1.4	6	ITNA	74BEC	01
19.9		17	UU	74MAS	01
20.	2.4		CPXRF	80KIR	01
20.	3.		CPXRF	78VIS	01
20.1			ITNA	73NAD	01
20.9	2.5	6	CPXRF	77WIL	03
23.3		*17	UU	74MAS	01
23.4		*17	UU	74MAS	01
28.		*	CPXRF	76ZEI	01
28.		*17	UU	74MAS	01
29.	4.	*	CPAA	78MCG	01
S (ppm)					
3300.	1000.	*	CPXRF	79REN	02
7200.	400.		TCGS	77JUR	01
7200.	200.		TCGS	79FAI	01
9500.	700.		CPXRF	80KIR	01
16200.	2000.	*	ITNA	79CHA	02
Sb (ppb)					
	7.	L*	RTNA	81KUC	01
	20.	L*	ITNA	78CAP	01
	9.	L*	RTNA	81KUC	01
	50.	L*	RTNA	77GIL	03
	500.	L*	14NAA	81WIL	02
4.			RTNA	79MAY	01
4.	1.		RTNA	80SLO	01
4.			RTNA	75LIE	01
4.8	0.5		RTNA	77LIE	01
4.8	1.2		RTNA	79ROS	02
5.			HAA	79EVA	01
5.	2.		RTNA	79HOE	01
7.	5.		ITNA	78BEH	01
9.	3.		RTNA	74HEN	01
10.	2.		RTNA	78GAL	01
11.	9.		RTNA	74SCH	03
12.			ITNA	80CRE	01
14.	10.		ITNA	77ZIK	01
14.	5.		NAA	78GAN	01
15.	4.		RTNA	77TJI	01
16.	7.		ITNA	73COR	01
16.	2.		ITNA	79CHA	02
18.		17	UU	74MAS	01
22.9		17	UU	74MAS	01
26.	1.	*	RTNA	79WAR	02

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
34.		*	ITNA	73NAD	01
50.		*	ITNA	79KUC	01
55.	9.	*6	ITNA	74BEC	01
69.	24.	*6	ITNA	74BEC	01
70.		*1	IENA	79KUC	01
130.	170.	R*	ITNA	79IMA	01
130.	170.	R*	ITNA	79IMA	03
Sc (ppb)					
	1.	L*	RTNA	80SLO	01
	800.	L*	14NAA	81WIL	02
		L*	RTNA	75LIE	01
	0.5	L*	RTNA	77LIE	01
	1.	L*	RTNA	75STE	02
	4.	L*	ITNA	78CAP	01
	1.	L*	NAA	78GAN	01
0.4		17	UU	74MAS	01
0.6	0.1		RTNA	74HEN	01
1.			ITNA	73NAD	01
1.	0.9		RTNA	76GAU	01
1.1	0.3		ITNA	78BEH	01
1.1	0.1		RTNA	79WAR	02
20.	6.	*	RTNA	77MEL	01
Se (ppm)					
	2.	L*	14NAA	81WIL	01
	2.	L*	ITNA	74GUI	01
	1.55	L*	ITNA	80TOU	01
0.228	0.011	*	FLUOR	74IHN	02
0.4	0.27	*	FAA	81MEY	01
0.69	0.06	*	NAA	78GAN	01
0.75		*	FAA	74IHN	01
0.774		*	HAA	77IHN	01
0.9		11	FAA	82VER	03
0.91			FLUOR	78EGA	01
0.92	0.18	6	ITNA	74BEC	01
0.92	0.04		HAA	82SUB	01
0.95	0.03		HAA	78EGA	01
0.97	0.03		ICPES	80HAA	01
0.972			FLUOR	79TAM	01
0.98	0.03		DCP	81CAR	02
0.98	0.05		ITNA	76DIK	01
0.98	0.15	34	CPXRF	78JOL	01
0.98	0.06		AA	79PAV	02
0.98	0.03		GCMES	74TAL	02
0.98	0.01		HAA	76FIO	01
1.	0.2		CPXRF	80MAE	01
1.	0.1	11	HAA	82JON	01
1.		11	FAA	82VER	03
1.	0.01		ITNA	79SAT	01
1.			HAA	78WEL	01
1.		17	UU	74MAS	01
1.	0.02		FAA	76IHN	02
1.	0.4		CPXRF	78VIS	01
1.	0.1		RTNA	75ABU	01
1.	0.04		FAA	76IHN	01
1.01	0.04		ITNA	79CHA	04
1.02			ITNA	81HAN	01
1.02	0.03		RTNA	77LIE	01
1.02	0.438	5	RTNA	82TIN	01
1.02			ITNA	81MEY	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
1.02	0.04		HAA	80AGE	02
1.02	0.03	9	ITNA	81SUZ	01
1.02	0.03		RTNA	75LIE	01
1.02		17	UU	74MAS	01
1.03		6	FAA	77SHU	01
1.03	0.09		ITNA	81MOL	01
1.03	0.04	11	HAA	82JON	01
1.03	0.03		RTNA	77RAI	01
1.03	0.03		ITNA	79RAI	01
1.04	0.1		RTNA	80KNA	01
1.04	0.07		ITNA	74WES	01
1.04			FLUOR	74IHN	01
1.045	0.04		ITNA	77EGA	01
1.05	0.19		ITNA	79LAK	01
1.05	0.12		RTNA	80SLO	01
1.05		6	FAA	77SHU	01
1.05	0.05		HAA	80VIJ	01
1.053	0.051		COLOR	79SZY	02
1.06			FAA	78CAP	01
1.06	0.11	11	RTNA	82POL	01
1.06	0.1		RTNA	77TJI	01
1.06	0.06		RTNA	78GAL	01
1.069	0.016		ITNA	82DAM	01
1.07			RTNA	75STE	02
1.07	0.11		ITNA	78HIR	01
1.07	0.04		GC-MS	81REA	02
1.07	0.19		RTNA	79ROS	02
1.07	0.06	5	ITNA	81SUZ	01
1.07	0.1		RTNA	79MAY	01
1.07	0.18		RTNA	79PLA	01
1.08	0.12		ITNA	77GUI	02
1.08	0.01		ITNA	74LIN	01
1.08	0.015		FAA	80NEV	01
1.08	0.2		FAA	79RAI	01
1.08	0.05		ASV	76AND	01
1.08	0.13	6	ITNA	74BEC	01
1.09	0.06		HAA	81HAN	01
1.09	0.02	34	HAA	78FLA	01
1.09	0.08		RTNA	79WAR	02
1.09	0.02		AA	79FLA	02
1.09	0.05		RTNA	74ORV	01
1.1	0.06	11	GC	81UCH	02
1.1	0.06		FLUOR	80KOH	01
1.1	0.2		HAA	82MAY	01
1.1	0.05	11	GC	81UCH	02
1.1	0.1		GC	77POO	01
1.1		11	FAA	82VER	03
1.1	0.02		XRF	81KNA	01
1.1	0.1	9	ITNA	80WAN	01
1.1			ITNA	80CRE	01
1.1	0.17	9	ITNA	77VOB	01
1.1	0.2		EXRF	79GIA	01
1.1			ITNA	77OSB	01
1.1	0.13	11	RTNA	82POL	01
1.1	0.4	5	ITNA	80TOU	01
1.1	0.3		ITNA	79ZEI	01
1.1			FAA	77YAS	01
1.1	0.17	9	ITNA	79PAV	02
1.1	0.17	9	ITNA	77VOB	01
1.1			ITNA	78CAP	01
1.107	0.15		NAA	76GUZ	01
1.11	0.08	13	ITNA	73BLO	02
1.11	0.04		SSMS	77ROO	02

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
1.11	0.05		RTNA	74BYR	03
1.11	0.02		SSMS	77PAU	01
1.11	0.1		ITNA	79CHA	02
1.11	0.06		HAA	76IHN	02
1.12	0.1		ASV	81POS	01
1.12	0.08		RTNA	77ROO	02
1.12	0.08	11	RTNA	82POL	01
1.12	0.08		RTNA	72ROO	03
1.12	0.12	6	FLUOR	75OLS	01
1.12	0.075		HAA	81MEY	01
1.12	0.03		ASV	75AND	01
1.12	0.09	7	RTNA	81KUC	01
1.13		17	UU	74MAS	01
1.13	0.09		ITNA	73COR	01
1.133	0.122		ITNA	82MOR	02
1.14	0.05		ITNA	80MAE	01
1.14	0.11		ITNA	79PAV	02
1.14	0.11		ITNA	77VOB	01
1.14	0.091		HAA	82TAM	01
1.14	0.11		ITNA	77JUR	02
1.14	0.04		ITNA	78MCK	01
1.14	0.11		ITNA	78BEH	01
1.16			CSV	81HAN	01
1.17	0.06	6	FLUOR	75OLS	01
1.18	0.14		RTNA	74HEN	01
1.19	0.11	13	ITNA	73BLO	02
1.2	0.1		ITNA	80WAN	01
1.2		1	IENA	79KUC	01
1.2	0.1		ITNA	81KRI	01
1.2			ICPES	80HAA	01
1.2			ITNA	79KUC	01
1.2	0.16		HAA	81REA	01
1.2	0.155		ITNA	77HAM	01
1.2		7	RTNA	81KUC	01
1.2			FAA	77YAS	01
1.2	0.2		HAA	81COX	01
1.2	0.1		NAA	77GIL	01
1.2	0.1		CPXRF	77WIL	02
1.2	0.11		RTNA	77OMI	01
1.2	0.1		RTNA	77GIL	03
1.2	0.1		RTNA	77MEL	01
1.204	0.124		HAA	77IHN	03
1.22	0.04		COLOR	81TOE	01
1.23		17	UU	74MAS	01
1.24	0.04		GC	81TOE	01
1.26		17	UU	74MAS	01
1.26	0.15	5	FLUOR	81SUZ	01
1.3	0.4	*	RTNA	74SCH	03
1.4	0.1	*	EXRF	80DYC	01
1.4		*	FAA	82INU	01
1.4	0.5	*6	CPXRF	77WIL	03
1.7		*	ITNA	73NAD	01
1.7	0.1	*	ITNA	78FUR	01
7.65	0.277	5*	RTNA	82TIN	01
13.376	0.926	5*	RTNA	82TIN	01

Se(VI) (ppm)

0.3	0.07		GC	81TOE	01
0.31	0.11		COLOR	81TOE	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Si (ppm)					
16.7	0.67		ITNA	75PIE	01
16.79	1.84		NAA	76GUZ	01
Sm (ppb)					
1.	0.2		RTNA	74HEN	01
1.3	0.4		RTNA	80SLO	01
1.6			RTNA	82LAU	01
1.6			RTNA	77LAU	02
1.9	0.2		RTNA	76GAU	01
2.8		*	ITNA	80CRE	01
35.	24.	*	RTNA	74SCH	03
Sn (ppb)					
	240.	L*	RTNA	81KUC	01
	1500.	L*	ICPES	78CAP	01
	600.	L*	RTNA	75LIE	01
	600.	L*	RTNA	77LIE	01
10.			HAA	79EVA	01
21.	3.		RTNA	77BYR	01
220.	180.		ICPES	80HAA	01
Sr (ppb)					
	1000.	L*	EXRF	79GIA	01
	9000.	L*	14NAA	77VAN	01
150.	20.		RTNA	76GAU	01
160.			ICPES	78DAH	01
160.	20.		FAA	82SUZ	03
300.	60.		ICPES	79ABE	01
500.	180.	*34	CPXRF	78JOL	01
2000.	800.	*	14NAA	81WIL	02
Ta (ppb)					
3.			ITNA	80CRE	01
Tb (ppb)					
	1.6	L*	RTNA	76GAU	01
0.17			RTNA	82LAU	01
0.18			RTNA	77LAU	02
2.			ITNA	80CRE	01
Te (ppb)					
90.	15.		RTNA	77DIK	01
Th (ppb)					
	1000.	L*	EXRF	79GIA	01
3.	6.	R*	RTNA	80SLO	01
6.8			ITNA	80CRE	01
Ti (ppm)					
	4.	L*	14NAA	81WIL	02
	0.15	L*	ICPES	78CAP	01
	11.	L*	EXRF	79GIA	01
0.7	0.2		COLOR	82KIR	02

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
1.7	0.2		ICPES	79ABE	01
2.	1.		CPAA	77ZIK	01
3.2	1.		14NAA	81WIL	01
Tl (ppb)					
48.	3.		SSMS	77PAU	01
Tm (ppb)					
	0.3	L*	RTNA	76GAU	01
0.1			RTNA	82LAU	01
0.15			RTNA	77LAU	02
U (ppb)					
	20.	L*	ITNA	74WEA	01
	2000.	L*	EXRF	79GIA	01
	100.	L*	RTNA	76GAU	01
0.99	0.25	35	DNA	80GLA	04
1.	1.6		DNA	83GLA	01
20.	48.	R*	DNA	81GLA	03
V (ppb)					
	20.	L*	RTNA	77BUO	01
	40.	L*	ITNA	74HOF	01
	6000.	L*	EXRF	79GIA	01
	20.	L*	ITNA	74HOF	01
15.	5.	*	COLOR	82KIR	01
33.	3.		RTNA	79WAR	02
55.	1.		FAA	77MYR	01
56.	7.		UU	73STE	01
56.		17	UU	74MAS	01
58.6	1.6		RTNA	78BYR	01
59.			NAA	80KOS	02
60.	5.		RTNA	79CHA	02
60.			ICPES	80HAA	01
61.5	2.		RTNA	79COR	01
61.5	2.		RTNA	81COR	02
65.	2.		RTNA	82BYR	01
66.2	4.9		RTNA	78ALL	04
90.	60.	*11	ICPES	82JON	01
320.	80.	*	RTNA	77GUI	03
460.		*	ITNA	78CAP	01
500.	100.	*	ITNA	77ZIK	01
600.	100.	*	ICPES	79ABE	01
W (ppb)					
5.	3.		RTNA	74SCH	03
5.		17	UU	74MAS	01
12.			RTNA	76GAU	01
15.			RTNA	75STE	02
30.		17	UU	74MAS	01
700.	100.	*	RTNA	80SLO	01
Y (ppm)					
	14.	L*	14NAA	81WIL	01
	1.	L*	EXRF	79GIA	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Yb (ppb)					
0.28			RTNA	82LAU	01
0.285			RTNA	77LAU	02
0.48	0.09		RTNA	76GAU	01
830.		*	ITNA	73NAD	01
Zn (ppm)					
	12000.	L*	ITNA	80TOU	01
13.17	17.59	*	AA	79MON	01
32.		*	ASV	74COP	01
65.	15.	*	FAA	77FUJ	01
78.	25.	*	14NAA	81WIL	01
98.	122.	R*	ITNA	79IMA	01
98.	122.	R*	ITNA	79IMA	03
101.		*17	UU	74MAS	01
104.		*	CPXRF	78UEM	01
112.			XRF	80SUZ	02
112.	15.		ICPES	81BLA	01
112.6	1.1		FAA	81CLE	02
116.			ITNA	73NAD	01
116.	18.		CPXRF	80MAE	01
117.	13.		AA	79MAN	01
118.	4.	6	POL	72STN	01
118.		11	ASV	81DAN	01
118.	21.		RTNA	82KIM	01
118.2	7.8		IENA	75MAZ	01
119.		6	POL	72SIN	01
120.	6.	11	ICPES	81BLA	02
120.		17	UU	74MAS	01
121.9			RTNA	74RAV	01
122.	3.		NAA	78GAN	01
122.	9.		ITNA	79LAK	01
122.	3.		EXRF	80DYG	01
122.		11	FAA	81DAN	01
123.	5.		ITNA	74WES	01
123.	25.		ITNA	78FUR	01
123.8	1.2		FAA	74GRO	01
124.		6	POL	72SIN	01
124.	10.		ICPES	80SCH	05
124.	14.		CPXRF	79MAN	01
124.			ITNA	78CAP	01
124.		17	UU	74MAS	01
124.	7.		FAA	74TAL	01
124.	7.	7	AA	73TAL	01
124.	7.3	11	RTNA	74WES	01
124.4			RTNA	75HAL	01
125.	5.		NAA	77GIL	01
125.			ITNA	79KUC	01
125.	5.		RTNA	77GIL	03
125.	2.		AA	79FLA	02
125.	16.		ITNA	77HAM	01
125.			RTNA	75STE	02
125.7	10.6	34	CPXRF	78JOL	01
126.	5.		ITNA	81MOL	01
126.	71.		ITNA	82KIM	01
126.	2.		ITNA	80MAE	01
126.	8.		FAA	79WAR	01
126.	4.		SSMS	77PAU	01
126.	9.		RTNA	74ORV	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
126.			FAA	75SLA	01
126.	4.		FAA	74TAL	01
126.	4.	7	AA	73TAL	01
127.	9.		ITNA	81KRI	01
127.		11	FAA	81DAN	01
127.		1	IENA	79KUC	01
127.	1.		RTNA	80SLO	01
127.	8.	11	RTNA	74WES	01
127.	4.		AA	80UCH	01
127.9	9.1	6	ITNA	74BEC	01
128.		7	RTNA	81KUC	01
128.	14.		CPAA	77ZIK	01
128.	5.		ITNA	79SAT	01
128.	10.		CPXRF	80KIR	01
128.	7.		RTNA	79DER	01
128.	14.		EXRF	77NIE	01
128.	3.6	11	AA	74WES	01
128.	3.		FAA	81CLE	01
128.	12.		ITNA	79CHA	02
128.	6.		AA	75HIN	01
128.			DCP	78NAK	01
128.6	0.7		ITNA	82DAM	01
128.6			AA	79LOC	01
129.			ICPES	80HAA	01
129.	3.		ITNA	74DON	01
129.	16.	32	CPXRF	77CRO	01
129.			ITNA	80CRE	01
129.		1	IENA	79KUC	01
129.	4.		ITNA	79WAR	01
129.	4.		RTNA	79WAR	02
130.		11	AA	81MOH	01
130.	4.	11	ICPES	81BLA	02
130.	5.	1	ICPES	78SUD	01
130.			OES	75BOL	02
130.	7.		CPXRF	78VIS	01
131.	1.4		AA	80AGE	01
131.	13.5		PAA	76KAT	04
131.	2.		ICPES	79MCQ	01
131.		17	UU	74MAS	01
131.	1.		ICPES	79MCQ	02
131.	1.		AA	75ABU	01
131.	1.		AA	75EPS	01
131.8	6.5		ITNA	73COR	01
132.	3.3	6	CPXRF	77WIL	03
132.	5.		AA	79MCQ	01
132.	6.	7	RTNA	81KUC	01
132.	7.		AA	80IID	01
132.	1.		AF	75EPS	01
132.	3.		GC	81BLA	01
132.	7.	1	AA	77UCH	02
133.	7.		ITNA	77JUR	02
133.		11	ASV	81DAN	01
133.	7.		ITNA	78BEH	01
133.	6.		ICPES	78JAC	01
133.9	6.8		ITNA	79ZEI	01
134.	2.		RTNA	77MEL	01
134.	7.	11	ICPES	82JON	01
134.	4.	1	AA	77UCH	02
134.	2.		EXRF	79GIA	01
134.	5.		RTNA	77TJI	01
134.	7.2		RTNA	79PLA	01

TABLE L (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
134.	6.	11	ICPES	82JON	01
134.	10.		FAE	74TAL	01
134.	3.		AA	79WAR	01
134.	5.	7	AE+AF	73TAL	01
134.	5.		FAE	74TAL	01
134.	10.	7	AE+AF	73TAL	01
134.		17	UU	74MAS	01
135.	5.		RTNA	77LIE	01
135.	2.	11	ICPES	82JON	01
135.			ICPES	78CAP	01
135.			AE+AF	79ULL	01
135.	5.		RTNA	75LIE	01
135.	4.	11	ICPES	82JON	01
135.		17	UU	74MAS	01
135.	1.		ITNA	74LIN	01
136.	6.		RTNA	76GAU	01
136.	9.		RTNA	74HEN	01
136.		17	UU	74MAS	01
137.	9.	5	ITNA	80TOU	01
137.	4.		ITNA	74GUI	01
137.2	5.75		NAA	76GUZ	01
139.		17	UU	74MAS	01
140.		11	AA	81MOH	01
140.			ITNA	77OSB	01
140.			ICPES	78DAH	01
140.	16.		RTNA	77KUS	01
140.	29.		XRF	77SMI	04
141.	2.		DCP	79REE	01
141.	2.	D*	DCP	81REE	01
141.	16.	5	RTNA	74SCH	03
141.7	5.3	6	ITNA	74BEC	01
142.			AA	80EVA	01
142.	11.		ITNA	77ZIK	01
143.	19.		ICPES	79ABE	01
144.	12.	6	CPXRF	77WIL	03
145.			FAA	78CAP	01
145.	5.		CPXRF	77WIL	02
145.5			ITNA	82AKA	01
147.	7.3	11	AA	74WES	01
148.	74.		CPXRF	76ZEI	01
148.	15.		CPAA	78MCG	01
150.	10.		PAA	76WIL	01
156.	6.2	*	CPXRF	81ROB	02
157.	20.	*	ICPES	78SUD	01
159.	8.	*	RTNA	74SCH	03
160.		*17	UU	74MAS	01
160.		*17	UU	74MAS	01
162.	31.	*32	CPXRF	77CRO	01
200.	40.	*	14NAA	81WIL	02
Zr (ppm)					
	3.	L*	EXRF	79GIA	01
	0.5	L*	14NAA	81WIL	02
	3.	L*	14NAA	81WIL	01
3.4	0.4		PAA	79CHA	02
4.	3.		CPAA	77ZIK	01

TABLE M

NBS SRM 1621—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
S (%)					
0.9	0.1		MECA	80MCC	01
0.99	0.03		IC	80MCC	01
1.05	0.03		TITR	80MCC	01
1.06			XRF	80MCC	01

TABLE N

NBS SRM 1621A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
S (%)					
0.89	0.07		POL	81REL	01
0.93	0.02		ICPES	81WAL	02
0.931	0.01		IC	82VIS	01
0.945	0.014		TITR	82VIS	01
0.97	0.009	6	EXRF	81CHR	01
0.973	0.008	6	EXRF	81CHR	01

TABLE O

NBS SRM 1622A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
S (%)					
1.6	0.1		POL	81REL	01
1.948	0.018	6	EXRF	81CHR	01
2.011	0.015	6	EXRF	81CHR	01
2.02	0.02		ICPES	81WAL	02

TABLE P

NBS SRM 1623—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
S (ppm)					
2600.	200.		MECA	80MCC	01
2650.	40.		IC	80MCC	01
2700.			XRF	80MCC	01
2900.	500.		TITR	80MCC	01

TABLE Q

NBS SRM 1624—COLLECTED DTA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
S (ppm)					
1900.	100.		ICPES	81WAL	02
2030.	50.		TITR	82VIS	01
2080.	210.		IC	82VIS	01
2200.	200.		POL	81REL	01

TABLE R

NBS SRM 1630—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (ppm)					
5300.			VV	77GLU	01
As (ppm)					
19.			VV	77GLU	01
Ash (%)					
2.2			CB	77GLU	01
B (ppm)					
5.			VV	77GLU	01
Be (ppm)					
1.			VV	77GLU	01
Br (ppm)					
29.			VV	77GLU	01
37.			ITNA	74TAM	01
Ca (ppm)					
700.			VV	77GLU	01
Cd (ppm)					
	0.2	L*	VV	77GLU	01
Cl (ppm)					
2220.			VV	77GLU	01
Co (ppm)					
3.6	0.18		ITNA	74TAM	01
6.			VV	77GLU	01
Cr (ppm)					
7.1	0.35		ITNA	74TAM	01
8.			VV	77GLU	01

TABLE R (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Cu (ppm)					
16.			VV	77GLU	01
F (ppm)					
25.			VV	77GLU	01
Fe (%)					
0.51	0.02		ITNA	74TAM	01
1.04			VV	77GLU	01
Ga (ppm)					
1.07	0.04		RTNA	72SAN	01
1.1			VV	77GLU	01
Ge (ppm)					
1.			VV	77GLU	01
H2O- (%)					
0.4			GRAV	77GLU	01
Hg (ppb)					
104.	6.		CVAA	80NAD	01
105.			RTNA	74RIC	01
105.	30.		RTNA	72LYO	01
106.			ITNA	74RIC	01
118.	11.		FAE	76CAV	01
120.	10.		CVAA	73LO	01
124.	11.		CVAA	82DOO	01
125.	10.		CVAA	75WIM	01
127.	6.		RTNA	72RAI	01
127.	5.		RTNA	74ORV	01
127.	12.		RTNA	72ROO	01
130.	10.		RTNA	75LIT	01
130.	10.		ITNA	74TAM	01
135.			OES	75PEC	01
136.	7.		FAA	82UCH	02
139.	12.		FAA	72ROO	01
139.	7.		CVAA	72RAI	01
140.			VV	77GLU	01
150.			CVAA	75MUR	01
486.	60.	*	ITNA	75LIT	01
K (ppm)					
800.			VV	77GLU	01
La (ppm)					
4.4			ITNA	74TAM	01
Mg (ppm)					
200.			VV	77GLU	01

TABLE R (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Mn (ppm)					
6.			VV	77GLU	01
Mo (ppm)					
2.			VV	77GLU	01
Na (ppm)					
320.			VV	77GLU	01
490.			ITNA	74TAM	01
Ni (ppm)					
10.			VV	77GLU	01
P (ppm)					
17.			VV	77GLU	01
Pb (ppm)					
4.			VV	77GLU	01
S (%)					
1.07			CB	77GLU	01
1.37			XRF	77GLU	01
Sb (ppm)					
0.6			VV	77GLU	01
1.7	0.51		ITNA	74TAM	01
Sc (ppm)					
1.4	0.06		ITNA	74TAM	01
Se (ppm)					
2.			VV	77GLU	01
2.09	0.06		RTNA	74ORV	01
2.11	0.09		RTNA	72ROO	03
2.11	0.09		RTNA	77ROO	02
2.12	0.09		ICPES	80HAA	01
2.6	0.21		ITNA	74TAM	01
Si (ppm)					
7200.			VV	77GLU	01
Sn (ppm)					
6.			VV	77GLU	01
Ti (ppm)					
500.			VV	77GLU	01
V (ppm)					
24.			VV	77GLU	01

TABLE R (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Zn (ppm)					
6.			VV	77GLU	01
Zr (ppm)					
21.			VV	77GLU	01

TABLE S

NBS SRM 1631A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
S (ppm)					
5260.	350.		TITR	80ARO	01
5460.			IC	77SMI	05
5490.			TITR	74HIC	01
5900.	400.		TCGS	77JUR	01

TABLE T

NBS SRM 1631B—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
S (%)					
1.92			TITR	74HIC	01
1.97			IC	77SMI	05
2.02	0.05		TCGS	77JUR	01
2.042	0.067		TITR	80ARO	01

TABLE U

NBS SRM 1631C—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
S (%)					
2.98	0.02		TCGS	77JUR	01
2.99			TITR	74HIC	01
3.09			IC	77SMI	05
3.117	0.097		TITR	80ARO	01

TABLE V

NBS SRM 1632—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppb)					
	200.	L*	ICPES	81CHU	01
	2500.	*34	WXRF	82MIL	01
	200.	L*	ITNA	77CAH	01
	220.	L*	ITNA	82SUZ	02
	140.	L*	ITNA	77MAE	01
	400.	L*	PAA	76CHA	01
	100.	L*	ITNA	75RUC	01
	150.	L*	OES	76WEW	01
45.	5.		RTNA	77NAD	02
60.	30.		ITNA	73ABE	01
60.	30.		ITNA	75OND	01
70.	34.		SSMS	77PAU	01
80.			AA	76WEW	01
1050.	100.	*	PAA	74CHA	01
Al (%)					
1.51	0.08		NAA	76HAN	01
1.57	0.155		ITNA	73SHE	01
1.57		4	AA	79REI	01
1.59	0.2		ITNA	76RAG	01
1.6			ICPES	80NAD	01
1.6	0.2	35	ITNA	81GLA	03
1.62	0.13		ITNA	78MAC	01
1.64			ICPES	80NAD	01
1.66			ICPES	80NAD	01
1.68	0.04	D*	TCGS	80AND	01
1.68	0.04		TCGS	79FAI	01
1.71	0.05		ITNA	77MAE	01
1.71	0.07		ITNA	78LAU	02
1.72	0.09		ITNA	75RIC	01
1.73	0.04		ITNA	76BLO	01
1.74	0.04		ITNA	77ROW	03
1.74	0.4		ITNA	76STE	05
1.76	0.31		ITNA	78NAD	02
1.76	0.31		ITNA	75NAD	02
1.78	0.08		ITNA	73ABE	01
1.8	0.18		ITNA	76WEW	01
1.82	0.06		ICPES	81CHU	01
1.85	0.08		ITNA	79GRE	01
1.85			ITNA	77WEA	01
1.85	0.13		ITNA	75OND	01
1.85	0.13		FAA	77PIL	01
1.86			ICPES	80NAD	01
1.9	0.19		ITNA	81WAN	01
1.9			ITNA	75KLE	01
2.1	1.05	*	OES	76WEW	01
2.21		*	ITNA	77GLU	01
3.	0.1	*	ITNA	82SUZ	02
As (ppm)					
	10.	L*	ICPES	81CHU	01
	6.	L*	ICPES	80NAD	01
	6.	L*	ICPES	80NAD	01
3.	2.	*	EXRF	73SPA	01
4.5	0.4	*	ITNA	75RIC	01
4.6	0.3		ITNA	78NAD	02
4.61	0.32		ITNA	75NAD	02
4.7	0.5		ITNA	78MAC	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
4.7	1.		EXRF	79GIA	01
5.	0.6	H	OES	80CLA	01
5.1	0.5		ITNA	76KUC	01
5.31			ICPES	81NAD	01
5.4	0.5		COLOR	77ARU	01
5.4	0.3		FAE	80DSI	01
5.4	0.1		IENA	78WAN	01
5.5			ITNA	75KLE	01
5.58	0.73		FAA	82BEN	01
5.6			FAA	78GUI	01
5.6	0.36		FAA	77ARU	01
5.6	0.2		ITNA	77ARU	01
5.7	0.2	H	FAE	79FEL	01
5.7	0.5		ITNA	73ABE	01
5.7			ITNA	77WEA	01
5.7	0.13		RTNA	75RUC	01
5.7			ITNA	77GLU	01
5.7	0.2		FAA	78HAY	01
5.75	0.37		PAA	74CHA	01
5.8	0.3		ITNA	77MAE	01
5.8	0.3		ITNA	76RAG	01
5.8	0.3		PAA	77JER	01
5.8	0.5		ITNA	76BLO	01
5.8	0.4		RTNA	74ORV	01
5.8	0.3		PAA	76CHA	01
5.9	0.4		ITNA	81WAN	01
5.9	0.3		ITNA	79GRE	01
5.9	0.5		ITNA	73SHE	01
6.	0.3		ITNA	78LAU	02
6.1	0.3		GCMES	75TAL	01
6.1	0.55		ITNA	77JER	01
6.1	1.4		ITNA	75OND	01
6.1	0.4		ITNA	77ROW	04
6.2	0.8	6	PAA	82SEG	01
6.2	1.3		ITNA	77CAH	01
6.27	0.89		RTNA	77JER	01
6.3	1.	6	PAA	82SEG	01
6.3	1.		PAA	80SEG	01
6.3	0.2		IENA	77ROW	04
6.4	0.2		IENA	77ROW	03
6.5	1.4	D*	NAA	74OND	01
6.5	0.5		ICPES	80HAA	01
6.5	1.2		IENA	76STE	05
6.5	0.3		NAA	76HAN	01
6.6		34	WXRF	82MIL	01
6.6	1.3		ITNA	76WEW	01
7.		*	AA	76WEW	01
8.	2.	*	PAA	75OND	01
8.9	0.2	*	ITNA	82SUZ	02
8.9	0.5	*	ITNA	75RUC	01
Ash (%)					
13.2		34	CB	82MIL	01
Au (ppb)					
	30.	L*	ITNA	73ABE	01
	300.	L*	ICPES	81CHU	01
	5000.	L*	OES	76WEW	01
	1.		ITNA	77CAH	01
	20.		ITNA	75RUC	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
0.85	0.03		RTNA	77NAD	02
0.99	0.16		RTNA	77NAD	01
146.	48.		ITNA	73SHE	01
200.			ITNA	77WEA	01
B (ppm)					
29.			ICPES	81NAD	01
30.	1.1		OES	76WEW	01
42.1	0.7	D*	TCGS	80AND	01
42.1	0.7		TCGS	79FAI	01
43.			VV	77GLU	01
47.	1.6	6	TCGS	76GLA	01
47.7	1.8	6	TCGS	76GLA	01
47.7	1.6	6	TCGS	76GLA	01
118.		*	ITNA	77GLU	01
Ba (ppm)					
87.	5.	*9	ITNA	82SUZ	02
104.	5.	*	ITNA	82SUZ	02
183.		*	ICPES	80NAD	01
256.			ICPES	80NAD	01
274.	31.		ITNA	76STE	05
280.			ITNA	75MIL	01
300.	60.		ITNA	78LAU	02
301.		34	WXRF	82MIL	01
302.	8.		ITNA	76RAG	01
306.	20.		IENA	77ROW	04
309.	24.		ITNA	77ROW	04
310.		35	ITNA	81GLA	03
310.	30.		ITNA	78MAC	01
311.	25.		ITNA	78NAD	02
311.	25.		ITNA	75NAD	02
314.	43.		ITNA	81WAN	01
314.	20.		PAA	74CHA	01
315.	20.		PAA	76CHA	01
320.	20.		NAA	76HAN	01
322.	20.		IENA	77ROW	03
337.	42.		ITNA	73SHE	01
338.	13.8		IENA	76STE	05
345.	70.		ITNA	76WEW	01
350.			ITNA	77WEA	01
350.	30.		ITNA	79GRE	01
350.	20.		ITNA	77MAE	01
352.	30.		ITNA	75OND	01
354.	84.		ITNA	79ROS	03
360.	20.	9	ITNA	78LAU	02
366.	34.		ITNA	75RUC	01
385.	40.		ITNA	77CAH	01
390.	20.		ITNA	73ABE	01
405.			ITNA	75KLE	01
410.	82.		OES	76WEW	01
Be (ppm)					
1.2	0.07	*	OES	76WEW	01
1.49	0.03		FLUOR	77WIC	01
1.5	0.1		FAA	75OWE	01
1.5			AA	76WEW	01
1.52	0.11	6	FAA	77GLA	02
1.57	0.12	6	FAA	77GLA	02

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
1.7		4	AA	79REI	01
1.7	0.03		ICPES	81CHU	01
1.7	0.4	35	FAA	76GLA	02
1.7			ITNA	77GLU	01
1.77			ICPES	80NAD	01
1.85		*	ICPES	80NAD	01
Bi (ppm)					
	1.	L*	WXRF	82MIL	01
	1.	L*	PAA	76CHA	01
	1.	L*	AA	76WEW	01
	1.5	L*	OES	76WEW	01
1.05			PAA	74CHA	01
Br (ppm)					
7.8	5.8	*	ITNA	81WAN	01
14.	2.		ITNA	76STE	05
14.2			ITNA	75KLE	01
15.	1.		ITNA	78MAC	01
15.2	1.4		ITNA	78NAD	02
15.2	1.4		ITNA	75NAD	02
16.2	1.	5	IENA	79GLA	02
16.6	0.6		NAA	76HAN	01
17.	2.		ITNA	73ABE	01
17.	1.		ITNA	78LAU	02
17.2			ITNA	76RAG	01
17.4	1.1		IENA	83GLA	01
17.5	0.3		EXRF	79GIA	01
17.9	0.3	5	IENA	79GLA	02
18.		34	WXRF	82MIL	01
18.	2.		ITNA	76KUC	01
18.2	2.3		ITNA	75RUC	01
18.8	2.4		ITNA	77CAH	01
19.	4.		ITNA	75RIC	01
19.2	0.6		ITNA	77ROW	04
19.2	1.2		ITNA	77MAE	01
19.3	1.9		ITNA	75OND	01
19.3			ITNA	77WEA	01
19.5	0.3		IENA	76STE	05
19.6	0.4		IENA	77ROW	03
19.6	0.4	D*	IENA	77ROW	04
20.	3.		ITNA	73SHE	01
20.	2.		ITNA	79GRE	01
20.			ITNA	77GLU	01
23.7	3.2	*	EXRF	73SPA	01
38.	1.	*	ITNA	82SUZ	02
C (%)					
68.93	0.11		CB	80SCH	02
69.6	2.1	35	CB	79GLA	04
70.	5.	D*	TCGS	80AND	01
70.	5.		TCGS	79FAI	01
73.	3.	35	TCGS	79GLA	04
Ca (ppm)					
	7000.	L*	ITNA	78LAU	02
2400.	600.	*	ITNA	82SUZ	02
2840.	80.		GAMMA	75OND	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
3300.	500.	D*	TCGS	80AND	01
3300.	500.		TCGS	79FAI	01
3500.	2800.		ITNA	77ROW	03
3500.	300.		ITNA	76STE	05
3700.	400.		NAA	76HAN	01
4000.			ICPES	80NAD	01
4030.	480.		14NAA	77VAN	01
4070.	560.		ITNA	73SHE	01
4100.	400.		ITNA	79GRE	01
4100.	500.		ITNA	81WAN	01
4140.	140.		ICPES	81CHU	01
4200.	400.		PAA	76CHA	01
4200.	300.		ITNA	77MAE	01
4200.	600.		ITNA	76RAG	01
4200.			ICPES	80NAD	01
4200.	500.		ITNA	75OND	01
4300.	200.		ITNA	78NAD	02
4300.	200.		ITNA	75NAD	02
4400.	900.		ITNA	76WEW	01
4400.			ITNA	75KLE	01
4500.			ICPES	80NAD	01
4700.	600.		PAA	75OND	01
4950.		4	AA	79REI	01
5000.			ICPES	80NAD	01
5100.	1000.		OES	76WEW	01
5300.		35	ITNA	81GLA	03
7000.		*	ITNA	77GLU	01
Cd (ppb)					
	3000.	L*	WXRF	82MIL	01
	2100.	L*	ITNA	73ABE	01
	200.	L*	ICPES	81CHU	01
	340.	L*	ITNA	82SUZ	02
	400.	L*	ITNA	77GLU	01
170.	36.		SSMS	77PAU	01
180.	20.	D*	TCGS	80AND	01
180.	10.		AF	75EPS	01
180.	40.	6	PAA	82SEG	01
180.	20.		TCGS	79FAI	01
180.	14.		AF	74RAI	01
190.			POL	74MAI	01
199.	20.		PAA	74CHA	01
200.	20.		PAA	77JER	01
200.	100.	6	PAA	82SEG	01
200.	20.		RTNA	77JER	01
200.	20.		PAA	76CHA	01
200.	50.	6	TCGS	76GLA	01
210.	10.		FAA	77GLU	01
210.	20.		FAA	74RAI	01
230.	21.	8	SSMS	80KOP	01
230.	10.		FAA	74TAL	01
230.	20.		RTNA	74ORV	01
230.	10.	7	AA	73TAL	01
240.	30.		FAA	74TAL	01
240.	30.	7	AA	73TAL	01
250.			FAA	78GUI	01
250.	70.		PAA	80SEG	01
310.			IDMS	75KLE	01
310.			AA	76WEW	01
400.	200.	*	SSMS	77DON	01
700.	350.	*	OES	76WEW	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ce (ppm)					
17.34	0.089		ITNA	73SHE	01
18.5			ITNA	75KLE	01
18.8	1.		ITNA	76RAG	01
19.	1.		ITNA	78LAU	02
19.5	1.		ITNA	75OND	01
19.5	0.7	D*	ITNA	77ROW	04
19.5	0.7		ITNA	77ROW	03
19.5	0.7		ITNA	77MAE	01
19.7	0.6		ITNA	78NAD	02
19.7	0.2		ITNA	76WEW	01
19.7	0.56		ITNA	75NAD	02
20.			ITNA	75MIL	01
20.	1.2		PAA	76CHA	01
20.1	3.7		ITNA	77CAH	01
21.	1.		ITNA	79GRE	01
21.2	3.5		ITNA	81WAN	01
21.5	1.7		NAA	76HAN	01
22.6	2.2		IENA	77ROW	04
22.8	0.5		ICPES	81CHU	01
23.			OES	82CUP	02
23.3	2.7		ITNA	75RUC	01
24.		34	WXRF	82MIL	01
26.	5.		ITNA	78MAC	01
29.	1.	*	ITNA	82SUZ	02
29.	1.	*12	ITNA	82SUZ	02
30.	15.	*	OES	76WEW	01
Cl (ppm)					
80.	20.	*	ITNA	73ABE	01
750.	75.		ITNA	73SHE	01
760.		35	ITNA	81GLA	03
800.	50.		ITNA	78MAC	01
810.		34	WXRF	82MIL	01
810.	30.		ITNA	82SUZ	02
817.	96.		ITNA	81WAN	01
828.	22.		ITNA	76RAG	01
844.	37.		ITNA	77ROW	03
844.	37.		ITNA	76STE	05
846.	44.		ITNA	75RUC	01
860.	54.		ITNA	77CAH	01
866.	40.		ITNA	75RIC	01
880.			ITNA	83GLA	01
890.			ITNA	77WEA	01
890.	50.		ITNA	79GRE	01
890.	100.		PAA	76CHA	01
890.	125.		ITNA	75OND	01
895.	15.	D*	TCGS	80AND	01
895.	15.		TCGS	79FAI	01
915.			ISE	81NAD	01
920.	30.		NAA	76HAN	01
930.	48.		PAA	74CHA	01
945.	35.		ITNA	75NAD	02
945.	35.		ITNA	78NAD	02
990.	20.		ITNA	77MAE	01
1000.			ITNA	75KLE	01
1000.			ITNA	77GLU	01
1177.		*	ISE	80NAD	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Co (ppm)					
3.9	0.2	*	ICPES	81CHU	01
4.7	0.32		OES	76WEW	01
4.8	0.3		ITNA	76BLO	01
4.9			ICPES	80NAD	01
5.		34	WXRF	82MIL	01
5.1	0.6		ITNA	78NAD	02
5.13	0.57		ITNA	75NAD	02
5.2	0.4		ITNA	73ABE	01
5.3	0.4		ITNA	76KUC	01
5.4		4	AA	79REI	01
5.46	0.2		ITNA	79ROS	03
5.48	0.15		ITNA	73SHE	01
5.5	0.3		ITNA	77CAH	01
5.5	0.4		PAA	74CHA	01
5.51	0.6		ITNA	76RAG	01
5.58	0.21		ITNA	75RUC	01
5.6	0.4		PAA	76CHA	01
5.7	0.1		ITNA	78LAU	02
5.7	0.4		ITNA	75OND	01
5.7	0.12		IENA	77ROW	04
5.7			ITNA	77WEA	01
5.7	0.12		ITNA	77ROW	03
5.78			ICPES	80NAD	01
5.8	0.6		ITNA	76WEW	01
5.9	0.5		AA	79ROS	03
5.9			ITNA	75KLE	01
6.	0.02		ITNA	78MAC	01
6.	0.2		ITNA	79GRE	01
6.01	0.16		ITNA	77ROW	04
6.1	0.1		ITNA	77MAE	01
6.2			ITNA	75MIL	01
6.39	0.74		ITNA	81WAN	01
6.5	0.2		ITNA	82SUZ	02
6.57	0.47		NAA	76HAN	01
6.9		*35	ITNA	81GLA	03
7.		*	AA	76WEW	01
8.5	4.2	*	EXRF	79GIA	01
11.		*	ITNA	77GLU	01
Cr (ppm)					
8.		*	EXRF	82KEE	01
15.		*	ICPES	80NAD	01
16.	1.2	*	OES	76WEW	01
17.	1.		ITNA	75RIC	01
17.6	1.		ITNA	76RAG	01
17.8	2.		ITNA	77CAH	01
18.			ICPES	80NAD	01
18.5	1.7		ITNA	78MAC	01
18.8	1.1		ITNA	76BLO	01
18.9	2.2		ITNA	78NAD	02
18.9	2.2		ITNA	75NAD	02
19.	2.		ITNA	73ABE	01
19.	3.		SSMS	77DON	01
19.	2.8		ITNA	79ROS	03
19.	0.8		ITNA	73SHE	01
19.			AA	76WEW	01
19.5	0.8		PAA	76CHA	01
19.6	0.5		ITNA	77MAE	01
19.6	0.6		AA	79ROS	03

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
19.7	0.9	D*	NAA	74OND	01
19.7	0.9		ITNA	75OND	01
19.8			FAA	78GUI	01
20.	1.	9	ITNA	78LAU	02
20.	3.		ITNA	78LAU	02
20.			AA	78GUI	01
20.17	0.76		RTNA	74MCC	01
20.2	0.4		AA	74RAI	01
20.3	2.9		ITNA	75RUC	01
20.5	0.6		ITNA	79GRE	01
20.6	2.3		IENA	77ROW	04
20.6			ITNA	75MIL	01
20.8	0.6		ICPES	81CHU	01
20.8	0.8		ITNA	77ROW	03
20.8	0.8	D*	ITNA	77ROW	04
21.	2.		ITNA	75KLE	01
21.5			ITNA	77WEA	01
21.5	1.		NAA	76HAN	01
21.6	2.1		PAA	74CHA	01
21.6	2.		ITNA	76WEW	01
22.			ITNA	77GLU	01
22.	8.		EXRF	79GIA	01
23.		4	AA	79REI	01
24.	3.	*	ITNA	76KUC	01
25.2	3.8	*	ITNA	81WAN	01
32.3	0.9	*	ITNA	82SUZ	02
34.9	0.9	*12	ITNA	82SUZ	02
Cs (ppm)					
0.35	0.04	*	PAA	74CHA	01
1.3	0.2		ITNA	78LAU	02
1.3	0.1		PAA	76CHA	01
1.32	0.11		ITNA	78NAD	02
1.32	0.11		ITNA	75NAD	02
1.36	0.1		IENA	76STE	05
1.4	0.1		ITNA	73ABE	01
1.4	0.1	9	ITNA	78LAU	02
1.4		34	WXRF	82MIL	01
1.4			ITNA	77WEA	01
1.4			ITNA	75KLE	01
1.4	0.3		ITNA	76WEW	01
1.4	0.1		ITNA	75OND	01
1.4	0.08		ITNA	76RAG	01
1.46	0.11		IENA	77ROW	03
1.49	0.22		ITNA	77ROW	04
1.52	0.11		IENA	77ROW	04
1.6	0.2		ITNA	79GRE	01
1.71	0.04		ITNA	77MAE	01
1.73	0.09		ITNA	79ROS	03
1.8		35	ITNA	81GLA	03
1.8	0.3		ITNA	77CAH	01
1.8	0.3		ITNA	75RUC	01
1.8	0.1		NAA	76HAN	01
1.9	0.2		ITNA	81WAN	01
2.3	0.1	*	ITNA	82SUZ	02
2.55	0.06	*	ITNA	73SHE	01
2.6		*	ITNA	75MIL	01
3.5	1.3	*	ITNA	78MAC	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Cu (ppm)					
	70.	L*	ITNA	73ABE	01
	120.	L*	ITNA	82SUZ	02
13.			EXRF	82KEE	01
14.1	0.9		ITNA	73SHE	01
15.	1.2		ITNA	77ROW	03
15.	1.2		ITNA	76STE	05
15.	3.		SSMS	77DON	01
15.7	2.7		ITNA	81WAN	01
16.3			FAA	78GUI	01
16.8	1.	8	SSMS	80KOP	01
16.8			AA	78GUI	01
17.	0.3		AA	73TAL	01
17.	4.		EXRF	81KIN	01
17.	1.	35	RTNA	77GLA	01
17.	7.5		OES	76WEW	01
17.2	0.5		ICPES	81CHU	01
17.7	1.5		EXRF	79GIA	01
17.9	0.2		AA	74RAI	01
18.			ICPES	80NAD	01
18.		34	WXRF	82MIL	01
18.			XRF	75KLE	01
18.1	0.8		NAA	76HAN	01
18.4	1.1		SSMS	77PAU	01
19.			ICPES	80NAD	01
19.4	1.9		FAA	74RAI	01
20.		4	AA	79REI	01
21.			AA	76WEW	01
22.6	3.		EXRF	73SPA	01
23.			ITNA	77GLU	01
24.	3.	6	PAA	82SEG	01
30.	10.	*	PAA	80SEG	01
30.	10.	*6	PAA	82SEG	01
Dy (ppm)					
	2.5	L*	WXRF	82MIL	01
	5.	L*	OES	76WEW	01
0.57	0.04	*	NAA	76HAN	01
0.85	0.06		ITNA	73SHE	01
1.	0.1		ITNA	78MAC	01
1.12	0.06		ITNA	76STE	05
1.12	0.06		ITNA	77ROW	03
1.3			AA	82GUP	02
1.3	0.5		ITNA	75RUC	01
1.38	0.09		ITNA	75NAD	02
1.4	0.1		ITNA	78NAD	02
1.4			ITNA	75MIL	01
1.59	0.16		ITNA	77CAH	01
2.4	0.2	*	ITNA	82SUZ	02
Er (ppm)					
	3.	L*	WXRF	82MIL	01
	15.	L*	OES	76WEW	01
0.7			AA	82GUP	02
Eu (ppb)					
	1000.	L*	WXRF	82MIL	01
210.		*	ITNA	75KLE	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
270.	20.		ITNA	76RAG	01
280.	10.		ITNA	73ABE	01
299.	33.		ITNA	76STE	05
300.	100.		ITNA	78MAC	01
312.	37.		ITNA	73SHE	01
330.	40.		ITNA	75OND	01
330.			ITNA	77WEA	01
340.	10.		NAA	76HAN	01
340.	40.		ITNA	77ROW	03
340.	20.		ITNA	78LAU	02
344.	15.		ITNA	79ROS	03
360.	30.		ITNA	77CAH	01
370.	20.		ITNA	78NAD	02
370.	20.		ITNA	75NAD	02
370.	40.		ITNA	76WEW	01
380.	40.		ITNA	77ROW	04
380.	40.		ITNA	79GRE	01
400.			AA	82GUP	02
400.			ITNA	75MIL	01
410.	60.		OES	76WEW	01
410.	30.		ITNA	75RUC	01
420.	20.		ICPES	81CHU	01
420.	10.		ITNA	77MAE	01
480.	90.	*	ITNA	81WAN	01
500.	60.	*	ITNA	82SUZ	02
F (ppm)					
51.			ITNA	77GLU	01
65.			ISE	83KNA	01
71.			ISE	81NAD	01
80.	4.		ISE	74THO	01
81.			VV	77GLU	01
87.			ISE	74THO	01
100.			AA	76WEW	01
Fe (ppm)					
6500.	1300.	*	OES	76WEW	01
7000.	400.	*	ITNA	76BLO	01
7150.	800.	*	EXRF	73SPA	01
7200.		*	EXRF	82KEE	01
7517.	119.		ITNA	73SHE	01
7790.	360.		EXRF	79GIA	01
7800.	200.		ITNA	75RIC	01
8000.			ICPES	80NAD	01
8100.	700.		ITNA	73ABE	01
8200.			ICPES	80NAD	01
8300.	700.		ITNA	76KUC	01
8300.			ICPES	80NAD	01
8350.	120.		AA	79ROS	03
8400.	200.		ITNA	78LAU	02
8400.	400.	D*	NAA	74OND	01
8400.	200.	D*	TCGS	80AND	01
8400.	400.		ITNA	75OND	01
8400.	200.		ITNA	76RAG	01
8400.			ITNA	75KLE	01
8410.	250.		IENA	77ROW	04
8420.	240.		TCGS	79FAI	01
8500.	60.		ITNA	75NAD	02
8500.	600.		ITNA	78NAD	02
8527.			AA	78GUI	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
8600.			POL	74MAI	01
8600.			ITNA	77WEA	01
8630.	266.		EXRF	81KIN	01
8690.	410.		PAA	74CHA	01
8700.		35	ITNA	81GLA	03
8700.	400.		PAA	76CHA	01
8700.	200.		ITNA	79GRE	01
8730.			AA	76WEW	01
8800.			ICPES	80NAD	01
8800.	200.		ITNA	77MAE	01
8810.	210.		ICPES	81CHU	01
8900.	300.		ITNA	78MAC	01
9010.	190.	D*	ITNA	77ROW	04
9010.	150.		ITNA	77ROW	03
9030.			ITNA	75MIL	01
9130.	560.		ITNA	79ROS	03
9200.	700.		ITNA	81WAN	01
9200.	300.		NAA	76HAN	01
9200.		4	AA	79REI	01
9300.	800.		ITNA	77CAH	01
9300.	800.		ITNA	75RUC	01
9800.	1000.	*	ITNA	76WEW	01
11100.		*	ITNA	77GLU	01
11100.	300.	*12	ITNA	82SUZ	02
11300.	500.	*	ITNA	82SUZ	02
Ga (ppm)					
	3.	L*	COLOR	79LIK	01
4.5			ITNA	77GLU	01
4.5	0.5		RTNA	75RUC	01
4.8	0.2		IENA	78WAN	01
5.	1.		ITNA	78MAC	01
5.15	0.3		ITNA	75RUC	01
5.3	0.5		ITNA	77CAH	01
5.4	0.8		ITNA	73SHE	01
5.5	0.7		ITNA	81WAN	01
5.8		34	WXRF	82MIL	01
5.8	0.4		IENA	77ROW	03
5.8	0.4	5	IENA	76STE	05
6.1	0.3		EXRF	79GIA	01
6.1	0.6	5	IENA	76STE	05
6.2	0.3		OES	76WEW	01
7.7	1.4		ITNA	82SUZ	02
8.5			XRF	75KLE	01
9.	2.	*	NAA	76HAN	01
Gd (ppm)					
	15.	L*	OES	76WEW	01
1.2	0.06		ICPES	81CHU	01
1.2			AA	82GUP	02
1.43	0.05		TCGS	79FAI	01
2.2	0.08		TCGS	80AND	01
2.5			ITNA	75MIL	01
3.		34	WXRF	82MIL	01
3.6	0.4		ITNA	78NAD	02
3.62	0.35		ITNA	75NAD	02

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ge (ppm)					
2.			ITNA	77GLU	01
2.7	0.22		OES	76WEW	01
2.9	0.2		EXRF	79GIA	01
3.		34	WXRF	82MIL	01
70.	5.	*	ITNA	73SHE	01
H (%)					
4.02	0.05	D*	TCGS	80AND	01
4.02	0.05		TCGS	79FAI	01
4.28	0.03		CB	80SCH	02
4.3	0.1	35	TCGS	79GLA	04
H2O-T (%)					
2.6			FD	80KHA	02
Hf (ppm)					
	2.	L*	WXRF	82MIL	01
0.72	0.071	*	ITNA	79ROS	03
0.81	0.1		ITNA	78LAU	02
0.83	0.06	D*	IENA	77ROW	04
0.83	0.06		IENA	77ROW	03
0.89	0.02		ITNA	75NAD	02
0.89	0.02		ITNA	78NAD	02
0.91	0.11		ITNA	77ROW	04
0.92	0.05		ITNA	73SHE	01
0.95			ITNA	75KLE	01
0.96			ITNA	77WEA	01
0.96	0.06		ITNA	79GRE	01
0.96	0.05		ITNA	75OND	01
0.97	0.1		ITNA	73ABE	01
1.	0.07		ITNA	76RAG	01
1.02	0.03		ITNA	77MAE	01
1.1	0.4		ITNA	81WAN	01
1.1	0.15		ITNA	75RUC	01
1.1	0.2		ITNA	77CAH	01
1.1	0.07		NAA	76HAN	01
1.1			ITNA	75MIL	01
1.15	0.12		ITNA	76WEW	01
1.4	0.09	*9	ITNA	82SUZ	02
1.53	0.5	*	ITNA	82SUZ	02
Hg (ppb)					
	1500.	L*	WXRF	82MIL	01
	1100.	L*	EXRF	79GIA	01
	220.	L*	ITNA	82SUZ	02
88.	5.		CVAA	75KLE	01
100.			PAA	77JER	01
100.			PAA	74CHA	01
100.			PAA	76CHA	01
110.			ITNA	77WEA	01
110.	10.		RTNA	74ORV	01
110.	50.		ITNA	77JER	01
110.	10.		RTNA	75RUC	01
110.	16.		RTNA	77JER	01
111.	10.		FAA	77GLA	03
117.	13.		FAA	75KOI	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
120.			CVAA	81NAD	01
120.			CVAA	82NAD	01
122.	29.		CVAA	80DUM	01
126.	6.		CVAA	74RAI	01
136.	9.		FAA	82UCH	02
160.	80.		ITNA	76WEW	01
160.	40.	12	ITNA	82SUZ	02
180.			ITNA	77GLU	01
230.	20.	*	ITNA	78NAD	02
230.	20.	*	ITNA	75NAD	02
230.	50.	*	ITNA	76BLO	01
510.	170.	*	ITNA	75RIC	01
950.	90.	*	ITNA	73SHE	01
Ho (ppb)					
	2000.	L*	WXRF	82MIL	01
	1500.	L*	OES	76WEW	01
240.	30.		IENA	77ROW	03
240.	30.		IENA	76STE	05
250.			FAA	82GUP	02
I (ppm)					
	1.7	L*	ITNA	82SUZ	02
2.68	0.2		RTNA	77ROO	01
2.78	0.38		ITNA	73SHE	01
2.8	0.4		ITNA	75RUC	01
2.8			ITNA	77WEA	01
2.9	0.3		ITNA	76STE	05
3.		34	WXRF	82MIL	01
3.3	0.5		ITNA	77MAE	01
3.3	0.4		ITNA	77CAH	01
3.3	0.3		PAA	78HIS	01
3.3	0.3		PAA	77WIL	01
3.7	0.5		IENA	83GLA	01
4.	1.	*	ITNA	79GRE	01
6.2	1.9	*	ITNA	81WAN	01
6.63	1.2	*	ITNA	75NAD	02
In (ppb)					
	1000.	L*	WXRF	82MIL	01
16.9	1.2		IENA	77ROW	03
16.9	1.7	5	IENA	76STE	05
17.8	1.	5	IENA	76STE	05
30.	20.		ITNA	76RAG	01
40.	10.		ITNA	73SHE	01
56.	9.		ITNA	82SUZ	02
70.			ITNA	75KLE	01
180.	20.		ITNA	77CAH	01
200.	120.		ITNA	75OND	01
220.	20.		ITNA	75RUC	01
230.	20.		PAA	74CHA	01
230.	30.		PAA	76CHA	01
Ir (ppb)					
	50.	L*	OES	76WEW	01
2.48	0.27		ITNA	73SHE	01
2.5			ITNA	77WEA	01
3.53	0.52		RTNA	77NAD	02

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
K (ppm)					
2500.			ICPES	80NAD	01
2570.		4	AA	79REI	01
2600.	200.		ITNA	76KUC	01
2650.	190.		ITNA	76BLO	01
2660.	20.		ITNA	75RIC	01
2700.			ICPES	80NAD	01
2700.	300.		NAA	76HAN	01
2700.			ICPES	80NAD	01
2700.	100.		PAA	76CHA	01
2700.	200.		ITNA	76RAG	01
2750.	100.	D*	TCGS	80AND	01
2750.	100.		TCGS	79FAI	01
2780.	230.		ITNA	75NAD	02
2800.	100.		ITNA	73ABE	01
2800.	200.		ITNA	78LAU	02
2800.	500.		ITNA	76WEW	01
2800.	200.		ITNA	77MAE	01
2800.	200.		ITNA	78NAD	02
2800.			ITNA	77WEA	01
2800.	300.		ITNA	75OND	01
2800.	300.		ITNA	77CAH	01
2800.	200.		ITNA	79GRE	01
2840.	80.		GAMMA	73ABE	01
2900.			ICPES	80NAD	01
2900.			ITNA	75MIL	01
2900.			ITNA	75KLE	01
2900.	200.		ITNA	75RUC	01
2980.	240.		ITNA	77ROW	03
2980.	200.		ITNA	76STE	05
3000.	75.		ICPES	81CHU	01
3000.	200.		ITNA	78MAC	01
3100.	500.		ITNA	81WAN	01
3100.	600.		OES	76WEW	01
3300.		*	ITNA	77GLU	01
3500.	360.	*	ITNA	73SHE	01
4000.	200.	*	ITNA	82SUZ	02
La (ppm)					
6.	0.17	*	OES	76WEW	01
7.89	0.15	*	ITNA	75NAD	02
7.9	0.2	*	ITNA	78NAD	02
8.3	0.2		ITNA	78MAC	01
9.1	0.4		ITNA	76BLO	01
9.3	0.3		ICPES	81CHU	01
9.3	0.5		ITNA	78LAU	02
9.5	0.2		ITNA	76RAG	01
9.76	0.45		NAA	76HAN	01
10.		34	WXRF	82MIL	01
10.			FAA	82GUP	02
10.3	0.5	D*	ITNA	77ROW	04
10.3	1.1		ITNA	76STE	05
10.3	0.5		ITNA	77ROW	03
10.5	0.9		ITNA	81WAN	01
10.5			ITNA	75KLE	01
10.5	0.5		ITNA	73ABE	01
10.6	0.4		ITNA	77CAH	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
10.7			ITNA	77WEA	01
10.7	0.4		ITNA	82SUZ	02
10.7	0.3		ITNA	77MAE	01
10.7	1.2		ITNA	75OND	01
10.8	0.8		IENA	77ROW	04
11.			OES	82GUP	02
11.3	3.3		ITNA	73SHE	01
11.3	0.4		ITNA	75RUC	01
11.3			ITNA	75MIL	01
11.4	0.5		IENA	77ROW	03
11.4	0.5		IENA	76STE	05
11.5	0.7		ITNA	79GRE	01
Li (ppm)					
24.	1.1		OES	76WEW	01
25.			AA	76WEW	01
28.7	0.6		ICPES	81CHU	01
Lu (ppb)					
	1000.	L*	WXRF	82MIL	01
	7000.	L*	OES	76WEW	01
100.			FAA	82GUP	02
100.			ITNA	75MIL	01
109.	11.	D*	ITNA	77ROW	04
109.	11.		ITNA	77ROW	03
120.	10.		ITNA	78NAD	02
120.	5.		ITNA	75NAD	02
130.	5.		ITNA	77MAE	01
130.	30.		ITNA	77CAH	01
140.	70.		ITNA	81WAN	01
140.	20.		ITNA	78LAU	02
140.	10.		ITNA	75OND	01
140.	20.		NAA	76HAN	01
150.	10.		ITNA	75RUC	01
150.	20.		ITNA	76WEW	01
210.	20.	*	ITNA	82SUZ	02
416.	17.	*	ITNA	73SHE	01
Mg (ppm)					
980.	250.		ITNA	73SHE	01
1100.	300.		ITNA	77MAE	01
1100.			ITNA	77GLU	01
1200.			ICPES	80NAD	01
1200.			ICPES	80NAD	01
1340.	270.		ITNA	82SUZ	02
1370.	40.		ICPES	81CHU	01
1400.			ICPES	80NAD	01
1500.	300.		ITNA	78NAD	02
1500.	300.		ITNA	75NAD	02
1600.			ICPES	80NAD	01
1600.	150.		PAA	74CHA	01
1600.	300.		OES	76WEW	01
1600.	200.		PAA	76CHA	01
1700.	300.		ITNA	77ROW	03
1700.	200.		ITNA	79GRE	01
1700.	300.		ITNA	76STE	05
1900.	400.		NAA	76HAN	01
2000.	500.		ITNA	75OND	01
2000.	400.		ITNA	76WEW	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
2300.	400.		ITNA	81WAN	01
2300.	700.		ITNA	73ABE	01
2480.			ITNA	75KLE	01
2500.	800.		ITNA	76RAG	01
4000.	2000.	*	ITNA	78LAU	02
8200.	2000.	*	ITNA	78MAC	01
Mn (ppm)					
27.5	2.4	*	ITNA	82SUZ	02
36.	1.8		OES	76WEW	01
36.8			FAA	78GUI	01
37.	2.		EXRF	81KIN	01
37.			EXRF	82KEE	01
38.	2.6		ITNA	73SHE	01
38.		4	AA	79REI	01
38.	8.	35	ITNA	81GLA	03
38.5			AA	78GUI	01
39.	3.		EXRF	79GIA	01
39.			ITNA	77GLU	01
39.		34	WXRF	82MIL	01
39.5	0.7		ITNA	76RAG	01
40.	7.		ITNA	78NAD	02
40.	4.		ITNA	76WEW	01
40.			AA	76WEW	01
40.3	6.9		ITNA	75NAD	02
41.	6.		ITNA	73ABE	01
41.			ITNA	77WEA	01
41.	6.		ITNA	80BUA	01
41.	2.		NAA	76HAN	01
41.	1.		ITNA	75RIC	01
41.1	3.6		ITNA	77ROW	03
41.1	3.6		ITNA	76STE	05
41.7	0.5		AA	79ROS	03
42.			ICPES	80NAD	01
42.	1.		ITNA	79GRE	01
42.5	5.8		ITNA	81WAN	01
42.8	2.4		ITNA	77CAH	01
43.	1.		ITNA	78MAC	01
43.	4.	D*	NAA	74OND	01
43.	4.		ITNA	75OND	01
43.	6.		ITNA	76BLO	01
43.	3.		PAA	76CHA	01
43.5	2.4	D*	TCGS	80AND	01
43.5	2.4		TCGS	79FAI	01
43.7	1.8		ITNA	75RUC	01
44.	2.		ITNA	78LAU	02
44.5	0.9		ITNA	77MAE	01
45.	3.		ITNA	76KUC	01
45.	1.4		ICPES	81CHU	01
45.			ICPES	80NAD	01
46.	3.		ITNA	75KLE	01
46.			ITNA	75MIL	01
47.1	4.1	*	PAA	74CHA	01
Mo (ppm)					
0.2	0.04		PAA	76CHA	01
0.2	0.02		PAA	74CHA	01
0.3	0.1		PAA	80SEG	01
0.3	0.1	6	PAA	82SEG	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
0.3	0.1	6	PAA	82SEG	01
0.41	0.1		ITNA	82SUZ	02
3.08	0.12	D*	IENA	77ROW	04
3.08	0.12		IENA	77ROW	03
3.14	0.28		RTNA	78NAD	01
3.2	0.4		ITNA	77CAH	01
3.3			ICPES	80NAD	01
3.4			ITNA	75KLE	01
3.6	0.16		OES	76WEW	01
4.		34	WXRF	82MIL	01
4.7			ICPES	80NAD	01
5.			ITNA	77GLU	01
5.			ITNA	77WEA	01
N (%)					
1.2	0.2	35	TCGS	79GLA	04
1.3	0.02		GB	80SCH	02
1.3	0.2	D*	TCGS	80AND	01
1.3	0.2		TCGS	79FAI	01
Na (ppm)					
325.	6.		ITNA	75RIC	01
335.			ICPES	80NAD	01
340.	10.		ITNA	78LAU	02
347.	32.		ITNA	75NAD	02
350.	30.		ITNA	78NAD	02
350.	20.		PAA	76CHA	01
351.	30.		PAA	74CHA	01
352.	34.		ITNA	77CAH	01
353.	21.		ITNA	76KUC	01
360.	10.		ITNA	79GRE	01
360.	20.		NAA	76HAN	01
368.	9.		ITNA	77MAE	01
370.	33.		ITNA	73SHE	01
370.			ICPES	80NAD	01
380.	12.		ITNA	76RAG	01
380.	3.		ITNA	78MAC	01
380.	25.		ITNA	76STE	05
380.	25.		ITNA	77ROW	03
380.			ICPES	80NAD	01
383.	14.		ITNA	75RUC	01
387.	42.		ITNA	81WAN	01
390.			ITNA	77GLU	01
390.		34	WXRF	82MIL	01
390.			ITNA	75KLE	01
400.	900.	R*	ITNA	81GLA	03
400.	7.		ICPES	81CHU	01
400.	30.		ITNA	76BLO	01
409.			ICPES	80NAD	01
410.			ITNA	75MIL	01
414.			ITNA	77WEA	01
414.	20.		ITNA	75OND	01
415.	42.		ITNA	76WEW	01
420.	30.		ITNA	73ABE	01
480.		*4	AA	79REI	01
840.	30.	*	ITNA	82SUZ	02
1200.	240.	*	OES	76WEW	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Nb (ppm)					
	15.	L*	OES	76WEW	01
5.		34	WXRF	82MIL	01
Nd (ppm)					
	15.	L*	OES	76WEW	01
6.4	1.5		ITNA	73SHE	01
7.		34	WXRF	82MIL	01
8.			AA	82GUP	02
8.7	1.	D*	ITNA	77ROW	04
8.7	1.		ITNA	77ROW	03
9.5	1.9		ICPES	81CHU	01
10.7			ITNA	75MIL	01
11.3	2.	D*	TCGS	80AND	01
11.3	2.		TCGS	79FAI	01
16.9	1.4	*	ITNA	82SUZ	02
17.8	3.7	*12	ITNA	82SUZ	02
Ni (ppm)					
10.			EXRF	82KEE	01
11.			IENA	77ROW	03
12.	0.7		ITNA	78NAD	02
12.1	0.7		ITNA	75NAD	02
13.	3.	9	ITNA	78LAU	02
13.5	1.2		PAA	74CHA	01
14.	1.		PAA	80SEG	01
14.		4	AA	79REI	01
14.	1.	6	PAA	82SEG	01
14.	2.		PAA	76CHA	01
14.	2.	6	PAA	82SEG	01
14.3			AA	78GUI	01
14.5	1.2		EXRF	79GIA	01
14.5			XRF	75KLE	01
14.7	0.6	6	IDMS	74MOO	01
14.7	0.6	6	IDMS	74MOO	01
14.8			POL	74MAI	01
14.8	0.7	6	IDMS	74MOO	01
15.	3.		SSMS	77DON	01
15.		34	WXRF	82MIL	01
15.	1.1		OES	76WEW	01
15.			AA	76WEW	01
15.2	0.5		ICPES	81CHU	01
15.5	1.1	8	SSMS	80KOP	01
16.	4.		ITNA	73ABE	01
16.	5.		ITNA	77CAH	01
16.			ICPES	80NAD	01
16.4			IENA	77ROW	04
17.1			FAA	78GUI	01
17.5	1.		EXRF	81KIN	01
18.	4.		ITNA	75OND	01
18.	4.	D*	NAA	74OND	01
18.	5.		NAA	76HAN	01
18.4	2.1		ITNA	75RUC	01
18.9	0.8		ITNA	82SUZ	02
19.			ICPES	80NAD	01
20.			ITNA	77GLU	01
20.4	1.	12	ITNA	82SUZ	02

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
O (%)					
15.05	0.11	34	14NAA	80KHA	02
Os (ppm)					
	1.	L*	RTNA	77NAD	02
P (ppm)					
71.			AA	76WEW	01
92.			ICPES	80NAD	01
104.			ICPES	80NAD	01
120.			VV	77GLU	01
138.		34	WXRF	82MIL	01
150.	9.		ICPES	81CHU	01
156.			ICPES	81NAD	01
250.			COLOR	80NAD	01
270.			COLOR	80NAD	01
Pb (ppm)					
12.	120.	R*	OES	76WEW	01
13.6	6.5	*	EXRF	79GIA	01
15.		*	ICPES	80NAD	01
19.1			ICPES	81NAD	01
20.			ICPES	80NAD	01
23.	0.9		EXRF	73SPA	01
23.			VV	77GLU	01
24.		4	AA	79REI	01
26.	6.		FAA	76BLO	01
26.1			AA	78GUI	01
27.9	2.5	8	SSMS	80KOP	01
28.	1.	6	PAA	82SEG	01
28.	2.		PAA	80SEG	01
28.	5.		FAA	75BLO	02
28.	3.6		SSMS	77PAU	01
28.	2.	6	PAA	82SEG	01
28.	4.		IDMS	78CAR	02
28.4			POL	74MAI	01
28.5	1.5		ICPES	81CHU	01
28.6			FAA	78GUI	01
29.	0.5		AA	73TAL	01
29.	2.		PAA	77JER	01
29.4			IDMS	75KLE	01
30.			AA	76WEW	01
31.	3.		EXRF	81KIN	01
32.	2.		PAA	77JER	01
32.		34	WXRF	82MIL	01
32.	2.		PAA	76CHA	01
32.1	1.8		PAA	74CHA	01
33.	3.		SSMS	77DON	01
33.	2.		AA	79ROS	03
Pd (ppb)					
	5.	L*	RTNA	77NAD	02
Pr (ppm)					
	2.	L*	FAA	82GUP	02
	15.	L*	OES	76WEW	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
2.		34	WXRF	82MIL	01
3.6	0.4		ITNA	82SUZ	02
4.6	0.5	12	ITNA	82SUZ	02
Pt (ppb)					
	15000.	L*	OES	76WEW	01
186.	2.3		RTNA	77NAD	01
270.	20.		RTNA	77NAD	02
Rb (ppm)					
10.	3.	*	ITNA	81WAN	01
15.		35	ITNA	81GLA	03
16.3	3.7		ITNA	75NAD	02
16.3	3.7		ITNA	78NAD	02
18.		34	WXRF	82MIL	01
18.3	1.1	D*	IENA	77ROW	04
18.3	1.6		IENA	77ROW	03
19.	1.9		ITNA	73SHE	01
19.	1.5		ITNA	76RAG	01
19.	2.		ITNA	73ABE	01
19.	6.		ITNA	76WEW	01
19.4	2.3		ITNA	77ROW	04
19.5			ITNA	75KLE	01
20.	2.	9	ITNA	78LAU	02
20.	2.		ITNA	79GRE	01
20.	4.		ITNA	78LAU	02
20.	2.		PAA	75OND	01
20.	2.		PAA	76CHA	01
20.1	0.6		EXRF	79GIA	01
21.			ITNA	77WEA	01
21.	2.		ITNA	75OND	01
22.	2.9		OES	76WEW	01
22.5	0.7		ITNA	77MAE	01
22.5	3.7		ITNA	75RUC	01
22.8	4.8		ITNA	77CAH	01
23.	7.		ITNA	76KUC	01
23.	3.		NAA	76HAN	01
24.			XRF	75KLE	01
24.			ITNA	75MIL	01
24.7	1.		ITNA	79ROS	03
26.	1.		ITNA	82SUZ	02
28.6	3.2	*	EXRF	73SPA	01
30.	1.	*12	ITNA	82SUZ	02
Rh (ppm)					
	5.	L*	OES	76WEW	01
Ru (ppb)					
	5000.	L*	OES	76WEW	01
18.	1.		RTNA	77NAD	02
S (%)					
	3.8	L*	ITNA	82SUZ	02
0.17		*	ICPES	80NAD	01
0.17		*	CB	80NAD	01
0.9			ICPES	80NAD	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
0.9			CB	80NAD	01
1.25			XRF	77GLU	01
1.29	0.03	D*	TCGS	80AND	01
1.29	0.03		TCGS	79FAI	01
1.32			XRF	81NAD	01
1.32	0.07		TCGS	77JUR	01
1.32			XRF	82NAD	01
1.99		*	CB	77LAD	01
2.02		*	TITR	77LAD	01
Sb (ppm)					
0.61	0.05	*	ITNA	82SUZ	02
1.8	0.9	*	FAA	77ARU	01
2.2		*	ITNA	75MIL	01
2.3	5.8	R*	COLOR	77ARU	01
2.6	2.		ITNA	77ARU	01
2.7		5	ITNA	77ROW	04
2.8	0.7		ITNA	81WAN	01
2.8		5	IENA	77ROW	04
3.		34	WXRF	82MIL	01
3.			ITNA	77GLU	01
3.			RTNA	75RUC	01
3.		5	ITNA	77ROW	04
3.			IENA	77ROW	03
3.06	1.4		ITNA	75NAD	02
3.09	0.26		PAA	74CHA	01
3.1	1.4		ITNA	78NAD	02
3.2		35	ITNA	81GLA	03
3.2		5	IENA	77ROW	04
3.4	0.1		ITNA	76RAG	01
3.4	0.8		ITNA	75RUC	01
3.6	1.2		ITNA	77MAE	01
3.6	0.8		ITNA	77CAH	01
3.7	2.		ITNA	73ABE	01
3.8	0.2		ITNA	78MAC	01
3.8	0.4		NAA	76HAN	01
3.82	0.1		ITNA	78LAU	02
3.9	1.3		ITNA	75OND	01
3.9	0.24		ITNA	77JER	01
3.9	0.3		PAA	76CHA	01
3.9			ITNA	77WEA	01
3.9	0.3		PAA	77JER	01
4.1	1.2		ITNA	76WEW	01
4.3	0.3		ITNA	79GRE	01
4.4	0.3		FAA	78HAY	01
4.45			ITNA	75KLE	01
6.4	1.6	*	ITNA	73SHE	01
Sc (ppm)					
3.4	0.3		ITNA	77CAH	01
3.4	0.3		ITNA	73ABE	01
3.5	0.1		ITNA	78NAD	02
3.5	0.08		ITNA	75NAD	02
3.58	0.35		PAA	74CHA	01
3.6	0.08		OES	76WEW	01
3.6	0.3		PAA	76CHA	01
3.68	0.08		ITNA	76RAG	01
3.69	0.05		ITNA	78LAU	02
3.7	0.3		ITNA	75OND	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
3.7			ITNA	77WEA	01
3.7	0.1		ITNA	75RIC	01
3.75	0.24		ITNA	79ROS	03
3.8	0.05	D*	ITNA	77ROW	04
3.8	0.4		ITNA	76WEW	01
3.8	0.05		ITNA	77ROW	03
3.81	0.47		ITNA	75RUC	01
3.88	0.15		NAA	76HAN	01
3.9	0.2		ITNA	76KUC	01
3.95	0.06		IENA	77ROW	04
3.98	0.04		ITNA	78MAC	01
4.	0.2		ITNA	79GRE	01
4.1	0.2		ITNA	81WAN	01
4.1		34	WXRF	82MIL	01
4.1			ITNA	75MIL	01
4.2	0.1		ITNA	77MAE	01
4.5		*	ITNA	75KLE	01
5.4	0.1	*	ITNA	82SUZ	02
Se (ppm)					
	10.	L*	ICPES	81CHU	01
1.1	0.08	*	CPXRF	80KIR	01
2.		*	HAA	74BYR	02
2.3	0.2	*9	ITNA	82SUZ	02
2.4	0.1		ITNA	78NAD	02
2.44	0.08		ITNA	75NAD	02
2.5	0.2		ITNA	80WAN	01
2.51	0.13	8	SSMS	80KOP	01
2.6	0.1		ITNA	82SUZ	02
2.6	0.3	9	ITNA	80WAN	01
2.6	0.16		FAA	77ARU	01
2.7	0.2		RTNA	74ORV	01
2.8			ITNA	77GLU	01
2.8	0.11		RTNA	75RUC	01
2.86	0.13		DCP	81CAK	02
2.86	0.13		GCMES	74TAL	02
2.86	0.13		GCMES	75KLE	01
2.9	0.1		ICPES	80HAA	01
2.9	0.2		ITNA	79GRE	01
2.9	0.2		XRF	77ARU	01
2.9	0.4		ITNA	76RAG	01
2.99	0.07		SSMS	77PAU	01
3.	0.3	H	OES	80CLA	01
3.	1.		PAA	80SEG	01
3.		34	WXRF	82MIL	01
3.	0.4		RTNA	80KNA	01
3.	1.	6	PAA	82SEG	01
3.	0.3	D*	IENA	77ROW	04
3.	0.3		PAA	76CHA	01
3.	0.3		IENA	77ROW	03
3.	0.4	6	PAA	82SEG	01
3.03	0.28		PAA	74CHA	01
3.05			ITNA	75KLE	01
3.05	0.48		ASV	76AND	01
3.1			ITNA	77WEA	01
3.1	0.2		EXRF	79GIA	01
3.1	0.6		ITNA	78MAC	01
3.1	1.6		ITNA	76WEW	01
3.2	0.4		ITNA	76BLO	01
3.2	0.3		ITNA	75RIC	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
3.3	0.4		ITNA	73ABE	01
3.3	0.2	9	ITNA	78LAU	02
3.3	0.6		ITNA	78LAU	02
3.4	0.2	D*	NAA	74OND	01
3.4	0.2		ITNA	75OND	01
3.5	0.3		ITNA	77MAE	01
3.6	0.4		ITNA	75RUC	01
3.7	0.7	*	ITNA	77ROW	04
3.8	0.51	*	ITNA	73SHE	01
3.8	0.7	*	ITNA	77CAH	01
3.9	0.4	*	ITNA	81WAN	01
4.7		*	COLOR	74BYR	02
5.5	0.5	*	EXRF	73SPA	01
Si (%)					
2.1	0.42	*	OES	76WEW	01
2.6		*4	AA	79REI	01
2.95	0.06		TCGS	79FAI	01
2.95	0.06	D*	TCGS	80AND	01
3.	0.4		PAA	76CHA	01
3.14			ICPES	80NAD	01
3.17			ICPES	80NAD	01
3.19			ICPES	80NAD	01
3.2			AA	76WEW	01
3.21			ICPES	80NAD	01
3.5	0.8		14NAA	76BLO	01
3.92		*	VV	77GLU	01
Sm (ppm)					
	2.	L*	WXRF	82MIL	01
	15.	L*	OES	76WEW	01
1.3	0.19		ITNA	73SHE	01
1.3	0.2		ICPES	81CHU	01
1.38	0.1		IENA	76STE	05
1.38	0.09		ITNA	77ROW	04
1.4			FAA	82GUP	02
1.4	0.1		ITNA	78MAC	01
1.4	0.1		IENA	77ROW	03
1.41	0.06		IENA	77ROW	04
1.53	0.02	D*	TCGS	80AND	01
1.53	0.02		TCGS	79FAI	01
1.55	0.07		NAA	76HAN	01
1.6			ITNA	75MIL	01
1.6	0.2		ITNA	77CAH	01
1.66	0.16		ITNA	75NAD	02
1.7	0.3		ITNA	73ABE	01
1.7			ITNA	77WEA	01
1.7	0.2		ITNA	75OND	01
1.7	0.2		ITNA	78NAD	02
1.72	0.08		ITNA	76RAG	01
1.74	0.02		ITNA	78LAU	02
1.8	0.1		ITNA	75RUC	01
1.9	0.2		ITNA	79GRE	01
1.93	0.14		ITNA	77MAE	01
2.9	0.2	*	ITNA	82SUZ	02

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Sn (ppm)					
2.	10.	R*	OES	76WEW	01
4.	0.2		ICPES	80HAA	01
5.		34	WXRF	82MIL	01
8.			ICPES	80NAD	01
9.7			ICPES	80NAD	01
10.	1.	6	PAA	82SEG	01
10.	1.		PAA	80SEG	01
10.	1.		PAA	76CHA	01
10.			ITNA	77GLU	01
10.2	1.		PAA	74CHA	01
11.	0.4	6	PAA	82SEG	01
125.	20.	*	ITNA	73SHE	01
Sr (ppm)					
1.02	0.05	*	ITNA	75NAD	02
1.33	0.1	*	PAA	74CHA	01
91.	9.	*	ITNA	82SUZ	02
93.	9.2		ITNA	73SHE	01
93.	7.	12	ITNA	82SUZ	02
99.		4	AA	79REI	01
112.	26.		ITNA	76RAG	01
120.	20.		NAA	76HAN	01
123.			ITNA	75KLE	01
125.	26.		ITNA	78NAD	02
129.			ITNA	75MIL	01
131.	23.		ITNA	76STE	05
140.	2.8		ICPES	81CHU	01
140.	15.		PAA	76CHA	01
140.	40.		ITNA	78LAU	02
144.			XRF	75KLE	01
145.	9.		ITNA	75RUC	01
151.		34	WXRF	82MIL	01
151.	4.		EXRF	79GIA	01
155.	15.		EXRF	73SPA	01
155.	6.		ITNA	77CAH	01
159.	14.		IENA	77ROW	04
160.	10.		IENA	77ROW	03
161.	16.		ITNA	75OND	01
161.	9.	5	IENA	76STE	05
164.	25.		ITNA	81WAN	01
164.	14.		ITNA	77MAE	01
165.	21.	5	IENA	76STE	05
170.	10.		ITNA	73ABE	01
170.	20.	9	ITNA	78LAU	02
170.	17.		ITNA	76WEW	01
170.	20.		ITNA	78MAC	01
190.			ITNA	77ROW	04
280.	56.	*	OES	76WEW	01
Ta (ppb)					
	1500.	L*	WXRF	82MIL	01
170.			ITNA	75KLE	01
210.		35	ITNA	81GLA	03
210.	20.		ITNA	77CAH	01
210.	20.		ITNA	75RUC	01
230.	20.		ITNA	76RAG	01
240.			ITNA	77WEA	01
240.	40.		ITNA	75OND	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
240.	10.		ITNA	78NAD	02
240.	10.		ITNA	75NAD	02
250.	10.		ITNA	77MAE	01
250.	30.		NAA	76HAN	01
270.	20.		ITNA	79ROS	03
273.	6.		IENA	77ROW	03
273.	9.	D*	IENA	77ROW	04
290.	50.		ITNA	78LAU	02
300.			ITNA	75MIL	01
300.			ITNA	77ROW	04
350.	20.		ITNA	82SUZ	02
360.	28.	*	ITNA	73SHE	01
460.	50.	*	ITNA	73ABE	01
Tb (ppb)					
	500.	L*	ITNA	77ROW	04
	2000.	L*	WXRF	82MIL	01
	15000.	L*	OES	76WEW	01
	400.	L*	FAA	82GUP	02
30.		*	ITNA	73SHE	01
200.	40.		ITNA	76WEW	01
200.	20.		ITNA	76RAG	01
230.	10.		ITNA	78LAU	02
230.	60.		ITNA	73ABE	01
230.	50.		ITNA	75OND	01
260.	20.		ITNA	82SUZ	02
274.	12.		IENA	77ROW	03
274.	12.	D*	IENA	77ROW	04
400.	20.		ITNA	75NAD	02
400.	20.		ITNA	78NAD	02
500.		*	ITNA	75MIL	01
Te (ppb)					
	600.	L*	WXRF	82MIL	01
	690.	L*	ITNA	82SUZ	02
	1000.	L*	PAA	76CHA	01
500.			FAA	77GLU	01
600.	40.	35	RTNA	75GLA	01
1020.			PAA	74CHA	01
Th (ppm)					
	15.	L*	OES	76WEW	01
1.28	0.06	*	ITNA	75NAD	02
1.3	0.1	*	ITNA	78NAD	02
2.4	0.2	*	ITNA	76BLO	01
2.7	0.7		EXRF	79GIA	01
2.87	0.09		ITNA	77ROW	04
2.87	0.24		ITNA	79ROS	03
2.9	0.1		ITNA	76RAG	01
3.	0.2		ITNA	78LAU	02
3.		34	WXRF	82MIL	01
3.			ITNA	75KLE	01
3.1	0.2		ITNA	73SHE	01
3.1	0.2		ITNA	75OND	01
3.12	0.1		IENA	77ROW	03
3.12	0.1	D*	IENA	77ROW	04
3.2	0.2		ITNA	79GRE	01
3.2		35	ITNA	81GLA	03
3.2	0.3		ITNA	76WEW	01
3.2	0.1		ITNA	77MAE	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
3.2			ITNA	75MIL	01
3.2	0.5		NAA	76HAN	01
3.3	0.6		ITNA	81WAN	01
3.4	0.6		ITNA	73ABE	01
3.45	0.1		GAMMA	75OND	01
3.45	0.1		GAMMA	73ABE	01
3.5	0.6		ITNA	77CAH	01
3.65	0.49		ITNA	75RUC	01
4.1	0.1	*	ITNA	82SUZ	02
4.6	0.1	*2	ITNA	82SUZ	02
4.7		*	DNA	75MIL	01
Ti (ppm)					
680.			EXRF	82KEE	01
690.		4	AA	79REI	01
790.			POL	74MAI	01
800.			ITNA	77WEA	01
800.			AA	76WEW	01
839.	172.		ITNA	75NAD	02
840.	200.		ITNA	78NAD	02
885.	150.		ITNA	76BLO	01
890.	50.		ITNA	77ROW	03
890.	35.	D*	TCGS	80AND	01
890.	35.		TCGS	79FAI	01
890.	50.		ITNA	76STE	05
890.	200.		PAA	75OND	01
900.	180.		OES	76WEW	01
900.	100.		PAA	76CHA	01
920.	50.		NAA	76HAN	01
930.			ICPES	80NAD	01
930.		34	WXRF	82MIL	01
930.			ITNA	75KLE	01
946.	24.		ICPES	81CHU	01
951.	53.		EXRF	79GIA	01
960.			ICPES	80NAD	01
960.			ICPES	80NAD	01
972.			ICPES	80NAD	01
973.	50.		PAA	74CHA	01
980.	60.		ITNA	79GRE	01
995.	100.		ITNA	78MAC	01
1000.	260.		ITNA	76RAG	01
1028.	30.		AA	79ROS	03
1060.		35	NAA	81GLA	03
1075.	100.		ITNA	75OND	01
1100.	100.		ITNA	81WAN	01
1100.			ITNA	77CLU	01
1100.	110.		ITNA	76WEW	01
1100.	200.		ITNA	73ABE	01
1200.	200.		ITNA	78LAU	02
1312.	150.	*	ITNA	73SHE	01
1550.	130.	*	ITNA	82SUZ	02
Tl (ppb)					
	2000.	L*	FAA	77GLU	01
	1000.	L*	WXRF	82MIL	01
	1000.	L*	AA	76WEW	01
	5000.	L*	OES	76WEW	01
500.	100.		PAA	80SEG	01
500.	100.	6	PAA	82SEG	01
512.	60.		PAA	74CHA	01
520.	60.		PAA	76CHA	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
590.	60.		SSMS	77PAU	01
600.	100.	6	PAA	82SEG	01
600.	200.		SSMS	77DON	01
610.	37.	8	SSMS	80KOP	01
Tm (ppb)					
	1000.	L*	WXRF	82MIL	01
	5000.	L*	OES	76WEW	01
110.			FAA	82GUP	02
300.			ITNA	77GLU	01
300.			ITNA	75MIL	01
U (ppm)					
	2.3	L*	EXRF	79GIA	01
0.98	0.078	*	ITNA	73SHE	01
1.1	0.08	35	RTNA	75GLA	01
1.2	0.1		ITNA	78NAD	02
1.2	0.1		ITNA	75NAD	02
1.2	0.05		IDMS	78CAR	02
1.21			IDMS	75KLE	01
1.24	0.05		ITNA	76RAG	01
1.25	0.06		ITNA	82SUZ	02
1.26			ITNA	75KLE	01
1.3	0.1		PAA	80SEG	01
1.3	0.1	6	PAA	82SEG	01
1.33	0.05		DNA	83GLA	01
1.34	0.5		ITNA	78MAC	01
1.35			ITNA	77WEA	01
1.37	0.08		ITNA	74WEA	01
1.4			ITNA	81WAN	01
1.4	0.1	6	PAA	82SEG	01
1.41	0.07		GAMMA	73ABE	01
1.41	0.07		GAMMA	75OND	01
1.41	0.07	D*	NAA	74OND	01
1.43			DNA	75MIL	01
1.45	0.04		IENA	77ROW	04
1.46	0.02		IENA	76STE	05
1.46	0.04		IENA	77ROW	03
1.46	0.35		ITNA	75RUC	01
1.49		35	DNA	81GLA	03
1.5	0.1	13	PAA	81SEG	01
1.5			ITNA	75MIL	01
1.52	0.11		ITNA	76STE	05
1.6	0.2	13	PAA	81SEG	01
1.6	0.2		NAA	76HAN	01
2.		*34	WXRF	82MIL	01
6.		*	AA	76WEW	01
V (ppm)					
24.	8.	*	EXRF	79GIA	01
30.	6.	35	ITNA	81GLA	03
32.		34	WXRF	82MIL	01
32.	4.		ITNA	78LAU	02
32.	1.3		OES	76WEW	01
32.5	1.5		NAA	76HAN	01
32.7	3.4		ITNA	75NAD	02
33.	4.		ITNA	73ABE	01
33.			ICPES	80NAD	01
33.	6		ITNA	80BUA	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
33.	3.		ITNA	78MAC	01
33.	1.		ITNA	76BLO	01
33.	3.		ITNA	78NAD	02
33.6			AA	78GUI	01
33.9	3.		PAA	74CHA	01
34.			ICPES	80NAD	01
34.	3.		PAA	76CHA	01
35.	2.9		ITNA	77ROW	03
35.	2.9		ITNA	76STE	05
35.			ITNA	77WEA	01
35.2	1.5		AA	79ROS	03
35.8	3.4		ITNA	81WAN	01
36.	2.		ITNA	79GRE	01
36.	4.		ITNA	73SHE	01
36.	3.	D*	NAA	74OND	01
36.	3.		ITNA	75OND	01
36.			AA	76WEW	01
36.	4.		ITNA	76WEW	01
36.2			FAA	78GUI	01
37.	3.		ITNA	75RIC	01
37.6	1.4		ITNA	77MAE	01
38.	1.2		ICPES	81CHU	01
40.	3.		ITNA	75KLE	01
41.	10.		ITNA	76RAG	01
42.	2.	*	ITNA	82SUZ	02
43.		*4	AA	79REI	01
50.		*	ITNA	77GLU	01
W (ppb)					
	1500.	L*	WXRF	82MIL	01
450.	90.	*	ITNA	81WAN	01
630.	60.		ITNA	77MAE	01
650.	150.		ITNA	76RAG	01
710.	70.		IENA	77ROW	04
710.	80.		ITNA	82SUZ	02
740.	300.		ITNA	75RUC	01
750.	100.		IENA	77ROW	03
750.	170.		ITNA	75OND	01
750.			ITNA	77WEA	01
780.	80.		ITNA	79GRE	01
790.	170.		IENA	76STE	05
870.	200.		ITNA	77CAH	01
1900.	800.	*	ITNA	73SHE	01
Y (ppm)					
7.			AA	82GUP	02
7.4		34	WXRF	82MIL	01
7.6	0.81		OES	76WEW	01
7.9	0.6		EXRF	79GIA	01
8.			OES	82GUP	02
Yb (ppb)					
	2000.	L*	WXRF	82MIL	01
550.	40.		ITNA	73SHE	01
550.	80.		ITNA	76WEW	01
670.	20.		ICPES	81CHU	01
690.	40.		ITNA	75NAD	02
690.	40.		ITNA	78NAD	02
700.			AA	82GUP	02

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
700.	100.		ITNA	78LAU	02
700.	100.		ITNA	75OND	01
740.	90.		ITNA	77CAH	01
760.	30.		ITNA	76RAG	01
780.	70.		ITNA	75RUC	01
800.			ITNA	75MIL	01
810.	20.		ITNA	77MAE	01
840.	70.		ITNA	77ROW	03
840.	70.	5	ITNA	77ROW	04
880.	90.	5	ITNA	77ROW	04
910.	70.		OES	76WEW	01
950.	50.		IENA	77ROW	04
1000.	200.		NAA	76HAN	01
1000.	200.		ITNA	78MAC	01
1030.	80.		ITNA	82SUZ	02
1200.	200.	*	ITNA	81WAN	01
Zn (ppm)					
30.	10.	D*	NAA	74OND	01
30.	10.		ITNA	75OND	01
32.	3.		ITNA	78NAD	02
32.	8.		SSMS	77DON	01
32.	3.		ITNA	75NAD	02
33.	3.	9	ITNA	78LAU	02
34.	1.		EXRF	81KIN	01
34.		4	AA	79REI	01
34.			ITNA	77WEA	01
34.	9.		ITNA	77CAH	01
34.			XRF	75KLE	01
34.	17.		ITNA	76WEW	01
35.	5.		ITNA	77JER	01
35.	2.	12	ITNA	82SUZ	02
35.7	9.9		EXRF	79GIA	01
36.			ICPES	80NAD	01
36.	7.	6	PAA	82SEG	01
36.	0.6		RTNA	74ORV	01
36.6	1.4		EXRF	73SPA	01
37.	3.		PAA	77JER	01
37.	3.		PAA	76CHA	01
37.	6.		IENA	77ROW	04
37.			AA	76WEW	01
37.	10.		NAA	76HAN	01
37.2	17.4		ITNA	75RUC	01
37.5	2.8		PAA	74CHA	01
38.	5.		SSMS	77PAU	01
38.		34	WXRF	82MIL	01
38.1	1.4		RTNA	77JER	01
38.1	0.8		AF	75EPS	01
38.4	1.		AA	75EPS	01
38.4	0.9		AA	74RAI	01
38.5			AA	78GUI	01
39.	1.	7	AA	73TAL	01
39.	2.		ITNA	82SUZ	02
39.	3.		PAA	80SEG	01
39.			EXRF	82KEE	01
39.			ICPES	80NAD	01
39.	1.		FAA	74TAL	01
39.	6.	D*	ITNA	77ROW	04
39.	3.	6	PAA	82SEG	01
39.	6.		ITNA	77ROW	03
40.	1.2		ICPES	81CHU	01

TABLE V (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
40.8	4.		ITNA	81WAN	01
42.			ITNA	77GLU	01
43.	2.		ITNA	76RAG	01
45.	17.		OES	76WEW	01
50.	10.	*	ITNA	78LAU	02
52.	4.	*	ITNA	78MAC	01
58.	7.	*	ITNA	77MAE	01
Zr (ppm)					
	100.	L*	IENA	77ROW	04
	250.	L*	ITNA	77ROW	04
1.56	0.14	*	PAA	74CHA	01
16.	2.		PAA	76CHA	01
25.	0.75		ICPES	81CHU	01
25.	3.		OES	76WEW	01
28.	24.		ITNA	76RAG	01
33.	4.		EXRF	79GIA	01
38.		34	WXRF	82MIL	01
40.	4.	9	ITNA	78LAU	02
41.			ITNA	75MIL	01
45.			ITNA	75KLE	01
46.			AA	76WEW	01
85.	9.	*12	ITNA	82SUZ	02
90.	10.	*	ITNA	82SUZ	02

TABLE W

NBS SRM 1632A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppb)					
	3000.	L*	WXRF	82MIL	01
300.			ITNA	79CAH	01
Al (%)					
2.8	0.27		CPXRF	80KIR	01
2.9	0.05		TCGS	79AND	01
2.9	0.3		ITNA	80GER	01
2.93	0.03		AA	82NAD	02
2.95	0.04		XRF	79CAH	01
2.99	0.14		ITNA	83GLA	01
2.99	0.06		ITNA	82OBR	01
3.	0.05		ICPES	82NAD	02
3.01	0.13	D*	TCGS	80GER	01
3.01	0.13	D*	TCGS	80AND	01
3.01	0.13		TCGS	79FAI	01
3.07	0.13		ITNA	80GAR	01
9.47		*	EXRF	82EBD	02
As (ppm)					
6.4	2.1	*	CPXRF	80KIR	01
7.6		*11	FAA	82EBD	02
8.4		11	FAA	82EBD	02
8.88	1.22		ICPES	81NAD	01
9.	0.4		ITNA	80KOS	01
9.	0.4		ITNA	81KUL	01
9.		11	FAA	82EBD	02
9.2		34	WXRF	82MIL	01
9.27			AF	82WIL	01
9.34			FAA	82WIL	01
9.4	1.3		ITNA	79CAH	01
9.4	1.3		ITNA	82OBR	01
9.54	0.64		HAA	82NAD	01
9.6		11	FAA	82EBD	02
9.8		11	FAA	82EBD	02
9.9	0.5		PAA	80GER	01
10.2	0.4		ITNA	81JIN	01
11.	2.	*	ITNA	80GER	01
Ash (%)					
21.7			UU	82EBD	02
21.8		34	CB	82MIL	01
Au (ppb)					
	50.	L*	ITNA	79CAH	01
3.	1.		ITNA	80KOS	01
B (ppm)					
22.	3.	*	ICPES	81NAD	01
50.9	0.5		TCGS	79AND	01
52.	19.		ITNA	82SCH	05
52.7	1.8		TCGS	79FAI	01
53.	2.	D*	TCGS	80GER	01
53.	2.		TCGS	80AND	01
55.	4.	35	TCGS	81GLA	04

TABLE W (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ba (ppm)					
	7500.	L*	ITNA	80TOU	01
100.	13.		ITNA	81JIN	01
116.	7.	5	ITNA	80TOU	01
120.	10.		ICPES	82NAD	02
122.	11.		ITNA	80GER	01
125.		34	WXRF	82MIL	01
138.	20.		ITNA	79CAH	01
150.	26.		ITNA	80GAR	01
Bi (ppm)					
	1.	L*	WXRF	82MIL	01
Br (ppm)					
	550.	L*	ITNA	80TOU	01
39.6	1.9		ITNA	82OBR	01
40.	2.		ITNA	83GLA	01
41.	4.		ITNA	80GER	01
42.		34	WXRF	82MIL	01
43.	0.6		ITNA	81JIN	01
43.	7.		ITNA	79CAH	01
43.			ISE	81NAD	01
44.5	2.7	5	IENA	79GLA	02
44.9	0.9	5	IENA	79GLA	02
50.	4.	*5	ITNA	80TOU	01
C (%)					
62.7	0.06		CB	80SCH	02
65.	4.		TCGS	79AND	01
71.	4.	D*	TCGS	80GER	01
71.	4.	D*	TCGS	80AND	01
71.	4.		TCGS	79FAI	01
Ca (ppm)					
2100.	100.		PAA	80GER	01
2200.	300.		ITNA	83GLA	01
2300.	30.		AA	82NAD	02
2300.	100.		XRF	79CAH	01
2400.	200.	D*	TCGS	80GER	01
2400.	200.	D*	TCGS	80AND	01
2400.	200.		ITNA	80GER	01
2400.	30.		ICPES	82NAD	02
2400.	200.		TCGS	79FAI	01
2400.	200.	D*	TCGS	79AND	01
2450.	140.		ITNA	82OBR	01
2700.	175.		ITNA	80GAR	01
46500.		*	EXRF	82EBD	02
Cd (ppb)					
	600.	L*	AA	79CAH	01
	4000.	L*	WXRF	82MIL	01
150.	30.		TCGS	79AND	01
200.	50.		ITNA	80KOS	01
210.	30.	D*	TCGS	80AND	01
210.	30.	D*	TCGS	80GER	01
210.	30.		TCGS	79FAI	01

TABLE W (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ce (ppm)					
25.7	7.2		CPXRF	80KIR	01
26.	1.7		ITNA	79CAH	01
27.	4.		ITNA	81KUL	01
27.	4.		ITNA	80KOS	01
28.5	0.3		ITNA	81JIN	01
28.5	0.4		ICPES	82CRO	01
31.1	3.4		ITNA	80GAR	01
32.		34	WXRF	82MIL	01
32.	4.		ITNA	80GER	01
Cl (ppm)					
700.	100.		XRF	79CAH	01
750.	60.		ITNA	83GLA	01
760.		34	WXRF	82MIL	01
766.	30.		TCGS	79AND	01
770.	48.		ISE	81NAD	01
776.	36.		ITNA	82OBR	01
784.	17.	D*	TCGS	80GER	01
784.	17.	D*	TCGS	80AND	01
784.	17.		TCGS	79FAI	01
800.	70.		ITNA	80GER	01
897.	23.	*	ITNA	80GAR	01
Co (ppm)					
	250.	L*	ITNA	80TOU	01
5.86	0.21		ITNA	81JIN	01
6.		34	WXRF	82MIL	01
6.5	0.2		ITNA	80GER	01
6.5	0.5		ITNA	81KUL	01
6.6	0.5	5	ITNA	80TOU	01
6.6	1.1		ITNA	80GAR	01
6.8	0.3		ITNA	80KOS	01
7.5	0.4	*	ITNA	79CAH	01
Cr (ppm)					
26.	3.		ITNA	81KUL	01
26.	6.		ITNA	80KOS	01
33.3	1.6		ITNA	81JIN	01
34.	2.		ITNA	80GER	01
36.	2.		ITNA	79CAH	01
36.	6.		ITNA	80GAR	01
36.	3.5		CPXRF	80KIR	01
39.	8.8		AE+AF	82GOL	01
40.		34	WXRF	82MIL	01
Cs (ppm)					
1.9	0.6		ITNA	79CAH	01
2.	0.3		ITNA	80GER	01
2.3	0.11		ITNA	81JIN	01
2.4	0.8		ITNA	80GAR	01
2.4	0.2		ITNA	81KUL	01
2.5		34	WXRF	82MIL	01
2.5	0.2		IENA	80KOS	01

TABLE W (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Cu (ppm)					
15.9	0.4		AA	79CAH	01
16.	2.1		CPXRF	80KIR	01
17.		34	WXRF	82MIL	01
17.2	3.		FAA	80LAN	01
Dy (ppm)					
	2.5	L*	WXRF	82MIL	01
1.83	0.11		ITNA	82OBR	01
1.98	0.53	5	ITNA	80TOU	01
2.1	0.1		ICPES	82CRO	01
2.2	0.1		ITNA	79CAH	01
2.2	0.3		ITNA	80GER	01
2.56	0.26		ITNA	80GAR	01
Er (ppm)					
	3.	L*	WXRF	82MIL	01
0.91	0.05		ICPES	82CRO	01
Eu (ppb)					
	1000.	L*	WXRF	82MIL	01
460.	20.	*	ITNA	82OBR	01
490.	10.		ICPES	82CRO	01
510.	82.		ITNA	80GAR	01
510.	30.		ITNA	81JIN	01
540.	80.		ITNA	80KOS	01
540.	80.		ITNA	81KUL	01
550.	30.		ITNA	79CAH	01
550.	30.		ITNA	80GER	01
F (ppm)					
84.	8.		ISE	81NAD	01
95.			ISE	83KNA	01
Fe (%)					
1.07	0.03	*	XRF	79CAH	01
1.1	0.06		ITNA	81KUL	01
1.1	0.02		ITNA	81JIN	01
1.11	0.06	D*	TCGS	80GER	01
1.11	0.06	D*	TCGS	80AND	01
1.11	0.02		AA	82NAD	02
1.11	0.06		TCGS	79FAI	01
1.12	0.01		ITNA	80KOS	01
1.12	0.01		ICPES	82NAD	02
1.12	0.09		ITNA	80GAR	01
1.14	0.01		AA	79CAH	01
1.16	0.03		ITNA	80GER	01
1.16	0.37		ITNA	79CAH	01
1.17	0.04	*	TCGS	79AND	01
6.78		*	EXRF	82EBD	02
Ga (ppm)					
7.2	2.5		CPXRF	80KIR	01
7.84	0.6		ITNA	82OBR	01
8.	0.8		ITNA	80GER	01

TABLE W (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
8.4		34	WXRF	82MIL	01
8.5	0.8		ITNA	79CAH	01
Gd (ppm)					
1.9	0.2		TCGS	79AND	01
1.95	0.03	D*	TCGS	80GER	01
1.95	0.03		TCGS	79FAI	01
2.4	0.2		ICPES	82CRO	01
3.	0.05		TCGS	80AND	01
3.		34	WXRF	82MIL	01
Ge (ppm)					
2.5		34	WXRF	82MIL	01
H (%)					
3.68	0.07		TCGS	79AND	01
3.7	0.1	D*	TCGS	80GER	01
3.7	0.1	D*	TCGS	80AND	01
3.7	0.1		TCGS	79FAI	01
4.17	0.01		CB	80SCH	02
H2O-T (%)					
1.62			FD	80KHA	02
Hf (ppm)					
	2.	L*	WXRF	82MIL	01
	3.8	L*	ITNA	80TOU	01
1.44	0.09		ITNA	81JIN	01
1.55	0.08		ITNA	80GER	01
1.7	0.1		ITNA	79CAH	01
1.8	0.3		ITNA	80GAR	01
1.9	0.3	5	ITNA	80TOU	01
Hg (ppb)					
	1500.	L*	WXRF	82MIL	01
118.	14.		CVAA	80NAD	01
120.	50.		ITNA	80KOS	01
134.1	3.1		CVAA	82EBD	01
134.1			AF	82WIL	01
135.	18.		CVAA	82DOO	01
170.	20.		CVAA	81NAD	01
210.	90.		ITNA	81KUL	01
Ho (ppb)					
	2000.	L*	WXRF	82MIL	01
380.	50.		ICPES	82CRO	01
I (ppm)					
0.9		34	WXRF	82MIL	01
1.77			IENA	83GLA	01
1.8	0.2		ITNA	80GER	01

TABLE W (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
In (ppb)					
	1000.	L*	WXRF	82MIL	01
36.	4.		ITNA	80GER	01
36.	3.		ITNA	82OBR	01
40.	10.		ITNA	79CAH	01
K (ppm)					
3700.		*	XRF	79CAH	01
3800.	50.		ITNA	82OBR	01
4000.	200.		ITNA	81JIN	01
4100.	100.		TCGS	79AND	01
4100.	200.		ICPES	82NAD	02
4200.	200.	D*	TCGS	80GER	01
4200.	200.	D*	TCGS	80AND	01
4200.	200.		ITNA	80GER	01
4200.	200.		TCGS	79FAI	01
4200.	150.		AA	82NAD	02
4200.	200.		ITNA	79CAH	01
4300.	645.		ITNA	80GAR	01
14900.		*	EXRF	82EBD	02
La (ppm)					
10.9	0.5		ITNA	80KOS	01
12.8	0.5		ITNA	82OBR	01
13.03	0.3		ITNA	81JIN	01
14.5	0.2		ICPES	82CRO	01
15.	2.6		ITNA	80GAR	01
15.1	1.2		ITNA	79CAH	01
18.	2.		ITNA	80GER	01
19.		34	WXRF	82MIL	01
Li (ppm)					
36.2	0.1		AA	79CAH	01
Lu (ppb)					
	2000.	L*	WXRF	82MIL	01
134.	13.		ITNA	80KOS	01
150.	10.		ICPES	82CRO	01
180.	70.		ITNA	80GAR	01
180.	30.		ITNA	80GER	01
190.	20.		ITNA	81JIN	01
220.	40.		ITNA	79CAH	01
Mg (ppm)					
600.	300.	*	XRF	79CAH	01
990.	40.		AA	82NAD	02
1020.	10.		ICPES	82NAD	02
1300.	300.		ITNA	80GER	01
1400.	220.		ITNA	80GAR	01
19900.		*	EXRF	82EBD	02
Mn (ppm)					
20.	4.3		CPXRF	80KIR	01
26.	6.		AE+AF	82GOL	01
28.		34	WXRF	82MIL	01

TABLE W (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
29.	5.	D*	TCGS	80GER	01
29.	1.		ITNA	83GLA	01
29.	5.	D*	TCGS	80AND	01
29.	5.		TCGS	79FAI	01
31.5	1.1		ITNA	82OBR	01
32.	3.		ITNA	80GER	01
32.	9.		ITNA	79CAH	01
33.7	1.2		ITNA	80GAR	01
34.			ICPES	82NAD	02
720.		*	EXRF	82EBD	02
Mo (ppm)					
	4.	L*	ITNA	79CAH	01
2.		34	WXRF	82MIL	01
N (%)					
1.19	0.08		CHEML	81NAD	01
1.2	0.1		TCGS	79AND	01
1.26	0.03		CB	80SCH	02
1.27	0.08	D*	TCGS	80AND	01
1.27	0.08	D*	TCGS	80GER	01
1.27	0.08		TCGS	79FAI	01
Na (ppm)					
680.	38.		ITNA	79CAH	01
720.	40.		ITNA	82OBR	01
760.	160.		ITNA	83GLA	01
800.	50.		AA	82NAD	02
810.	30.		ICPES	82NAD	02
825.		34	WXRF	82MIL	01
850.	40.		ITNA	80GER	01
860.			ITNA	81JIN	01
884.	32.		ITNA	80GAR	01
940.	260.		XRF	79CAH	01
1025.	125.		ITNA	82SCH	05
4450.		*	EXRF	82EBD	02
Nb (ppm)					
4.		34	WXRF	82MIL	01
Nd (ppm)					
10.	2.		ITNA	80GER	01
11.		34	WXRF	82MIL	01
11.8	0.4	D*	TCGS	80AND	01
11.8	0.4		TCGS	79FAI	01
13.	0.1		ICPES	82CRO	01
15.6	3.7	*	ITNA	81JIN	01
Ni (ppm)					
15.7	0.6		AA	79CAH	01
18.	3.4		CPXRF	80KIR	01
19.	3.5		AE+AF	82GOL	01
19.4	1.4		ITNA	81JIN	01
20.4	2.		FAA	80LAN	01
22.		34	WXRF	82MIL	01
23.	4.		ITNA	79CAH	01
26.	4.	*	PAA	80GER	01

TABLE W (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
O (%)					
18.31	0.23	34	14NAA	80KHA	02
18.4	0.7		14NAA	80NAD	01
19.8	0.3	35	14NAA	80KHA	02
P (ppm)					
85.	17.	*	ICPES	81NAD	01
205.		34	WXRF	82MIL	01
280.	80.		XRF	79CAH	01
280.			AA	82NAD	02
280.	50.		ICPES	82NAD	02
1310.		*	EXRF	82EBD	02
Pb (ppm)					
6.9	0.9		ICPES	81NAD	01
8.3	1.9		CPXRF	80KIR	01
12.4	0.4		HAA	82NAD	01
13.		34	WXRF	82MIL	01
15.3	2.5		AA	79CAH	01
Pb-21 (PCi)					
0.449	0.024	D*	NM	81CAS	01
0.449	0.024		NM	80CAS	01
Pr (ppm)					
3.		34	WXRF	82MIL	01
3.3	0.1		ICPES	82CRO	01
Rb (ppm)					
	410.	L*	ITNA	80TOU	01
28.2	1.1		ITNA	81JIN	01
29.		34	WXRF	82MIL	01
29.	1.		ITNA	80GER	01
29.	5.		ITNA	81KUL	01
29.	5.	5	ITNA	80TOU	01
29.	5.		IENA	80KOS	01
29.	1.		PAA	80GER	01
30.	2.		ITNA	79CAH	01
34.	4.6	*	CPXRF	80KIR	01
S (%)					
1.19	0.01	*	XRF	79CAH	01
1.48	0.07		XRF	81NAD	01
1.59	0.02	D*	TCGS	80GER	01
1.59	0.02	D*	TCGS	80AND	01
1.59	0.09		TCGS	79AND	01
1.59	0.02		TCGS	79FAI	01
1.6	0.07		CPXRF	80KIR	01
1.62			UU	82EBD	02
Sb (ppb)					
410.	150.		HAA	82NAD	01
530.	50.		ITNA	80KOS	01
530.	50.		ITNA	81KUL	01

TABLE W (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
600.	90.		ITNA	80GER	01
620.	80.		ITNA	81JIN	01
690.	50.	5	ITNA	80TOU	01
800.	50.		ITNA	79CAH	01
1000.		*34	WXRF	82MIL	01
Sc (ppm)					
5.3	1.2	*	CPXRF	80KIR	01
6.	0.3		ITNA	81KUL	01
6.2	0.2		ITNA	79CAH	01
6.2		34	WXRF	82MIL	01
6.3	0.2	5	ITNA	80TOU	01
6.3	0.1		ITNA	80KOS	01
6.56	0.23		ITNA	80CAR	01
6.7	0.05		ITNA	81JIN	01
6.8	0.6		ITNA	80GER	01
6.9	0.9	5	ITNA	80TOU	01
Se (ppm)					
2.4		34	WXRF	82MIL	01
2.4	0.3		RTNA	80KNA	01
2.57	0.05		IENA	80KOS	01
2.58			FAA	82WIL	01
2.59			AF	82WIL	01
2.6	0.3		ITNA	80GER	01
3.	0.1		ITNA	79CAH	01
3.12	0.17	*	HAA	82NAD	01
Si (%)					
3.1	0.14	*	CPXRF	80KIR	01
5.8	0.1	D*	TCGS	80AND	01
5.8	0.1	D*	TCGS	80GER	01
5.8	0.1		TCGS	79FAI	01
5.92	0.01		XRF	79CAH	01
6.05	0.2		TCGS	79AND	01
6.09	0.07		ICPES	82NAD	02
6.21	0.08		AA	82NAD	02
27.79		*	EXRF	82EBD	02
Sm (ppm)					
	110.	L*	ITNA	80TOU	01
1.1	0.1	*	ITNA	80KOS	01
1.9	0.1	5	ITNA	80TOU	01
2.		34	WXRF	82MIL	01
2.1	0.07	D*	TCGS	80GER	01
2.1	0.07	D*	TCGS	80AND	01
2.1	0.07		TCGS	79FAI	01
2.1	0.05		TCGS	79AND	01
2.5	0.4		ITNA	80GAR	01
2.57	0.09		ITNA	81JIN	01
2.6	0.1		ITNA	79CAH	01
2.6	0.1		ICPES	82CRO	01
2.62	0.13		ITNA	82OBR	01
2.8	0.3		ITNA	80GER	01
Sn (ppm)					
1.		34	WXRF	82MIL	01
8.08	1.02		HAA	82NAD	01

TABLE W (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Sr (ppm)					
83.6	7.8		ITNA	82OBR	01
84.	9.		ITNA	80GER	01
90.		34	WXRF	82MIL	01
91.	18.		ITNA	79CAH	01
95.5	11.8		ITNA	81JIN	01
Ta (ppb)					
	2000.	L*	WXRF	82MIL	01
390.	50.		ITNA	79CAH	01
400.	30.		ITNA	80GER	01
450.	50.		ITNA	81JIN	01
Tb (ppb)					
	2000.	L*	WXRF	82MIL	01
290.	30.		ITNA	81JIN	01
300.	100.		ICPES	82CRO	01
320.	50.		ITNA	80GER	01
330.	40.		ITNA	79CAH	01
Te (ppb)					
	600.	L*	WXRF	82MIL	01
500.	50.		HAA	82NAD	01
Th (ppm)					
	1600.	L*	ITNA	80TOU	01
3.1	0.5	*	CPXRF	80KIR	01
4.2	0.3		ITNA	79CAH	01
4.2	0.2	5	ITNA	80TOU	01
4.3	0.9		ITNA	81KUL	01
4.3	0.3		ITNA	80KOS	01
4.48	0.04		ITNA	81JIN	01
4.8	0.2		ITNA	80GER	01
4.8	0.6		ITNA	80GAR	01
5.		34	WXRF	82MIL	01
Th (ppm)					
	1600.	L*	ITNA	80TOU	01
3.1	0.5	*	CPXRF	80KIR	01
4.2	0.3		ITNA	79CAH	01
4.2	0.2	5	ITNA	80TOU	01
4.3	0.9		ITNA	81KUL	01
4.3	0.3		ITNA	80KOS	01
4.48	0.04		ITNA	81JIN	01
4.8	0.2		ITNA	80GER	01
4.8	0.6		ITNA	80GAR	01
5.		34	WXRF	82MIL	01
Th-228 (PCi)					
0.499	0.011	D*	NM	81CAS	01
0.499	0.011		NM	80CAS	01
Th-230 (PCi)					
0.452	0.017	D*	NM	81CAS	01
0.452	0.017		NM	80CAS	01

TABLE W (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Th-232 (PC1)					
0.484	0.018	D*	NM	81CAS	01
0.484	0.018		NM	80CAS	01
Ti (ppm)					
1480.	30.		TCGS	79AND	01
1550.	40.	D*	TCGS	80GER	01
1550.	40.	D*	TCGS	80AND	01
1550.	40.		TCGS	79FAI	01
1600.	40.		ICPES	82NAD	02
1600.		34	WXRF	82MIL	01
1620.	45.		ITNA	82OBR	01
1630.	70.		ITNA	80GER	01
1700.	300.		CPXRF	80KIR	01
1720.	170.		ITNA	80GAR	01
1760.			AA	82NAD	02
1800.	100.		XRF	79CAH	01
5990.		*	EXRF	82EBD	02
Tl (ppm)					
	1.	L*	WXRF	82MIL	01
Tm (ppb)					
	1000.	L*	WXRF	82MIL	01
400.	100.		ICPES	82CRO	01
U (ppm)					
	62.	L*	ITNA	80TOU	01
1.		*34	WXRF	82MIL	01
1.1	0.2		ITNA	79CAH	01
1.12	0.4		ITNA	81KUL	01
1.16	0.11		ITNA	81JIN	01
1.2	0.1	5	ITNA	80TOU	01
1.21	0.1		ITNA	80GER	01
1.24	0.1		IENA	81KUL	02
1.24	0.04		IENA	80KOS	01
1.26	0.08		DNA	83GLA	01
1.28	0.08		DNA	80GAR	01
1.3	0.1	35	DNA	81GLA	04
1.3	0.11		ITNA	82OBR	01
1.45	0.05	*35	DNA	81GLA	03
U-234 (PC1)					
0.448	0.012		NM	80CAS	01
0.448	0.012	D*	NM	81CAS	01
U-235 (FC1)					
22.8	1.9		NM	80CAS	01
22.8	1.9	D*	NM	81CAS	01

TABLE W (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
U-238 (PC1)					
0.444	0.016		NM	80CAS	01
0.444	0.016	D*	NM	81CAS	01
V (ppm)					
42.	4.2		FAA	80LAN	01
43.		34	WXRF	82MIL	01
43.4	1.8		ITNA	82OBR	01
44.	3.		ITNA	80GER	01
45.	2.		ITNA	83GLA	01
46.		6	AE+AF	82GOL	01
46.	8.2		CPXRF	80KIR	01
46.9	2.5		ITNA	80GAR	01
48.	7.	6	AE+AF	82GOL	01
W (ppb)					
	1500.	L*	WXRF	82MIL	01
600.	200.		ITNA	80GER	01
780.	230.		ITNA	82OBR	01
890.	150.		ITNA	81JIN	01
1000.	300.		ITNA	79CAH	01
Y (ppm)					
5.8	0.5		PAA	80GER	01
8.3	0.5		ICPES	82CRO	01
9.5		34	WXRF	82MIL	01
Yb (ppm)					
	2200.	L*	ITNA	80TOU	01
	2.	L*	WXRF	82MIL	01
0.9	0.01		ICPES	82CRO	01
0.98	0.08		ITNA	80GER	01
0.98	0.07		ITNA	81JIN	01
1.1	0.1	5	ITNA	80TOU	01
1.2	0.1		ITNA	79CAH	01
Zn (ppm)					
24.3	4.		AA	79CAH	01
27.	6.		ITNA	79CAH	01
28.	3.7		CPXRF	80KIR	01
28.		34	WXRF	82MIL	01
30.	3.		ITNA	80KOS	01
31.	6.		ITNA	80GER	01
Zr (ppm)					
47.	6.		ITNA	80GER	01
55.		34	WXRF	82MIL	01
57.	5.		PAA	80GER	01

TABLE X

NBS SRM 1633—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppb)					
	400.	L*	PAA	76CHA	01
	4000.	L*	EXRF	77GIA	01
	1000.	L*	OES	76WEW	01
	300.	L*	ICPES	81CHU	01
	100.	D*	ITNA	78RYA	01
	600.	L*	IENA	80GLA	03
	100.	L*	ITNA	77CHA	01
	500.	L*	UU	80HEN	01
	400.	D*	PAA	77CHA	01
258.	20.		RTNA	77NAD	02
350.			AA	76WEW	01
1320.	130.		PAA	74CHA	01
Al (%)					
10.4	0.6	*	ITNA	78MAC	01
10.96	0.402	*	ITNA	73SHE	01
11.6			ICPES	80NAD	01
11.7	2.		XRF	79SMI	01
11.8	0.8		ITNA	76BLO	01
12.	1.		ITNA	76OND	01
12.1	0.5		ITNA	76RAG	01
12.2	0.5		14NAA	81WIL	02
12.2	0.3		ITNA	77MAE	01
12.3	0.6	D*	ITNA	78RYA	01
12.3		35	TCGS	78GLA	04
12.3	0.5		ITNA	76WEW	01
12.3	0.6		ITNA	77CHA	01
12.35	0.25		ITNA	77ROW	03
12.35	0.25		ITNA	76STE	05
12.4	0.7	35	ITNA	81GLA	03
12.5			ITNA	75KLE	01
12.5	0.3		ICPES	80NAD	01
12.6	0.4		ITNA	73ABE	01
12.6	0.2	D*	TCGS	80AND	01
12.6	0.1	35	ITNA	81GLA	02
12.6	0.2		TCGS	79FAI	01
12.6	0.7		AA	76OND	01
12.7	0.05		FAA	77PIL	01
12.7			AA	79SIL	01
12.7			UU	80HEN	01
12.7	0.5		ITNA	75OND	01
12.7			OES	80WAL	01
12.7			ITNA	78WEA	01
12.8	0.3		ITNA	78LAU	02
12.8			ICPES	80FLO	01
12.99	0.47		ICPES	81CHU	01
13.	2.6		OES	76WEW	01
13.	0.2		TCGS	79AND	01
13.6	0.5		14NAA	81WIL	01
14.	1.		AA	80STO	02
14.			OES	78SUG	01
14.1	2.8	*	ITNA	81WAN	01
14.3	1.1	*	ITNA	78NAD	02
14.3	1.1	*	ITNA	75NAD	02
As (ppm)					
46.		*	ITNA	78KEL	02
49.	5.	*	ITNA	76KUC	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
50.		*6	SSMS	78GUI	01
54.	1.		IENA	78WAN	01
54.	3.		ITNA	78MAC	01
54.			ITNA	75KLE	01
55.	10.		ICPES	81CHU	01
55.			FAA	78GUI	01
55.8	1.4	H	AE+AF	77FEL	01
56.			ICPES	80FLO	01
56.	1.	H	FAE	79FEL	01
56.6	3.6		ITNA	81WAN	01
57.	3.	35	NAA	81GLA	03
57.			ICPES	82NYG	01
57.	4.		ITNA	75OND	01
58.	1.	35	RTNA	78GLA	02
58.	4.	D*	NAA	74OND	01
58.	4.		FAA	78HAY	01
58.	2.		IENA	76STE	05
58.	1.		ITNA	76BLO	01
58.1	1.6		RTNA	81GAL	02
58.1	1.6		RTNA	81GAL	01
59.	2.	35	VV	81GLA	04
59.	4.	D*	ITNA	78RYA	01
59.	3.5		HAA	77SMI	01
59.	4.		ITNA	77CHA	01
59.			ITNA	78WEA	01
59.1	4.8		IENA	77ROW	04
59.8	2.		IENA	77ROW	03
60.	3.		GCMES	75TAL	01
60.			UU	80HEN	01
60.	2.6	D*	PAA	77CHA	01
60.	2.6		NAA	77JER	01
60.	2.6		PAA	76CHA	01
60.4	0.8	35	IENA	80GLA	03
60.7	2.6		PAA	74CHA	01
61.	5.		ITNA	73ABE	01
61.	4.		ITNA	76OND	01
61.	3.		RTNA	74ORV	01
61.5	2.4		ITNA	77ROW	04
61.5	3.		PAA	75OND	01
62.			XRF	78CAM	02
63.	4.		FAE	80DSI	01
63.	4.		PAA	80SEG	01
63.	4.	6	PAA	82SEG	01
63.	7.		EXRF	77GIA	01
63.	4.	6	PAA	82SEG	01
63.7	3.6		HAA	82NAD	01
64.	2.		ITNA	78LAU	02
64.	4.		ITNA	76RAG	01
64.	1.		PAA	76KAT	03
65.	1.		PAA	76KAT	02
66.	1.		XRF	79SMI	01
66.3	10.1		FAA	82BEN	01
67.6	0.6		ITNA	75NAD	02
68.	6.		ITNA	78NAD	02
68.	12.		14NAA	81WIL	02
68.	15.		ITNA	76WEW	01
68.	12.		14NAA	81WIL	01
69.5	7.6		ITNA	73SHE	01
72.		*6	SSMS	78GUI	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Au (ppb)					
	30000.	L*	OES	76WEW	01
	8000.	L*	14NAA	81WIL	01
	300.	L*	ICPES	81CHU	01
	500.	L*	UU	80HEN	01
2.75	0.2		RTNA	77NAD	02
4.84	0.13		RTNA	77NAD	01
8.	2.	D*	ITNA	78RYA	01
8.	2.		ITNA	77CHA	01
1700.		*	ITNA	78WEA	01
B (ppm)					
100.		*	UU	80HEN	01
320.			COLOR	79DAL	01
340.			OES	79DAL	01
407.			ICPES	80NAD	01
433.	4.	D*	TCGS	80AND	01
433.	4.		TCGS	79FAI	01
443.	5.		TCGS	79AND	01
450.	20.		ICPES	820WE	01
490.	14.	6	TCGS	76GLA	01
492.	13.	6	TCGS	76GLA	01
497.	14.	6	TCGS	76GLA	01
500.	29.		OES	76WEW	01
Ba (ppm)					
1800.		*	XRF	76WEW	01
2100.	100.	*	14NAA	81WIL	01
2300.	100.		AA	760ND	01
2370.			ICPES	80NAD	01
2490.			ITNA	75MIL	01
2500.	250.		ITNA	81WAN	01
2500.			UU	80HEN	01
2500.	300.		ITNA	76WEW	01
2510.	50.		IENA	77ROW	04
2510.	200.		ITNA	760ND	01
2510.	160.		ITNA	76RAG	01
2520.			AA	79SIL	01
2540.			XRF	78CAM	02
2540.	51.		IENA	76STE	05
2540.	50.		IENA	77ROW	03
2550.	110.		14NAA	81WIL	02
2550.	30.		ITNA	77ROW	04
2580.	170.		ITNA	76STE	05
2600.	170.	5	IENA	80GLA	03
2600.	160.		PAA	76CHA	01
2600.	300.		ITNA	78LAU	02
2600.	160.	D*	PAA	77CHA	01
2610.	210.		PAA	74CHA	01
2630.	20.		XRF	79SMI	01
2660.	150.		ITNA	83GLA	01
2670.	85.		EXRF	77GIA	01
2700.			ITNA	78WEA	01
2700.	200.		ITNA	78NAD	02
2700.	200.		ITNA	750ND	01
2700.	200.		ITNA	75NAD	02
2710.	190.		ITNA	77CHA	01
2710.	190.	D*	ITNA	78RYA	01
2720.	80.	5	IENA	80GLA	03

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
2734.	167.		ITNA	73SHE	01
2750.	140.	5	IENA	80GLA	03
2780.			ITNA	75KLE	01
2800.	100.	35	ITNA	81GLA	03
2800.			ICPES	80FLO	01
2800.	100.	9	ITNA	78LAU	02
2800.	200.	35	ITNA	81GLA	02
2840.	180.	35	NAA	81GLA	04
2880.	100.		ITNA	77MAE	01
2900.	120.		FAA	760WE	01
2900.	200.	5	IENA	80GLA	03
3000.	600.		OES	76WEW	01
3200.	400.	*	ITNA	78MAC	01
3400.	400.	*	ITNA	73ABE	01
Be (ppm)					
5.		*	UU	80HEN	01
10.1		*6	FAA	79GEL	01
10.9			ICPES	80NAD	01
11.			ICPES	80FLO	01
11.			OES	78SUG	01
12.			AA	79SIL	01
12.	1.	35	FAA	76GLA	02
12.			AA	76WEW	01
12.	0.8		FAA	750WE	01
12.1		6	FAA	79GEL	01
12.3	0.3		FAA	760WE	01
12.4	0.31		AA	74RAI	01
12.6	0.25		ICPES	81CHU	01
12.6		6	FAA	79GEL	01
12.6	0.5		AA	760ND	01
13.2		6	FAA	79GEL	01
13.5		6	FAA	79GEL	01
14.	0.95	*	OES	76WEW	01
Bi (ppm)					
	1.	L*	PAA	76CHA	01
	1.	D*	PAA	77CHA	01
	10.	L*	OES	76WEW	01
0.7			UU	80HEN	01
1.08			PAA	74CHA	01
Br (ppm)					
	10.	L*	IENA	80GLA	03
5.8	0.8	35	IENA	79GLA	02
6.	2.		EXRF	77GIA	01
6.			ITNA	75KLE	01
6.	1.		ITNA	78MAC	01
6.4	0.2	35	ITNA	81GLA	03
6.5	0.2	5	IENA	80GLA	03
6.7	0.6		ITNA	76RAG	01
6.9	0.3	35	NAA	81GLA	04
7.	1.		ITNA	78LAU	02
7.5	0.5		ITNA	78NAD	02
7.52	0.46		ITNA	75NAD	02
7.7	1.5		IENA	76STE	05
8.4	1.5		IENA	77ROW	03
9.2	0.6		ITNA	77ROW	04
9.2	0.8		IENA	77ROW	04
9.5			XRF	78CAM	02

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
10.			UU	80HEN	01
11.2	3.5	D*	ITNA	78RYA	01
11.2	3.5		ITNA	77CHA	01
12.	4.		ITNA	73ABE	01
12.	4.		ITNA	75OND	01
12.			ITNA	78WEA	01
12.1	1.5		ITNA	73SHE	01
C (%)					
3.05	0.05		CB	79SIL	01
3.3			UU	80HEN	01
3.45	0.02		GRAV	79SIL	01
Ca (%)					
3.5		*	XRF	76WEW	01
3.8		*35	TCGS	78GLA	04
3.92	0.28		PAA	74CHA	01
4.1	0.36		*ITNA*	*73SHE*	*01*
4.2			UU	80HEN	01
4.2	0.2		ITNA	76RAG	01
4.21	0.09		ITNA	78NAD	02
4.21	0.09		ITNA	75NAD	02
4.3	0.3	35	ITNA	81GLA	02
4.3			AA	79SIL	01
4.3	0.2		AA	76OND	01
4.34			ITNA	75KLE	01
4.4	0.18		14NAA	81WIL	02
4.4	0.4	D*	PAA	77CHA	01
4.4	0.4		PAA	76CHA	01
4.4	0.4		ITNA	75OND	01
4.5	0.6	35	INNA	*80GLA*	*03*
4.5			ICPES	*80FLO*	*01*
4.5	0.5	D*	ITNA	78RYA	01
4.5	0.5		ITNA	77CHA	01
4.6	0.5		*ITNA*	*78LAU*	*02*
4.6			EXRF	78WEG	01
4.62	0.06		ICPES	80NAD	01
4.62	0.15		EXRF	78PEL	01
4.65	0.15		ICPES	81CHU	01
4.69	0.14		ITNA	76STE	05
4.69	0.14		ITNA	77ROW	03
4.7			OES	80WAL	01
4.7	0.3		ITNA	77MAE	01
4.73	0.42		ITNA	81WAN	01
4.75	0.08	D*	TCGS	*80AND*	*01*
4.75	0.08		TCGS	*79FAI*	*01*
4.8			ICPES	80NAD	01
4.8	0.96		OES	76WRW	01
4.9	0.2		AA	80STO	02
4.9	0.2		TCGS	79AND	01
5.	1.1		ITNA	76OND	01
5.04			XRF	78CAM	02
5.09	0.56		14NAA	77VAN	01
5.1	0.03		PAA	76WAT	03
5.1	0.6		ITNA	76WEW	01
5.1	0.03		PAA	76KAT	02
5.11	0.13		XRF	79SMI	01
5.3	0.1		EXRF	77NIE	01
5.3	0.5		PAA	75OND	01

TABLE X (cont)

CONC	*UNCER*	*COMMENT*	ANAL METH	REF CODE	REF NUM
Cd (ppm)					
	4.	L*	EXRF	77GIA	01
	5.	L*	*OES*	*76WEW*	*02*
0.93		*	POT	82CHR	01
1.		*	ITNA	76WEW	01
1.2	0.2		PAA	80SEG	01
1.2	0.06	7	AA	73TAL	01
1.2	0.1	6	PAA	82DDG	01
1.2	0.04		PAA	74TAL	01
1.2	0.2	6	PAA	*82SEG*	*01*
1.3	0.25		PAA	76OWE	01
1.4	*0.16*		*TCGS*	*79AND*	*01*
1.43	0.07		RTNA	81GAL	01
1.43	0.04		RTNA	74ORV	01
1.43			FAA	78GUI	01
1.43	0.07		RTNA	81GAL	02
1.45	0.04		AA	75RPS	01
1.46			AE+AF	77PEL	01
1.46	0.05		AA	74RAI	01
1.5	0.09	7	AA	73TAL	01
1.5	*0.1*		*NAA*	*77JER*	*01*
1.5	0.07	D*	TCGS	80AND	01
1.5	0.5		ICPES	81CHU	01
1.5	0.1		PAA	*76CHA*	*01*
1.5	0.07		TCGS	79FAI	01
1.5	0.1	D*	PAA	77CHA	01
1.5			*POL*	*74MAI*	*01*
1.5	0.15		PAA	74RAI	01
1.5	0.09		PAA	74TAL	01
1.52	0.08		AP	75EPS	01
1.52	0.07		PAA	*74CHA*	*01*
1.53			AA	*76WEW*	*01*
1.55			F&A	79SIL	01
1.6	0.15	7	AE+AF	73TAL	01
1.6	0.2	6	TCGS	76GLA	01
1.6	0.5		ICPES	80EPS	03
1.6	0.15		FAE	74TAL	01
1.63	0.07	8	SSMS	80KOP	01
1.69			AA	78GEL	01
1.7	*0.2*		*AA*	*76OND*	*01*
1.85		*	IDMS	75KLE	01
15.		*	UU	80HEN	01
Ce (ppm)					
125.		*	UU	*80HEN*	*01*
129.	10.	*	*ITNA*	*73SHE*	*01*
136.	5.		14NAA	81WIL	01
136.	8.		14NAA	81WIL	02
140.			ICPES	80FLO	01
140.	*10.*	D*	*ITNA*	*78RYA*	*01*
140.	*10.*		ITNA	77CHA	01
141.	7.		ITNA	81WAN	01
145.	5.		ITNA	78LAU	02
145.	6.		ITNA	76WEW	01
146.			*ITNA*	*82GLA*	*02*
146.	15.		ITNA	75OND	01
146.	17.		ITNA	76OND	01
148.	7.	35	ITNA	*81GLA*	*02*
148.	6.		ITNA	76RAG	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
149.	7.	35	NAA	81GLA	04
149.	4.		XRF	79SMI	01
149.6	2.	D*	ITNA	77ROW	04
149.6	2.		ITNA	77ROW	03
150.6	3.3		IENA	77ROW	04
152.	10.		PAA	76CHA	01
152.	10.	D*	PAA	77CHA	01
153.	3.	35	ITNA	81GLA	03
153.	2.		PAA	76KAT	03
153.	1.		PAA	76KAT	02
154.	8.	35	IENA	80GLA	03
154.			XRF	78CAM	02
157.	3.2		ICPES	81CHU	01
160.	23.		EXRF	77GIA	01
161.	35.		ITNA	75NAD	02
161.	35.		ITNA	78NAD	02
169.		*	ITNA	75MIL	01
176.	4.	*	ITNA	78MAC	01
200.	100.	*	OES	76WEW	01
210.	34.	*	SSMS	78SUG	02
Cl (ppm)					
	500.		ITNA	73ABE	01
19.6	0.1		PAA	74CHA	01
20.	2.		ITNA	78NAD	02
20.	2.		ITNA	75NAD	02
25.	7.	D*	PAA	77CHA	01
25.	7.		PAA	76CHA	01
32.	10.	D*	ITNA	78RYA	01
32.	10.		ITNA	77CHA	01
40.	8.		ITNA	78MAC	01
42.			ITNA	78WEA	01
42.	10.		ITNA	75OND	01
50.			UU	80HEN	01
52.	15.		ITNA	81WAN	01
56.		35	ITNA	81GLA	03
58.	9.		ITNA	77MAE	01
185.	44.	*	ITNA	73SHE	01
Co (ppm)					
	52.	L*	XRF	78CAM	02
	150.	L*	XRF	81COH	02
	130.	L*	EXRF	77GIA	01
26.		*	ICPES	80NAD	01
32.	2.	*	AA	77MIT	01
35.	2.		ITNA	76KUC	01
35.4	2.8		PAA	74CHA	01
36.2	1.1		ITNA	76BLO	01
36.7	3.9		ITNA	75NAD	02
37.	4.		ITNA	78NAD	02
38.			ITNA	78WEA	01
38.	2.	35	IENA	80GLA	03
38.	0.96		OES	76WEW	01
38.	2.		ITNA	78MAC	01
38.6	3.7		ITNA	73SHE	01
39.			AA	76WEW	01
39.4	1.2		ITNA	76RAG	01
39.8	0.9		ITNA	81WAN	01
40.	2.	35	NAA	81GLA	04
40.	2.		PAA	76CHA	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
40.	2.		ITNA	73ABE	01
40.	2.		ITNA	76OND	01
40.	2.	D*	PAA	77CHA	01
40.	4.		FAA	76OWE	01
40.1	0.6		ITNA	83GLA	01
40.3	0.4		ITNA	77ROW	03
40.3	0.4	D*	ITNA	77ROW	04
41.			ICPES	80FLO	01
41.	1.		ITNA	78LAU	02
41.	3.		ITNA	76WEW	01
41.	2.	35	ITNA	81GLA	03
41.	0.6		IENA	77ROW	04
41.	1.2		ICPES	81CHU	01
41.	1.	35	ITNA	81GLA	02
41.5	1.2		ITNA	75OND	01
42.	1.6	D*	ITNA	78RYA	01
42.			FAA	79SIL	01
42.	6.		AA	76OND	01
42.			ITNA	75MIL	01
42.	3		PAA	76KAT	02
42.	1.6		ITNA	77CHA	01
42.	5.		PAA	76KAT	03
45.	16.		14NAA	81WIL	01
45.	16.		14NAA	81WIL	02
46.			ITNA	75KLE	01
50.		*	UU	80HEN	01
Cr (ppm)					
	150.	L*	14NAA	81WIL	02
	150.	L*	14NAA	81WIL	01
112.			XRF	78CAM	02
113.	1.5		ITNA	75NAD	02
113.	2.		ITNA	78NAD	02
113.			FAA	78GUI	01
114.			ICPES	80NAD	01
117.	7.		ITNA	76RAG	01
117.		6	SSMS	78GUI	01
118.	8.		ITNA	76WEW	01
118.	6.		ITNA	76OND	01
120.	5.		ITNA	78MAC	01
120.			OES	78SUG	01
120.	4.		AA	76OND	01
122.	12.		ITNA	73SHE	01
123.			ICPES	80FLO	01
124.	14.		XRF	79SMI	01
126.	11.		ITNA	76BLO	01
127.	6.	D*	NAA	74OND	01
127.	6.		ITNA	75OND	01
128.	5.	35	ITNA	81GLA	02
128.			AA	79SIL	01
128.	5.	35	ITNA	81GLA	04
128.			ITNA	78WEA	01
128.5	8.5		AA	77MIT	01
129.	3.9		ICPES	81CHU	01
129.2	2.7		ITNA	77ROW	03
129.2	2.7	D*	ITNA	77ROW	04
130.	4.		ITNA	83GLA	01
130.			UU	80HEN	01
130.			AA	76WEW	01
130.	5.	9	ITNA	78LAU	02
131.	8.		ITNA	73ABE	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
131.	6.1		PAA	74CHA	01
131.	8.		EXRF	78PEL	01
131.	6.		PAA	76CHA	01
131.			EXRF	78WEG	01
131.	6.	D*	PAA	77CHA	01
131.	9.		ITNA	76KUC	01
131.7	4.6		RTNA	81GAL	01
131.7	4.6		RTNA	81GAL	02
132.	3.3		AA	74RAI	01
132.	10.		FAA	76OWE	01
132.3	0.35		RTNA	74MCC	01
134.	9.	35	ITNA	81GLA	03
135.			AA	78WEG	01
135.	14.		IENA	77ROW	04
135.	6.		ITNA	77CHA	01
135.			AA	78GUI	01
135.	6.	D*	ITNA	78RYA	01
137.	16.		ITNA	81WAN	01
138.			ITNA	75KLE	01
140.	15.		ITNA	78LAU	02
142.	13.		PAA	76KAT	03
142.	9.		PAA	76KAT	02
150.	13.		OES	76WEW	01
159.	115.	*	EXRF	77GIA	01
175.		*6	SSMS	78GUI	01
180.		*	ITNA	75MIL	01
Cs (ppm)					
	10.	L*	EXRF	77GIA	01
5.8	1.4	*	ITNA	78NAD	02
5.81	1.4	*	ITNA	75NAD	02
7.3	1.		ITNA	78LAU	02
7.7	1.3		ITNA	76WEW	01
8.	1.		PAA	76CHA	01
8.	1.	D*	PAA	77CHA	01
8.1	0.5	9	ITNA	78LAU	02
8.2	0.4		ITNA	83GLA	01
8.2	0.9		IENA	76STE	05
8.2	0.5		ITNA	76OND	01
8.3	0.4	35	ITNA	81GLA	02
8.3	1.		ITNA	77CHA	01
8.3	0.9		IENA	77ROW	03
8.3	1.	D*	ITNA	78RYA	01
8.4	0.5		ITNA	77ROW	04
8.42	0.22		IENA	77ROW	04
8.5	0.5		ITNA	78MAC	01
8.6			ITNA	78WEA	01
8.6	1.1		ITNA	75OND	01
8.6	0.8		ITNA	76RAG	01
8.7	0.3	35	IENA	80GLA	03
8.7	0.7	35	NAA	81GLA	04
8.8	0.4	35	ITNA	81GLA	03
8.9	0.8		ITNA	81WAN	01
9.4			ITNA	75MIL	01
9.9	0.8		ITNA	73ABE	01
10.			UU	80HEN	01
10.	1.		14NAA	81WIL	02
13.8	1.4	*	ITNA	73SHE	01
0.63	0.06	*	PAA	74CHA	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Cu (ppm)					
	300.	L*	ITNA	73ABE	01
70.2	1.8	*	AA	77MIT	01
110.	11.	*	OES	76WEW	01
115.	8.		ITNA	77ROW	03
115.	8.		ITNA	76STE	05
119.	5.		AA	76OND	01
120.			UU	80HEN	01
120.			ICPES	80FLO	01
121.			AA	79SIL	01
123.			EXRF	78WEG	01
124.			XRF	78CAM	02
124.	19.		FAA	76OWE	01
125.			AA	78GUI	01
125.	10.		ITNA	77CHA	01
125.	13.		EXRF	78PEL	01
125.	10.	D*	ITNA	78RYA	01
127.			AA	78GEL	01
128.	3.9		ICPES	81CHU	01
129.			AA	78WEG	01
129.	5.	8	SSMS	80KOP	01
129.			AA	76WEW	01
130.	5.		AA	80STO	02
130.	2.2		AA	74RAI	01
131.		6	SSMS	78GUI	01
131.			AE+AF	77FEL	01
131.			FAA	78GUI	01
133.			XRF	75KLE	01
133.	4.		EXRF	77GIA	01
134.	11.	6	PAA	82SEG	01
135.	3.		XRF	79SMI	01
136.			ICPES	80NAD	01
136.	6.	35	RTNA	77GLA	01
137.	7.		ITNA	76BLO	01
140.	10.		XRF	81COH	02
140.	20.	6	PAA	82SEG	01
140.	20.		PAA	80SEG	01
142.	9.		ITNA	73SHE	01
145.		*6	SSMS	78GUI	01
198.	61.	*	ITNA	81WAN	01
Dy (ppm)					
	30.	L*	OES	76WEW	01
7.6	2.4	*	ITNA	73SHE	01
9.	2.		ITNA	78MAC	01
9.4	0.5		ITNA	76STE	05
9.4	0.5		ITNA	77ROW	03
10.2			ITNA	75MIL	01
10.2		35	ITNA	81GLA	04
10.3	0.4	35	ITNA	81GLA	02
10.9			ITNA	75NAD	02
10.9			ITNA	78NAD	02
12.1	0.6		ITNA	76OND	01
19.	3.	*	SSMS	78SUG	02
Er (ppm)					
	100.	L*	OES	76WEW	01
	300.	L*	OES	76WEW	01
11.	2.		SSMS	78SUG	02

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Eu (ppm)					
1.9	0.2	*	ITNA	76OND	01
2.	2.	*35	IENA	80GLA	03
2.		*	ICPES	80FLO	01
2.3	0.1		ITNA	73ABE	01
2.39	0.11		ITNA	76RAG	01
2.42	0.16		ITNA	73SHE	01
2.44	0.19		ITNA	76STE	05
2.49	0.15	35	ITNA	81GLA	02
2.5	0.4		ITNA	75OND	01
2.5	0.16	35	ITNA	81GLA	04
2.5			ITNA	78WEA	01
2.56	0.07		ITNA	83GLA	01
2.57	0.19		ITNA	77ROW	03
2.6	0.2		ITNA	81WAN	01
2.6	0.2		ITNA	76WEW	01
2.62	0.05		ITNA	78NAD	02
2.62	0.05		ITNA	75NAD	02
2.69	0.09		ITNA	77ROW	04
2.7	0.1		ITNA	78LAU	02
2.79			ITNA	82GLA	02
2.8	0.13		OES	76WEW	01
2.86			ITNA	75KLE	01
2.9	0.2	35	ITNA	81GLA	03
3.	0.15		ICPES	81CHU	01
3.1			ITNA	75MIL	01
5.3	1.2	*	SSMS	78SUG	02
F (ppm)					
10.			UU	80HEN	01
20.			AA	76WEW	01
Fe (%)					
4.23	0.3	*	PAA	76KAT	03
4.24	0.19	*	PAA	76KAT	02
4.4		*	AA	78GUI	01
5.278	0.56	*	ITNA	73SHE	01
5.6	2.8		OES	76WEW	01
5.6	0.2		ITNA	76WEW	01
5.7	0.3		ITNA	76KUC	01
5.8	0.3	5	IENA	80GLA	03
5.8			OES	78SUG	01
5.8			AA	78WEG	01
5.9	0.2	5	IENA	80GLA	03
5.91	0.16		IENA	77ROW	04
5.94			XRF	78CAM	02
5.96	0.16		XRF	79SMI	01
6.	0.3		ITNA	76OND	01
6.			ICPES	80FLO	01
6.			XRF	76WEW	01
6.	0.2		ICPES	80EPS	03
6.	0.4		AA	79WEG	01
6.03	0.16		ITNA	81WAN	01
6.08	0.52		PAA	74CHA	01
6.09	0.03		ITNA	83GLA	01
6.1	0.3	35	NAA	81GLA	04
6.1	0.1	D*	TCGS	80AND	01
6.1	0.2		PAA	76CHA	01
6.1	0.1		TCGS	79FAI	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
6.1	0.2	D*	PAA	77CHA	01
6.16	0.3		EXRF	78PEL	01
6.17	0.41		ITNA	75NAD	02
6.17	0.41		ITNA	78NAD	02
6.198	0.102		AA	77MIT	01
6.2	0.3	D*	NAA	74OND	01
6.2	0.04		ICPES	80NAD	01
6.2			EXRF	78WEG	01
6.2			OES	80WAL	01
6.2	0.1		AA	76OND	01
6.2	0.4	D*	ITNA	78RYA	01
6.2	0.3		ITNA	75OND	01
6.2	0.05	D*	ITNA	77ROW	04
6.2	0.4		ITNA	77CHA	01
6.2	0.6		XRF	81COH	02
6.2	0.0		ITNA	77ROW	03
6.2	0.1		EXRF	77NIE	01
6.22	0.08		TCGS	79AND	01
6.22	0.48		EXRF	77GIA	01
6.23	0.1		ITNA	78LAU	02
6.23	0.14	35	ITNA	81GLA	02
6.3	0.1		ITNA	78MAC	01
6.3	0.4	35	ITNA	81GLA	03
6.32			ICPES	80NAD	01
6.35			ITNA	78WEA	01
6.37			ITNA	75KLE	01
6.4	0.15		14NAA	81WIL	02
6.4			AA	79SIL	01
6.46	0.14		ICPES	81CHU	01
6.5			UU	80HEN	01
6.51	0.31		ITNA	73ABE	01
6.69			ITNA	75MIL	01
6.7		35	TCGS	78GLA	04
6.8	0.03	*	ITNA	76RAG	01
6.8	0.2	*	AA	80STO	02
6.95	0.15	*	14NAA	81WIL	01
7.		*	AA	76WEW	01
Ga (ppm)					
34.3	1.9		ITNA	81WAN	01
37.	2.		IENA	78WAN	01
38.3	6.3		ITNA	73SHE	01
40.	1.		XRF	79SMI	01
40.3	2.	5	IENA	76STE	05
40.7	1.2		IENA	77ROW	03
40.7	1.2	5	IENA	76STE	05
41.	1.	35	IENA	81GLA	04
41.	7.		EXRF	77GIA	01
43.	1.	35	IENA	80GLA	03
43.	1.	35	IENA	81GLA	03
45.	7.		ITNA	76OND	01
48.	6.		COLOR	79LIK	01
49.			XRF	75KLE	01
50.			UU	80HEN	01
58.	10.	*	FAA	76OWE	01
68.	14.	*	OES	76WEW	01
72.		*	ICPES	80FLO	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Gd (ppm)					
	100.	L*	OES	76WEW	01
11.			ITNA	75MIL	01
11.4	0.2		TCGS	79FAI	01
11.7	0.4		TCGS	79AND	01
12.1	0.36		ICPES	81CHU	01
17.5	0.3	*	TCGS	80AND	01
23.	4.	*	SSMS	78SUG	02
Ge (ppm)					
19.	1.		XRF	79SMI	01
20.			UU	80HEN	01
25.	1.4		OES	76WEW	01
26.	5.		EXRF	77GIA	01
476.	166.	*	ITNA	73SHE	01
H (ppm)					
1000.			UU	80HEN	01
1200.	400.		TCGS	79AND	01
H2O- (%)					
0.03			UU	80HEN	01
H2O-T (%)					
0.17			FD	80KHA	02
H2SO4 (ppm)					
	1000.	L*	UU	80HEN	01
Hf (ppm)					
	17.	L*	14NAA	81WIL	01
6.5	0.7		ITNA	76WEW	01
6.7	0.3		IENA	77ROW	03
6.7	0.3	D*	IENA	77ROW	04
7.	0.4		ITNA	77ROW	04
7.2	0.6		ITNA	76RAG	01
7.4	0.5		ITNA	78LAU	02
7.5	0.5		ITNA	77CHA	01
7.5			ITNA	78NAD	02
7.5	0.5	D*	ITNA	78RYA	01
7.5	0.4		ITNA	78MAC	01
7.52	0.02		ITNA	75NAD	02
7.6	0.2		ITNA	83GLA	01
7.62	0.56		ITNA	73SHE	01
7.7	0.1		ITNA	81WAN	01
7.9			ITNA	78WEA	01
7.9	0.4		ITNA	75OND	01
8.	0.4	35	NAA	81GLA	04
8.	0.4	35	ITNA	81GLA	02
8.1	0.1	35	IENA	80GLA	03
8.2	0.8		ITNA	73ABE	01
8.2	0.8		ITNA	76OND	01
8.2			ITNA	75MIL	01
10.	2.	*35	ITNA	81GLA	03

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
10.		*	UU	80HEN	01
10.8		*	ITNA	75KLE	01
Hg (ppb)					
	8000.	L*	14NAA	81WIL	01
	12000.	L*	EXRF	77GIA	01
	400.	L*	ITNA	76BLO	01
	500.	L*	ITNA	73ABE	01
	200.	L*	ITNA	78NAD	02
	200.	L*	ITNA	75NAD	02
100.			UU	80HEN	01
119.	2.		CVAA	80NAD	01
127.	3.		CVAA	75KLE	01
130.	30.		NAA	77JER	01
130.	30.	D*	PAA	77CHA	01
130.	30.		PAA	76CHA	01
134.	4.		CVAA	74RAI	01
135.	10.		PAA	74CHA	01
137.	15.		RTNA	81GAL	01
137.	15.		RTNA	81GAL	02
141.	12.		FAA	77GLA	03
145.			ITNA	78WEA	01
145.	6.		RTNA	74ORV	01
160.	40.	D*	ITNA	78RYA	01
160.	40.		ITNA	77CHA	01
170.	20.	6	PAA	82SEG	01
200.	20.	*	PAA	80SEG	01
200.	100.	*6	PAA	82SEG	01
550.		*	XRF	76WEW	01
3700.	1100.	*	ITNA	73SHE	01
11000.		*	XRF	78CAM	02
Ho (ppm)					
	10.	L*	OES	76WEW	01
1.94	0.13		IENA	77ROW	03
1.94	0.13		IENA	76STE	05
3.6	0.8		SSMS	78SUG	02
I (ppm)					
	0.5	L*	UU	80HEN	01
	6.	L*	EXRF	77GIA	01
2.	1.2		ITNA	77MAE	01
2.8	1.		PAA	77CHA	01
2.9	1.2		PAA	75OND	01
2.9			ITNA	78WEA	01
3.	1.	D*	ITNA	78RYA	01
3.	1.		ITNA	77CHA	01
In (ppb)					
	500.	L*	UU	80HEN	01
118.	4.	5	IENA	76STE	05
128.	8.		IENA	77ROW	03
128.	8.	5	IENA	76STE	05
156.	35.		ITNA	73SHE	01
160.	20.		ITNA	81WAN	01
270.	140.		ITNA	76RAG	01
280.	30.		PAA	74CHA	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
290.	60.		PAA	76CHA	01
290.	60.	D*	PAA	77CHA	01
320.	80.	D*	ITNA	78RYA	01
320.	100.		ITNA	75OND	01
320.	80.		ITNA	77CHA	01
3000.	2000.	*	EXRF	77GIA	01
Ir (ppb)					
	200.	L*	UU	80HEN	01
15.6	2.4		RTNA	77NAD	02
250.	80.		ITNA	77CHA	01
250.	80.	D*	ITNA	78RYA	01
18600.	3300.		ITNA	73SHE	01
18600.			ITNA	78WEA	01
K (%)					
1.29	0.09	*	ITNA	76KUC	01
1.51			ICPES	80NAD	01
1.51	0.05		ITNA	78MAC	01
1.54	0.04		ITNA	76BLO	01
1.58	0.15		ITNA	75OND	01
1.59	0.05		PAA	76KAT	03
1.59	0.05		PAA	76KAT	02
1.6	0.12		AA	80STO	02
1.6	0.06	D*	PAA	77CHA	01
1.6	0.04		ICPES	81CHU	01
1.6	0.06		PAA	76CHA	01
1.6			OES	80WAL	01
1.61			ITNA	78WEA	01
1.63	0.06		ITNA	77MAE	01
1.63			XRF	78CAM	02
1.65	0.09		ITNA	78LAU	02
1.66	0.04		XRF	79SMI	01
1.67	0.06		EXRF	78PEL	01
1.68			AA	79SIL	01
1.69		35	TCGS	78GLA	04
1.69	0.13		ITNA	77CHA	01
1.69	0.13	D*	ITNA	78RYA	01
1.7	0.2		ITNA	76OND	01
1.7			ITNA	78KEL	02
1.71	0.03		GAMMA	73ABE	01
1.71	0.03		GAMMA	75OND	01
1.71	0.04		AA	76OND	01
1.72	0.09		ICPES	80NAD	01
1.73	0.18		ITNA	81WAN	01
1.74	0.07		EXRF	77NIE	01
1.75	0.1		TCGS	79AND	01
1.75			UU	80HEN	01
1.75	0.18		ITNA	76RAG	01
1.76	0.05	D*	TCGS	80AND	01
1.76	0.05		TCGS	79FAI	01
1.77			ITNA	75MIL	01
1.78	0.24		ITNA	78NAD	02
1.78	0.23		ITNA	75NAD	02
1.8	0.3		14NAA	81WIL	02
1.8	0.13		ITNA	77ROW	03
1.8	0.13		ITNA	76STE	05
1.8			ITNA	75KLE	01
1.81	0.15	35	ITNA	81GLA	03
1.83	0.05	35	IENA	80GLA	03

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
1.9	0.5	*	14NAA	81WIL	01
1.97		*35	ITNA	81GLA	04
2.18	0.24	*	ITNA	73SHE	01
3.3	0.66	*	OES	76WEW	01
La (ppm)					
45.	4.5	*	OES	76WEW	01
64.	2.	*	ITNA	78NAD	02
64.1	1.6	*	ITNA	75NAD	02
68.	2.		ITNA	78MAC	01
70.			UU	80HEN	01
71.9			ITNA	83GLA	01
72.	6.		XRF	79SMI	01
74.	4.		ITNA	78LAU	02
74.8			ITNA	82GLA	02
75.	4.	35	ITNA	81GLA	03
76.	14.		ITNA	76OND	01
76.4	4.5		ITNA	81WAN	01
77.	8.		ITNA	73SHE	01
78.			XRF	78CAM	02
78.			ICPES	80FLO	01
79.	6.	35	IENA	80GLA	03
79.	1.6		ICPES	81CHU	01
80.			ITNA	75MIL	01
81.	2.		ITNA	76RAG	01
81.2	3.3		IENA	77ROW	03
81.2	3.2		IENA	76STE	05
82.	4.		ITNA	73ABE	01
82.	20.		EXRF	77GIA	01
82.			ITNA	78WEA	01
82.			ITNA	75KLE	01
82.	2.		ITNA	75OND	01
84.	3.6		IENA	77ROW	04
84.	3.6		ITNA	77ROW	03
85.	4.		ITNA	77CHA	01
85.	4.	D*	ITNA	78RYA	01
85.3	3.8		ITNA	77ROW	04
86.	2.		ITNA	76WEW	01
91.	7.	*	ITNA	76STE	05
110.	20.	*	SSMS	78SUG	02
Li (ppm)					
1.7	0.3	*	ICPES	81CHU	01
80.			AA	76WEW	01
140.	9.		OES	76WEW	01
300.			UU	80HEN	01
Lu (ppm)					
	50.	L*	OES	76WEW	01
0.87			ITNA	82GLA	02
0.9	0.3		ITNA	81WAN	01
0.94	0.09	D*	ITNA	77ROW	04
0.94	0.09		ITNA	77ROW	03
1.	0.1		ITNA	75OND	01
1.	0.2		ITNA	76WEW	01
1.01	0.02		ITNA	78NAD	02
1.01	0.02		ITNA	75NAD	02
1.1		35	ITNA	81GLA	03
1.1	0.15		ITNA	77CHA	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
1.1	0.15	D*	ITNA	78RYA	01
1.2			ITNA	75MIL	01
1.7	0.4		SSMS	78SUG	02
2.	0.05	*	ITNA	78LAU	02
3.8	0.5	*	ITNA	73SHE	01
4.	1.	*	ITNA	78MAC	01
Mg (%)					
1.01		*	ICPES	80NAD	01
1.2	0.1		AA	76OND	01
1.22			AA	79SIL	01
1.29	0.02		ICPES	80NAD	01
1.32	0.04		ICPES	81CHU	01
1.4	0.4		ITNA	77MAE	01
1.4	0.4		ITNA	78LAU	02
1.4			OES	78SUG	01
1.44	0.02		PAA	76KAT	03
1.45	0.05		AA	80STO	02
1.48	0.01		PAA	74CHA	01
1.5	1.3		14NAA	81WIL	01
1.5	0.2	D*	TCGS	80AND	01
1.5	0.2		TCGS	79FAI	01
1.5	0.15	D*	PAA	77CHA	01
1.5	0.01		PAA	76KAT	02
1.5	0.3		ITNA	76WEW	01
1.5	0.15		PAA	76CHA	01
1.52	0.06		ITNA	78NAD	02
1.52	0.06		ITNA	75NAD	02
1.597	0.806		ITNA	73SHE	01
1.6	0.32		OES	76WEW	01
1.68	0.21	D*	ITNA	78RYA	01
1.68	0.21		ITNA	77CHA	01
1.78	0.2		ITNA	77ROW	03
1.78	0.2		ITNA	76STE	05
1.8			OES	80WAL	01
1.8			ICPES	80FLO	01
1.8			ITNA	78WEA	01
1.8	0.4		ITNA	75OND	01
2.			UU	80HEN	01
2.	0.4		ITNA	76RAG	01
2.08	0.43		ITNA	73ABE	01
2.1	0.5		14NAA	81WIL	02
2.19	0.35	*	ITNA	81WAN	01
2.4		*35	TCGS	78GLA	04
6.3	0.3	*	ITNA	78MAC	01
Mn (ppm)					
351.		*6	SSMS	78GUI	01
420.		*	ITNA	78KEL	02
422.4	3.9	*	AA	77MIT	01
440.		*	AA	78WEG	01
460.			ITNA	75KLE	01
460.	26.		OES	76WEW	01
464.	1.		ITNA	78NAD	02
464.	1.4		ITNA	75NAD	02
464.	46.		ITNA	76KUC	01
466.	31.		ITNA	73SHE	01
477.	5.		AA	76OND	01
478.			FAA	78GUI	01
480.	25.	D*	TCGS	80AND	01
480.	25.		TCGS	79FAI	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
480.	10.		ITNA	76BLO	01
482.			ICPES	80NAD	01
483.	21.		XRF	79SMI	01
485.			AA	79SIL	01
488.	50.		ITNA	81WAN	01
488.	14.		ITNA	77ROW	03
488.	14.		ITNA	76STE	05
489.	11.		ITNA	73ABE	01
491.	10.		PAA	76KAT	02
491.	18.		PAA	76KAT	03
492.			AA	78GUI	01
493.	4.1		AA	74RAI	01
495.			ITNA	78WEA	01
495.	15.	D*	PAA	77CHA	01
495.	15.		PAA	76CHA	01
495.	25.		PAA	74CHA	01
496.			OES	80WAL	01
496.	19.		ITNA	75OND	01
496.	19.	D*	NAA	74OND	01
498.	11.	35	ITNA	81GLA	03
499.	22.	6	FAA	79GEL	01
499.	25.		ITNA	76OND	01
500.			UU	80HEN	01
500.			EXRF	78WEG	01
500.	15.	D*	ITNA	78RYA	01
500.	15.		ITNA	77CHA	01
500.	17.		EXRF	78PEL	01
500.			OES	78SUG	01
503.	15.		ITNA	77MAE	01
504.	25.		ITNA	76WEW	01
505.	9.	35	ITNA	81GLA	02
505.	14.		ITNA	76RAG	01
506.			AA	76WEW	01
508.			XRF	78CAM	02
510.			ICPES	80FLO	01
510.	70.		XRF	81COH	02
510.	10.		ITNA	78LAU	02
513.	15.	35	IENA	80GLA	03
516.	16.		ICPES	81CHU	01
520.	6.		FAA	76OWE	01
520.	20.		ITNA	78MAC	01
528.	104.		EXRF	77GIA	01
528.		6	SSMS	78GUI	01
530.	30.		AA	80STO	02
531.	14.		EXRF	77NIE	01
540.		*	ITNA	75MIL	01
570.	24.	*6	FAA	79GEL	01
Mo (ppm)					
0.5	0.08	D*	PAA	77CHA	01
0.5	0.08	*	PAA	76CHA	01
1.52	0.15	*	PAA	74CHA	01
20.			UU	80HEN	01
20.			ITNA	78WEA	01
22.3	1.6		14NAA	81WIL	02
25.	5.		EXRF	77GIA	01
25.3	1.6	D*	IENA	77ROW	04
25.3	1.6		IENA	77ROW	03
28.	1.		XRF	79SMI	01
28.	1.3		14NAA	81WIL	01
28.	1.	35	IENA	81GLA	03
28.	1.	35	IENA	80GLA	03

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
32.			ICPES	80NAD	01
36.	5.		FAA	76OWE	01
36.	3.	35	RTNA	78GLA	02
37.	1.3		OES	76WEW	01
N (ppm)					
	1000.	L*	UU	80HEN	01
Na (ppm)					
2603.	156.	*	ITNA	76KUC	01
2658.	129.		ITNA	73SHE	01
2800.	300.		ITNA	76BLO	01
2820.	50.		ITNA	78MAC	01
2830.	136.		ITNA	76STE	05
2830.	140.		ITNA	77ROW	03
2900.			ICPES	80NAD	01
2900.			OES	78SUG	01
3000.	200.	D*	TCGS	80AND	01
3000.	70.		ICPES	81CHU	01
3000.	200.		TCGS	79FAI	01
3000.			UU	80HEN	01
3000.			AA	79SIL	01
3000.	100.		ITNA	78LAU	02
3000.			OES	80WAL	01
3052.	264.		ITNA	81WAN	01
3070.	80.		ITNA	77MAR	01
3100.	300.		ITNA	76OND	01
3100.	200.		ICPES	80NAD	01
3130.			ITNA	83GLA	01
3150.	110.		14NAA	81WIL	01
3200.	300.	D*	ITNA	78RYA	01
3200.	400.		ITNA	75OND	01
3200.			ITNA	78WEA	01
3200.	300.		ITNA	77CHA	01
3200.	200.		AA	76OND	01
3220.	50.	35	ITNA	81GLA	03
3240.	100.		ITNA	76RAG	01
3290.	110.		AA	80STO	02
3300.	200.		ITNA	75NAD	02
3300.	200.		ITNA	78NAD	02
3300.	150.	D*	PAA	77CHA	01
3300.	100.	35	ITNA	81GLA	02
3300.	150.		PAA	76CHA	01
3330.	170.		14NAA	81WIL	02
3400.	300.		PAA	74CHA	01
3400.	300.		ITNA	76WEW	01
3400.			ITNA	75MIL	01
3600.		35	TCGS	78GLA	04
3700.	200.		ITNA	73ABE	01
3850.	210.	*	PAA	76KAT	03
3860.	130.	*	PAA	76KAT	02
9700.	1900.	*	OES	76WEW	01
Nb (ppm)					
	100.	L*	OES	76WEW	01
7.			UU	80HEN	01
26.	1.		XRF	79SMI	01
28.	2.		EXRF	77GIA	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Nd (ppm)					
	100.	L*	OES	76WEW	01
57.8	1.6	D*	ITNA	77ROW	04
57.8	1.6		ITNA	77ROW	03
58.	10.		ITNA	81WAN	01
60.		35	IENA	81GLA	04
60.	2.	35	IENA	80GLA	03
60.5	1.5		ITNA	75NAD	02
61.	2.		ITNA	78NAD	02
62.	2.		TCGS	80AND	01
62.1	2.4		TCGS	79FAI	01
66.	7.		ITNA	76OND	01
69.	7.	D*	ITNA	78RYA	01
69.	7.		ITNA	77CHA	01
81.			ITNA	75MIL	01
90.	13.	*	SSMS	78SUG	02
94.	19.	*	ICPES	81CHU	01
NH4 (ppm)					
	100.	L*	UU	80HEN	01
Ni (ppm)					
69.	7.	*	IENA	77ROW	03
78.		*	AA	76WEW	01
84.	2.	35	IENA	81GLA	04
84.	6.	35	IENA	80GLA	03
85.			AA	78GUI	01
92.	9.	6	PAA	82SEG	01
92.	6.		PAA	75OND	01
93.	5.	8	SSMS	80KOP	01
93.			EXRF	78WEG	01
94.			XRF	78CAM	02
94.			ICPES	80FLO	01
95.	20.		EXRF	78PEL	01
95.	9.		ITNA	77CHA	01
95.	9.	D*	ITNA	78RYA	01
96.	5.		XRF	79SMI	01
96.	3.		PAA	76KAT	02
96.	5.		PAA	76KAT	03
96.4	1.2	6	IDMS	74MOO	01
96.4	1.2	6	IDMS	74MOO	01
96.6	1.	6	IDMS	74MOO	01
96.8	3.2		PAA	74CHA	01
97.	5.	D*	PAA	77CHA	01
97.	5.		PAA	76CHA	01
98.			FAA	80WAL	01
98.			POL	74MAI	01
98.	9.	D*	NAA	74OND	01
98.5	9.5		IENA	77ROW	04
99.			AA	79SIL	01
99.	4.		AF	80EPS	02
99.7	3.3		AA	77MIT	01
100.	7.	6	PAA	82SEG	01
100.			UU	80HEN	01
100.	7.		AA	76OND	01
100.	5.		ITNA	78NAD	02
100.	5.		ITNA	75NAD	02
100.	3.		ICPES	81CHU	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
100.	20.		ITNA	76OND	01
101.	7.		EXRF	77GIA	01
101.	3.3		AA	74RAI	01
105.	3.		14NAA	81WIL	01
105.	13.		ITNA	75OND	01
106.			FAA	78GUI	01
106.	12.		14NAA	81WIL	02
109.			XRF	75KLE	01
110.	7.		PAA	80SEG	01
110.	10.	9	ITNA	78LAU	02
120.	7.5	*	OES	76WEW	01
120.		*	OES	78SUG	01
128.		*	ICPES	80NAD	01
NO2 (ppm)					
	100.	L*	UU	80HEN	01
NO3 (ppm)					
	100.	L*	UU	80HEN	01
O (%)					
47.02	0.08	34	14NAA	80KHA	02
Os (ppb)					
	4000.	L*	RTNA	77NAD	02
	400.	L*	UU	80HEN	01
P (ppm)					
	8000.	L*	XRF	79SMI	01
880.			AA	76WEW	01
898.			ICPES	80NAD	01
1090.	26.		ICPES	81CHU	01
1200.			UU	80HEN	01
1900.	100.	*	COLOR	80NAD	01
3000.		*35	TCGS	78GLA	04
Pb (ppm)					
40.		*6	SSMS	78GUI	01
62.			AA	78GUI	01
62.8			FAA	78GUI	01
64.	13.		ICPES	81CHU	01
65.			EXRF	78WEC	01
66.	12.		EXRF	78PEL	01
66.	6.		XRF	79SMI	01
67.			POL	74MAI	01
68.	6.	8	SSMS	80KOP	02
68.	4.	6	PAA	82SEG	01
68.	4.		PAA	80SEG	01
68.8			POT	82CHR	01
69.	4.	6	PAA	82SEG	01
70.			AA	78GEL	01
70.			AA	79SIL	01
70.		6	SSMS	78GUI	01
70.5			FAA	78SIE	01
70.7	2.6		PAA	74CHA	01
71.	3.		NAA	77JER	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
71.	3.		PAA	76CHA	01
71.	3.	D*	PAA	77CHA	01
72.	5.		EXRF	77GIA	01
74.	4.		FAA	75BLO	02
74.	4.		FAA	76BLO	01
74.	9.		OES	76WEW	01
75.			OES	80WAL	01
75.	5.	D*	NAA	74OND	01
75.	5.		PAA	75OND	01
76.			AE+AF	77FEL	01
77.			ICPES	80NAD	01
77.	6.		AA	80STO	02
78.	4.		IDMS	75KLE	01
78.	2.		IDMS	78CAR	02
78.	2.		AA	76OND	01
79.6	9.7		HAA	82NAD	01
80.			UU	80HEN	01
81.			ICPES	80FLO	01
81.			AA	78WEC	01
82.	6.		FAA	76OWE	01
82.			AA	76WEW	01
100.	25.	*	14NAA	81WIL	02
Pb-210 (PCi)					
3.37	0.13	D*	NM	81CAS	01
3.37	0.13		NM	80CAS	01
Pd (ppb)					
	2.	L*	RTNA	77NAD	02
	1000.	L*	UU	80HEN	01
	4000.	L*	EXRF	77GIA	01
Pr (ppm)					
	100.	L*	OES	76WEW	01
24.			ICPES	80FLO	01
28.	6.		SSMS	78SUG	02
Pt (ppm)					
	90.	L*	OES	76WEW	01
0.4			UU	80HEN	01
0.451	0.011		RTNA	77NAD	01
1.38	0.28		RTNA	77NAD	02
Rb (ppm)					
70.	30.	*	ITNA	81WAN	01
95.	1.	*	PAA	76KAT	02
96.	2.	*	PAA	76KAT	03
100.	10.	9	ITNA	78LAU	02
102.	5.		14NAA	81WIL	02
105.	10.		ITNA	76RAG	01
108.	4.		EXRF	77GIA	01
108.4	3.7		IENA	77ROW	03
108.4	3.7	D*	IENA	77ROW	04
110.	2.		XRF	79SMI	01
110.	9.		ITNA	77ROW	04
110.	22.		OES	76WEW	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
111.	14.		ITNA	78NAD	02
111.	7.		ITNA	83GLA	01
111.	13.5		ITNA	75NAD	02
112.	20.		ITNA	76WEW	01
114.			XRF	78CAM	02
115.	15.		ITNA	73SHE	01
115.	10.		ITNA	78LAU	02
116.	10.		ITNA	77CHA	01
116.	10.	D*	ITNA	78RYA	01
117.	6.	35	IENA	80GLA	03
118.	7.	35	NAA	81GLA	04
119.	7.	35	ITNA	81GLA	02
120.	10.		PAA	76CHA	01
120.	10.	D*	PAA	77CHA	01
120.			XRF	75KLE	01
123.	9.	35	ITNA	81GLA	03
124.	10.		ITNA	73ABE	01
125.			ITNA	78WEA	01
125.	4.		EXRF	77NIE	01
125.	10.		ITNA	75OND	01
126.	10.		PAA	75OND	01
130.	30.		ITNA	76OND	01
137.	4.	*	14NAA	81WIL	01
150.		*	UU	80HEN	01
Re (ppb)					
	200.	L*	UU	80HEN	01
Rh (ppm)					
	30.	L*	OES	76WEW	01
	4.	L*	EXRF	77GIA	01
	500.	L*	UU	80HEN	01
Ru (ppm)					
	30.	L*	OES	76WEW	01
	0.5	L*	UU	80HEN	01
0.258	0.02		RTNA	77NAD	02
3.	2.		EXRF	77GIA	01
S (ppm)					
2000.			XRF	81COH	02
3900.	400.	D*	TCGS	80AND	01
3900.	400.		TCGS	79FAI	01
4000.	400.		TCGS	79AND	01
4400.	100.		TCGS	77JUR	01
7800.			XRF	78CAM	02
9000.	500.		XRF	79SMI	01
Sb (ppm)					
	15.	L*	14NAA	81WIL	01
	100.	L*	OES	76WEW	01
4.	3.	*	EXRF	77GIA	01
5.		*	ICPES	82NYG	01
5.9	0.3		ITNA	81WAN	01
5.9	0.5	5	IENA	77ROW	04
5.9	0.5	5	ITNA	77ROW	04
5.96	0.61		HAA	82NAD	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
6.	0.2		IENA	77ROW	03
6.03	0.23	5	IENA	77ROW	04
6.1	0.4	5	ITNA	77ROW	04
6.2		35	ITNA	81GLA	03
6.4	0.2		ITNA	78LAU	02
6.5	0.2	35	RTNA	78GLA	02
6.72	0.35		ITNA	75NAD	02
6.72	0.35		ITNA	78NAD	02
6.9			ITNA	78WEA	01
6.9	0.5	D*	ITNA	78RYA	01
6.9	0.5		ITNA	77CHA	01
6.9	0.6		ITNA	75OND	01
6.9	0.6		ITNA	76RAG	01
6.9	0.3		ITNA	76OND	01
7.			UU	80HEN	01
7.	1.2		PAA	76KAT	03
7.	1.1		PAA	75OND	01
7.1	0.5		NAA	77JER	01
7.1	0.5	D*	PAA	77CHA	01
7.1	0.5		PAA	76CHA	01
7.1	0.7		PAA	76KAT	02
7.14	0.56		PAA	74CHA	01
7.2	0.8		ITNA	73ABE	01
7.2	0.3	35	NAA	81GLA	04
7.2	0.3	35	ITNA	81GLA	02
7.3	0.3		FAA	78HAY	01
7.4	0.3		ITNA	78MAC	01
7.7	0.5	35	IENA	80GLA	03
7.8			ITNA	75KLE	01
8.3	1.8	*	14NAA	81WIL	02
9.8	2.1	*	ITNA	76WEW	01
12.08	0.86	*	ITNA	73SHE	01
Sc (ppm)					
20.		*	UU	80HEN	01
20.		*	ICPES	80FLO	01
20.7	2.1	*	PAA	74CHA	01
23.	0.4		ITNA	76BLO	01
23.	2.3		OES	76WEW	01
24.	1.		ITNA	76WEW	01
25.1	0.5		ITNA	78NAD	02
25.1	0.5		ITNA	75NAD	02
25.5	2.	D*	ITNA	78RYA	01
25.5	2.		ITNA	77CHA	01
25.6	0.5		IENA	77ROW	04
26.	2.	35	IENA	80GLA	03
26.5	0.2		ITNA	83GLA	01
26.7	0.2	D*	ITNA	77ROW	04
26.7	0.2		ITNA	77ROW	03
26.8	0.2		ITNA	78MAC	01
26.9	0.3		ITNA	81WAN	01
26.9	1.4		ITNA	76OND	01
27.	0.5		ITNA	78LAU	02
27.	1.		ITNA	73ABE	01
27.			ITNA	78WEA	01
27.	2.		PAA	76CHA	01
27.	2.	D*	PAA	77CHA	01
27.	1.		ITNA	75OND	01
27.	0.6		ITNA	76RAG	01
27.5	2.4		ITNA	73SHE	01
28.	1.	35	ITNA	81GLA	02

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
28.3	0.7	35	ITNA	81GLA	04
29.	3.		14NAA	81WIL	02
29.1			ITNA	75MIL	01
30.	1.	35	ITNA	81GLA	03
32.		*	ITNA	75KLE	01
41.	5.	*	14NAA	81WIL	01
Se (ppm)					
	10.	L*	ICPES	81CHU	01
3.2		*	HAA	74BYR	02
4.5	0.7	*	ASV	76AND	01
5.5	3.4	*	ITNA	81WAN	01
8.7	1.8		ITNA	78MAC	01
8.76	0.48		HAA	82NAD	01
8.8	1.2		ITNA	73ABE	01
8.8	0.7	9	ITNA	80WAN	01
8.8			XRF	78CAM	02
8.9	1.2		XRF	79SMI	01
8.9	0.6		ITNA	80WAN	01
9.	1.4		ITNA	76RAG	01
9.	2.	35	IENA	80GLA	03
9.			ICPES	82NYG	01
9.1	0.2		ITNA	78NAD	02
9.1	1.		RTNA	74ORV	01
9.1	0.3	35	NAA	81GLA	04
9.1	0.2		ITNA	75NAD	02
9.1	0.2		ITNA	81CAR	02
9.35	0.03		GCMES	74TAL	02
9.35	0.03		DCP	81CAR	02
9.35	0.03		GCMES	75KLE	01
9.48	0.8		PAA	74CHA	01
9.5	0.8	D*	PAA	77CHA	01
9.5	0.8		PAA	76CHA	01
9.6	3.1		ITNA	76BLO	01
9.7			COLOR	74BYR	02
9.8	1.	D*	ITNA	78RYA	01
9.8	0.5	6	PAA	82SEG	01
9.8			ITNA	78WEA	01
9.8	1.		ITNA	77CHA	01
10.	0.5	8	SSMS	80KOP	01
10.	0.9	6	PAA	82SEG	01
10.	0.5	9	ITNA	78LAU	02
10.	2.		ITNA	76OND	01
10.			UU	80HEN	01
10.	0.9		PAA	80SEG	01
10.	0.6		RTNA	80KNA	01
10.1	2.2		ITNA	76WEW	01
10.2			HAA	80WAL	01
10.2	1.4		ITNA	75OND	01
10.2	1.4	D*	NAA	74OND	01
10.3	0.7		RTNA	81GAL	01
10.3	0.7		RTNA	81GAL	02
10.6	1.3		ITNA	77ROW	04
10.6	1.		ITNA	78LAU	02
10.8	0.8	D*	IENA	77ROW	04
10.8	0.8		IENA	77ROW	03
11.	3.		ITNA	76KUC	01
11.	1.		EXRF	77GIA	01
12.7	1.8	*	ITNA	73SHE	01
35.	13.	*	14NAA	81WIL	01
35.	13.	*	14NAA	81WIL	02

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Si (%)					
16.		*	OES	78SUG	01
17.	3.4	*	OES	76WEW	01
17.7		*35	TCGS	78GLA	04
20.	1.6		PAA	76CHA	01
20.	1.6	D*	PAA	77CHA	01
20.4			ICPES	80NAD	01
20.9			UU	80HEN	01
21.	2.		PAA	75OND	01
21.5	1.4		XRF	79SMI	01
21.8	0.3		TCGS	79FAI	01
21.8	0.3		TCGS	80AND	01
21.9			XRF	78CAM	02
22.	1.	35	AA	81GLA	03
22.4	1.6		14NAA	81WIL	02
22.4	0.3		ICPES	80NAD	01
22.6			AA	79SIL	01
22.8	0.8		14NAA	81WIL	01
23.	1.		EXRF	77NIE	01
23.	6.		14NAA	76BLO	01
23.5	0.5	35	IENA	80GLA	03
24.5	1.1		TCGS	79AND	01
Sm (ppm)					
	100.	L*	OES	76WEW	01
10.05	0.58	*	ITNA	73SHE	01
10.4	0.9		IENA	77ROW	04
11.	1.		ITNA	78MAC	01
11.4	1.6		IENA	76STE	05
11.8	1.6		IENA	77ROW	03
12.1	0.4	D*	TCGS	80AND	01
12.1	1.	D*	ITNA	78RYA	01
12.1	0.4		TCGS	79FAI	01
12.1	1.4		ITNA	77ROW	04
12.1	1.		ITNA	77CHA	01
12.4	0.5		ITNA	73ABE	01
12.4	0.9		ITNA	75OND	01
12.4			ITNA	78WEA	01
12.8	0.6		ITNA	76WEW	01
13.			ITNA	83GLA	01
13.	0.3		TCGS	79AND	01
13.	0.7		ITNA	76RAG	01
13.2			ITNA	82GLA	02
13.4	0.7		ITNA	76OND	01
13.5	0.5		ITNA	78LAU	02
13.6	0.88		ITNA	75NAD	02
13.6	0.9		ITNA	78NAD	02
14.9	1.	35	ITNA	81GLA	03
15.			ITNA	75KLE	01
15.8	0.3	*	ICPES	81CHU	01
20.	3.	*	SSMS	78SUG	02
Sn (ppm)					
3.			UU	80HEN	01
5.	2.		EXRF	77GIA	01
5.7	0.6		NM	81IMU	01
6.7	1.4		XRF	79SMI	01
10.	5.		OES	76WEW	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
10.2	1.4	D*	ITNA	78RYA	01
10.2	1.4		ITNA	77CHA	01
12.	1.		PAA	76CHA	01
12.	1.	D*	PAA	77CHA	01
12.5	1.2		PAA	74CHA	01
12.7	0.82		HAA	82NAD	01
740.	210.	*	ITNA	73SHE	01
SO3 (ppm)					
	100.	L*	UU	80HEN	01
SO4 (%)					
0.98			UU	80HEN	01
Sr (ppm)					
126.		*	EXRF	78WEG	01
869.	33.	*	ITNA	73SHE	01
1200.	300.		ITNA	76STE	05
1244.	6.		PAA	76KAT	02
1244.	9.		PAA	76KAT	03
1250.	230.		ITNA	76RAG	01
1256.	37.		EXRF	78PEL	01
1260.		35	IENA	81GLA	03
1260.	30.	5	IENA	80GLA	03
1300.	200.		ITNA	76OND	01
1300.		35	IENA	81GLA	04
1301.			XRF	75KLE	01
1310.	60.		14NAA	81WIL	02
1310.	50.		14NAA	81WIL	01
1340.	100.		ITNA	78MAC	01
1340.			AA	79SIL	01
1342.	20.		EXRF	77GIA	01
1360.	110.	5	IENA	76STE	05
1370.	120.		PAA	76CHA	01
1370.	120.	D*	PAA	77CHA	01
1373.	95.		PAA	74CHA	01
1375.	28.		ICPES	81CHU	01
1390.			ITNA	75MIL	01
1390.			XRF	78CAM	02
1406.	80.		ITNA	75NAD	02
1406.	80.		ITNA	78NAD	02
1410.	400.		14NAA	77VAN	01
1430.	30.		XRF	79SMI	01
1430.	60.	5	IENA	76STE	05
1480.	60.		ITNA	77ROW	04
1480.	60.		IENA	77ROW	03
1480.	50.		ITNA	77MAE	01
1500.	180.		ITNA	77CHA	01
1500.			UU	80HEN	01
1500.	200.		ITNA	78LAU	02
1500.	180.	D*	ITNA	78RYA	01
1510.	60.	5	IENA	80GLA	03
1520.	35.		IENA	77ROW	04
1541.	188.		ITNA	81WAN	01
1600.	100.	9	ITNA	78LAU	02
1620.		*	ICPES	80FLO	01
1700.	300.	*	ITNA	75OND	01
1900.	200.	*	ITNA	73ABE	01
2300.	1100.	*	OES	76WEW	01
8000.		*	XRF	76WEW	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ta (ppm)					
	22.	L*	EXRF	77GIA	01
1.6		*	ITNA	75KLE	01
1.74	0.12	35	NAA	81GLA	04
1.74	0.1	35	ITNA	81GLA	02
1.8			ITNA	78WEA	01
1.8	0.2	35	IENA	80GLA	03
1.8	0.3		ITNA	76OND	01
1.8	0.3		ITNA	75OND	01
1.81	0.08		ITNA	83GLA	01
1.9	0.25	D*	ITNA	78RYA	01
1.9	0.25		ITNA	77CHA	01
1.9	0.2	35	ITNA	81GLA	03
1.9	0.1		ITNA	78LAU	02
2.	0.2		ITNA	76RAG	01
2.	0.06		IENA	77ROW	03
2.			UU	80HEN	01
2.	0.1		ITNA	78MAC	01
2.	0.06	D*	IENA	77ROW	04
2.01	0.14		ITNA	77ROW	04
2.04	0.03		ITNA	75NAD	02
2.04	0.03		ITNA	78NAD	02
2.1	0.2		ITNA	81WAN	01
2.2		*	ITNA	75MIL	01
2.74	0.25	*	ITNA	73SHE	01
3.5	0.3	*	ITNA	73ABE	01
Tb (ppm)					
	100.	L*	OES	76WEW	01
0.22	0.04	*	ITNA	73SHE	01
1.2	0.2		ITNA	78MAC	01
1.5	0.4		ITNA	76OND	01
1.5	0.3		ITNA	81WAN	01
1.53	0.11		ITNA	83GLA	01
1.8			ITNA	75MIL	01
1.87	0.15		ITNA	76RAG	01
1.9	0.1		ITNA	78LAU	02
1.9	0.3		ITNA	75OND	01
1.99	0.16		ITNA	77ROW	04
2.	0.3		ITNA	73ABE	01
2.	0.25		ITNA	77CHA	01
2.	0.1	35	NAA	81GLA	04
2.	0.1	35	IENA	80GLA	03
2.	0.25	D*	ITNA	78RYA	01
2.01	0.06	D*	IENA	77ROW	04
2.01	0.06		IENA	77ROW	03
3.12	0.02	*	ITNA	75NAD	02
3.12	0.02	*	ITNA	78NAD	02
3.3	0.5	*	SSMS	78SUG	02
Te (ppm)					
	0.5	L*	UU	80HEN	01
	5.	L*	EXRF	77GIA	01
0.92	0.05		HAA	82NAD	01
2.3	0.3	D*	PAA	77CHA	01
2.3	0.3		PAA	76CHA	01
2.32	0.2		PAA	74CHA	01
9.9	1.1	*35	RTNA	75GLA	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Th (ppm)					
20.		*	UU	80HEN	01
21.	3.		EXRF	77GIA	01
22.8	0.5		ITNA	76BLO	01
23.6	0.8		ITNA	76RAG	01
23.8	0.4		ITNA	77ROW	04
24.	0.8		ITNA	81WAN	01
24.	2.		ITNA	76OND	01
24.	1.	35	ITNA	81GLA	03
24.	1.		ITNA	78LAU	02
24.	1.	35	IENA	80GLA	03
24.	0.5		IENA	77ROW	03
24.	2.	35	RTNA	78GLA	02
24.	0.5	D*	IENA	77ROW	04
24.4	2.2		ITNA	75OND	01
24.5	0.4		ITNA	83GLA	01
25.	2.		ITNA	73SHE	01
25.	1.	35	ITNA	81GLA	02
25.	0.9	35	NAA	81GLA	04
26.			DNA	75MIL	01
26.			ITNA	75MIL	01
26.			ITNA	75KLE	01
26.2	1.3		GAMMA	73ABE	01
26.2	1.3		GAMMA	75OND	01
28.	2.		ITNA	73ABE	01
32.2	0.2	*	ITNA	78NAD	02
32.2	0.2	*	ITNA	75NAD	02
Th-228 (PCi)					
2.23	0.05	D*	NM	81CAS	01
2.23	0.05		NM	80CAS	01
Th-230 (PCi)					
3.74	0.17	D*	NM	81CAS	01
3.74	0.17		NM	80CAS	01
Th-232 (PCi)					
2.45	0.08	D*	NM	81CAS	01
2.45	0.08		NM	80CAS	01
Ti (ppm)					
3000.		*	XRF	76WEW	01
6000.		*	UU	80HEN	01
6000.	400.	*	ITNA	78MAC	01
6100.	200.	*	ITNA	75NAD	02
6100.	200.	*	ITNA	78NAD	02
6100.		*	OES	78SUG	01
6420.			ITNA	75KLE	01
6800.			AA	79SIL	01
6800.	1100.		ITNA	76OND	01
6960.		35	TCGS	78GLA	04
7000.	700.		ITNA	76WEW	01
7000.	300.		ITNA	77ROW	03
7000.	300.		ITNA	76STE	05
7000.	100.	35	IENA	80GLA	03
7070.	180.		ICPES	81CHU	01
7100.	100.		ICPES	80NAD	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
7150.	1200.		ITNA	76RAG	01
7200.	200.	35	NAA	81GLA	03
7200.	200.	D*	TCGS	80AND	01
7200.	200.		TCGS	79FAI	01
7200.	1400.		OES	76WEW	01
7210.	95.		TCGS	79AND	01
7230.	400.		PAA	74CHA	01
7250.	360.		PAA	76CHA	01
7250.	360.	D*	PAA	77CHA	01
7300.	150.		14NAA	81WIL	01
7300.	280.	D*	ITNA	78RYA	01
7300.	400.		PAA	75OND	01
7300.			XRF	78CAM	02
7300.	280.		ITNA	77CHA	01
7330.			ICPES	80FLO	01
7360.	344.		EXRF	78PEL	01
7400.			ITNA	78WEA	01
7400.	500.		ITNA	78LAU	02
7400.	800.		AA	76OND	01
7400.	300.		ITNA	75OND	01
7500.			ICPES	80NAD	01
7500.			EXRF	78WEG	01
7500.	500.	35	ITNA	81GLA	02
7600.	800.		ITNA	73ABE	01
7600.	200.		14NAA	81WIL	02
7660.	100.		PAA	76KAT	03
7660.	70.		PAA	76KAT	02
7700.	300.		XRF	79SMI	01
8200.	1100.	*	ITNA	81WAN	01
8600.	1100.	*	EXRF	77GIA	01
8700.		*	AA	76WEW	01
8900.	752.	*	ITNA	73SHE	01
Tl (ppm)					
	30.	L*	OES	76WEW	01
2.			UU	80HEN	01
3.5	0.5	6	PAA	82SEG	01
3.5	0.5		PAA	80SEG	01
3.64	0.34		PAA	74CHA	01
3.7	0.4		PAA	76CHA	01
3.7	0.4	D*	PAA	77CHA	01
3.8	0.27	8	SSMS	80KOP	01
3.8	0.5	6	PAA	82SEG	01
5.		*	AA	76WEW	01
5.3		*	POT	82CHR	01
18.	6.	*	14NAA	81WIL	02
18.	6.	*	14NAA	81WIL	01
Tm (ppm)					
	30.	L*	OES	76WEW	01
1.3	0.3		SSMS	78SUG	02
1.3			ITNA	75MIL	01
U (ppm)					
8.4	0.56	*	ITNA	73SHE	01
8.6	1.	*35	FLUOR	78GLA	01
9.	6.	*	EXRF	77GIA	01
10.5	1.		ITNA	76RAG	01
10.6			ITNA	81WAN	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
10.6	0.6	35	IENA	78GLA	01
11.	0.4	6	PAA	82SEG	01
11.1	1.7		ITNA	76OND	01
11.3	0.3		ITNA	78NAD	02
11.3	0.3		ITNA	75NAD	02
11.3	0.3	35	DNA	78GLA	01
11.5	0.5	35	DNA	81GLA	03
11.5	0.5	35	IENA	80GLA	03
11.7			DNA	75MIL	01
11.7	2.		IDMS	78CAR	02
11.8			IDMS	75KLE	01
11.9	0.6		PAA	80SEG	01
11.9	0.4	6	PAA	82SEG	01
12.	0.5		GAMMA	73ABE	01
12.			ITNA	78WEA	01
12.	0.5	D*	NAA	74OND	01
12.	0.5		GAMMA	75OND	01
12.1	0.8	13	PAA	81SEG	01
12.1	2.	35	RTNA	75GLA	01
12.2	0.6		IENA	77ROW	04
12.2	1.	13	PAA	81SEG	01
12.4	0.6		IENA	77ROW	03
12.7	0.5		IENA	76STE	05
12.8			ITNA	80EDD	01
13.5	1.2		ITNA	76STE	05
13.8		*	ITNA	75MIL	01
15.		*	UU	80HEN	01
U-234 (PCi)					
4.07	0.12		NM	80CAS	01
4.07	0.12	D*	NM	81CAS	01
U-235 (PCi)					
0.179	0.012		NM	80CAS	01
0.179	0.012	D*	NM	81CAS	01
U-238 (PCi)					
4.01	0.04		NM	80CAS	01
4.01	0.04	D*	NM	81CAS	01
V (ppm)					
	200.	L*	XRF	81COH	02
151.		*6	SSMS	78GUI	01
174.	55.		XRF	79SMI	01
182.			XRF	78CAM	02
190.	50.		TCGS	79FAI	01
190.	50.	D*	TCGS	80AND	01
196.	10.		ITNA	78MAC	01
200.			UU	80HEN	01
200.	34.		EXRF	78PEL	01
201.	6.		FAA	76OWE	01
204.	15.		ITNA	76BLO	01
208.	12.		PAA	74CHA	01
210.			OES	78SUG	01
210.	12.	D*	PAA	77CHA	01
210.	12.		PAA	76CHA	01
216.			AA	78GUI	01
216.			EXRF	78WEG	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
219.			ICPES	80NAD	01
220.	15.		ITNA	73ABE	01
220.	15.		ITNA	77CHA	01
220.	20.	35	ITNA	81GLA	03
220.	15.	D*	ITNA	78RYA	01
221.			ITNA	78WEA	01
223.	10.		ITNA	78NAD	02
223.	9.9		ITNA	75NAD	02
224.	6.7		ICPES	81CHU	01
225.	20.		ITNA	76WEW	01
226.			FAA	78GUI	01
230.	10.6		ITNA	73SHE	01
230.	12.		OES	76WEW	01
230.	30.	35	IENA	80GLA	03
230.	10.	35	ITNA	81GLA	02
230.	10.		ITNA	78LAU	02
233.			ICPES	80FLO	01
234.	34.		ITNA	81WAN	01
235.	13.	D*	NAA	74OND	01
235.	15.		ITNA	75OND	01
237.	20.		ITNA	77ROW	03
237.	20.		ITNA	76STE	05
237.	9.		ITNA	77MAE	01
240.			ITNA	75KLE	01
270.	60.		ITNA	76OND	01
271.		6	SSMS	78GUI	01
290.	80.	*	ITNA	76RAG	01
295.	156.	*	EXRF	77GIA	01
410.		*	AA	76WEW	01
W (ppm)					
	19.	L*	EXRF	77GIA	01
3.8	0.7		ITNA	81WAN	01
3.9	0.4		IENA	77ROW	04
4.	0.4		IENA	77ROW	03
4.2	0.4		IENA	76STE	05
4.5	1.	D*	ITNA	78RYA	01
4.5	1.		ITNA	77CHA	01
4.6			ITNA	78WEA	01
4.6	1.6		ITNA	75OND	01
4.8	1.5		ITNA	76OND	01
4.9	0.7	35	RENA	81GLA	03
5.			UU	80HEN	01
5.	1.	35	IENA	80GLA	03
5.2	0.3	35	RTNA	78GLA	02
5.5	1.5		ITNA	76RAG	01
5.8	0.3	35	NAA	81GLA	04
6.	1.		ITNA	78MAC	01
12.7	1.1	*	ITNA	73SHE	01
Y (ppm)					
30.		*	UU	80HEN	01
44.	4.2		OES	76WEW	01
60.	8.		PAA	77CHA	01
60.	5.		EXRF	77GIA	01
62.	10.		PAA	75OND	01
65.			ICPES	80FLO	01
66.			XRF	78CAM	02
66.	2.		PAA	76KAT	03
67.	1.		PAA	76KAT	02

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
68.	16.		SSMS	78SUG	02
68.	1.		XRF	79SMI	01
150.	15.	*	14NAA	81WIL	02
150.	7.	*	14NAA	81WIL	01
Yb (ppm)					
4.7	0.4		ITNA	78MAC	01
4.8	0.6		ITNA	76WEW	01
5.5	0.3		ITNA	78LAU	02
5.5	1.4		ITNA	78NAD	02
5.53	0.14		ITNA	75NAD	02
5.7	0.56		OES	76WEW	01
5.7	0.6		ITNA	76OND	01
5.9	0.3		IENA	77ROW	04
5.9	0.3		ITNA	76RAG	01
6.1	0.18		ICPES	81CHU	01
6.2	3.4		ITNA	73SHE	01
6.2	0.2	5	ITNA	77ROW	04
6.6	0.4	D*	ITNA	77ROW	04
6.6	0.4		ITNA	77ROW	03
6.8			ITNA	75MIL	01
7.			ICPES	80FLO	01
7.	3.		ITNA	75OND	01
7.2	2.1	D*	ITNA	78RYA	01
7.2	2.1		ITNA	77CHA	01
8.	0.5	35	ITNA	81GLA	03
8.4	0.6		ITNA	81WAN	01
8.9	0.9	*	ITNA	73ABE	01
9.	1.4	*	SSMS	78SUG	02
Zn (ppm)					
	420.	L*	14NAA	81WIL	01
	300.	L*	14NAA	81WIL	02
180.7	4.	*	AA	74GAL	01
195.	23.		RTNA	74ORV	01
198.			AA	78GUI	01
200.			EXRF	78WEG	01
200.			UU	80HEN	01
200.	20.		ITNA	77CHA	01
200.	8.		IENA	77ROW	04
200.	10.		EXRF	78PEL	01
200.	20.		ITNA	78LAU	02
200.	20.	D*	ITNA	78RYA	01
200.	10.	9	ITNA	78LAU	02
200.5	4.		RTNA	74GAL	01
201.	6.		ITNA	77ROW	03
201.	8.		AA	76OND	01
201.	6.	D*	ITNA	77ROW	04
201.			AE+AF	77FEL	01
202.			XRF	78CAM	02
204.	12.	35	FAA	81GLA	03
204.	13.	5	IENA	80GLA	03
205.	10.	6	PAA	82SEG	01
205.	20.		PAA	80SEG	01
206.	7.3		ITNA	81WAN	01
207.			ITNA	78WEA	01
208.	9.5		AA	80STO	02
208.			XRF	75KLE	01
208.1	24.		ITNA	74GAL	01
208.2	3.6		AA	77MIT	01
210.	36.		OES	76WEW	01

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
210.			OES	78SUG	01
210.			ICPES	80NAD	01
211.			ICPES	80EPS	03
212.	14.		ITNA	78NAD	02
212.	14.		ITNA	75NAD	02
212.			ICPES	80FLO	01
212.	20.		FAA	76OWE	01
212.	7.		XRF	79SMI	01
213.5	1.		XRF	74GAL	01
214.			AA	78GEL	01
214.	2.		AF	75EPS	01
214.	16.		PAA	74CHA	01
214.	2.		AA	75EPS	01
215.	20.		NAA	77JER	01
215.	20.		PAA	76CHA	01
215.	20.	D*	PAA	77CHA	01
216.			FAA	80WAL	01
216.	25.	D*	NAA	74OND	01
216.	25.		PAA	75OND	01
216.	14.		EXRF	77GIA	01
216.	2.4		AA	74RAI	01
219.	4.		ICPES	79EPS	01
220.	10.	6	PAA	82SEG	01
220.	5.		ITNA	76OND	01
220.	130.		ITNA	76BLO	01
221.	16.	5	IENA	80GLA	03
221.			AA	79SIL	01
221.	16.	35	NAA	81GLA	04
228.	6.9		ICPES	81CHU	01
230.	40.		ITNA	76RAG	01
234.			AA	78WEG	01
250.		*	AA	76WEW	01
270.		*6	SSMS	78GUI	01
270.	30.	*	ITNA	78MAC	01
283.		*6	SSMS	78GUI	01
308.	75.	*	ITNA	76WEW	01
700.	220.	*	ITNA	73SHE	01
Zr (ppm)					
160.	34.	*	OES	76WEW	01
182.	76.		ITNA	76RAG	01
200.			UU	80HEN	01
223.	6.7		ICPES	81CHU	01
286.	8.	35	IENA	81GLA	04
288.			ICPES	80FLO	01
290.	20.	5	IENA	80GLA	03
290.	7.		EXRF	77GIA	01
298.	10.		PAA	76KAT	03
298.	6.		PAA	76KAT	02
300.	20.	D*	PAA	77CHA	01
300.	20.		PAA	76CHA	01
301.	22.		PAA	74CHA	01
301.	20.		PAA	75OND	01
305.			XRF	78CAM	02
310.	20.		ITNA	77CHA	01
310.	20.	9	ITNA	78LAU	02
310.	70.	D*	IENA	77ROW	04
310.	20.	D*	ITNA	78RYA	01
310.	70.		IENA	77ROW	03
311.	8.		XRF	79SMI	01
340.	50.	5	IENA	80GLA	03
380.	20.		14NAA	81WIL	02

TABLE X (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
410.			ITNA	77ROW	04
410.	20.		14NAA	81WIL	01
500.		*	ITNA	75MIL	01
640.	140.	*	ITNA	73SHE	01

TABLE Y

NBS SRM 1633A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppb)					
	600.	L*	IENA	80GLA	03
	1100.	L*	ITNA	82SUZ	02
Al (%)					
13.8	0.32		ITNA	82OBR	01
14.	0.2	D*	TCGS	80AND	01
14.	0.2		TCGS	79FAI	01
14.2	0.3	35	ITNA	81GLA	02
14.2	0.3		ITNA	80GAR	01
14.2	0.4	35	ITNA	81GLA	04
14.5	0.12		AA	82NAD	02
14.7	0.7		ITNA	82SUZ	02
14.81	0.2		ICPES	82NAD	02
15.	0.43		CPXRF	80KIR	01
As (ppm)					
97.	18.	*	CPXRF	80KIR	01
141.	8.		AE+AF	82MAT	01
142.			ITNA	81SLO	01
143.			RTNA	81SLO	01
145.	8.	35	VV	81GLA	04
145.	6.		ITNA	82SUZ	02
145.	11.		IENA	82GLA	02
145.3	8.1		ITNA	82OBR	01
148.	3.	35	IENA	80GLA	03
B (ppm)					
39.	1.		ICPES	82OWE	01
39.	3.	35	TCGS	81GLA	04
39.2	0.7		TCGS	79FAI	01
39.2	0.7	D*	TCGS	80AND	01
41.6	2.		TCGS	83GLA	03
Ba (ppm)					
1060.			ITNA	82GLA	02
1100.	100.	9	ITNA	82SUZ	02
1210.	50.		ITNA	82SUZ	02
1240.	200.	5	IENA	80GLA	03
1400.	20.	5	IENA	80GLA	03
1440.	36.		ITNA	82OBR	01
1450.	110.	35	NAA	81GLA	04
1490.	80.		ITNA	83GLA	01
1500.	100.		CPXRF	80KIR	01
1500.	90.		ITNA	80GAR	01
1500.	200.	35	ITNA	81GLA	02
1520.	20.	5	IENA	80GLA	03
1600.			ICPES	82NAD	02
1760.	300.	5	IENA	80GLA	03
Br (ppm)					
	10.	L*	IENA	80GLA	03
2.2	0.3		ITNA	82SUZ	02
2.4	0.1	5	IENA	80GLA	03

TABLE Y (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ca (%)					
1.05	0.16	35	ITNA	81GLA	02
1.09	0.01		AA	82NAD	02
1.1	0.3	35	IENA	80GLA	03
1.1	0.1	35	ITNA	81GLA	04
1.11	0.076		ITNA	82OBR	01
1.11	0.03		ICPES	82NAD	02
1.12	0.08		ITNA	80GAR	01
1.14	0.04		AA	82GLA	02
1.16	0.21		ITNA	82SUZ	02
1.2	0.08		CPXRF	80KIR	01
1.29	0.11	*	TCGS	79FAI	01
1.29	0.11	D*	TCGS	80AND	01
Cd (ppm)					
	1.4	L*	ITNA	82SUZ	02
1.07	0.05		TCGS	79FAI	01
1.07	0.05	D*	TCGS	80AND	01
Ce (ppm)					
163.	6.		ITNA	82GLA	02
167.	8.		ITNA	82SUZ	02
170.	6.	35	ITNA	81GLA	02
174.	5.	12	ITNA	82SUZ	02
180.	5.	35	NAA	81GLA	04
183.	19.		ITNA	80GAR	01
186.	4.	35	IENA	80GLA	03
230.	45.	*	CPXRF	80KIR	01
Cl (ppm)					
	69.	L*	ITNA	82SUZ	02
Co (ppm)					
37.	3.	35	IENA	80GLA	03
38.	13.		CPXRF	80KIR	01
40.			ITNA	82GLA	02
44.	1.		ITNA	82SUZ	02
44.	1.	35	ITNA	81GLA	02
44.8	0.8		ITNA	83GLA	01
46.2	1.8		ITNA	80GAR	01
47.	4.	35	NAA	81GLA	04
Cr (ppm)					
185.	7.		ITNA	82SUZ	02
186.	8.	35	ITNA	81GLA	02
191.	13.		ITNA	82GLA	02
192.			ICPES	81WAL	01
194.	6.	12	ITNA	82SUZ	02
195.	7.		ITNA	83GLA	01
197.	18.	35	ITNA	81GLA	04
197.	13.		ITNA	80GAR	01
200.	11.		CPXRF	80KIR	01
Cs (ppm)					
9.3	0.5		ITNA	82GLA	02
9.7	0.6	35	ITNA	81GLA	02

TABLE Y (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
9.9	0.9		ITNA	83GLA	01
10.1	0.2	35	IENA	80GLA	03
10.2	0.2		ITNA	82SUZ	02
10.5	0.3	35	NAA	81GLA	04
10.6	1.1		ITNA	80GAR	01
Cu (ppm)					
	350.	L*	ITNA	82SUZ	02
120.	5.2		CPXRF	80KIR	01
Dy (ppm)					
14.3	0.2	35	ITNA	81GLA	02
14.5		35	ITNA	81GLA	04
15.	3.3		ITNA	82OBR	01
16.6	1.3		ITNA	80GAR	01
16.8	0.3		ITNA	82SUZ	02
Eu (ppm)					
2.	2.	*35	IENA	80GLA	03
2.98	0.33		ITNA	80GAR	01
3.19	0.08	35	ITNA	81GLA	02
3.6	0.1		ITNA	83GLA	01
3.64	0.25		ITNA	82OBR	01
3.7	0.2		ITNA	82GLA	02
3.7	0.2	35	ITNA	81GLA	04
3.7	0.3		ITNA	82SUZ	02
Fe (%)					
8.84		*	AA	82GLA	02
8.88	0.07	*	AA	82NAD	02
9.21	0.1		ICPES	82NAD	02
9.23	0.09	35	ITNA	81GLA	02
9.36	0.49	35	NAA	81GLA	04
9.4	0.3		ITNA	82SUZ	02
9.4	0.1	5	IENA	80GLA	03
9.49	0.1		ITNA	83GLA	01
9.5	0.3		ITNA	80GAR	01
9.5	0.3	12	ITNA	82SUZ	02
9.7	0.2	5	IENA	80GLA	03
9.7	0.2		TCGS	79FAI	01
9.7	0.2	D*	TCGS	80AND	01
Ga (ppm)					
51.	5.		ITNA	82SUZ	02
55.	4.6		CPXRF	80KIR	01
55.7	4.5		ITNA	82OBR	01
56.		35	IENA	81GLA	04
59.	1.	35	IENA	80GLA	03
Gd (ppm)					
15.3	0.2		TCGS	79FAI	01
23.5	0.3		TCGS	80AND	01
H2O-T (%)					
0.35			FD	80KHA	02

TABLE Y (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Hf (ppm)					
6.3	0.7	9	ITNA	82SUZ	02
6.6			ITNA	82GLA	02
7.2	0.3	35	ITNA	81GLA	02
7.2	0.8		ITNA	82SUZ	02
7.4	0.4		ITNA	83GLA	01
7.6	0.2	35	NAA	81GLA	04
7.78	0.85		ITNA	80GAR	01
7.8	0.2	35	IENA	80GLA	03
Hg (ppm)					
	0.63	L*	ITNA	82SUZ	02
	0.42	L*	ITNA	82SUZ	02
150.	10.		CVAA	82GLA	02
151.	12.		CVAA	82DOO	01
I (ppm)					
	5.	L*	ITNA	82SUZ	02
In (ppb)					
151.	16.		ITNA	82SUZ	02
160.	30.		ITNA	82OBR	01
K (%)					
1.8	0.07		CPXRF	80KIR	01
1.82			ITNA	83GLA	01
1.84	0.14		ITNA	80GAR	01
1.86	0.089		ITNA	82OBR	01
1.86	0.12		ITNA	82SUZ	02
1.88	0.1	35	ITNA	81GLA	04
1.88	0.04		ICPES	82NAD	02
1.93	0.03		AA	82NAD	02
1.96	0.02		AA	82GLA	02
1.97	0.04		TCGS	79FAI	01
1.97	0.04	D*	TCGS	80AND	01
1.99	0.03	35	IENA	80GLA	03
La (ppm)					
62.	2.	*	ITNA	82SUZ	02
79.			ITNA	83GLA	01
81.	1.		ITNA	82GLA	02
83.	4.	35	ITNA	81GLA	04
84.	2.		ITNA	82GRA	01
84.	6.	35	IENA	80GLA	03
87.9	7.		ITNA	82OBR	01
100.	23.	*	ITNA	80GAR	01
Lu (ppm)					
0.93	0.09		ITNA	80GAR	01
0.97	0.25		ITNA	82GLA	02
1.44	0.12		ITNA	82SUZ	02

TABLE Y (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Mg (ppm)					
3800.	700.		CPXRF	80KIR	01
4200.			AA	82GLA	02
4500.	500.		ITNA	80GAR	01
4590.	30.		AA	82NAD	02
4600.	70.		ICPES	82NAD	02
8000	1300.	*	ITNA	82SUZ	02
Mn (ppm)					
170.	24.		ITNA	82SUZ	02
182.	3.	35	ITNA	81GLA	02
185.	11.		ITNA	82OBR	01
190.	15.		TCGS	79FAI	01
190.	15.	D*	TCGS	80AND	01
191.	4.		ITNA	80GAR	01
195.	15.		CPXRF	80KIR	01
210.	50.	35	ITNA	81GLA	04
230.			ICPES	82NAD	02
260.	20.	35	IENA	80GLA	03
277.	7.		ITNA	83GLA	01
Mo (ppm)					
27.	6.		ITNA	82SUZ	02
30.	4.2		CPXRF	80KIR	01
36.	1.	35	IENA	80GLA	03
Na (ppm)					
1560.	70.		AA	82NAD	02
1680.	90.		ITNA	82OBR	01
1700.	70.		ICPES	82NAD	02
1720.	50.		ITNA	80GAR	01
1730.	10.		ITNA	83GLA	01
1740.	100.	35	ITNA	81GLA	04
1750.	50.		ITNA	82SUZ	02
1760.			ITNA	82GLA	02
1800.	100.	35	ITNA	81GLA	02
2020.	400.		ITNA	82SCH	05
2100.	600.	*	TCGS	79FAI	01
2100.	600.	D*	TCGS	80AND	01
2200.	600.	*	CPXRF	80KIR	01
Nd (ppm)					
65.6	5.4		TCGS	79FAI	01
66.	5.		TCGS	80AND	01
71.	3.	35	IENA	80GLA	03
113.	7.		ITNA	82SUZ	02
122.	13.	*12	ITNA	82SUZ	02
Ni (ppm)					
112.	4.8		CPXRF	80KIR	01
117.	6.	35	IENA	80GLA	03
128.	6.		ITNA	82SUZ	02
139.	7.	12	ITNA	82SUZ	02

TABLE Y (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
O (%)					
47.66	0.36	34	14NAA	80KHA	02
P (ppm)					
1700.			XRF	81TUR	01
1800.	300.		ICPES	82NAD	02
2000.			AA	82NAD	02
Pb (ppm)					
65.	5.7		CPXRF	80KIR	01
Pr (ppm)					
17.9	1.7	12	ITNA	82SUZ	02
18.9	1.1		ITNA	82SUZ	02
Rb (ppm)					
124.	4.		ITNA	82SUZ	02
130.	26.		ITNA	80GAR	01
134.	16.	35	NAA	81GLA	04
134.	8.		ITNA	83GLA	01
138.	8.	12	ITNA	82SUZ	02
147.	8.	35	ITNA	81GLA	02
150.	12.		CPXRF	80KIR	01
163.	2.	35	IENA	80GLA	03
S (ppm)					
	114000.	L*	ITNA	82SUZ	02
2700.	200.		TCGS	79FAI	01
2700.	200.	D*	TCGS	80AND	01
Sb (ppm)					
6.3	0.2		ITNA	82SUZ	02
6.6			ITNA	82GLA	02
6.95	0.22	35	ITNA	81GLA	02
7.3	0.2		RTNA	81SLO	01
7.7	0.5	35	IENA	80GLA	03
7.8	1.5		ITNA	80GAR	01
Sc (ppm)					
34.	4.2		CPXRF	80KIR	01
34.	1.		ITNA	82SUZ	02
36.			ITNA	82GLA	02
39.	2.		ITNA	83GLA	01
40.	1.	35	ITNA	81GLA	02
40.6	1.3		ITNA	80GAR	01
41.	2.	35	ITNA	81GLA	04
43.	1.	35	IENA	80GLA	03
Se (ppm)					
7.8	2.1		CPXRF	80KIR	01
8.8	0.4	9	ITNA	82SUZ	02
9.4	0.5		RTNA	81SLO	01
9.4	0.3	35	RTNA	81GLA	01

TABLE Y (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
10.	2.	35	IENA	80GLA	03
10.2	0.6		ITNA	82SUZ	02
10.7	0.8	35	NAA	81GLA	04
Si (%)					
18.	0.93	*	CPXRF	80KIR	01
22.2	0.4		TCGS	79FAI	01
22.2	0.4	D*	TCGS	80AND	01
23.37	0.23		ICPES	82NAD	02
23.9	0.5		AA	82GLA	02
23.9	0.5	35	IENA	80GLA	03
24.2	0.8		AA	82NAD	02
Sm (ppm)					
14.5	1.3	35	ITNA	81GLA	04
16.	0.2		TCGS	79FAI	01
16.	0.2	D*	TCGS	80AND	01
16.4	0.1		ITNA	82GLA	02
16.7			ITNA	83GLA	01
18.8	0.6		ITNA	82OBR	01
19.4	0.7		ITNA	82SUZ	02
20.	4.4		ITNA	80GAR	01
Sr (ppm)					
740.	20.	*5	IENA	80GLA	03
770.		35	IENA	81GLA	04
813.	70.		ITNA	82OBR	01
815.	7.		IENA	83GLA	01
819.	54.		ITNA	80GAR	01
825.	40.		CPXRF	80KIR	01
840.	40.	12	ITNA	82SUZ	02
840.	30.	5	IENA	80GLA	03
850.	70.		ITNA	82SUZ	02
Ta (ppm)					
1.71	0.05		ITNA	82SUZ	02
1.8	0.2	35	NAA	81GLA	04
1.8	0.1		ITNA	83GLA	01
1.8	0.12	35	ITNA	81GLA	02
1.94			ITNA	82GLA	02
2.	0.5		ITNA	80GAR	01
2.1	0.2	35	IENA	80GLA	03
Tb (ppm)					
2.1	0.1		ITNA	82SUZ	02
2.1	0.2		ITNA	83GLA	01
2.3	0.7		ITNA	80GAR	01
2.8	0.5	35	NAA	81GLA	04
2.9	0.1	35	IENA	80GLA	03
Te (ppm)					
	6.6	L*	ITNA	82SUZ	02

TABLE Y (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Th (ppm)					
22.4			ITNA	82GLA	02
24.3	3.8		ITNA	82SUZ	02
24.6	0.9	35	NAA	81GLA	04
24.6	1.1	35	ITNA	81GLA	02
24.8	1.6		ITNA	80GAR	01
24.8	0.5		ITNA	83GLA	01
25.	1.	35	IENA	80GLA	03
26.	1.5	12	ITNA	82SUZ	02
28.	8.3	*	CPXRF	80KIR	01
Ti (ppm)					
7800.	300.		ITNA	82SUZ	02
7880.	540.		ITNA	82OBR	01
8000.	600.	35	NAA	81GLA	04
8000.	800.		CPXRF	80KIR	01
8060.	370.		ITNA	80GAR	01
8200.	700.	35	ITNA	81GLA	02
8300.			ITNA	83GLA	01
8400.	100.	35	IENA	80GLA	03
8400.	100.		TCGS	79FAI	01
8400.	60.		ICPES	82NAD	02
8400.	100.	D*	TCGS	80AND	01
9000.		*	AA	82NAD	02
Tl (ppm)					
4.4	1.3		CPXRF	80KIR	01
U (ppm)					
9.83	0.9	*	IENA	82OBR	01
10.2	0.3		DNA	82GLA	02
10.2	0.1	35	IENA	80GLA	03
10.2	0.2		DNA	80GAR	01
10.3	0.4		ITNA	82SUZ	02
10.4	0.3	17	DNA	82CON	01
10.4	0.8		DNA	83GLA	01
10.47	0.09	35	DNA	80GLA	01
10.6	0.4	35	NAA	81GLA	04
10.7	0.3	17	DNA	82CON	01
11.	2.7	*	CPXRF	80KIR	01
V (ppm)					
280.			ICPES	81WAL	01
280.	18.		CPXRF	80KIR	01
288.	20.		ITNA	82OBR	01
290.	20.	35	IENA	80GLA	03
290.	20.		ITNA	82SUZ	02
292.	16.	35	ITNA	81GLA	02
294.	28.	35	ITNA	81GLA	04
301.	8.		ITNA	80GAR	01
360.	40.	*	TCGS	79FAI	01
360.	40.	D*	TCGS	80AND	01

TABLE Y (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
W (ppm)					
5.4	0.4	35	IENA	80GLA	03
5.4	0.8		ITNA	82OBR	01
5.4	0.4	D*	NAA	81GLA	04
5.9	0.4		ITNA	82SUZ	02
6.9	1.2		RENA	82GLA	02
Yb (ppm)					
6.9	0.3		ITNA	82SUZ	02
7.5	0.5		ITNA	82GLA	02
8.2		35	ITNA	81GLA	04
10.	1.8		ITNA	80GAR	01
Zn (ppm)					
218.	18.		CPXRF	80KIR	01
220.	50.		ITNA	80GAR	01
222.	7.	5	IENA	80GLA	03
230.			AA	82GLA	02
250.	20.	12	ITNA	82SUZ	02
250.	30.		ITNA	82SUZ	02
256.	12.	5	IENA	80GLA	03
Zr (ppm)					
300.	30.	5	IENA	80GLA	03
370.	50.	5	IENA	80GLA	03
400.	50.	12	ITNA	82SUZ	02
410.	40.		ITNA	82SUZ	02

TABLE Z

NBS SRM 1634—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
As (ppb)					
	400.	L*	EXRF	79GIA	01
56.			ITNA	77FIL	01
63.	3.		ITNA	78BER	02
70.			ITNA	78WEA	01
95.			RTNA	74ORV	01
120.			ITNA	81SHA	01
Au (ppb)					
24.			ITNA	73SHE	01
Br (ppb)					
39.			ITNA	77FIL	01
39.1	5.3		UU	77PAC	01
40.			ITNA	78WEA	01
41.	4.		ITNA	78BER	02
240.	70.	*	ITNA	73SHE	01
Ca (ppm)					
15.	2.		ITNA	73SHE	01
Cd (ppb)					
	10.	L*	RTNA	74ORV	01
5.			FAA	74RAI	01
Cl (ppm)					
7.8	0.5		UU	77PAC	01
8.			ITNA	78WEA	01
8.4	0.5		ITNA	78BER	02
18.	0.7	*	ITNA	73SHE	01
Co (ppb)					
250.	10.		ITNA	73SHE	01
301.			ITNA	77FIL	01
301.	14.		UU	77PAC	01
310.	15.		ITNA	78BER	02
400.			ITNA	78WEA	01
Cr (ppb)					
	6000.	L*	EXRF	79GIA	01
80.			ITNA	81SHA	01
93.			ITNA	77FIL	01
100.			ITNA	78WEA	01
116.	35.		ITNA	73SHE	01
Cu (ppm)					
	800.	L*	EXRF	79GIA	01
220.	20.		ITNA	73SHE	01

TABLE Z (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Fe (ppm)					
10.8	3.3	32	EXRF	78KUB	01
12.3			POL	74MAI	01
12.4	1.6		ITNA	73SHE	01
12.5	2.2		UU	77PAC	01
13.			ICPES	79MER	01
13.5	1.2		ITNA	81SHA	01
14.	1.5		EXRF	79GIA	01
14.1	0.6		AA	74RAI	01
14.2	1.5		ITNA	78BER	02
14.4	1.7	32	EXRF	78KUB	01
15.1	2.4	32	EXRF	78KUB	01
16.2	2.8	32	EXRF	78KUB	01
16.9	2.5	32	EXRF	78KUB	01
20.			ITNA	77FIL	01
25.		*	ITNA	78WEA	01
Hg (ppb)					
	10.	L*	ITNA	81SHA	01
	10.	L*	ITNA	77FIL	01
2.3	0.2		RTNA	74ORV	01
22.	15.		ITNA	73SHE	01
K (ppm)					
315.			ITNA	77FIL	01
Mn (ppb)					
	300.	L*	ICPES	79MER	01
	3000.	L*	EXRF	79GIA	01
110.	10.		ITNA	78BER	02
190.			ITNA	73SHE	01
200.			ITNA	81SHA	01
320.			ITNA	78WEA	01
Mo (ppb)					
870.	80.		ITNA	78BER	02
Na (ppm)					
11.2			ITNA	77FIL	01
11.2	0.7		UU	77PAC	01
12.			ITNA	78WEA	01
13.2	1.5		ITNA	78BER	02
Ni (ppm)					
31.1	2.1		AA	74RAI	01
32.	2.	32	EXRF	78KUB	01
32.	1.6		EXRF	79GIA	01
32.	1.	32	EXRF	78KUB	01
33.	1.	32	EXRF	78KUB	01
35.	2.	32	EXRF	78KUB	01

TABLE Z (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
35.2			POL	74MAI	01
36.	1.	32	EXRF	78KUB	01
36.7			ICPES	79MER	01
37.	2.		ITNA	78BER	02
37.4			ITNA	77FIL	01
37.4	1.5		UU	77PAC	01
38.1		6	IDMS	74MOO	01
38.1		6	IDMS	74MOO	01
38.2		6	IDMS	74MOO	01
39.5	2.26		ITNA	73SHE	01
Pb (ppb)					
	500.	*	ICPES	79MER	01
	1500.	L*	EXRF	79GIA	01
41.			POL	74MAI	01
50.			FAA	74RAI	01
S (%)					
2.	0.1		TITR	80MCC	01
2.	0.2		MECA	80MCC	01
2.04	0.39		ITNA	73SHE	01
2.05	0.4		UU	77PAC	01
2.154	0.009		IC	80MCC	01
2.17			XRF	80MCC	01
2.24	0.05		ICPES	81WAL	02
2.24	0.05		ITNA	81SHA	01
2.3	0.3		ITNA	78BER	02
Sb (ppb)					
10.			ITNA	77FIL	01
10.			ITNA	78WEA	01
14.	3.		ITNA	73SHE	01
Se (ppb)					
138.	60.	*	RTNA	74ORV	01
170.			ITNA	77FIL	01
190.	30.		ITNA	73SHE	01
200.			ITNA	78WEA	01
V (ppm)					
266.	18.		ITNA	73SHE	01
283.	12.		EXRF	79GIA	01
300.			ITNA	81SHA	01
303.	18.	32	EXRF	78KUB	01
310.			ITNA	78WEA	01
310.	5.	32	EXRF	78KUB	01
311.	7.	32	EXRF	78KUB	01
312.	16.4		UU	77PAC	01
314.			ICPES	79MER	01
317.	6.		GC	81DIL	01
318.	15.		ITNA	78BER	02
323.	9.	32	EXRF	78KUB	01
325.	11.	32	EXRF	78KUB	01
326.	6.8		AA	74RAI	01

TABLE Z (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Zn (ppb)					
	1000.	L*	ITNA	81SHA	01
	600.	*	ICPES	79MER	01
	600.	L*	EXRF	79GIA	01
170.	20.		RTNA	74ORV	01
300.			ITNA	78WEA	01
480.	120.		ITNA	73SHE	01

TABLE AA

NBS SRM 1635—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppm)					
	2.5	L*	WXRF	82MIL	01
	0.038	L*	ITNA	82SUZ	02
Al (ppm)					
3000.	300.		ITNA	80GER	01
3000.	300.		ITNA	82SUZ	02
3400.	400.	D*	TCGS	80GER	01
3400.	400.		TCGS	79FAI	01
3400.	400.	D*	TCGS	80AND	01
As (ppb)					
280.	20.		HAA	82NAD	01
320.			FAA	82WIL	01
330.			AF	82WIL	01
400.	50.		ITNA	82SUZ	02
440.	50.		RTNA	78GAL	01
700.	400.	*	ITNA	80GER	01
700.		*34	WXRF	82MIL	01
Ash (%)					
4.8		34	CB	82MIL	01
B (ppm)					
104.5	2.6		TCGS	79FAI	01
105.	3.	D*	TCGS	80GER	01
105.	3.		TCGS	80AND	01
135.	11.		ITNA	82SCH	05
Ba (ppm)					
	2800.	L*	ITNA	80TOU	01
67.	20.	9	ITNA	82SUZ	02
70.	9.		ITNA	80GER	01
72.	17.	5	ITNA	80TOU	01
77.	24.		ITNA	82SUZ	02
81.		34	WXRF	82MIL	01
Bi (ppm)					
	1.	L*	WXRF	82MIL	01
Br (ppm)					
	170.	L*	ITNA	80TOU	01
1.07	0.17		ITNA	82SUZ	02
1.6	0.3		ITNA	80GER	01
1.9	0.2	5	ITNA	80TOU	01
3.		34	WXRF	82MIL	01
C (%)					
59.	3.	D*	TCGS	80GER	01
59.	3.		TCGS	79FAI	01
59.	3.	D*	TCGS	80AND	01
66.23	0.06		CB	80SCH	02

TABLE AA (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ca (ppm)					
5400.	200.		TCGS	79FAI	01
5400.	200.	D*	TCGS	80GER	01
5400.	200.	D*	TCGS	80AND	01
5500.	900.		ITNA	82SUZ	02
5700.	700.		ITNA	80GER	01
Cd (ppb)					
	3000.	L*	WXRF	82MIL	01
	380.	L*	ITNA	82SUZ	02
29.	3.		RTNA	78GAL	01
Ce (ppm)					
3.3	0.2	12	ITNA	82SUZ	02
3.4	0.2		ITNA	82SUZ	02
3.5	0.5		ITNA	80GER	01
8.		*34	WXRF	82MIL	01
Cl (ppm)					
	30.	L*	ITNA	82SUZ	02
26.	2.	D*	TCGS	80GER	01
26.	2.		TCGS	79FAI	01
26.	4.		ITNA	80GER	01
26.	2.	D*	TCGS	80AND	01
36.		34	WXRF	82MIL	01
Co (ppm)					
0.62	0.06		ITNA	82SUZ	02
0.7		34	WXRF	82MIL	01
0.59	0.06		ITNA	80GER	01
Cr (ppm)					
2.		34	WXRF	82MIL	01
2.3	0.2		ITNA	80GER	01
2.48	0.08		RTNA	78GAL	01
2.5	0.2	12	ITNA	82SUZ	02
2.6	0.3		ITNA	82SUZ	02
Cs (ppb)					
	500.	L*	WXRF	82MIL	01
46.	5.		ITNA	80GER	01
53.	6.		ITNA	82SUZ	02
Cu (ppm)					
	46.	L*	ITNA	82SUZ	02
3.		34	WXRF	82MIL	01
3.56	0.18		RTNA	78GAL	01
Dy (ppb)					
	740.	L*	ITNA	82SUZ	02
	2000.	L*	WXRF	82MIL	01
310.	40.		ITNA	80GER	01

TABLE AA (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Er (ppb)					
	2000.	L*	WXRF	82MIL	01
Eu (ppb)					
	1000.	L*	WXRF	82MIL	01
59.	2.		ITNA	82SUZ	02
61.	7.		ITNA	80GER	01
F (ppm)					
20.			ISE	83KNA	01
Fe (ppm)					
2200.	100.	D*	TCGS	80GER	01
2200.	100.		TCGS	79FAI	01
2200.	100.	D*	TCGS	80AND	01
2300.	200.		ITNA	80GER	01
2330.	240.	12	ITNA	82SUZ	02
2340.	140.	12	ITNA	82SUZ	02
Ga (ppm)					
	2.	L*	ITNA	82SUZ	02
1.1		34	WXRF	82MIL	01
Gd (ppb)					
	1500.	L*	WXRF	82MIL	01
230.	10.		TCGS	79FAI	01
350.	20.		TCGS	80AND	01
Ge (ppm)					
0.5		34	WXRF	82MIL	01
H (%)					
3.96	0.03		TCGS	79FAI	01
3.96	0.03	D*	TCGS	80AND	01
3.96	0.03	D*	TCGS	80GER	01
4.18	0.14		CB	80SCH	02
H2O-T (%)					
14.			FD	80KHA	02
Hf (ppb)					
	2000.	L*	WXRF	82MIL	01
240.	40.	9	ITNA	82SUZ	02
270.	40.		ITNA	80GER	01
290.	20.		ITNA	82SUZ	02
Hg (ppb)					
	1500.	L*	WXRF	82MIL	01
	56.	L*	ITNA	82SUZ	02
5.	15.	R*	CVAA	82DOO	01
35.	11.	12	ITNA	82SUZ	02

TABLE AA (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ho (ppm)					
	1.5	L*	WXRF	82MIL	01
I (ppb)					
	1300.	L*	WXRF	82MIL	01
	860.	L*	ITNA	82SUZ	02
600.	300.		ITNA	80GER	01
In (ppb)					
	1000.	L*	WXRF	82MIL	01
	31.	L*	ITNA	82SUZ	02
5.	2.		ITNA	80GER	01
K (ppm)					
90.	90.		ITNA	82SUZ	02
97.	6.		TCGS	79FAI	01
97.	6.	D*	TCGS	80GER	01
97.	6.	D*	TCGS	80AND	01
120.	10.		ITNA	80GER	01
La (ppm)					
1.38	0.07		ITNA	82SUZ	02
2.		34	WXRF	82MIL	01
2.1	0.3		ITNA	80GER	01
Lu (ppb)					
	2000.	L*	WXRF	82MIL	01
27.	4.		ITNA	80GER	01
36.	7.		ITNA	82SUZ	02
Mg (ppm)					
940.	190.		ITNA	82SUZ	02
1000.	200.		ITNA	80GER	01
Mn (ppm)					
19.	1.2		ITNA	82SUZ	02
22.	3.		ITNA	80GER	01
23.		34	WXRF	82MIL	01
24.	7.		TCGS	79FAI	01
24.	7.	D*	TCGS	80AND	01
24.	7.	D*	TCGS	80GER	01
Mo (ppb)					
	1000.	L*	WXRF	82MIL	01
270.	100.		ITNA	82SUZ	02
N (%)					
1.	0.1		TCGS	79FAI	01
1.	0.1	D*	TCGS	80AND	01
1.	0.1	D*	TCGS	80GER	01
1.52	0.02		CB	80SCH	02

TABLE AA (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Na (ppm)					
2200.	160.		ITNA	82SCH	05
2400.	200.		ITNA	80GER	01
2400.	200.		ITNA	82SUZ	02
2420.		34	WXRF	82MIL	01
2700.	50.		TCGS	79FAI	01
2700.	50.	D*	TCGS	80GER	01
2700.	50.	D*	TCGS	80AND	01
Nb (ppm)					
	1.	L*	WXRF	82MIL	01
Nd (ppm)					
	1.8	L*	ITNA	82SUZ	02
	1.6	L*	ITNA	82SUZ	02
	1.	L*	WXRF	82MIL	01
1.4	0.2		ITNA	80GER	01
Ni (ppm)					
1.72	0.32		ITNA	82SUZ	02
1.83	0.23	12	ITNA	82SUZ	02
3.		34	WXRF	82MIL	01
O (%)					
20.79	0.19	34	14NAA	80KHA	02
33.	1.6		14NAA	80NAD	01
34.99	0.32	35	14NAA	80KHA	02
P (ppm)					
63.		34	WXRF	82MIL	01
Pb (ppm)					
1.48	0.21		HAA	82NAD	01
2.6		34	WXRF	82MIL	01
Pb-210 (PCi)					
0.069	0.001		NM	80CAS	01
0.07	0.001	D*	NM	81CAS	01
Pr (ppm)					
	4.3	L*	ITNA	82SUZ	02
	1.	L*	WXRF	82MIL	01
	4.4	L*	ITNA	82SUZ	02
Rb (ppm)					
	0.3	L*	WXRF	82MIL	01
0.76	0.09		ITNA	82SUZ	02
0.83	0.08	12	ITNA	82SUZ	02

TABLE AA (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
S (ppm)					
	19000.	L*	ITNA	82SUZ	02
3200.	100.		TCGS	79FAI	01
3200.	100.	D*	TCGS	80GER	01
3200.	100.	D*	TCGS	80AND	01
Sb (ppb)					
	1000.	L*	WXRF	82MIL	01
120.	10.		RTNA	78GAL	01
130.	10.		HAA	82NAD	01
140.	10.		ITNA	80GER	01
160.	30.		ITNA	82SUZ	02
170.	40.	5	ITNA	80TOU	01
Sc (ppb)					
	1200.	L*	ITNA	80TOU	01
560.	50.		ITNA	82SUZ	02
690.	70.		ITNA	80GER	01
700.	30.	5	ITNA	80TOU	01
900.		34	WXRF	82MIL	01
Se (ppm)					
0.79	0.07		HAA	82NAD	01
0.8	0.2		RTNA	80KNA	01
0.82	0.04		RTNA	78GAL	01
0.9			AF	82WIL	01
0.9			FAA	82WIL	01
0.94	0.11		ITNA	82SUZ	02
0.98	0.09		ITNA	80GER	01
0.99	0.11	9	ITNA	82SUZ	02
1.2		*34	WXRF	82MIL	01
Si (ppm)					
5200.	200.		TCGS	79FAI	01
5200.	200.	D*	TCGS	80GER	01
5200.	200.	D*	TCGS	80AND	01
5600.	700.		14NAA	80GER	01
Sm (ppb)					
	39000.	L*	ITNA	80TOU	01
	1000.	L*	WXRF	82MIL	01
250.	10.		TCGS	79FAI	01
250.	10.	D*	TCGS	80GER	01
250.	10.	D*	TCGS	80AND	01
270.	10.	5	ITNA	80TOU	01
300.	40.		ITNA	80GER	01
340.	30.		ITNA	82SUZ	02
Sn (ppm)					
	0.6	L*	WXRF	82MIL	01

TABLE AA (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Sr (ppm)					
118.	8.		ITNA	82SUZ	02
127.	24.	12	ITNA	82SUZ	02
129.	14.		ITNA	80GER	01
140.		34	WXRF	82MIL	01
Ta (ppb)					
	1000.	L*	WXRF	82MIL	01
44.	6.		ITNA	82SUZ	02
46.	9.		ITNA	80GER	01
Tb (ppb)					
	2000.	L*	WXRF	82MIL	01
35.	3.		ITNA	82SUZ	02
Te (ppb)					
	290.	L*	ITNA	82SUZ	02
600.		34	WXRF	82MIL	01
Th (ppb)					
	1000.	L*	WXRF	82MIL	01
580.	40.		ITNA	82SUZ	02
610.	70.	12	ITNA	82SUZ	02
640.	50.	5	ITNA	80TOU	01
640.	60.		ITNA	80GER	01
Th-228 (FC1)					
64.8	4.1	D*	NM	81CAS	01
64.8	4.1		NM	80CAS	01
Th-230 (FC1)					
76.5	7.9	D*	NM	81CAS	01
76.5	7.9		NM	80CAS	01
Th-232 (FC1)					
61.9	7.7	D*	NM	81CAS	01
61.9	7.7		NM	80CAS	01
Ti (ppm)					
190.	20.		TCGS	79FAI	01
190.	20.	D*	TCGS	80AND	01
190.	20.	D*	TCGS	80GER	01
200.		34	WXRF	82MIL	01
210.	20.		ITNA	80GER	01
210.	50.		ITNA	82SUZ	02
Tl (ppm)					
	1.	L*	WXRF	82MIL	01
Tm (ppm)					
	1.	L*	WXRF	82MIL	01

TABLE AA (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
U (ppb)					
	23000.	L*	ITNA	80TOU	01
	1000.	L*	WXRF	82MIL	01
200.	50.		ITNA	80GER	01
240.	30.		ITNA	82SUZ	02
320.	40.	5	ITNA	80TOU	01
U-234 (FC1)					
71.9	4.4		NM	80CAS	01
71.9	4.4	D*	NM	81CAS	01
U-235 (FC1)					
4.9	0.3		NM	80CAS	01
4.9	0.3	D*	NM	81CAS	01
U-238 (PC1)					
0.073	0.004		NM	80CAS	01
0.073	0.004	D*	NM	81CAS	01
V (ppm)					
4.		34	WXRF	82MIL	01
4.3	0.3		ITNA	82SUZ	02
4.5	0.05		ITNA	80GER	01
W (ppm)					
	1.	L*	WXRF	82MIL	01
0.173	0.051		ITNA	82SUZ	02
Y (ppm)					
1.9		34	WXRF	82MIL	01
Yb (ppb)					
	2000.	L*	WXRF	82MIL	01
140.	20.		ITNA	80GER	01
170.	60.	5	ITNA	80TOU	01
175.	12.		ITNA	82SUZ	02
Zn (ppm)					
5.6		34	WXRF	82MIL	01
6.6	1.4	12	ITNA	82SUZ	02
7.5	2.2		ITNA	80GER	01
7.8	1.2		ITNA	82SUZ	02
Zr (ppm)					
15.		34	WXRF	82MIL	01
15.7	4.3	12	ITNA	82SUZ	02
16.	3.		ITNA	80GER	01
19.4	3.3	*	ITNA	82SUZ	02

TABLE BB

NBS SRM 1641—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Hg (ppm)					
1.47	0.17		CVAA	82GLA	02

TABLE CC

NBS SRM 1642A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Hg (ppb)					
1.3			CVAA	82GLA	02

TABLE DD

NBS SRM 1643—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (ppb)					
50.		*	ITNA	81HAB	01
77.1	5.7		AE+AF	78EPS	01
82.1	1.4		FAA	78EPS	01
83.	2.		DCP	79REE	01
83.	2.	D*	DCP	81REE	01
As (ppb)					
71.			ICPES	82NYG	01
75.7	1.3		HAA	80YAN	01
78.		13	ASV	82LEU	01
79.		13	ASV	82LEU	01
Ba (ppb)					
17.3	1.8		AE+AF	79EPS	03
18.			FAA	78BEA	01
18.		14	FAA	79EPS	03
18.7	0.7		FAA	78EPS	01
19.7	1.		AE+AF	78EPS	01
21.5	1.2	*14	FAA	79EPS	03
Be (ppb)					
18.8	0.4		FAA	78EPS	01
21.3	5.5		AE+AF	78EPS	01
Ca (ppm)					
23.9			ITNA	81HAB	01
Cd (ppb)					
	15.	L*	XRF	80BER	02
Co (ppb)					
20.	2.		XRF	80BER	02
Cu (ppb)					
14.	0.3		FAA	78EPS	01
16.2	1.8		AE+AF	78EPS	01
17.	1.		XRF	80BER	02
Fe (ppb)					
76.	2.	D*	DCP	81REE	01
76.	2.		DCP	79REE	01
82.	3.		XRF	80BER	02
Hg (ppb)					
	8.	L*	XRF	80BER	02
Mg (ppm)					
5.7			ITNA	81HAB	01

TABLE DD (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Mn (ppb)					
20.		*	ITNA	81HAB	01
26.	3.		XRF	80BER	02
27.5	0.7		FAA	78EPS	01
28.	2.5		AE+AF	78EPS	01
29.	3.	D*	DCP	81REE	01
29.	3.		DCP	79REE	01
Mo (ppb)					
104.	3.		FAA	78EPS	01
110.	5.		AE+AF	78EPS	01
Na (ppm)					
8.8			ITNA	81HAB	01
Ni (ppb)					
48.	4.	D*	DCP	81REE	01
48.	4.		DCP	79REE	01
49.8	0.8		FAA	78EPS	01
50.	3.		XRF	80BER	02
51.3	4.2		AE+AF	78EPS	01
Pb (ppb)					
23.	2.		XRF	80BER	02
Se (ppb)					
10.			ICPES	82NYG	01
12.	1.		HAA	81COX	01
Sn (ppb)					
	20.	L*	XRF	80BER	02
V (ppb)					
40.			ITNA	81HAB	01
50.	2.	D*	DCP	81REE	01
50.	2.		DCP	79REE	01
Zn (ppb)					
61.	1.	D*	DCP	81REE	01
61.	1.		DCP	79REE	01
63.	3.		XRF	80BER	02

TABLE EE

NBS SRM 1643A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppb)					
2.7			FAA	82GLA	02
2.8	0.1		FAA	83GLA	01
Al (ppb)					
57.	6.		FAA	82JEN	02
As (ppb)					
70.	4.		FAA	83GLA	01
76.	7.		FAA	82GLA	02
Ba (ppb)					
45.	6.		FAA	83GLA	01
48.	3.		FAA	82GLA	02
Ca (ppm)					
26.9	0.8		AA	83GLA	01
30.	4.		FAA	82GLA	02
Cd (ppb)					
5.	1.		FAA	82JEN	02
11.	2.		FAA	83GLA	01
12.			FAA	82GLA	02
Cr (ppb)					
17.5	0.3		FAA	83GLA	01
20.			FAA	82GLA	02
Cu (ppb)					
10.	1.		FAA	82JEN	02
16.			FAA	82GLA	02
19.	1.		FAA	83GLA	01
Fe (ppb)					
23.	5.		FAA	82JEN	02
88.	7.		FAA	83GLA	01
100.			FAA	82GLA	02
K (ppm)					
1.5			FAA	82GLA	02
1.62	0.04		AA	83GLA	01
Mg (ppm)					
7.8	0.4		AA	83GLA	01
7.9	0.3		FAA	82GLA	02
Mn (ppb)					
10.	1.		FAA	82JEN	02
32.	3.		FAA	83GLA	01

TABLE EE (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Na (ppm)					
9.	0.2		FAA	82GLA	02
9.	0.2		AA	83GLA	01
Ni (ppb)					
57.			FAA	82GLA	02
NO3 (ppm)					
1.			ISE	83GLA	01
Pb (ppb)					
26.	2.		FAA	82GLA	02
28.	2.		FAA	83GLA	01
41.	5.		FAA	82JEN	02
Se (ppb)					
10.	1.		FAA	83GLA	01
Sr (ppb)					
236.			FAA	83GLA	01
Zn (ppb)					
57.	6.		FAA	82JEN	02
66.	2.		FAA	83GLA	01
76.			FAA	82GLA	02

TABLE FF

NBS SRM 1645—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (%)					
2.37	0.04	35	ITNA	81GLA	02
2.42	0.12		AA	81FAR	01
3.9		*	ICPES	80FLO	01
As (ppm)					
62.6	2.1		RTNA	82ELS	02
65.	1.		FAE	80DSI	01
66.	5.		IENA	82GLA	02
66.			HAA	80AGE	03
66.4			ICPES	81GOU	01
67.			ICPES	82NYG	01
68.			IENA	83GLA	01
70.			RTNA	81SL	01
71.			ICPES	80FLO	01
72.			ITNA	81SLO	01
87.		*	PAA	80BER	01
B (ppm)					
29.9	1.		TCGS	83GLA	03
Ba (ppm)					
178.	15.	*	PAA	80KAT	01
340.	50.	35	ITNA	81GLA	02
400.			ICPES	80FLO	01
Be (ppm)					
1.			ICPES	80FLO	01
Bi (ppm)					
	0.1	L*	FAA	82MAT	02
Ca (%)					
2.33		6	XRF	78TAK	01
2.73	0.15	35	ITNA	81GLA	02
2.9	0.13		AA	81FAR	01
2.93	0.01		PAA	80KAT	01
3.106		6	XRF	78TAK	01
4.2		*	ICPES	80FLO	01
Cd (ppm)					
8.9	0.4		RTNA	80VAL	01
9.1	0.3		IDMS	80ROS	01
9.2	0.5		FAA	81FAR	01
10.			ICPES	80FLO	01
10.2	0.4		RTNA	79DER	01
10.8	2.		ICPES	82SCH	04
11.			PAA	80BER	01
11.4	4.3		AE+AF	82GOL	01
Ce (ppm)					
20.	0.6		PAA	80KAT	01
28.			PAA	80BER	01

TABLE FF (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Co (ppm)					
8.	0.2	35	ITNA	81GLA	02
8.4	0.7		RTNA	77MEL	01
8.5	0.3		PAA	80KAT	01
9.96	0.12		RTNA	79DER	01
11.			ICPES	80FLO	01
24.		*	PAA	80BER	01
Cr (%)					
2.29	0.08	*	PAA	80KAT	01
2.5	0.4	*	RTNA	77MEL	01
2.91	0.24		ICPES	82SCH	04
2.97	0.125	11	RTNA	76STE	01
2.98			PAA	80BER	01
2.99	0.13	35	ITNA	81GLA	02
3.02			ICPES	80FLO	01
3.15	0.147	11	RTNA	76STE	01
3.16	0.152	11	RTNA	76STE	01
3.18	0.08		AA	81FAR	01
3.19	0.038	6	XRF	80IWA	02
3.25	0.152	11	RTNA	76STE	01
3.25	0.049	6	XRF	80IWA	02
3.27	0.155		ITNA	76STE	01
3.4	0.148	*11	RTNA	76STE	01
3.52		*6	XRF	78TAK	01
Cs (ppm)					
2.32	0.13	35	ITNA	81GLA	02
3.3	0.2		RTNA	77MEL	01
Cu (ppm)					
78.		*6	XRF	78TAK	01
96.	14.		ASV	81DOG	01
100.	20.		AA	77YAN	01
105.	14.		ICPES	82SCH	04
106.			PAA	80BER	01
108.		6	XRF	78TAK	01
111.	7.		FAA	81FAR	01
113.		6	XRF	78TAK	01
119.			ICPES	80FLO	01
123.	6.		RTNA	79DER	01
125.2	8.2		RTNA	80VAL	01
Eu (ppm)					
0.7			ICPES	80FLO	01
0.31	0.03	35	ITNA	81GLA	02
F (ppm)					
1740.	60.		ISE	83KNA	01
Fe (%)					
8.372		*6	XRF	78TAK	01
8.5	0.5	*	RTNA	77MEL	01
9.89		6	XRF	78TAK	01
10.4		6	XRF	78TAK	01

TABLE FF (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
10.5	0.3	35	ITNA	81GLA	02
10.51	0.18		PAA	80KAT	01
10.6	0.3		AA	81FAR	01
11.4	1.3		ICPES	82SCH	04
11.5			ICPES	80FLO	01
Ga (ppm)					
38.			ICPES	80FLO	01
Hf (ppm)					
1.39	0.07	35	ITNA	81GLA	02
Hg (ppm)					
0.85	0.036		CVAA	80NAD	01
1.1	0.1		RTNA	77MEL	01
1.11	0.26		CVAA	80WHI	01
1.3			PAA	80BER	01
1.3	0.2		RTNA	80VAL	01
K (%)					
0.893		6	XRF	78TAK	01
1.24		6	XRF	78TAK	01
La (ppm)					
15.			ICPES	80FLO	01
Mg (%)					
0.684	0.01		PAA	80KAT	01
0.75	0.02		AA	81FAR	01
4.1			ICPES	80FLO	01
Mn (ppm)					
746.	130.		AE+AF	82GOL	01
750.	18.		PAA	80KAT	01
750.			ICPES	80FLO	01
762.	9.	35	ITNA	81GLA	02
768.	85.		ICPES	82SCH	04
780.	90.		AA	81FAR	01
1460.		*6	XRF	78TAK	01
3321.		*6	XRF	78TAK	01
Mo (ppm)					
25.			PAA	80BER	01
Na (ppm)					
5450.	110.		PAA	80KAT	01
5600.	200.	35	ITNA	81GLA	02
Nb (ppm)					
1.4	0.07		PAA	80KAT	01

TABLE FF (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ni (ppm)					
28.		6	XRF	78TAK	01
30.		6	XRF	78TAK	01
33.		6	XRF	78TAK	01
37.6	6.4		AE+AF	82GOL	01
45.			ICPES	80FLO	01
46.1	2.5		ICPES	82SCH	04
46.6	4.6		PAA	78MAS	01
47.	3.		PAA	80KAT	01
48.			PAA	80BER	01
48.			PAA	78KAT	01
55.	3.		RTNA	77MEL	01
Pb (ppm)					
680.	20.		AA	77YAN	01
683.	29.		FAA	81FAR	01
695.	45.		ASV	81DOG	01
717.		6	XRF	78TAK	01
719.		6	XRF	78TAK	01
721.	20.		ICPES	82SCH	04
724.			PAA	80BER	01
725.			ICPES	80FLO	01
771.	231.	*	AE+AF	82GOL	01
1019.		*6	XRF	78TAK	01
Pr (ppm)					
14.			ICPES	80FLO	01
Rb (ppm)					
38.		6	XRF	78TAK	01
39.		6	XRF	78TAK	01
40.	2.		PAA	80KAT	01
41.4	0.5		RTNA	77MEL	01
50.	7.	*35	ITNA	81GLA	02
Sb (ppm)					
21.7			RTNA	81NIS	01
22.6			RTNA	81KIB	01
25.			HAA	81YAM	01
28.3	1.2		FAA	82MAT	02
31.	4.		ITNA	81HAM	01
33.2			RTNA	81SLO	01
33.6	2.2		RTNA	82ELS	02
36.			ITNA	81SLO	01
38.			ICPES	82NYG	01
40.	5.	35	ITNA	81GLA	02
52.		*	PAA	80BER	01
Sc (ppm)					
2.13	0.07	35	ITNA	81GLA	02
3.1	0.5		RTNA	77MEL	01
Se (ppm)					
0.85			RTNA	81SLO	01
1.			ICPES	81GOU	01

TABLE FF (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
1.3	0.2		RTNA	77MEL	01
1.5	0.1	35	RTNA	81GLA	01
5.		*	ICPES	80FLO	01
8.		*	ICPES	82NYG	01
Si (%)					
30.6	1.2		AA	81FAR	(
Sn (ppm)					
313.	9.		FAA	82MAT	02
Sr (ppm)					
851.	13.		PAA	80KAT	01
862.			PAA	80BER	01
870.		6	XRF	78TAK	01
1033.		6	XRF	78TAK	01
1200.		*	ICPES	80FLO	01
Ta (ppb)					
220.	20.	35	ITNA	81GLA	02
Th (ppm)					
1.8			PAA	80BER	01
Ti (ppm)					
	1000.	L*	ITNA	81GLA	02
258.		6	XRF	78TAK	01
490.		6	XRF	78TAK	01
642.	13.		PAA	80KAT	01
700.			AA	82MAT	04
825.			PAA	80BER	01
Tl (ppm)					
1.9			PAA	80BER	01
U (ppm)					
0.8	0.02		RTNA	78DER	01
1.16			DNA	83GLA	01
1.4			PAA	80BER	01
V (ppm)					
24.1	6.5		ICPES	82SCH	04
25.			ICPES	80FLO	01
29.	6.	35	ITNA	81GLA	02
Y (ppm)					
7.			ICPES	80FLO	01
7.4	0.3		PAA	80KAT	01
Yb (ppb)					
600.			ICPES	80FLO	01

TABLE FF (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Zn (ppm)					
1414.	84.		RTNA	77MEL	01
1480.		6	XRF	78TAK	01
1540.	67.		PAA	80KAT	01
1587.			ICPES	80FLO	01
1610.	40.		AA	77YAN	01
1640.	40.		AA	81FAR	01
1640.		6	XRF	78TAK	01
1713.	145.		ICPES	82SCH	04
1720.	361.		AE+AF	82GOL	01
1730.			PAA	80BER	01
1794.		6	XRF	78TAK	01
1806.	37.		RTNA	79DER	01
Zr (ppm)					
55.	3.		PAA	80KAT	01
71.			PAA	80BER	01

TABLE GG

NBS SRM 1646—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
B (ppm)					
83.	2.		TCGS	83GLA	03
Cs (ppm)					
3.6	0.4		ITNA	83GLA	01
Sb (ppm)					
0.85			ITNA	83GLA	01
Sc (ppm)					
10.4	0.2		ITNA	83GLA	01
U (ppm)					
3.			DNA	83GLA	01

TABLE HH

NBS SRM 1648—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppm)					
5.8	0.9		IENA	83GLA	02
6.	1.		XRF	77GIA	02
6.	1.	D*	XRF	79GIA	03
6.4	0.5		ITNA	79GRE	01
Al (%)					
3.05	0.03		AA	81FRA	01
3.1	0.1		ITNA	83GLA	02
3.12	0.2	35	ITNA	81GLA	03
3.3			ICPES	80FLO	01
3.3	0.45		AA	81FAR	01
3.5	0.1		ITNA	79GRE	01
As (ppm)					
112.			ICPES	80FLO	01
117.			ICPES	82NYG	01
117.	5.		ITNA	83GLA	02
117.	5.		ITNA	79GRE	01
119.		35	NAA	81GLA	03
119.	2.		IENA	83GLA	02
B (ppm)					
158.	8.		TCGS	83GLA	03
6000.	170.	*	UU	81FRA	01
Ba (ppm)					
740.	60.		ITNA	79GRE	01
757.	35.		XRF	77GIA	02
757.	35.	D*	XRF	79GIA	03
774.			ICPES	80FLO	01
800.	10.	5	ITNA	83GLA	02
840.	40.		IENA	83GLA	02
980.	100.	5*	ITNA	83GLA	02
Be (ppm)					
3.			ICPES	80FLO	01
Br (ppm)					
460.	15.	5	IENA	83GLA	02
500.	30.		ITNA	79GRE	01
504.	14.	5	IENA	83GLA	02
517.	14.		XRF	77GIA	02
517.	14.	D*	XRF	79GIA	03
526.	24.	35	ITNA	81GLA	03
526.	25.		ITNA	83GLA	02
C (%)					
14.7	0.3		CB	83GLA	02
15.27	0.15		UU	81FRA	01
Ca (%)					
5.4	0.3		IENA	83GLA	02
5.5	0.4		AA	82GLA	02

TABLE HH (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
5.6	0.4		AA	83GLA	02
5.8	0.5		ITNA	79GRE	01
6.1	0.04		EXRF	78PEL	01
6.18	0.23		AA	81FAR	01
6.3	0.3		ITNA	83GLA	02
Cd (ppm)					
64.	7.		AA	82GLA	02
69.	4.		FAA	81FAR	01
70.	2.		XRF	77GIA	02
70.	2.	D*	XRF	79GIA	03
70.	6.		ITNA	79GRE	01
73.			ICPES	80FLO	01
75.	7.		AA	83GLA	02
105.	9.	*	AA	81FRA	01
Ce (ppm)					
52.	5.		IENA	83GLA	02
53.	2.		ITNA	83GLA	02
54.	3.		ITNA	79GRE	01
61.			ICPES	80FLO	01
Cl (ppm)					
500.	60.	*35	ITNA	81GLA	03
4500.	200.		ITNA	79GRE	01
4890.	80.		ITNA	83GLA	02
Co (ppm)					
15.2	0.9		AA	81FRA	01
17.2	0.6		ITNA	83GLA	02
17.6	0.5		ITNA	79GRE	01
18.	1.		IENA	83GLA	02
28.			ICPES	80FLO	01
42.	7.	*35	ITNA	81GLA	03
Cr (ppm)					
173.	27.	*	FAA	81FAR	01
380.	40.		AA	83GLA	02
383.			AA	82GLA	02
398.			ICPES	80FLO	01
402.	10.		ITNA	79GRE	01
410.	50.	35	ITNA	81GLA	03
410.	8.		ITNA	83GLA	02
417.	16.		AA	81FRA	01
440.	10.		EXRF	78PEL	01
560.	11.	*	UU	81FRA	01
580.	50.	*	UU	81FRA	01
Cs (ppm)					
3.3	0.2		IENA	83GLA	02
3.4	0.2		ITNA	79GRE	01
3.73	0.29		ITNA	83GLA	02
Cu (ppm)					
570.	44.		UU	81FRA	01
581.	16.		XRF	77GIA	02

TABLE HH (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
586.	22.		FAA	81FAR	01
589.	12.		AA	81FRA	01
596.	24.		AA	82GLA	02
598.			ICPES	80FLO	01
600.	30.		AA	83GLA	02
610.	18.		UU	81FRA	01
640.	60.	*	EXRF	81KIN	01
700.	100.	*	EXRF	78PEL	01
Eu (ppm)					
0.77	0.03		ITNA	83GLA	02
0.79	0.08		ITNA	79GRE	01
1.			ICPES	80FLO	01
Fe (%)					
3.43	0.05		AA	81FRA	01
3.7			AA	82GLA	02
3.8	0.5	35	ITNA	81GLA	03
3.84	0.08		ITNA	79GRE	01
3.86	0.06		ITNA	83GLA	02
3.9	0.1		IENA	83GLA	02
3.96	0.037		EXRF	78PEL	01
4.	0.1		EXRF	81KIN	01
4.05	0.1		XRF	77GIA	02
4.05	0.1	D*	XRF	79GIA	03
4.1			ICPES	80FLO	01
4.2	0.4		AA	83GLA	02
4.5	0.23	*	AA	81FAR	01
5.45	0.32	*	UU	81FRA	01
5.65	0.14	*	UU	81FRA	01
Ga (ppm)					
8.3	0.4		IENA	83GLA	02
72.			ICPES	80FLO	01
H (%)					
2.23	0.04		CB	83GLA	02
Hf (ppm)					
4.2	0.3		ITNA	79CRE	01
4.47	0.07		ITNA	83GLA	02
5.2	0.4		IENA	83GLA	02
I (ppm)					
16.	2.		XRF	77GIA	02
16.	2.	D*	XRF	79GIA	03
20.	5.		ITNA	79GRE	01
In (ppb)					
980.	70.		ITNA	79GRE	01
K (%)					
0.96	0.12		ITNA	83GLA	02
0.99	0.11		ITNA	79GRE	01

TABLE HH (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
1.04	0.02		EXRF	78PEL	01
1.07	0.02		IENA	83GLA	02
1.11	0.08	35	ITNA	81GLA	03
La (ppm)					
35.			ICPES	80FLO	01
38.	3.	35	ITNA	81GLA	03
40.	2.		ITNA	83GLA	02
42.	2.		ITNA	79GRE	01
42.	5.		IENA	83GLA	02
Lu (ppb)					
34.	3.		ITNA	83GLA	02
Mg (ppm)					
7200.	600.		AA	82GLA	02
7500.	400.		AA	83GLA	02
7600.	400.		AA	81FAR	01
8000.	130.		AA	81FRA	01
8300.	800.		ITNA	79GRE	01
9000.		*	ICPES	80FLO	01
Mn (ppm)					
740.	30.		IENA	83GLA	02
747.	10.		ITNA	83GLA	02
790.	20.		ITNA	79GRE	01
790.	80.		AA	83GLA	02
805.	4.		AA	81FRA	01
810.	40.	35	ITNA	81GLA	03
810.	60.		AA	81FAR	01
840.	85.		UU	81FRA	01
851.			ICPES	80FLO	01
860.	20.		EXRF	81KIN	01
870.	30.		EXRF	78PEL	01
880.	80.		AA	82GLA	02
880.	19.		UU	81FRA	01
961.	34.	*	XRF	77GIA	02
961.	34.	D*	XRF	79GIA	03
Mo (ppm)					
17.	2.		XRF	77GIA	02
21.	2.		IENA	83GLA	02
N (%)					
3.25	0.04		CB	83GLA	02
Na (ppm)					
4000.	200.		ITNA	79GRE	01
4220.	120.	5	ITNA	83GLA	02
4600.	200.	5	ITNA	83GLA	02
5500.	1500.	35	ITNA	81GLA	03
Nb (ppm)					
22.	3.		XRF	77GIA	02

TABLE HH (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ni (ppm)					
72.	15.		AA	82GLA	02
75.	4.		IENA	83GLA	02
83.	4.		EXRF	78PEL	01
85.			ICPES	80FLO	01
99.	13.		XRF	77GIA	02
100.	7.		UU	81FRA	01
105.	21.		AA	81FRA	01
Pb (ppm)					
6100.	200.		AA	82GLA	02
6200.	810.		UU	81FRA	01
6210.	85.		FAA	81FAR	01
6300.	300.		AA	83GLA	02
6300.	100.		XRF	77GIA	02
6400.	45.		AA	81FRA	01
6780.	60.		EXRF	78PEL	01
6900.	200.		EXRF	81KIN	01
7000.			ICPES	80FLO	01
Pr (ppm)					
8.			ICPES	80FLO	01
Rb (ppm)					
52.	9.		ITNA	79GRE	01
53.	5.		ITNA	83GLA	02
55.	6.	35	ITNA	81GLA	03
58.	2.		IENA	83GLA	02
S (%)					
5.21	0.06		UU	81FRA	01
Sb (ppm)					
41.			ICPES	82NYG	01
44.	3.		XRF	77GIA	02
44.	6.		ITNA	83GLA	01
44.	3.	D*	XRF	79GIA	03
45.	3.		ITNA	79GRE	01
47.	2.		ITNA	83GLA	02
Sc (ppm)					
6.6	0.2		ITNA	79GRE	01
6.6	0.6		ITNA	83GLA	01
6.8		35	ITNA	81GLA	03
6.8	0.3		ITNA	83GLA	02
Se (ppm)					
4.		*	ICPES	80FLO	01
23.1	0.2	35	RTNA	81GLA	01
25.	4.		XRF	77GIA	02
25.	4.	D*	XRF	79GIA	03
26.			ICPES	82NYG	01
27.	2.		ITNA	79GRE	01

TABLE HH (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Si (%)					
11.5	2.		AA	82GLA	02
12.63	0.47		AA	81FRA	01
13.	1.1		IENA	83GLA	02
13.	2.		AA	83GLA	02
14.7	0.3		EXRF	78PEL	01
16.2	1.		AA	81FAR	01
Sm (ppm)					
4.	0.4		ITNA	79GRE	01
4.2	0.4	35	ITNA	81GLA	03
4.4	0.3		ITNA	83GLA	02
Sn (ppm)					
147.	4.		XRF	77GIA	02
Sr (ppm)					
190.	10.		EXRF	78PEL	01
211.	6.		XRF	77GIA	02
220.	10.		IENA	83GLA	02
450.		*	ICPES	80FLO	01
Ta (ppm)					
6.76	0.17		ITNA	83GLA	02
7.2	0.4		IENA	83GLA	02
Th (ppm)					
7.4	0.3		ITNA	79GRE	01
7.5	0.5		ITNA	83GLA	02
7.8	0.4		IENA	83GLA	02
Ti (ppm)					
3800.	200.		EXRF	81KIN	01
3900.	800.		AA	81FRA	01
4000.			ICPES	80FLO	01
4000.	200.		ITNA	79GRE	01
4000.	200.		ITNA	83GLA	02
4100.	400.		AA	82GLA	02
4100.	300.		AA	83GLA	02
4260.	30.		EXRF	78PEL	01
4500.	400.	*	IENA	83GLA	02
9700.		*35	NAA	81GLA	03
U (ppm)					
5.42	0.2		DNA	83GLA	02
5.6	0.05		IENA	83GLA	02
5.9			DNA	83GLA	01
V (ppm)					
106.			ICPES	80FLO	01
116.	19.	35	ITNA	81GLA	03
116.	4.		ITNA	83GLA	02

TABLE HH (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
123.	12.		IENA	83GLA	02
130.	7.		ITNA	79GRE	01
W (ppm)					
3.5		35	RENA	81GLA	03
4.4	2.8		IENA	83GLA	02
4.8	0.6		ITNA	79GRE	01
Y (ppm)					
5.			ICPES	80FLO	01
Yb (ppm)					
2.			ICPES	80FLO	01
Zn (ppm)					
4300.	550.	*	UU	81FRA	01
4400.	60.		UU	81FRA	01
4580.	160.		AA	81FAR	01
4650.	150.		EXRF	78PEL	01
4700.	200.		ITNA	79GRE	01
4700.			ICPES	80FLO	01
4740.	130.		IENA	83GLA	02
4740.	30.		AA	80EPS	01
4750.	50.		ITNA	83GLA	02
4800.			AA	82GLA	02
4800.	100.		EXRF	81KIN	01
4800.	300.		AA	83GLA	02
4800.	60.		AA	81FRA	01
4850.	240.	35	ITNA	81GLA	03
4890.	130.		XRF	77GIA	02
4890.	130.	D*	XRF	79GIA	03
Zr (ppm)					
169.	8.		XRF	77GIA	02

TABLE II

NBS SRM 1A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (%)					
2.1			OES	62JOE	01
2.23			OES	78KNO	01
2.27			DCP	73KAR	01
2.29			TITR	58WAT	01
2.36			RR	73KAR	01
B (ppm)					
80.		3	OES	63CLA	01
100.		3	OES	63CLA	01
Ba (ppm)					
	800.	L*	OES	63CLA	01
C (%)					
9.73			CB	78TER	01
Ca (%)					
28.6			OES	62JOE	01
29.5			RR	73KAR	01
29.6			XRF	78KNO	01
29.7			DCP	73KAR	01
Co (ppm)					
	10.	L*	OES	63CLA	01
3.9	1.4		RTNA	61TUR	01
Cr (ppm)					
23.			RTNA	61TUR	01
30.			OES	63CLA	01
Cu (ppm)					
3.			OES	63CLA	01
Fe (%)					
0.855			OES	62JOE	01
1.08			OES	78KNO	01
1.08			DCP	73KAR	01
1.1			COLOR	59COL	01
1.13			RR	73KAR	01
1.15			TITR	69WIC	01
Ga (ppm)					
4.			OES	63CLA	01
Hg (ppb)					
44.			FAA	75HEI	01
71.4	2.16		FAA	82FLA	01

TABLE II (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
K (ppm)					
6900.			RR	73KAR	01
La (ppm)					
100.			OES	63CLA	01
Mg (%)					
1.29			OES	78KNO	01
1.3			OES	62JOE	01
1.37			RR	73KAR	01
1.39			DCP	73KAR	01
Mn (ppm)					
320.			OES	78KNO	01
500.		3	OES	63CLA	01
500.		3	OES	63CLA	01
Mo (ppm)					
	1.	L*	OES	63CLA	01
Na (ppm)					
2300.			RR	73KAR	01
2700.			DCP	73KAR	01
Ni (ppm)					
10.			OES	63CLA	01
P (ppm)					
650.			WXRF	71FAB	01
1500.			OES	78KNO	01
Pb (ppm)					
17.2			FAA	75CAM	02
20.			OES	63CLA	01
21.			FAA	79HEI	03
S (ppm)					
2700.			CB	55COL	01
2800.			OES	78KNO	01
2800.			CB	74RUN	01
2800.			UU	72BOU	01
3000.			TURB	73SHA	01
3020.	90.		CB	77LAN	01
3073.			CB	78TER	01
Sc (ppm)					
15.			OES	63CLA	01

TABLE II (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Si (%)					
6.53			XRF	78KNO	01
6.54			OES	62JOE	01
6.58			RR	73KAR	01
6.63			COLOR	74SHA	01
6.72			DCP	73KAR	01
Sn (ppm)					
1.68			AA	82TER	01
Sr (ppm)					
1700.			OES	75THO	01
1940.			OES	58CRA	01
2000.		3	OES	63CLA	01
2000.			RTNA	61TUR	01
3000.		*3	OES	63CLA	01
Ti (ppm)					
900.			RR	73KAR	01
900.			DCP	73KAR	01
960.	61.		RTNA	65WAH	01
1000.			OES	78KNO	01
1500.		3	OES	63CLA	01
2500.		*3	OES	63CLA	01
V (ppm)					
30.			OES	63CLA	01
W (ppm)					
10.			OES	63CLA	01
Zn (ppm)					
17.			XRF	65BAL	01
23.3			RTNA	65BAL	01
Zr (ppm)					
60.			OES	63CLA	01

TABLE JJ

NBS SRM 1B—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppm)					
	5.	L*	ICPES	81CHU	01
Al (ppm)					
5660.	200.		ICPES	81CHU	01
5800.			OES	73BES	01
As (ppm)					
	5.	L*	ICPES	81CHU	01
Au (ppm)					
	3.	L*	ICPES	81CHU	01
Ba (ppm)					
86.	1.7		ICPES	81CHU	01
Be (ppb)					
420.	50.		ICPES	81CHU	01
Bi (ppm)					
	25.	L*	ICPES	81CHU	01
Ca (%)					
35.93	1.19		ICPES	81CHU	01
36.8			OES	73BES	01
Cd (ppb)					
	2000.	L*	ICPES	81CHU	01
52.			IDMS	74ROS	02
Ce (ppm)					
	15.	L*	ICPES	81CHU	01
Co (ppm)					
4.1	1.		ICPES	81CHU	01
Cr (ppm)					
15.7	1.		ICPES	81CHU	01
Cu (ppm)					
5.5	1.		ICPES	81CHU	01
Eu (ppm)					
1.7	1.2		ICPES	81CHU	01
Fe (ppm)					
5000.			OES	73BES	01
5460.	140.		ICPES	81CHU	01

TABLE JJ (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Gd (ppm)					
	5.	L*	ICPES	81CHU	01
Hg (ppb)					
15.7	0.9		FAA	82FLA	01
K (ppm)					
2000.	50.		ICPES	81CHU	01
La (ppm)					
	5.	L*	ICPES	81CHU	01
Li (ppm)					
	2.	L*	ICPES	81CHU	01
Mg (ppm)					
2040.	60.		ICPES	81CHU	01
2400.			OES	73BES	01
Mn (ppm)					
1430.			OES	73BES	01
1510.	45.		ICPES	81CHU	01
Mo (ppm)					
	3.	L*	ICPES	81CHU	01
Na (ppm)					
260.	15.		ICPES	81CHU	01
Nd (ppm)					
	20.	L*	ICPES	81CHU	01
Ni (ppm)					
11.	1.		ICPES	81CHU	01
P (ppm)					
370.	9.		ICPES	81CHU	01
Pb (ppm)					
2.	0.4		FAA	75CAM	02
17.	2.		ICPES	81CHU	01
S (ppm)					
100.			CB	77LAN	01
Sb (ppm)					
	10.	L*	ICPES	81CHU	01

TABLE JJ (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Se (ppm)					
	30.	L*	ICPES	81CHU	01
Si (%)					
2.28	0.05		COLOR	81FON	01
2.32			OES	73BES	01
Sm (ppm)					
	5.	L*	ICPES	81CHU	01
Sn (ppm)					
	3.	L*	ICPES	81CHU	01
Sr (ppm)					
1200.			OES	75THO	01
1208.	24.		ICPES	81CHU	01
Th (ppm)					
	25.	L*	ICPES	81CHU	01
Ti (ppm)					
292.	6.		ICPES	81CHU	01
300.			OES	73BES	01
U (ppm)					
	30.	L*	ICPES	81CHU	01
V (ppm)					
30.1	1.4		ICPES	81CHU	01
Yb (ppm)					
2.1	0.1		ICPES	81CHU	01
Zn (ppm)					
40.7	2.		ICPES	81CHU	01
Zr (ppm)					
16.	1.		ICPES	81CHU	01

TABLE KK

NBS SRM 278—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (%)					
7.43	0.57		ITNA	82GRA	01
7.8	0.2		TCGS	82GRA	01
As (ppm)					
4.68	0.13		ITNA	81AHM	01
5.06	1.29		ITNA	82GRA	01
5.1	0.88		ITNA	82VOG	01
Au (ppb)					
1.6	0.8		ITNA	82GRA	01
2.64	0.52		ITNA	82VOG	01
B (ppm)					
24.9	0.5		TCGS	82VOG	01
25.2	0.4		TCGS	82GRA	01
25.3	1.		TCGS	83GLA	03
Ba (ppm)					
885.	54.		ITNA	81AHM	01
1060.	40.		ITNA	82VOG	01
1080.	58.		ITNA	82GRA	01
Br (ppm)					
2.61	0.62		ITNA	82GRA	01
2.65	0.2		ITNA	81AHM	01
2.99	1.01		ITNA	82VOG	01
Ca (ppm)					
6000.	1000.		TCGS	82GRA	01
7300.	300.		TCGS	82VOG	01
7500.	1200.		ITNA	82GRA	01
Ce (ppm)					
56.5	1.9		ITNA	81AHM	01
56.5	2.9		ITNA	80AHM	01
59.4	6.8		ITNA	82GRA	01
66.5	9.3		ITNA	82VOG	01
Cl (ppm)					
640.	90.		TCGS	82GRA	01
Co (ppm)					
1.85	0.18		ITNA	82GRA	01
1.89	0.31		ITNA	82VOG	01
2.04	0.22		ITNA	81AHM	01
Cr (ppm)					
6.34	0.93		ITNA	82GRA	01
6.42	0.28		ITNA	82VOG	01
6.79	0.44		ITNA	81AHM	01

TABLE KK (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Cs (ppm)					
4.92	0.34		ITNA	82GRA	01
5.12	0.44		ITNA	81AHM	01
5.3	0.25		ITNA	82VOG	01
5.3	0.7		ITNA	83GLA	01
Eu (ppb)					
764.	56.		ITNA	82GRA	01
796.	9.		ITNA	82VOG	01
820.	30.		ITNA	81AHM	01
820.	30.		ITNA	80AHM	01
Fe (%)					
1.14	0.23	*	ITNA	81AHM	01
1.32	0.17		TCGS	82GRA	01
1.52	0.05		ITNA	82GRA	01
1.54	0.01		ITNA	82VOG	01
1.55	0.06		TCGS	82VOG	01
Ga (ppm)					
10.	3.		ITNA	82GRA	01
12.47	2.53		ITNA	82VOG	01
Gd (ppm)					
4.5			ITNA	82GRA	01
5.28	0.06		TCGS	82VOG	01
5.34	0.08		TCGS	82GRA	01
37.74	1.5	*	ITNA	81AHM	01
37.74	1.5	*	ITNA	80AHM	01
H (%)					
0.089	0.012		TCGS	82VOG	01
Hf (ppm)					
6.41	0.24		ITNA	81AHM	01
8.82	0.73		ITNA	82GRA	01
8.86	0.73		ITNA	82VOG	01
In (ppb)					
43.6	2.7		ITNA	81AHM	01
K (%)					
3.42	0.34		ITNA	82GRA	01
3.44	0.08		TCGS	82GRA	01
3.58	0.7		TCGS	82VOG	01
4.23	0.13	*	ITNA	81AHM	01
La (ppm)					
27.59	0.38		ITNA	81AHM	01
27.6	0.4		ITNA	80AHM	01
35.4	2.5		ITNA	82GRA	01
35.8	1.5		ITNA	82VOG	01

TABLE KK (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Lu (ppb)					
740.	50.		ITNA	80AHM	01
745.	310.		ITNA	81AHM	01
820.	39.		ITNA	82VOG	01
836.	50.		ITNA	82GRA	01
Mn (ppm)					
367.	15.		ITNA	82VOG	01
400.	50.		ITNA	82GRA	01
409.	15.		ITNA	81AHM	01
430.	70.		TCGS	82GRA	01
Mo (ppm)					
3.73	0.52		ITNA	82VOG	01
3.73	0.52		ITNA	82GRA	01
Na (%)					
2.6	0.2		TCGS	82GRA	01
3.3	0.4		ITNA	82VOG	01
3.46	0.26		ITNA	82GRA	01
3.9	0.23		ITNA	81AHM	01
Nd (ppm)					
28.2	1.		ITNA	82GRA	01
Rb (ppm)					
130.	12.		ITNA	82GRA	01
138.	10.		ITNA	82VOG	01
143.17	2.63		ITNA	81AHM	01
Sb (ppm)					
1.59	0.05		ITNA	82VOG	01
1.61	0.13		ITNA	82GRA	01
1.7	0.4		ITNA	81AHM	01
1.9			ITNA	83GLA	01
Sc (ppm)					
4.16	0.21		ITNA	81AHM	01
5.	0.1		ITNA	83GLA	01
5.24	0.14		ITNA	82GRA	01
5.31	0.05		ITNA	82VOG	01
Si (%)					
33.2	0.7		TCGS	82VOG	01
36.6	1.3		TCGS	82GRA	01
Sm (ppm)					
5.61	0.05		TCGS	82VOG	01
5.66	0.1		TCGS	82GRA	01
5.69	0.62		ITNA	82GRA	01
5.7	0.7		ITNA	82VOG	01

TABLE KK (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ta (ppm)					
1.23	0.19		ITNA	82GRA	01
1.23	0.16		ITNA	82VOG	01
1.32	0.18		ITNA	81AHM	01
Tb (ppm)					
1.12	0.22		ITNA	82VOG	01
1.14	0.1		ITNA	82GRA	01
1.23	0.03		ITNA	81AHM	01
1.23	0.08		ITNA	80AHM	01
Th (ppm)					
12.27	0.77		ITNA	81AHM	01
12.27	0.77		ITNA	80CHA	02
12.8	0.3		ITNA	82GRA	01
13.1	0.2		ITNA	82VOG	01
Ti (ppm)					
1450.	90.		TCGS	82GRA	01
1500.	40.		TCGS	82VOG	01
Tm (ppm)					
0.301	0.02		ITNA	81AHM	01
U (ppm)					
4.204	0.284		ITNA	81AHM	01
4.58			DNA	83GLA	01
4.82	0.35		ITNA	82GRA	01
4.96	0.33		ITNA	82VOG	01
Yb (ppm)					
3.58	0.25		ITNA	81AHM	01
3.58	0.25		ITNA	80AHM	01
4.54	0.86		ITNA	82GRA	01
5.09	0.95		ITNA	82VOG	01
Zn (ppm)					
54.	2.5		ITNA	82GRA	01
57.4	3.6		ITNA	82VOG	01
Zr (ppm)					
285.	16.		ITNA	82GRA	01
311.	50.		ITNA	82VOG	01

TABLE LL

NBS SRM 4350—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Cs-137 (PCi					
2.5	0.35		GAMMA	83GLA	01
I (ppb)					
5400.	5000.		RTNA	79BRA	01
I-129 (FCi)					
Pu-239 (PCi)					
0.033	0.001		AS	81CAR	01

TABLE MM

NBS SRM 4350B—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Am-241 (PCi)					
0.005			AS	83GLA	01
Co-6 (PCi)					
0.13	0.01		GAMMA	82JEN	03
Cs-137 (PCi)					
0.85	0.08		GAMMA	83GLA	01
Pu-238 (FCi)					
0.2	0.8		AS	83GLA	01
Pu-239 (FCi)					
11.6	2.5		AS	83GLA	01
Th-230 (PCi)					
0.8			AS	83GLA	01

TABLE NN

NBS SRM 4353—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Am-241 (PCi)					
0.042	0.008		AS	83GLA	01
Co-137 (PCi)					
0.52	0.06		GAMMA	83GLA	01
Pu-238 (FCi)					
3.5	1.9		AS	83GLA	01
Pu-239 (PCi)					
0.202	0.039		AS	83GLA	01
Th-230 (PCi)					
1.2			AS	83GLA	01

TABLE OO

NBS SRM 610—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppm)					
180.	80.		ITNA	73SHE	01
As (ppm)					
305.	20.		SSMS	74BER	01
Au (ppm)					
20.	2.		ITNA	73SHE	01
B (ppm)					
368.	12.		ICPES	82OWE	01
Ba (ppm)					
638.	24.		SSMS	74BER	01
Be (ppm)					
450.	50.		CPAA	82LAS	01
Bi (ppm)					
405.	18.		SSMS	74BER	01
Ca (%)					
7.64	0.002		SSMS	74BER	01
Cd (ppm)					
187.	21.		SSMS	74BER	01
Ce (ppm)					
318.	14.		SSMS	74BER	01
Co (ppm)					
135.	14.		ITNA	73SHE	01
375.	12.		SSMS	74BER	01
Cr (ppm)					
371.	15.		SSMS	74BER	01
Ga (ppm)					
481.	10.		SSMS	74BER	01
Ge (ppm)					
496.	10.		SSMS	74BER	01
Hf (ppm)					
220.	14.		SSMS	74BER	01

TABLE OO (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
In (ppm)					
319.	11.		SSMS	74BER	01
Li (ppm)					
354.	27.		CPAA	82LAS	01
Mg (ppm)					
472.	22.		SSMS	74BER	01
Mn (ppm)					
391.	7.		SSMS	74BER	01
Mo (ppm)					
307.	19.		SSMS	74BER	01
Ni (ppm)					
431.	10.		SSMS	74BER	01
Pb (ppm)					
392.	11.		SSMS	74BER	01
Sb (ppm)					
387.	18.		SSMS	74BER	01
Ta (ppm)					
206.	9.		SSMS	74BER	01
Te (ppm)					
259.	21.		SSMS	74BER	01
Th (ppm)					
469.	7.		SSMS	74BER	01
Ti (ppm)					
361.	18.		SSMS	74BER	01
Tl (ppm)					
52.	35.		SSMS	74BER	01
U (ppm)					
413.	18.		SSMS	74BER	01
430.			DNA	83GLA	01
470.	90.	17	DNA	82CON	01
471.	28.	17	DNA	82CON	01
U-235 (a%)					
0.251	0.009		RTNA	83GLA	01

TABLE OO (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
V (ppm)					
206.	10.		SSMS	74BER	01

TABLE PP

NBS SRM 612—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppm)					
31.	7.		ITNA	73SHE	01
Au (ppm)					
5.	1.		ITNA	73SHE	01
B (ppm)					
40.	4.		ICPES	82OWE	01
Be (ppm)					
31.	7.		CPAA	82LAS	01
Ce (ppm)					
37.	2.		ITNA	73SHE	01
Co (ppm)					
31.	1.		ITNA	73SHE	01
Eu (ppm)					
26.	1.		ITNA	73SHE	01
La (ppm)					
35.	15.		ITNA	73SHE	01
Li (ppm)					
44.	8.		CPAA	82LAS	01
Pb (ppm)					
38.56	0.11		IDMS	77GUL	01
Th (ppm)					
31.	1.		ITNA	73SHE	01
U (ppm)					
35.74			NT	80VIR	01
36.3	7.2	17	DNA	82CON	01
37.66	0.08		IDMS	77GUL	01
39.	4.9	17	DNA	82CON	01
40.			DNA	83GLA	01
U-235 (a%)					
0.229	0.011		RTNA	83GLA	01

TABLE QQ

NBS SRM 614—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppm)					
0.471	0.06		FAA	82JEN	02
0.57	0.07		ITNA	73SHE	01
Au (ppm)					
0.28	0.14		FAA	82JEN	02
1.	0.8		ITNA	73SHE	01
Co (ppm)					
0.59	0.1		ITNA	73SHE	01
Cu (ppm)					
1.61	0.32		FAA	82JEN	02
Eu (ppm)					
1.1	0.6		ITNA	73SHE	01
La (ppm)					
	2.		ITNA	73SHE	01
Sb (ppm)					
1.1	0.1		ITNA	73SHE	01
Sc (ppm)					
0.68	0.23		ITNA	73SHE	01
Th (ppm)					
0.58	0.15		ITNA	73SHE	01
Tl (ppm)					
0.29	0.05		RTNA	82COH	01
U (ppm)					
0.74			NT	80VIR	01

TABLE RR

NBS SRM 616—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Sb (ppb)					
12.	20.		ITNA	73SHE	01
Sc (ppb)					
20.	4.		ITNA	73SHE	01
Th (ppb)					
18.	2.		ITNA	73SHE	01

TABLE SS

NBS SRM 688—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (%)					
8.54	0.39		ITNA	82GRA	01
9.3	0.2		TCGS	82GRA	01
As (ppm)					
2.68	0.54		ITNA	82GRA	01
Au (ppb)					
0.9	0.4		ITNA	82GRA	01
B (ppm)					
0.88	0.14		TCGS	82GRA	01
1.3	0.2		TCGS	83GLA	03
Ba (ppm)					
197.	33.		ITNA	82GRA	01
210.	30.		ITNA	83GLA	01
Ca (%)					
7.9	0.2		TCGS	82GRA	01
8.2	0.6		ITNA	82GRA	01
Ce (ppm)					
10.1	3.9		ITNA	82GRA	01
Co (ppm)					
47.5	1.5		ITNA	82GRA	01
55.6	1.2		ITNA	83GLA	01
Cr (ppm)					
328.	15.		ITNA	82GRA	01
330.	10.		ITNA	83GLA	01
Cs (ppb)					
210.	110.		ITNA	83GLA	01
Eu (ppm)					
0.919	0.048		ITNA	82GRA	01
1.01	0.05		ITNA	83GLA	01
Fe (%)					
7.1	0.06		ITNA	83GLA	01
7.23	0.19		ITNA	82GRA	01
7.23	0.17		TCGS	82GRA	01
Ga (ppm)					
57.	10.		ITNA	82GRA	01

TABLE SS (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Gd (ppm)					
2.5			ITNA	82GRA	01
2.82	0.08		TCGS	82GRA	01
Hf (ppm)					
1.46	0.13		ITNA	83GLA	01
1.58	0.14		ITNA	82GRA	01
K (ppm)					
1700.	100.		TCGS	82GRA	01
La (ppm)					
5.9	0.2		ITNA	83GLA	01
7.54	0.93		ITNA	82GRA	01
Lu (ppb)					
342.	57.		ITNA	82GRA	01
Mg (%)					
3.9	0.8		ITNA	82GRA	01
5.7	0.4		TCGS	82GRA	01
Mn (ppm)					
1120.	60.		TCGS	82GRA	01
1180.	70.		ITNA	82GRA	01
1290.	60.		ITNA	83GLA	01
Na (%)					
1.05	0.07		TCGS	82GRA	01
1.39	0.12		ITNA	82GRA	01
1.61	0.01		ITNA	83GLA	01
Nd (ppm)					
9.95	1.08		ITNA	82GRA	01
Ni (ppm)					
123.	29.		ITNA	82GRA	01
Sb (ppb)					
420.			ITNA	83GLA	01
466.	207.		ITNA	82GRA	01
Sc (ppm)					
36.1	0.9		ITNA	82GRA	01
36.3	0.5		ITNA	83GLA	01
Si (%)					
24.6	0.6		TCGS	82GRA	01

TABLE SS (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Sm (ppm)					
2.09	0.22		ITNA	82GRA	01
2.31	0.08		TCGS	82GRA	01
2.54	0.07		ITNA	83GLA	01
Sr (ppm)					
179.	14.		IENA	83GLA	01
Ta (ppb)					
246.	58.		ITNA	82GRA	01
380.	70.		ITNA	83GLA	01
Tb (ppb)					
462.	25.		ITNA	82GRA	01
520.	60.		ITNA	83GLA	01
Th (ppb)					
460.	130.		ITNA	83GLA	01
Ti (ppm)					
7000.	700.		ITNA	82GRA	01
7200.	200.		TCGS	82GRA	01
U (ppb)					
280.			DNA	83GLA	01
340.	80.		ITNA	82GRA	01
V (ppm)					
235.	25.		ITNA	82GRA	01
Yb (ppm)					
1.86	0.27		ITNA	82GRA	01
Zr (ppm)					
58.6	8.7		ITNA	82GRA	01

TABLE TT

NBS SRM 70—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ba (ppm)					
380.	17.		ITNA	77FLA	01
Ce (ppm)					
	4.	L*	ITNA	77FLA	01
Co (ppb)					
100.			ITNA	77FLA	01
Cr (ppm)					
	2.	L*	ITNA	77FLA	01
Cs (ppm)					
6.6	0.19		ITNA	77FLA	01
Eu (ppb)					
400.	10.		ITNA	77FLA	01
Fe (ppm)					
300.			ITNA	77FLA	01
Hf (ppb)					
	200.	L*	ITNA	77FLA	01
Hg (ppb)					
98.	5.95		FAA	82FLA	01
La (ppm)					
	3.	L*	ITNA	77FLA	01
Lu (ppb)					
	40.	L*	ITNA	77FLA	01
Nd (ppm)					
	3.	L*	ITNA	77FLA	01
Rb (ppm)					
470.	26.		ITNA	77FLA	01
Sb (ppb)					
	500.	L*	ITNA	77FLA	01
Sc (ppb)					
40.	3.		ITNA	77FLA	01

TABLE TT (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Sm (ppb)					
	500.	L*	ITNA	77FLA	01
Ta (ppb)					
	200.	L*	ITNA	77FLA	01
Tb (ppb)					
	200.	L*	ITNA	77FLA	01
Th (ppb)					
	400.	L*	ITNA	77FLA	01
Yb (ppb)					
	300.	L*	ITNA	77FLA	01
Zn (ppm)					
6.	0.71		ITNA	77FLA	01
7.3			RTNA	65BAL	01
7.5			XRF	65BAL	01
Zr (ppm)					
	75.	L*	ITNA	77FLA	01

TABLE UU

NBS SRM 70A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ba (ppm)					
120.	5.		ITNA	77FLA	01
121.9			IDMS	69LAE	01
C (ppm)					
50.			CB	78TER	01
Ca (ppm)					
640.			AA	73RAM	01
Cd (ppb)					
8.7			IDMS	74ROS	02
Ce (ppm)					
	4.	L*	ITNA	77FLA	01
Co (ppb)					
200.			ITNA	77FLA	01
Cr (ppm)					
	4.	L*	ITNA	77FLA	01
Cs (ppm)					
9.28	0.15		ITNA	77FLA	01
10.			AA	72ALL	01
Eu (ppb)					
570.	10.		ITNA	77FLA	01
Fe (ppm)					
490.			AA	73RAM	01
600.			ITNA	77FLA	01
Hf (ppb)					
	300.	L*	ITNA	77FLA	01
Hg (ppb)					
15.	1.03		FAA	82FLA	01
K (%)					
9.71			ISE	75PUF	01
9.71			FE	75PUF	01
9.79			AA	73RAM	01
La (ppm)					
	2.	L*	ITNA	77FLA	01

TABLE UU (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Lu (ppb)					
	100.	L*	ITNA	77FLA	01
8.			IDMS	76MCC	03
Na (%)					
1.8			ISE	75PUF	01
1.87			AA	73RAM	01
1.9			FE	75PUF	01
Nd (ppm)					
	3.	L*	ITNA	77FLA	01
Rb (ppm)					
519.1			IDMS	82KRA	01
523.4			IDMS	70LAE	01
524.2	1.5		IDMS	74COR	01
529.8	1.6		IDMS	69COM	01
529.9	1.		XRF	69COM	01
530.	15.		ITNA	77FLA	01
540.			AA	72ALL	01
S (ppm)					
3.			CB	78TER	01
Sb (ppb)					
	400.	L*	ITNA	77FLA	01
Sc (ppb)					
110.	3.		ITNA	77FLA	01
Se (ppm)					
66.1	0.2		XRF	69COM	01
Sm (ppb)					
	200.	L*	ITNA	77FLA	01
Sn (ppm)					
0.75			AA	82TER	01
Sr (ppm)					
64.	0.4		IDMS	74COR	01
65.1	0.1		IDMS	69COM	01
65.5			IDMS	82KRA	01
66.4			IDMS	70LAE	01
Sr 87/86					
1.202	0.001		IDMS	69COM	01
1.1978	0.0033		IDMS	74COR	01

TABLE UU (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ta (ppb)					
150.	8.		ITNA	77FLA	01
Tb (ppb)					
	200.	L*	ITNA	77FLA	01
Th (ppb)					
300.			ITNA	77FLA	01
Tl (ppm)					
2.715	0.217	7	ASV	82CAL	01
2.906	0.25	7	ASV	82CAL	01
Yb (ppb)					
	500.	L*	ITNA	77FLA	01
Zn (ppm)					
	5.	L*	ITNA	77FLA	01
Zr (ppm)					
	90.	L*	ITNA	77FLA	01

TABLE VV

NBS SRM 76—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (%)					
20.05			WXRF	67KOD	01
Ca (ppm)					
1600.			WXRF	67KOD	01
Fe (%)					
1.47	0.01		COLOR	59COL	01
1.59			WXRF	67KOD	01
K (%)					
1.29			WXRF	67KOD	01
Mg (ppm)					
2800.			WXRF	67KOD	01
Mn (ppm)					
230.			WXRF	67KOD	01
Si (%)					
25.76			WXRF	67KOD	01
Sr (ppm)					
85.			WXRF	67KOD	01
Ti (%)					
1.34			WXRF	67KOD	01

TABLE WW

NBS SRM 77—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (%)					
30.63			WXRF	67KOD	01
31.4			XRF	72ASH	01
Ca (ppm)					
1400.			WXRF	67KOD	01
Fe (ppm)					
5200.			WXRF	67KOD	01
5700.	100.		COLOR	59COL	01
K (%)					
1.79			WXRF	67KOD	01
Mg (ppm)					
2200.			WXRF	67KOD	01
Mn (ppm)					
80.			WXRF	67KOD	01
Si (%)					
15.3			XRF	72ASH	01
15.34			WXRF	67KOD	01
Sr (ppm)					
1200.			WXRF	67KOD	01
Ti (%)					
1.82			WXRF	67KOD	01

TABLE XX

NBS SRM 88—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ca (%)					
21.81	0.03		TITR	80HIT	02
Co (ppm)					
0.7	0.6		RTNA	61TUR	01
Cr (ppm)					
3.9			RTNA	61TUR	01
Fe (ppm)					
580.	10.		COLOR	59COL	01
S (ppm)					
270.			CB	55COL	01
290.			CB	77LAN	01
300.			TURB	73SHA	01
Sr (ppm)					
55.			OES	58GRA	01
60.			RTNA	61TUR	01
Ti (ppm)					
24.	4.		RTNA	65WAH	01
340.			COLOR	63KOR	01

TABLE YY

NBS SRM 88A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ag (ppm)					
	3.	L*	ICPES	81CHU	01
Al (ppm)					
300.			EXRF	80DAL	01
900.	30.		ICPES	81CHU	01
As (ppm)					
	5.	L*	ICPES	81CHU	01
Au (ppm)					
	3.	L*	ICPES	81CHU	01
Ba (ppm)					
13.	0.26		ICPES	81CHU	01
Be (ppb)					
180.	20.		ICPES	81CHU	01
Bi (ppm)					
	25.	L*	ICPES	81CHU	01
C (%)					
12.83			CB	78TER	01
Ca (%)					
20.96	0.69		ICPES	81CHU	01
22.5			EXRF	80DAL	01
Cd (ppm)					
	2.	L*	ICPES	81CHU	01
Ce (ppm)					
	15.	L*	ICPES	81CHU	01
Co (ppm)					
3.	1.		ICPES	81CHU	01
Cr (ppm)					
11.7	1.		ICPES	81CHU	01
Cu (ppm)					
2.5	1.		ICPES	81CHU	01
Eu (ppm)					
1.2	0.6		ICPES	81CHU	01

TABLE YY (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Fe (ppm)					
2050.	40.		ICPES	81CHU	01
2200.			EXRF	80DAL	01
Gd (ppm)					
3.4	0.35		ICPES	81CHU	01
Hg (ppb)					
28.2	0.68		FAA	82FLA	01
K (ppm)					
700.			EXRF	80DAL	01
1000.	25.		ICPES	81CHU	01
La (ppm)					
	5.	L*	ICPES	81CHU	01
Li (ppm)					
	2.	L*	ICPES	81CHU	01
Mg (%)					
13.			EXRF	80DAL	01
13.06	0.4		ICPES	81CHU	01
Mn (ppm)					
150.			EXRF	80DAL	01
210.	6.3		ICPES	81CHU	01
Mo (ppm)					
	3.	L*	ICPES	81CHU	01
Na (ppm)					
104.	7.		ICPES	81CHU	01
Nd (ppm)					
	20.	L*	ICPES	81CHU	01
Ni (ppm)					
	3.	L*	ICPES	81CHU	01
P (ppm)					
70.	4.		ICPES	81CHU	01
220.			EXRF	80DAL	01
Pb (ppm)					
27.	3.		ICPES	81CHU	01

TABLE YY (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
S (ppm)					
4.			CB	78TER	01
21.			CB	77LAN	01
Sb (ppm)					
	10.	L*	ICPES	81CHU	01
Se (ppm)					
	30.	L*	ICPES	81CHU	01
Si (ppm)					
4100.			EXRF	80DAL	01
Sm (ppm)					
	5.	L*	ICPES	81CHU	01
Sn (ppm)					
	3.	L*	ICPES	81CHU	01
Sr (ppm)					
41.	0.8		ICPES	81CHU	01
96.			OES	75THO	01
Th (ppm)					
	25.	L*	ICPES	81CHU	01
Ti (ppm)					
66.	2.		ICPES	81CHU	01
180.			EXRF	80DAL	01
U (ppm)					
	25.	L*	ICPES	81CHU	01
V (ppm)					
9.	1.		ICPES	81CHU	01
Yb (ppm)					
1.2	0.04		ICPES	81CHU	01
Zn (ppm)					
4.1	1.		ICPES	81CHU	01
Zr (ppm)					
	1.	L*	ICPES	81CHU	01

TABLE ZZ

NBS SRM 91—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (%)					
3.21		35	TCGS	78GLA	04
B (ppm)					
302.			OES	64FIL	01
Ba (ppm)					
79.			OES	72AVN	01
Ca (%)					
7.54		35	TCGS	78GLA	04
Co (ppm)					
4.5			OES	72AVN	01
Cr (ppm)					
26.			OES	64FIL	01
26.			OES	72AVN	01
Cu (ppm)					
16.			OES	72AVN	01
F (%)					
5.1		*	IC	82WIL	02
5.16		*35	IENA	79GLA	03
5.6	0.16	11	ISE	77HOP	01
5.62	0.08		NAA	80NOR	01
5.68	0.15		ISE	77TRO	01
5.7		11	ISE	77HOP	01
5.72			ISE	70ING	01
5.75	0.003		ISE	71PET	01
Fe (ppm)					
430.			OES	64FIL	01
600.		35	IENA	79GLA	03
4000.		35	TCGS	78GLA	04
5200.	100.		COLOR	59COL	01
Ga (ppm)					
12.			OES	72AVN	01
K (%)					
2.68		35	TCGS	78GLA	04
Mg (ppm)					
60.		35	TCGS	78GLA	04

TABLE ZZ (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Mn (ppm)					
39.			OES	64FIL	01
63.			OES	72AVN	01
Na (%)					
6.23		35	IENA	79GLA	03
6.32		35	TCGS	78GLA	04
Ni (ppm)					
0.79		35	IENA	79GLA	03
6.			OES	72AVN	01
O (%)					
49.	0.6		14NAA	80NOR	01
Pb (ppm)					
17.			OES	64FIL	01
1150.			OES	72AVN	01
Si (%)					
31.5	1.21		AA	82KIS	01
32.1		35	TCGS	78GLA	04
32.2		35	IENA	79GLA	03
Sr (ppm)					
39.			OES	72AVN	01
Ti (ppm)					
	350.	L*	IENA	79GLA	03
110.		35	TCGS	78GLA	04
140.			OES	72AVN	01
156.			OES	64FIL	01
U (ppb)					
540.			DNA	66HAM	01
V (ppm)					
43.			OES	72AVN	01
Zr (ppm)					
47.			OES	64FIL	01

TABLE AAA

NBS SRM 950A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
U238/235					
137.55	0.29		IDMS	79UNR	01
138.889	4761.		MS	82SMI	01
137.9	0.2		IDMS	81CHE	02
138.	0.4		IDMS	81CHE	01
U234/238					
0.00005672			IDMS	80RIL	01
U235/238					
727.65			IDMS	80RIL	01

TABLE BBB

NBS SRM 97—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (%)					
20.47			COLOR	57SHI	01
20.51			CHEM	57SHI	01
B (ppm)					
57.			OES	64FIL	01
71.3			OES	77FLA	01
Ba (ppm)					
110.			OES	77FLA	01
141.			OES	58GRA	01
270.	21.		ITNA	77FLA	01
Be (ppm)					
1.3			OES	77FLA	01
C (ppm)					
3200.			CB	78TER	01
Ce (ppm)					
57.	29.		ITNA	77FLA	01
60.7			OES	77FLA	01
Co (ppm)					
3.3	0.06		ITNA	77FLA	01
3.46			OES	77FLA	01
4.4			RTNA	61TUR	01
Cr (ppm)					
486.			OES	77FLA	01
500.			COLOR	57SHI	01
540.			CHEM	57SHI	01
576.	14.4		ITNA	77FLA	01
581.			RTNA	61TUR	01
639.			AA	80DON	01
Cs (ppm)					
2.4	0.08		ITNA	77FLA	01
Cu (ppm)					
11.			OES	64FIL	01
18.5			OES	77FLA	01
20.			CHEM	57SHI	01
22.			COLOR	57SHI	01
Dy (ppm)					
4.28			OES	77FLA	01

TABLE BBB (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Eu (ppm)					
1.24	0.03		ITNA	77FLA	01
1.56			OES	77FLA	01
Fe (ppm)					
6500.	100.		COLOR	59COL	01
6600.	100.		ITNA	77FLA	01
6600.			COLOR	57SHI	01
6800.			CHEM	57SHI	01
Ga (ppm)					
45.1			OES	77FLA	01
Hf (ppm)					
39.5	1.19		ITNA	77FLA	01
Hg (ppb)					
68.			FAA	75HEI	01
159.2	6.22		FAA	82FLA	01
La (ppm)					
	14.7	L*	OES	77FLA	01
34.	0.71		ITNA	77FLA	01
Li (ppm)					
1074.			OES	77FLA	01
Lu (ppm)					
0.96	0.02		ITNA	77FLA	01
Mg (%)					
0.13			COLOR	57SHI	01
0.16			CHEM	57SHI	01
Mn (ppm)					
16.			CHEM	57SHI	01
35.			OES	64FIL	01
99.7			OES	77FLA	01
Mo (ppm)					
2.			CHEM	57SHI	01
Nb (ppm)					
35.6			OES	77FLA	01
Nd (ppm)					
19.			ITNA	77FLA	01

TABLE BBB (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ni (ppm)					
32.			OES	64FIL	01
36.8			OES	77FLA	01
Pb (ppm)					
34.3			OES	77FLA	01
35.			FAA	79HEI	03
Rb (ppm)					
24.	1.6		ITNA	77FLA	01
S (ppm)					
158.			CB	78TER	01
170.			CB	55COL	01
200.			TURB	73SHA	01
Sb (ppm)					
1.4	0.11		ITNA	77FLA	01
Sc (ppm)					
12.1			OES	77FLA	01
20.7	0.17		ITNA	77FLA	01
Si (%)					
20.			TITR	77OHL	01
Sm (ppm)					
	4.64	L*	OES	77FLA	01
5.8	0.08		ITNA	77FLA	01
Sn (ppm)					
7.			OES	64FIL	01
10.1			OES	77FLA	01
Sr (ppm)					
30.			RTNA	61TUR	01
88.			OES	58GRA	01
101.			OES	77FLA	01
Ta (ppm)					
4.2	0.09		ITNA	77FLA	01
Tb (ppm)					
1.27	0.02		ITNA	77FLA	01
Th (ppm)					
37.	0.48		ITNA	77FLA	01

TABLE BBB (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ti (%)					
1.3			COLOR	57SHI	01
1.43			CHEM	57SHI	01
V (ppm)					
148.			OES	64FIL	01
205.			COLOR	57SHI	01
234.			CHEM	57SHI	01
362.			OES	77FLA	01
Y (ppm)					
33.			OES	64FIL	01
37.6			OES	77FLA	01
Yb (ppm)					
6.8	0.17		ITNA	77FLA	01
7.47			OES	77FLA	01
Zn (ppm)					
81.			XRF	65BAL	01
103.	3.15		ITNA	77FLA	01
Zr (ppm)					
1390.	34.8		ITNA	77FLA	01

TABLE CCC

NBS SRM 97A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
B (ppm)					
69.4			OES	77FLA	01
Ba (ppm)					
660.	20.6		ITNA	77FLA	01
Be (ppm)					
3.55			OES	77FLA	01
C (ppm)					
600.			CB	78TER	01
Ce (ppm)					
124.			OES	77FLA	01
203.	3.51		ITNA	77FLA	01
Co (ppm)					
4.1	0.08		ITNA	77FLA	01
4.64			OES	77FLA	01
Cr (ppm)					
180.	4.1		ITNA	77FLA	01
203.			OES	77FLA	01
Cs (ppm)					
1.6	0.6		ITNA	77FLA	01
Cu (ppm)					
24.9			OES	77FLA	01
Dy (ppm)					
8.89			OES	77FLA	01
Eu (ppm)					
3.66			OES	77FLA	01
3.81	0.02		ITNA	77FLA	01
Fe (ppm)					
3000.	30.		ITNA	77FLA	01
Ga (ppm)					
31.6			OES	77FLA	01
Hf (ppm)					
11.3	0.39		ITNA	77FLA	01
15.4			RTNA	76GAN	01

TABLE CCC (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Hg (ppb)					
387.5	22.5		FAA	82FLA	01
La (ppm)					
43.7			OES	77FLA	01
103.	1.83		ITNA	77FLA	01
Li (ppm)					
439.			OES	77FLA	01
Lu (ppm)					
0.98	0.04		ITNA	77FLA	01
Mn (ppm)					
5.24			OES	77FLA	01
Nb (ppm)					
39.			OES	77FLA	01
Nd (ppm)					
88.	3.7		ITNA	77FLA	01
Ni (ppm)					
81.			OES	77FLA	01
Pb (ppm)					
41.7			OES	77FLA	01
Rb (ppm)					
	20.	L*	ITNA	77FLA	01
S (ppm)					
308.			CB	78TER	01
Sb (ppb)					
800.	100.		ITNA	77FLA	01
Sc (ppm)					
21.3			OES	77FLA	01
31.3	0.75		ITNA	77FLA	01
Sm (ppm)					
6.88			OES	77FLA	01
21.3	0.69		ITNA	77FLA	01

TABLE CCC (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Sn (ppm)					
6.16			AA	82TER	01
6.53			OES	77FLA	01
Sr (ppm)					
860.			OES	77FLA	01
Ta (ppm)					
3.21	0.06		ITNA	77FLA	01
Tb (ppm)					
2.77	0.08		ITNA	77FLA	01
Th (ppm)					
31.1	0.37		ITNA	77FLA	01
U (ppm)					
6.58			RTNA	76GAN	01
V (ppm)					
362.			OES	77FLA	01
Y (ppm)					
121.			OES	77FLA	01
Yb (ppm)					
7.7	0.23		ITNA	77FLA	01
10.1			OES	77FLA	01
Zn (ppm)					
	20.	L*	ITNA	77FLA	01
Zr (ppm)					
465.	19.		RTNA	76GAN	01
580.	21.		ITNA	77FLA	01

TABLE DDD

NBS SRM 98—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (%)					
13.48			TITR	58WAT	01
13.5			CHEM	62JOE	01
13.5			OES	62JOE	01
13.51			CHEM	57SHI	01
13.65			COLOR	57SHI	01
B (ppm)					
68.			OES	64FIL	01
78.5			OES	77FLA	01
150.		3	OES	63CLA	01
250.		3	OES	63CLA	01
Ba (ppm)					
570.			OES	58GRA	01
670.	10.8		ITNA	77FLA	01
800.			OES	63CLA	01
Be (ppm)					
4.1			OES	77FLA	01
C (ppm)					
4000.			CB	78TER	01
Ca (ppm)					
1500.			CHEM	62JOE	01
1500.			OES	62JOE	01
1600.			TITR	80HIT	02
Ce (ppm)					
119.			OES	77FLA	01
135.	1.32		ITNA	77FLA	01
Co (ppm)					
13.8	0.1		ITNA	77FLA	01
15.			OES	63CLA	01
16.5			RTNA	61TUR	01
16.9			OES	77FLA	01
17.			OES	64FIL	01
Cr (ppm)					
113.	2.33		ITNA	77FLA	01
119.			OES	64FIL	01
130.			RTNA	61TUR	01
136.			OES	77FLA	01
143.			AA	80DON	01
144.			CHEM	57SHI	01
150.		3	OES	63CLA	01
170.			COLOR	57SHI	01
250.		3	OES	63CLA	01
1400.		*	CHEM	62JOE	01
1600.		*	OES	62JOE	01

TABLE DDD (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Cs (ppm)					
10.7	0.17		ITNA	77FLA	01
Cu (ppm)					
33.7			OES	77FLA	01
39.			OES	64FIL	01
70.			COLOR	57SHI	01
70.		3	OES	63CLA	01
72.			CHEM	57SHI	01
100.		3	OES	63CLA	01
Dy (ppm)					
7.07			OES	77FLA	01
Eu (ppm)					
1.74	0.02		ITNA	77FLA	01
2.07			OES	77FLA	01
Fe (%)					
1.12			CHEM	62JOE	01
1.17			OES	62JOE	01
1.38	0.01		COLOR	59COL	01
1.4	0.05		ITNA	77FLA	01
1.4			COLOR	57SHI	01
1.43			CHEM	57SHI	01
Ga (ppm)					
	100.	L*	OES	63CLA	01
24.1			OES	77FLA	01
80.		3	OES	63CLA	01
Hf (ppm)					
7.	0.42		ITNA	77FLA	01
Hg (ppb)					
462.6	12.1		FAA	82FLA	01
La (ppm)					
55.2			OES	77FLA	01
79.	1.7		ITNA	77FLA	01
150.			OES	63CLA	01
Li (ppm)					
144.			OES	77FLA	01
Lu (ppb)					
650.			ITNA	77FLA	01

TABLE DDD (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Mg (ppm)					
4100.			TITR	80HIT	02
4200.			OES	62JOE	01
4300.			CHEM	62JOE	01
4300.			CHEM	57SHI	01
4600.			COLOR	57SHI	01
Mn (ppm)					
	80.	L*	OES	62JOE	01
39.			OES	64FIL	01
39.			CHEM	57SHI	01
40.			CHEM	62JOE	01
96.5			OES	77FLA	01
100.		3	OES	63CLA	01
100.		3	OES	63CLA	01
Mo (ppm)					
	1.	L*	OES	63CLA	01
1.			CHEM	57SHI	01
Nd (ppm)					
49.	0.58		ITNA	77FLA	01
Ni (ppm)					
39.			OES	64FIL	01
40.			OES	63CLA	01
52.8			OES	77FLA	01
P (ppm)					
350.		11	COLOR	76WHI	01
390.		11	COLOR	76WHI	01
Pb (ppm)					
40.			OES	63CLA	01
47.5			OES	77FLA	01
Rb (ppm)					
154.	1.12		ITNA	77FLA	01
S (ppm)					
250.			CB	78TER	01
270.			CB	55COL	01
300.			TURB	73SHA	01
Sb (ppm)					
1.3	0.12		ITNA	77FLA	01
Sc (ppm)					
22.1			OES	77FLA	01
22.9	0.06		ITNA	77FLA	01
30.			OES	63CLA	01

TABLE DDD (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Se (ppm)					
1.04	0.08		FLUOR	74CRE	01
1.2			UU	74WAH	01
1.37			UU	65WEL	01
Si (%)					
27.59			TITR	77OHL	01
27.6			CHEM	62JOE	01
27.6			OES	62JOE	01
Sm (ppm)					
6.3			OES	77FLA	01
10.3	0.42		ITNA	77FLA	01
Sn (ppm)					
6.47			OES	77FLA	01
Sr (ppm)					
205.			RTNA	61TUR	01
230.			OES	58GRA	01
300.			OES	63CLA	01
326.			OES	77FLA	01
390.			OES	75THO	01
Ta (ppm)					
2.22	0.03		ITNA	77FLA	01
Tb (ppm)					
1.35	0.02		ITNA	77FLA	01
Th (ppm)					
19.5	0.21		ITNA	77FLA	01
Ti (ppm)					
8400.			CHEM	62JOE	01
8600.			CHEM	57SHI	01
8690.			OES	62JOE	01
9000.		3	OES	63CLA	01
9300.			COLOR	57SHI	01
10000.		3	OES	63CLA	01
V (ppm)					
106.			OES	64FIL	01
120.			OES	62JOE	01
140.			CHEM	62JOE	01
140.			CHEM	57SHI	01
161.			COLOR	57SHI	01
200.		3	OES	63CLA	01
300.		3	OES	63CLA	01
310.			OES	77FLA	01

TABLE DDD (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Y (ppm)					
28.			OES	64FIL	01
40.			OES	63CLA	01
46.7			OES	77FLA	01
Yb (ppm)					
4.9	0.1		ITNA	77FLA	01
6.8			OES	77FLA	01
21.2			OES	77FLA	01
Zn (ppm)					
125.	2.1		ITNA	77FLA	01
Zr (ppm)					
190.		*	OES	64FIL	01
270.			OES	62JOE	01
300.			CHEM	62JOE	01
300.			OES	63CLA	01
340.	19.6		ITNA	77FLA	01
377.			OES	77FLA	01

TABLE EEE

NBS SRM 98A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
B (ppm)					
120.			OES	77FLA	01
Ba (ppm)					
168.			OES	77FLA	01
480.	20.		ITNA	77FLA	01
Be (ppm)					
5.93			OES	77FLA	01
C (ppm)					
8100.			CB	78TER	01
Ce (ppm)					
180.			OES	77FLA	01
219.	0.29		ITNA	77FLA	01
Co (ppm)					
11.5	0.06		ITNA	77FLA	01
14.4			OES	77FLA	01
Cr (ppm)					
212.	4.8		ITNA	77FLA	01
234.			OES	77FLA	01
Cs (ppm)					
6.2	0.06		ITNA	77FLA	01
Cu (ppm)					
121.			OES	77FLA	01
Dy (ppm)					
17.5			OES	77FLA	01
Eu (ppm)					
3.18	0.02		ITNA	77FLA	01
3.52			OES	77FLA	01
Fe (ppm)					
8800.	30.		ITNA	77FLA	01
Ga (ppm)					
23.3			OES	77FLA	01
Hf (ppm)					
7.3	0.14		ITNA	77FLA	01

TABLE EEE (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Hg (ppb)					
39.3	4.8		FAA	82FLA	01
La (ppm)					
91.7			OES	77FLA	01
162.	2.99		ITNA	77FLA	01
Li (ppm)					
291.			OES	77FLA	01
Lu (ppm)					
1.15	0.06		ITNA	77FLA	01
Mn (ppm)					
41.4			OES	77FLA	01
Nb (ppm)					
39.9			OES	77FLA	01
Nd (ppm)					
98.	2.6		ITNA	77FLA	01
Ni (ppm)					
162.			OES	77FLA	01
Pb (ppm)					
69.2			OES	77FLA	01
Rb (ppm)					
35.	2.3		ITNA	77FLA	01
S (ppm)					
1300.			CB	78TER	01
Sb (ppm)					
2.3	0.1		ITNA	77FLA	01
Sc (ppm)					
28.8			OES	77FLA	01
34.8	0.21		ITNA	77FLA	01
Sm (ppm)					
9.18			OES	77FLA	01
15.	2.4		ITNA	77FLA	01

TABLE EEE (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Sn (ppm)					
4.88			OES	77FLA	01
5.25			AA	82TER	01
Sr (ppm)					
438.			OES	77FLA	01
Ta (ppm)					
2.46	0.03		ITNA	77FLA	01
Tb (ppm)					
2.92	0.06		ITNA	77FLA	01
Th (ppm)					
23.9	0.11		ITNA	77FLA	01
Tl (ppb)					
351.	40.	7	ASV	82CAL	01
V (ppm)					
554.			OES	77FLA	01
Y (ppm)					
176.			OES	77FLA	01
Yb (ppm)					
9.3	0.29		ITNA	77FLA	01
10.3			OES	77FLA	01
Zn (ppm)					
	23.	L*	ITNA	77FLA	01
Zr (ppm)					
740.	32.		ITNA	77FLA	01

TABLE FFF

NBS SRM 99—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Al (%)					
10.07			TITR	58WAT	01
B (ppm)					
10.			OES	63CLA	01
Ba (ppm)					
	130.	L*	ITNA	77FLA	01
	800.	L*	OES	63CLA	01
Ce (ppm)					
8.	0.6		ITNA	77FLA	01
Co (ppb)					
	10000.	L*	OES	63CLA	01
700.	30.		ITNA	77FLA	01
780.	120.		RTNA	61TUR	01
Cr (ppm)					
	20.	L*	OES	63CLA	01
3.3	0.16		ITNA	77FLA	01
5.3			RTNA	61TUR	01
13.			OES	64FIL	01
Cs (ppb)					
700.	100.		ITNA	77FLA	01
Cu (ppm)					
20.			OES	63CLA	01
22.			OES	64FIL	01
Eu (ppb)					
350.			ITNA	77FLA	01
Fe (ppm)					
500.			ITNA	77FLA	01
Ga (ppm)					
30.			OES	63CLA	01
Hf (ppb)					
900.	60.		ITNA	77FLA	01
La (ppm)					
	100.	L*	OES	63CLA	01
	8.	L*	ITNA	77FLA	01

TABLE FFF (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Lu (ppb)					
	200.	L*	ITNA	77FLA	01
Mn (ppm)					
12.			OES	64FIL	01
50.			OES	63CLA	01
Nd (ppm)					
	4.	L*	ITNA	77FLA	01
Ni (ppm)					
15.			OES	63CLA	01
P (ppm)					
567.			OES	64FIL	01
Pb (ppm)					
62.			OES	64FIL	01
150.			OES	63CLA	01
Rb (ppm)					
23.	1.6		ITNA	77FLA	01
Sb (ppb)					
500.	60.		ITNA	77FLA	01
Sc (ppb)					
	10000.	L*	OES	63CLA	01
830.	10.		ITNA	77FLA	01
Si (%)					
32.05	0.01		TITR	77OHL	01
32.05			COLOR	82SAR	01
Sm (ppm)					
	2.	L*	ITNA	77FLA	01
Sr (ppm)					
120.			RTNA	61TUR	01
130.			OES	75THO	01
400.			OES	63CLA	01
Ta (ppm)					
1.9	0.02		ITNA	77FLA	01
Tb (ppb)					
280.	6.		ITNA	77FLA	01

TABLE FFF (cont)

CONC	JNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Th (ppm)					
1.6	0.03		ITNA	77FLA	01
Ti (ppm)					
61.			OES	64FIL	01
150.		3	OES	63CLA	01
200.		3	OES	63CLA	01
560.			COLOR	63KOR	01
U (ppm)					
1.09			DNA	66HAM	01
V (ppm)					
	10.	L*	OES	63CLA	01
Y (ppm)					
10.			OES	63CLA	01
Yb (ppm)					
1.	0.06		ITNA	77FLA	01
Zn (ppm)					
14.6			RTNA	65BAL	01
15.			XRF	65BAL	01
18.	0.82		ITNA	77FLA	01
Zr (ppm)					
	100.	L*	ITNA	77FLA	01
11.			OES	64FIL	01
40.			OES	63CLA	01

TABLE GGG

NBS SRM 99A—COLLECTED DATA

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Ba (ppm)					
2570.	38.6		ITNA	77FLA	01
C (ppm)					
300.			CB	78TER	01
Ca (%)					
1.51			AA	73RAM	01
Ce (ppm)					
5.	0.29		ITNA	77FLA	01
Co (ppb)					
100.			ITNA	77FLA	01
Cr (ppm)					
	3.	L*	ITNA	77FLA	01
Cs (ppm)					
0.5	0.03		ITNA	77FLA	01
9.			AA	72ALL	01
Eu (ppb)					
820.	4.		ITNA	77FLA	01
Fe (ppm)					
450.			AA	73RAM	01
500.			ITNA	77FLA	01
Hf (ppb)					
300.	30.		ITNA	77FLA	01
Hg (ppb)					
164.6	7.35		FAA	82FLA	01
K (%)					
4.2	0.13		ISE	75PUF	01
4.2			FE	75PUF	01
4.4			AA	73RAM	01
La (ppm)					
22.	1.9		ITNA	77FLA	01
Lu (ppb)					
	100.	L*	ITNA	77FLA	01
Mg (ppm)					
130.			AA	73RAM	01

TABLE GGG (cont)

CONC	UNCER	COMMENT	ANAL METH	REF CODE	REF NUM
Na (%)					
4.45			AA	73RAM	01
4.6			FE	75PUF	01
4.6	0.1		ISE	75PUF	01
Nd (ppm)					
	4.	L*	ITNA	77FLA	01
Rb (ppm)					
100.			AA	72ALL	01
109.	1.2		ITNA	77FLA	01
S (ppm)					
19.			CB	78TER	01
Sb (ppb)					
	300.	L*	ITNA	77FLA	01
Sc (ppb)					
230.			ITNA	77FLA	01
Si (%)					
30.42	0.4		AA	82KIS	01
Sm (ppb)					
500.	70.		ITNA	77FLA	01
Sn (ppm)					
0.45			AA	82TER	01
Ta (ppb)					
	200.	L*	ITNA	77FLA	01
Tb (ppb)					
	200.	L*	ITNA	77FLA	01
Th (ppb)					
500.			ITNA	77FLA	01
Yb (ppb)					
	300.	L*	ITNA	77FLA	01
Zn (ppm)					
	7.	L*	ITNA	77FLA	01
Zr (ppm)					
70.			ITNA	77FLA	01

TABLE HHH: REFERENCES FOR NBS SRM COLLECTED DATA

CODE N — DESCRIPTION

55COL 01 M. E. COLLER AND R. K. LEININGER (1955)
DETERMINATION OF TOTAL SULFUR CONTENT OF SEDIMENTARY ROCKS BY A COMBUSTION METHOD, ANALYTICAL CHEMISTRY, 27: 949-951.

57SHI 01 N.F. SHIMP, J. CONNOR, A.L. PRINCE, F.E. BEAR (1957)
SPECTROCHEMICAL ANALYSIS OF SOILS AND BIOLOGICAL MATERIALS, SOIL SCIENCE, 83: 51-64.

58GRA 01 R. J. GRABOWSKI AND R. C. UNICE (1958)
QUANTITATIVE SPECTROCHEMICAL DETERMINATION OF BARIUM AND STRONTIUM, ANALYTICAL CHEMISTRY, 30: 1374-1379.

58WAT 01 H. L. WATTS (1958)
VOLUMETRIC DETERMINATION OF ALUMINIUM IN PRESENCE OF IRON, TITANIUM, CALCIUM, SILICON, AND OTHER IMPURITIES, ANALYTICAL CHEMISTRY, 30: 967-970.

59COL 01 P. F. COLLINS, H. DIEHL, AND G. F. SMITH (1959)
DETERMINATION OF IRON IN LIMESTONE, SILICATES, AND REFRACTORIES, ANALYTICAL CHEMISTRY, 31: 1862-1867.

61TUR 01 K. K. TUREKIAN AND M. H. CARR (1961)
CHROMIUM, COBALT AND STRONTIUM IN SOME BUREAU OF STANDARDS ROCK REFERENCE SAMPLES, GEOCHIMICA ET COSMOCHIMICA ACTA, 24: 1-9.

62JOE 01 O. I. JOENSUU AND N. H. SUHR (1962)
SPECTROCHEMICAL ANALYSIS OF ROCKS, MINERALS, AND RELATED MATERIALS, APPLIED SPECTROSCOPY, 16: 101-104.

63CLA 01 M. C. CLARK AND D.J. SWAINE (1963)
TRACE-ELEMENT CONTENTS OF THE NATIONAL BUREAU OF STANDARDS REFERENCE SAMPLES NUMBERS 1A, 98 AND 99, GEOCHIMICA ET COSMOCHIMICA ACTA, 27: 1139-1142.

63KOR 01 J. KORKISCH, G. ARRHENIUS AND D. P. KHARKAR (1963)
SPECTROPHOTOMETRIC DETERMINATION OF TITANIUM AFTER SEPARATION BY ANION EXCHANGE, ANALYTICA CHIMICA ACTA, 28: 270-277.

64FIL 01 R. H. FILBY (1964)
THE CONTENTS OF SEVERAL TRACE ELEMENTS IN SOME STANDARD ROCK SAMPLES, GEOCHIMICA ET COSMOCHIMICA ACTA, 28: 265-269.

65BAL 01 T. K. BALL AND R. H. FILBY (1965)
THE ZINC CONTENTS OF SOME GEOCHEMICAL STANDARDS BY NEUTRON ACTIVATION AND X-RAY FLUORESCENCE ANALYSIS, GEOCHIMICA ET COSMOCHIMICA ACTA, 29: 737-740.

65MTA 01 PROCEEDINGS OF THE 1965 INTERNATIONAL CONFERENCE ON MODERN TRENDS IN ACTIVATION ANALYSIS, COLLEGE STATION, TEXAS, APRIL 19-22.

65WAH 01 W. H. WAHL, V. J. MOLINSKY, AND H. ARINO (1965)
RAPID RADIOCHEMICAL SEPARATION PROCEDURES FOR ACTIVATION ANALYSIS INDICATORS, IN 65MTA 01, PP. 44-47.

65WEL 01 N. WELLS (1965)
SELENIUM CONTENT OF SOIL-FORMING ROCKS, NEW ZEALAND JOURNAL OF GEOLOGY AND GEOPHYSICS, 10: 198-208; TAKEN FROM 74CRE 01.

66HAM 01 E. I. HAMILTON (1966)
THE URANIUM CONTENT OF SOME INTERNATIONAL STANDARDS, EARTH AND PLANETARY SCIENCE LETTERS, 1: 317-318.

67KOD 01 H. KODAMA, J. E. BRYDON, AND B. C. STONE (1967)
X-RAY SPECTROCHEMICAL ANALYSIS OF SILICATES USING SYNTHETIC STANDARDS WITH A CORRECTION OF INTERELEMENTAL EFFECTS BY A COMPUTER METHOD, GEOCHIMICA ET COSMOCHIMICA ACTA, 31: 649-659.

69COM 01 W. COMPSTON, B.W. CHAPPELL, P.A. ARRIENS, M.J. VERNON (1969)
ON THE FEASIBILITY OF NBS 70A K-FELDSPAR AS A RB-SR AGE REFERENCE SAMPLE, GEOCHIMICA ET COSMOCHIMICA ACTA, 33: 753-757.

69EDM 01 C. R. EDMOND (1969)
DIRECT DETERMINATION OF FLUORIDE IN PHOSPHATE ROCK SAMPLES USING THE SPECIFIC ION ELECTRODE, ANALYTICAL CHEMISTRY, 41: 1327-1328.

CODE N — DESCRIPTION

69LAE 01 J. R. DE LAETER, I. D. ABERCROMBIE, AND R. DATE (1969)
MASS SPECTROMETRIC ISOTOPE DILUTION ANALYSES OF BARIUM IN STANDARD ROCKS, EARTH AND PLANETARY SCIENCE LETTERS, 7: 64-66.

69THI 01 G. THIELICKE (1969)
TITRIMETRISCHE BESTIMMUNG DES ALUMINIUMS IN SILICATGESTEINEN MIT POTENTIOMETRISCHER INDIKATION, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 246: 118-122.

69WIC 01 R. WICKBOLD (1969)
EXTRAKTION DES EISENS MIT METHYLISOBUTYLKETON UND SEINE TITRATION IM EXTRAKT MIT ADTA, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 244: 372-375.

70ING 01 B. L. INGRAM (1970)
DETERMINATION OF FLUORIDE IN SILICATE ROCKS WITHOUT SEPARATION OF ALUMINIUM USING A SPECIFIC ION ELECTRODE, ANALYTICAL CHEMISTRY, 42: 1825-1827.

70LAE 01 J. R. DE LAETER AND I. D. ABERCROMBIE (1970)
MASS SPECTROMETRIC ISOTOPE DILUTION ANALYSES OF RUBIDIUM AND STRONTIUM IN STANDARD ROCKS, EARTH AND PLANETARY SCIENCE LETTERS, 9: 327-330.

71FAB 01 B. P. FABBI (1971)
RAPID X-RAY FLUORESCENCE DETERMINATION OF PHOSPHORUS IN GEOLOGICAL SAMPLES, APPLIED SPECTROSCOPY, 25: 41-43.

71PET 01 M. A. PETERS AND D. M. LADD (1971)
DETERMINATION OF FLUORIDE IN OXIDES WITH THE FLUORIDE-ION ACTIVITY ELECTRODE, TALANTA, 18: 655-664.

72ALL 01 W. J. F. ALLEN (1972)
THE DETERMINATION OF RUBIDIUM AND CAESIUM IN GEOLOGICAL MATERIALS BY ATOMIC EMISSION SPECTROPHOTOMETRY WITH A NITROUS OXIDE-ACETYLENE FLAME, ANALYTICA CHIMICA ACTA, 59: 111-117.

72ASH 01 D. G. ASHLEY AND K. W. ANDREWS (1972)
ANALYSIS OF ALUMINOSILICATE MATERIALS BY X-RAY FLUORESCENCE SPECTROMETRY, ANALYST, 97: 841-845.

72AVN 01 R. AVNI, A. HAREL, AND I. B. BRENNER (1972)
A NEW APPROACH TO THE SPECTROCHEMICAL ANALYSIS OF SILICATE ROCKS AND MINERALS, APPLIED SPECTROSCOPY, 26: 641-645.

72BEC 03 D. A. BECKER AND P. D. LAFLEUR (1972)
DETERMINATION OF TRACE QUANTITIES OF URANIUM IN BIOLOGICAL MATERIALS BY NEUTRON ACTIVATION ANALYSIS USING A RAPID RADIOCHEMICAL SEPARATION, ANALYTICAL CHEMISTRY, 44: 1508-1511.

72BOU 01 J. L. BOUVIER, J. G. SEN GUPTA, AND S. ABBEY (1972)
TITLE UNKNOWN, GEOLOGICAL SURVEY OF CANADA PAPER 72-31, P. 22; TAKEN FROM 77LAN 01.

72BOW 01 H. J. M. BOWEN (1972)
THE DETERMINATION OF TIN IN BIOLOGICAL MATERIAL BY USING NEUTRON-ACTIVATION ANALYSIS, ANALYST, 97: 1003-1005.

72BYR 01 A. R. BYRNE (1972)
THE TOLUENE EXTRACTION OF SOME ELEMENTS AS IODIDES FROM H2SO4-KI MEDIA. APPLICATION TO NEUTRON ACTIVATION ANALYSIS, ANALYTICA CHIMICA ACTA, 59: 91-99.

72DAM 01 E. DAMSGAARD, K. HEYDORN, AND B. RIETZ (1972)
DETERMINATION OF VANADIUM IN BIOLOGICAL MATERIALS BY NEUTRON ACTIVATION ANALYSIS, NUCLEAR ACTIVATION TECHNIQUES IN THE LIFE SCIENCES: 1972, IAEA, VIENNA, PP. 119-130, IN 72IAE 01.

72GIB 01 D. GIBBONS, M. PERKINS, T.W. SANDERS, (1972)
DETERMINATION OF LEAD IN BIOLOGICAL MATERIALS BY NEUTRON ACTIVATION ANALYSIS, PP. 131-138, IN 72IAE 01.

72HEI 01 M. W. HEITZMAN AND R. E. SIMPSON (1972)
NEUTRON ACTIVATION ANALYSIS OF MERCURY IN FISH, FLOUR, AND STANDARD REFERENCE ORCHARD LEAVES BY ELECTRODEPOSITION RADIOCHEMISTRY, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 55: 960-965.

CODE N	DESCRIPTION
72IAE 01	NUCLEAR ACTIVATION TECHNIQUES IN THE LIFE SCIENCES (1972) PROCEEDINGS OF A SYMPOSIUM ON NUCLEAR ACTIVATION TECHNIQUES IN THE LIFE SCIENCES HELD BY THE IAEA IN BLED, YUGOSLAVIA, APRIL, 1972, STI/PUB/310.
72LEV 01	M. LEVSTEK AND L. KOSTA, M. DERMELJ, AND A. R. BYRNE (1972) VANADIUM DETERMINATION IN BIOLOGICAL MATERIALS BY THE USE OF PRECONCENTRATION, NUCLEAR ACTIVATION TECHNIQUES IN THE LIFE SCIENCES, IAEA, VIENNA, PP.111-116, IN 72IAE 01.
72LYO 01	W. S. LYON, L. C. BATE, J.F. EMERY (1972) ENVIRONMENTAL POLLUTION: USE OF NEUTRON ACTIVATION ANALYSIS TO DETERMINE THE FATE OF TRACE ELEMENTS FROM FOSSIL FUEL COMBUSTION IN THE ECOLOGICAL CYCLE, PP. 253-261, IN 72IAE 01.
72MAG 01	C. W. MAGEE, D. L. DONOHUR, AND W. W. HARRISON (1972) ADVANTAGES OF DUAL ELECTRODE MOUNTS IN SPARK SOURCE MASS SPECTROMETRY USING ELECTRICAL DETECTION, ANALYTICAL CHEMISTRY, 44: 2413-2415.
72MAI 01	E. J. MAIENTHAL (1972) ANALYSIS OF BOTANICAL STANDARD REFERENCE MATERIALS BY CATHODE RAY POLAROGRAPHY, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 55: 1109-1113.
72MOR 03	G. H. MORRISON AND N. M. POTTER (1972) MULTIELEMENT NEUTRON ACTIVATION ANALYSIS OF BIOLOGICAL MATERIAL USING CHEMICAL GROUP SEPARATIONS AND HIGH RESOLUTION GAMMA SPECTROMETRY, ANALYTICAL CHEMISTRY, 44: 839-842.
72RAI 01	T. C. RAINS AND O. MENIS (1972) DETERMINATION OF SUBMICROGRAM AMOUNTS OF MERCURY IN STANDARD REFERENCE MATERIALS BY FLAMELESS ATOMIC ABSORPTION SPECTROMETRY, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 55: 1339-1344.
72ROO 01	H. L. ROOK, P. D. LAFLEUR, AND T. E. GILLS (1972) MERCURY IN COAL: A NEW STANDARD REFERENCE MATERIAL, ENVIRONMENTAL LETTERS, 2: 195-204.
72ROO 02	H. L. ROOK, T. E. GILLS, AND P. D. LAFLEUR (1972) METHOD FOR DETERMINATION OF MERCURY IN BIOLOGICAL MATERIALS BY NEUTRON ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 44: 1114-1117.
72ROO 03	H. L. ROOK (1972) RAPID, QUANTITATIVE SEPARATION FOR THE DETERMINATION OF SELENIUM USING NEUTRON ACTIVATION, ANALYTICAL CHEMISTRY, 44: 1276-1278.
72SAN 01	P. M. SANTOLIQUIDO AND R. R. RUCH (1972) RAPID RADIOCHEMICAL SEPARATION AND DETERMINATION OF GALLIUM IN COAL ASH, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 12: 71-76.
72SEI 01	W. R. SEITZ AND D. M. HERCULES (1972) DETERMINATION OF TRACE AMOUNTS OF IRON(II) USING CHEMILUMINESCENCE ANALYSIS, ANALYTICAL CHEMISTRY, 44: 2143-2148.
72SIN 01	I. SINKO AND L. KOSTA (1972) DETERMINATION OF LEAD, CADMIUM, COPPER, AND ZINC IN BIOLOGICAL MATERIALS BY ANODIC STRIPPING POLAROGRAPHY, INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 2: 167-178.
73ABE 01	K. H. ABEL AND L. A. RANCITELLI (1973) MAJOR, MINOR, AND TRACE ELEMENT COMPOSITION OF COAL AND FLY ASH, AS DETERMINED BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, IN 73BAB 01, PP. 118-138.
73BAB 01	S. P. BABU (EDITOR) (1973) TRACE ELEMENTS IN FUEL, ADVANCES IN CHEMISTRY SERIES 141, AMERICAN CHEMICAL SOCIETY, WASHINGTON, D.C.
73BES 01	Y. BESNUS AND R. ROUAULT (1973) UNE METHODE D'ANALYSE DES ROCHES AU SPECTROMETRE D'ARC A LECTURE DIRECTE PAR UN DISPOSITIF D'ELECTRODE ROTATIVE, ANALUSIS, 2: 111-116.
73BLA 01	M. S. BLACK AND R. E. SIEVERS (1973) ENVIRONMENTAL ANALYSIS PROBLEMS CREATED BY UNEXPECTED VOLATILE BERYLLIUM COMPOUNDS IN VARIOUS SAMPLES, ANALYTICAL CHEMISTRY, 45: 1773-1775.
73BLO 02	A. J. BLOTCKY, L. J. ARSENAULT, AND E. P. RACK (1973) OPTIMUM PROCEDURE FOR THE DETERMINATION OF SELENIUM IN BIOLOGICAL SPECIMENS USING SE-77M NEUTRON ACTIVATION, ANALYTICAL CHEMISTRY, 45: 1056-1060.
73CAR 01	J.A. CARTER, D.R. MATTHEWS, R.L. WALKER, J.R. WALTON (1973) MEASUREMENT OF NITROGEN AND NITROGEN ISOTOPIC RATIOS USING REDUCTION PYROLYSIS COUPLED WITH MASS SPECTROMETRY, ANALYTICAL LETTERS, 6: 951-960.
73COR 01	R. CORNELIS, A. SPEECKE AND J. HOSTE (1973) A MULTI-ELEMENT SERUM STANDARD FOR NEUTRON ACTIVATION ANALYSIS, ANALYTICA CHIMICA ACTA, 68: 1-10.
73GIA 01	R. D. GIAUQUE, F. S. GOULDING, J. M. JAKLEVIC, AND R. H. PEHL (1973), TRACE ELEMENT DETERMINATION WITH SEMICONDUCTOR DETECTOR X-RAY SPECTROMETERS, ANALYTICAL CHEMISTRY, 45: 671-681.
73HEM 01	D.D. HEMPHILL (EDITOR) (1973) PROCEEDINGS OF THE SEVENTH ANNUAL CONFERENCE ON TRACE SUBSTANCES IN ENVIRONMENTAL HEALTH, UNIVERSITY OF MISSOURI, COLUMBIA, MISSOURI.
73HEY 01	K. HEYDORN AND E. DAMSGAARD (1973) SIMULTANEOUS DETERMINATION OF ARSENIC, MANGANESE, AND SELENIUM IN BIOLOGICAL MATERIALS BY NEUTRON-ACTIVATION ANALYSIS, TALANTA, 20: 1-11.
73KAR 01	S. S. KARACKI AND F. L. CORCORAN (1973) COAL ASH ANALYSIS WITH AN ARGON PLASMA EMISSION EXCITATION SOURCE, APPLIED SPECTROSCOPY, 27: 41-42.
73LEB 01	P. J. LEBLANC AND A. L. JACKSON (1973) DRY ASHING TECHNIQUE FOR THE DETERMINATION OF ARSENIC IN MARINE FISH, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 56: 383-386.
73LO 01	F.-C. LO AND B. BUSH (1973) MODIFIED PROCEDURE FOR DETERMINING HG IN COAL BY COLD VAPOR ATOMIC ABSORPTION SPECTROPHOTOMETRY, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 56: 1509-1510.
73LOO 01	J. C. VAN LOON, J. LICHWA, AND D. RUTTAN (1973) A STUDY OF THE DETERMINATION AND DISTRIBUTION OF CADMIUM IN SAMPLES COLLECTED IN A HEAVILY INDUSTRIALIZED AND URBANIZED REGION (METROPOLITAN TORONTO), INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 3: 147-160.
73LOO 03	J. C. VAN LOON AND J. LICHWA (1973) A STUDY OF THE ATOMIC ABSORPTION DETERMINATION OF SOME IMPORTANT HEAVY METALS IN FERTILIZERS AND DOMESTIC SEWAGE PLANT SLUDGES, ENVIRONMENTAL LETTERS, 4: 1-8.
73NAD 01	R. A. NADKARNI AND G. H. MORRISON (1973) MULTIELEMENT INSTRUMENTAL NEUTRON ACITVATION ANALYSIS OF BIOLOGICAL MATERIALS, ANALYTICAL CHEMISTRY, 45: 1957-1960.
73PIE 01	J. O. PIERCE, A. ABU-SAMRA, D. FEHLAUER, T. CLEVENGER, AND J. VOGT (1973), IN TRACE ELEMENTS IN RELATION TO CARDIOVASCULAR DISEASES, IAEA, VIENNA, P.103,FROM REF 80HEY 01
73RAM 01	E. R. RAMBALDI (1973) VARIATION IN THE COMPOSITION OF PLACIOCLASE AND EPIDOTE IN SOME METAMORPHIC ROCKS NEAR BANCROFT, ONTARIO, CANADIAN JOURNAL OF EARTH SCIENCES, 10: 852-868.
73SEG 01	D. A. SEGAR AND J. L. GILIO (1973) THE DETERMINATION OF TRACE TRANSITION ELEMENTS IN BIOLOGICAL TISSUES USING FLAMELESS ATOM RESERVOIR ATOMIC ABSORPTION, INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 2: 291-301.
73SHA 01	L. SHAPIRO (1973) RAPID DETERMINATION OF SULFUR IN ROCKS, JOURNAL OF RESEARCH OF THE U. S. GEOLOGICAL SURVEY, 1: 81-84.
73SHE 01	D. W. SHEIBLEY (1973) TRACE ELEMENTS IN INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS FOR POLLUTION MONITORING, IN 73BAB 01, PP. 98-117.
73SPA 01	C. J. SPARKS,JR., O.B. CAVIN, L.A. HARRIS, J.C. OGLE (1973) SIMPLE, QUANTITATIVE X-RAY FLUORESCENT ANALYSIS FOR TRACE ELEMENTS, PP. 361-368, IN 73HEM 01.

CODE	N	DESCRIPTION
73STE	01	E. STEINNES (1973) IN TRACE ELEMENTS IN RELATION TO CARDIOVASCULAR DISEASES, IAEA TECHNICAL REPORT 157, VIENNA, P. 149; FROM 78BYR 01.
73TAL	01	Y. TALMI AND R. CROSMUN (1973) APPLICABILITY OF THE RF-FURNACE TECHNIQUE FOR AA AND AE ANALYSES OF TRACE ELEMENTS IN ENVIRONMENTAL SAMPLES, PP. 379-383, IN 73HEM 01.
73THO	01	A. D. THOMAS AND L. E. SMYTHE (1973) RAPID DESTRUCTION OF PLANT MATERIAL WITH CONCENTRATED NITRIC ACID VAPOUR (VAPOUR PHASE OXIDATION), TALANTA, 20: 469-475.
73TJI	01	P. S. TJIOE, J. J. M. DE GOEIJ, AND J. P. W. HOUTMAN (1973) AUTOMATED CHEMICAL SEPARATIONS IN ROUTINE ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 16: 153-164.
74ALV	01	R. ALVAREZ (1974) SUB-MICROGRAM PER GRAM CONCENTRATIONS OF MERCURY IN ORCHARD LEAVES DETERMINED BY ISOTOPE DILUTION AND SPARK-SOURCE MASS SPECTROMETRY, ANALYTICA CHIMICA ACTA, 73: 33-38.
74AND	01	L. W. ANDERSON AND L. ACS (1974) SELENIUM IN NORTH AMERICAN PAPER PULPS, ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 8: 462-464.
74BEC	01	R.R. BECKER, A. VEGLIA, E.R. SCHMID (1974) INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF STANDARD BIOLOGICAL MATERIALS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 19: 343-354.
74BER	01	J. BERGHOLZ, J. LUCK, P. MOLLER, AND W. SZACKI (1974) FUNKENQUELLEN-MASSENSPEKTROMETRISCHE ANALYSE DES NBS-SRM 610 (3 MM) STANDARDS, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 269: 121.
74BOP	01	B. BOPPEL (1974) BLEIGEHALTE VON LEBENSMITTELN. ZUR ANALYTIK DER BLEIBESTIMMUNG IN LEBENSMITTELN, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 268: 114-119.
74BRA	03	D. V. BRADY, J. G. MONTALVO, J. JUNG, AND R. CURRAN (1974) DIRECT DETERMINATION OF LEAD IN PLANT LEAVES VIA GRAPHITE FURNACE ATOMIC ABSORPTION, ATOMIC ABSORPTION NEWSLETTER, 13: 118-119.
74BUS	02	K. W. BUSCH, N. G. HOWELL, AND G. H. MORRISON (1974) ELIMINATION OF INTERFERENCES IN FLAME SPECTROMETRY USING SPECTRAL STRIPPING. ANALYTICAL CHEMISTRY, 46: 2074-2079.
74BYR	01	A. R. BYRNE (1974) NEUTRON ACTIVATION ANALYSIS OF TIN IN BIOLOGICAL MATERIALS AND THEIR ASH USING SN-123 AND SN-125, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 20: 627-637.
74BYR	02	F. P. BYRNE (1974) THE ANALYST AND ACCURACY, IN 74LAF 01, PP. 123-125.
74BYR	03	A. R. BYRNE AND L. KOSTA (1974) SIMULTANEOUS NEUTRON-ACTIVATION DETERMINATION OF SELENIUM AND MERCURY IN BIOLOGICAL SAMPLES BY VOLATILIZATION, TALANTA, 21: 1083-1090.
74CAR	01	B. S. CARPENTER AND P. D. LAFLEUR (1974) NITROGEN DETERMINATION IN BIOLOGICAL MATERIALS BY THE NUCLEAR TRACK TECHNIQUE, ANALYTICAL CHEMISTRY, 46: 1112-1113.
74CAR	02	B. S. CARPENTER (1974) LITHIUM DETERMINATIONS BY THE NUCLEAR TRACK TECHNIQUE, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 19: 233-234.
74CAR	03	V. CARAMELLA-CRESPI, U. PISANI, M. T. GANZERLI-VALENTINI, S. MELONI, AND V. MAXIA (1974), DETERMINATION OF SOME NOBLE METALS AND COPPER BY DESTRUCTIVE NEUTRON ACTIVATION ANALYSIS OF DIFFERENT MATRICES, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 23: 23-31.
74CAR	05	B. S. CARPENTER AND G. M. REIMER (1974) HOMOGENEITY CONSIDERATIONS IN TRACE ANALYSES USING THE NUCLEAR TRACK TECHNIQUE, IN 74LAF 01, PP. 457-459.
74CHA	01	A. CHATTOPADHYAY AND R. E. JERVIS (1974) MULTIELEMENT DETERMINATION IN MARKET-GARDEN SOILS BY INSTRUMENTAL PHOTON ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 46: 1630-1639.
74CHO	02	T. J. CHOW, C. C. PATTERSON, D. SETTLE (1974) OCCURRENCE OF LEAD IN TUNA, NATURE, 251: 159-161.
74CHU	01	M. R. CHURCH AND W. H. ROBISON (1974) A RAPID, ROUTINE ATOMIC ABSORPTION SPECTROMETRY METHOD FOR THE DETERMINATION OF SELENIUM AT SUB-MICROGRAM LEVELS IN ANIMAL TISSUE, INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 3: 323-331.
74CHU	03	D. A. CHURCH, T. HADEISHI, L. LEONG, R. D. MCLAUGHLIN, AND B. D. ZAK (1974), TWO-CHAMBER FURNACE FOR FLAMELESS ATOMIC ABSORPTION SPECTROMETRY, ANALYTICAL CHEMISTRY, 46: 1352-1355.
74COP	01	T. R. COPELAND, R. A. OYSTERYOUNG, AND R. K. SKOGERBOE (1974 ELIMINATION OF COPPER-ZINC INTERMETALLIC INTERFERENCES IN ANODIC STRIPPING VOLTAMMETRY, ANALYTICAL CHEMISTRY, 46: 2093-2097.
74COR	01	R. P. CORNIER (1974) RADIOMETRIC AGE OF THE KEPPOCH FORMATION, BROWNS MOUNTAIN GROUP, NORTHERN MAINLAND OF NOVA SCOTIA, CANADIAN JOURNAL OF EARTH SCIENCES, 11: 1325-1329.
74CRE	01	G. L. CRENSHAW AND H. W. LAKIN (1974) A SENSITIVE AND RAPID METHOD FOR THE DETERMINATION OF TRACE AMOUNTS OF SELENIUM IN GEOLOGICAL MATERIALS, JOURNAL OF RESEARCH OF THE U. S. GEOLOGICAL SURVEY, 2: 483-487.
74DAU	01	E.H. DAUGHTREY, JR. AND W.W. HARRISON (1974) ANALYSIS FOR TRACE LEVELS OF BORON BY ION-EXCHANGE-HOLLOW CATHODE EMISSION, ANALYTICA CHIMICA ACTA, 72: 225-230.
74DON	01	I. Y. DONEV AND L. M. MARICHKOVA (1974) DETERMINATION OF ELEMENTS IN STANDARD MATERIAL (BOVINE LIVER SRM 1577), IN 74LAF 01, PP. 1293-1303.
74ERD	01	G. ERDTMANN AND O. ABOULWAFA (1974) SELECTIVE CHEMICAL SEPARATION PROCEDURES FOR ACTIVATION ANALYSIS: II. SEPARATION OF ARSENIC BY COLUMN EXTRACTION WITH TIN(II)ETHYLXANTHATE. DETERMINATION IN TITANIUM DIOXIDE OF HIGH ANTIMONY CONTENT AND IN BIOLOGICAL MATERIAL, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 272: 105-114.
74FEL	01	C. FELDMAN (1974) PERCHLORIC ACID PROCEDURE FOR WET-ASHING ORGANICS FOR THE DETERMINATION OF MERCURY (AND OTHER METALS), ANALYTICAL CHEMISTRY, 46: 1606-1609.
74FIT	01	W. F. FITZGERALD, W. B. LYONS, AND C. D. HUNT (1974) COLD-TRAP PRECONCENTRATION METHOD FOR THE DETERMINATION OF MERCURY IN SEA WATER AND IN OTHER NATURAL MATERIALS, ANALYTICAL CHEMISTRY, 46: 1882-1885.
74FLO	01	T. M. FLORENCE, Y. J. FARRAR, L. DALE, AND G. BATLEY (1974) BERYLLIUM CONTENT OF NBS STANDARD REFERENCE ORCHARD LEAVES, ANALYTICAL CHEMISTRY, 46: 1874-1876.
74FRI	01	M. H. FRIEDMAN, E. MILLER, J. T. TANNER (1974) INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS FOR MERCURY IN DOGS AIMINISTERED METHYLMERCURY CHLORIDE: USE OF A LOW ENERGY PHOTON DETECTOR, ANALYTICAL CHEMISTRY, 46: 236-239.
74GAL	01	M. GALLORINI AND E. ORVINI (1974) DETERMINATION OF ZINC IN ENVIRONMENTAL MATRICES: A COMPARISON OF RESULTS OBTAINED BY INDEPENDENT METHODS, IN 74LAF 01, PP. 239-245.
74GOE	01	J.J.M. DE GOEIJ, V.P. GUINN, D.R. YOUNG, A.J. MEARNS (1974) NEUTRON ACTIVATION ANALYSIS TRACE-ELEMENT STUDIES OF DOVER SOLE LIVER AND MARINE SEDIMENTS, IN COMPARATIVE STUDIES OF FOOD AND ENVIRONMENTAL CONTAMINATION, PROCEEDINGS SERIES, IAEA, VIENNA, 1974, PP. 193-196.
74GRO	01	S. B. GROSS AND E. S. PARKINSON (1974) ANALYSES OF METALS IN HUMAN TISSUES USING BASE (TMAH) DIGESTS AND GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROPHOTOMETRY, ATOMIC ABSORPTION NEWSLETTER, 13: 107-108.

CODE N DESCRIPTION

74GUI 01 V. P. GUINN, R. KISHORE (1974)
RESULTS FROM MULTI-TRACE-ELEMENT NEUTRON ACTIVATION ANALYSES OF MARINE BIOLOGICAL SPECIMENS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 19: 367-371.

74HEM 01 D.D. HEMPHILL (EDITOR) (1974)
PROCEEDINGS OF THE EIGHTH ANNUAL CONFERENCE ON TRACE SUBSTANCES IN ENVIRONMENTAL HEALTH, UNIVERSITY OF MISSOURI, COLUMBIA, MISSOURI.

74HEN 01 T. E. HENZLER, R. J. KORDA, P. A. HELMKE, M. R. ANDERSON, M. M. JIMENEZ, AND L. A. HASKIN (1974), AN ACCURATE PROCEDURE FOR MULTIELEMENT NEUTRON ACTIVATION ANALYSIS OF TRACE ELEMENTS IN BIOLOGICAL MATERIALS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 20: 649-663.

74HEY 01 K. HEYDORN (1974)
DETECTION OF SYSTEMATIC ERRORS BY THE ANALYSIS OF PRECISION, IN 74LAF 01, PP. 127-134.

74HIC 01 J. E. HICKS, J. E. FLEENOR AND H. SMITH (1974)
THE RAPID DETERMINATION OF SULFUR IN COAL, ANALYTICA CHIMICA ACTA, 68: 480-483.

74HOF 01 G. L. HOFFMAN, P. R. WALSH, AND M. P. DOYLE (1974)
DETERMINATION OF A GEOMETRY AND DEAD TIME CORRECTION FACTOR FOR NEUTRON ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 46: 492-496.

74IHN 01 M. IHNAT AND R. J. WESTERBY (1974)
APPLICATION OF FLAMELESS ATOMIZATION TO THE ATOMIC ABSORPTION DETERMINATION OF SELENIUM IN BIOLOGICAL SAMPLES, ANALYTICAL LETTERS, 7: 257-265.

74LAF 01 P. D. LAFLEUR (EDITOR) (1974)
ACCURACY IN TRACE ANALYSIS: SAMPLING, SAMPLE HANDLING, AND ANALYSIS, PROCEEDINGS OF THE SEVENTH IMR SYMPOSIUM, NATIONAL BUREAU OF STANDARDS SPECIAL PUBLICATION 422.

74LEI 01 O. W. LEISURE AND O. E. OLSON (1974)
USE OF THE AOAC FLUOROMETRIC METHOD FOR SELENIUM IN PLANTS FOR THE ANALYSIS OF PAPERS AND TOBACCOS, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 57: 658-661.

74LI 01 R. T. LI AND D. M. HERCULES (1974)
DETERMINATION OF CHROMIUM IN BIOLOGICAL SAMPLES USING CHEMILUMINESCENCE, ANALYTICAL CHEMISTRY, 46: 916-919.

74LIN 01 R. VAN DER LINDEN, F. DE CORTE, AND J. HOSTE (1974)
ACTIVATION ANALYSIS OF BIOLOGICAL MATERIAL WITH RUTHENIUM AS A MULTI-ISOTOPIC COMPARATOR, ANALYTICA CHIMICA ACTA, 71: 263-275.

74LOO 01 J. C. VAN LOON AND E. J. BROOKER (1974)
A SIMPLIFIED METHOD FOR DETERMINING ARSENIC AND ANTIMONY BY THE HYDRIDE EVOLUTION-ATOMIC ABSORPTION METHOD, ANALYTICAL LETTERS, 7: 505-513.

74LUT 01 G. J. LUTZ (1974)
THE ANALYSIS OF BIOLOGICAL AND ENVIRONMENTAL SAMPLES FOR LEAD BY PHOTON ACTIVATION, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 19: 239-244.

74MAI 01 E. J. MAIENTHAL (1974)
THE APPLICATION OF LINEAR SWEEP VOLTAMMETRY TO THE DETERMINATION OF TRACE ELEMENTS IN BIOLOGICAL AND ENVIRONMENTAL MATERIALS, PP. 243-246, IN 74HEM 01.

74MAS 01 R. MASIRONI (1974)
TRACE ELEMENTS IN RELATION TO CARDIOVASCULAR DISEASES, WHO STATUS REPORT, WHO OFFSET PUBLICATION NO. 5.

74MCC 01 L. T. MCCLENDON (1974)
SELECTIVE DETERMINATION OF CHROMIUM IN BIOLOGICAL AND ENVIRONMENTAL MATRICES, PP. 255-257, IN 74HEM 01.

74MOO 01 L. J. MOORE, L. A. MACHIAN, W. R. SHIELDS, AND E. L. GARNER (1974), INTERNAL NORMALIZATION TECHNIQUES FOR HIGH ACCURACY ISOTOPE DILUTION ANALYSES - APPLICATION TO MOLYBDENUM AND NICKEL IN STANDARD REFERENCE MATERIALS, ANALYTICAL CHEMISTRY 46: 1082-1089.

CODE N DESCRIPTION

74NAD 02 R. A. NADKARNI (1974)
RE-EVALUATION OF ARSENIC CONCENTRATION IN THE BIOLOGICAL STANDARDS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 19: 127-134.

74OND 01 J. M. ONDOV, W. H. ZOLLER, I. OLMEZ, N. K. ARAS, G. GORDON, L. A. RANCITELLI, K. H. ABEL, R. H. FILBY, K. R. SHAH, AND R. C. RAGAINI (1974), FOUR-LABORATORY COMPARATIVE INSTRUMENTAL NUCLEAR ANALYSIS OF THE NBS COAL AND FLY ASH STANDARD REFERENCE MATERIALS, IN 74LAF 01, PP. 211-218.

74ORV 01 E. ORVINI, T. E. GILLS, AND P. D. LAFLEUR (1974)
METHOD FOR DETERMINATION OF SELENIUM, ARSENIC, ZINC, CADMIUM, AND MERCURY IN ENVIRONMENTAL MATRICES BY NEUTRON ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 46: 1294-1297.

74RAI 01 T. C. RAINS AND O. MENIS (1974)
AN INTERCOMPARISON OF FLAME AND NONFLAME SYSTEMS IN ATOMIC ABSORPTION SPECTROMETRY, IN 74LAF 01, PP. 1045-1051.

74RAI 02 T. C. RAINS, M. S. EPSTEIN, AND O. MENIS (1974)
AUTOMATIC CORRECTION SYSTEM FOR LIGHT SCATTER IN ATOMIC FLUORESCENCE SPECTROMETRY, ANALYTICAL CHEMISTRY, 46: 207-210.

74RAN 02 L.A. RANCITELLI, J.A. COOPER, R.W. PERKINS (1974)
MULTI-ELEMENT CHARACTERIZATION OF ATMOSPHERIC AEROSOLS BY NEUTRON ACTIVATION AND DIRECT GAMMA-RAY ANALYSIS, AND X-RAY FLUORESCENCE ANALYSIS, IN COMPARATIVE STUDIES OF FOOD AND ENVIRONMENTAL CONTAMINATION, PROCEEDINGS SERIES, IAEA, VIENNA, 1974, PP. 440-444.

74RAV 01 V. RAVNIK, M. DERMELJ, AND L. KOSTA (1974)
A HIGHLY SELECTIVE DIETHYLDITHIOCARBAMATE EXTRACTION SYSTEM IN ACTIVATION ANALYSIS OF COPPER, INDIUM, MANGANESE, AND ZINC: APPLICATION TO THE ANALYSIS OF STANDARD REFERENCE MATERIALS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 20: 443-453.

74REU 01 F. W. REUTER AND W. L. RAYNOLDS (1974)
TITLE UNKNOWN, IN PROTEIN-METAL INTERACTIONS, M. FRIEDMAN, EDITOR, PLENUM PRESS, NEW YORK, P. 621; TAKEN FROM 78DAH 01.

74RIC 01 E. RICCI, T. H. HANDLEY, AND F. F. DYER (1974)
ANALYSIS OR TRACES AT ORNL'S NEW HIGH-FLUX NEUTRON ACTIVATION LABORATORY, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 19: 141-148.

74ROO 01 H.L. ROOK, P.D. LA FLEUR, J.E. SUDDUETH (1974)
TRACE ELEMENT DETERMINATION USING A HIGH YIELD ELECTROMAGNETIC ISOTOPE SEPARATOR AND NEUTRON ACTIVATION-THE DETERMINATION OF CADMIUM, NUCLEAR INSTRUMENTS AND METHODS, 116: 379-386.

74ROS 02 K. J. R. ROSMAN AND J. R. DE LAETER (1974)
MASS SPECTROMETRIC ISOTOPE DILUTION ANALYSES OF CADMIUM IN STANDARD ROCKS, CHEMICAL GEOLOGY, 13: 69-74.

74RUN 01 L.M. RUNDLE (1974)
A COMBUSTION METHOD FOR THE DETERMINATION OF TOTAL SULPHUR IN LIMESTONES, ANALYST, 99: 163-165.

74SCH 03 R. SCHELENZ AND J.-F. DIEHL (1974)
A STUDY INTO THE ACCURACY OF A REMOTE-CONTROLLED SYSTEM FOR MULTIELEMENT DETERMINATION IN FOODSTUFFS USING NAA, IN 74LAF 01, PP. 1173-1180.

74SHA 01 L. SHAPIRO (1974)
SPECTROPHOTOMETRIC DETERMINATION OF SILICA AT HIGH CONCENTRATIONS USING FLUORIDE AS A DEPOLYMERIZER, JOURNAL OF RESEARCH OF THE U.S. GEOLOGICAL SURVEY, 2: 357.

74SIE 02 D. SIEMER AND R. WOODRIFF (1974)
APPLICATION OF THE CARBON ROD ATOMIZER TO THE DETERMINATION OF MERCURY IN THE GASEOUS PRODUCTS OF OXYGEN COMBUSTION OF SOLID SAMPLES, ANALYTICAL CHEMISTRY, 46: 597-598.

74SLE 01 G. SLEGERS AND A. CLAEYS (1974)
SPECTROPHOTOMETRIC DETERMINATION OF MAGNESIUM IN TOBACCO LEAVES WITH ERIOCHROME BLACK B, ANALYST, 99: 471-475.

74TAL 02 Y. TALMI AND A. W. ANDREN (1974)
DETERMINATION OF SELENIUM IN ENVIRONMENTAL SAMPLES USING GAS CHROMATOGRAPHY WITH A MICROWAVE EMISSION SPECTROMETRIC DETECTION SYSTEM, ANALYTICAL CHEMISTRY, 46: 2122-2126.

CODE N	DESCRIPTION
74TAM 01	N. TAMURA (1974) ACCURACY IN THE NONDESTRUCTIVE NEUTRON ACTIVATION ANALYSIS OF COAL AND BERYLLIUM FOR MINOR AND TRACE ELEMENTS USING COBALT AS A FLUX DETERMINANT, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 18: 135-142.
74THO 01	J. THOMAS AND H. J. GLUSKOTER (1974) DETERMINATION OF FLUORIDE IN COAL WITH THE FLUORIDE ION-SELECTIVE ELECTRODE, ANALYTICAL CHEMISTRY, 46: 1321-1323.
74ULL 01	P. A. ULLUCCI AND J. Y. HWANG (1974) DETERMINATION OF CADMIUM IN BIOLOGICAL MATERIALS BY ATOMIC ABSORPTION, TALANTA, 21: 745-750.
74WAH 01	J. S. WAHLBERG (1974) UNPUBLISHED DATA; QUOTED IN 74CRE 01.
74WEA 01	J. N. WEAVER (1974) RAPID, INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS FOR THE DETERMINATION OF URANIUM IN ENVIRONMENTAL MATRICES, ANALYTICAL CHEMISTRY, 46: 1292-1294.
74WES 01	H. WESCH AND A. BINDL (1974) ANALYSIS OF 11 ELEMENTS IN BIOLOGICAL MATERIAL: COMPARISON OF NEUTRON ACTIVATION ANALYSIS AND ATOMIC ABSORPTION ANALYSIS, IN 74LAF 01, PP. 231-235.
74WOL 01	W. R. WOLF AND F. E. GREENE (1974) PREPARATION OF BIOLOGICAL MATERIALS FOR CHROMIUM ANALYSIS, IN 74LAF 01, PP. 605-610.
75ABU 01	A. ABU-SAMA, J. S. MORRIS, AND S. R. KOIRTYOHANN (1975) WET ASHING OF SOME BIOLOGICAL SAMPLES IN A MICROWAVE OVEN, ANALYTICAL CHEMISTRY, 47: 1475-1477.
75AND 01	R. W. ANDREWS AND D. C. JOHNSON (1975) VOLTAMMETRIC DEPOSITION AND STRIPPING OF SELENIUM(IV) AT A ROTATING GOLD-DISK ELECTRODE IN 0.1 M PERCHLORIC ACID, ANALYTICAL CHEMISTRY, 47: 294-299.
75BEH 01	D. BEHNE, P. BRATTER, AND W. WOLTERS (1975) BESTIMMUNG VON BLEI IN BIOLOGISCHEN MATERIALIEN MIT HILFE DER FLAMMENLOSEN ATOMABSORPTIONSSPEKTROMETRIE, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 277: 355-358.
75BLO 01	E. R. BLOOD AND G. C. GRANT (1975) DETERMINATION OF CADMIUM IN FISH TISSUE BY FLAMELESS ATOMIC ABSORPTION WITH A TANTALUM RIBBON, ANALYTICAL CHEMISTRY, 47: 1438-1441.
75BOL 01	B. A. BOLTON AND P. K. HOPKE (1975) THE USE OF INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS FOR THE DETERMINATION OF ARSENIC CONCENTRATIONS IN POULTRY, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 25: 299-302.
75BOL 02	H. J. BOLLINGBERG (1975) GEOCHEMICAL PROSPECTING USING SEAWEED, SHELLFISH AND FISH, GEOCHIMICA ET COSMOCHIMICA ACTA, 39: 1567-1570.
75CAM 01	J. L. CAMPBELL, B. H. ORR, A. W. HERMAN, L. A. MCNELLES, J. A. THOMPSON, AND W. B. COOK (1975), TRACE ELEMENT ANALYSIS OF FLUIDS BY PROTON-INDUCED X-RAY FLUORESCENCE SPECTROMETRY, ANALYTICAL CHEMISTRY, 47: 1542-1553.
75EPS 01	M. S. EPSTEIN, T. C. RAINS AND O. MENIS (1975) DETERMINATION OF CADMIUM AND ZINC IN STANDARD REFERENCE MATERIALS BY ATOMIC FLUORESCENCE SPECTROMETRY WITH AUTOMATIC SCATTER CORRECTION, CANADIAN JOURNAL OF SPECTROSCOPY, 20: 22-26.
75GLA 01	E. S. GLADNEY AND H. L. ROOK (1975) SIMULTANEOUS DETERMINATION OF TELLURIUM AND URANIUM BY NEUTRON ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 47: 1554-1557.
75GUI 01	V. P. GUINN, M. A. PURCELL, AND W. W. WADMAN (1975) INTERNATIONAL SYMPOSIUM ON DEVELOPMENT OF NUCLEAR BASED TECHNIQUES FOR MEASUREMENT, DETECTION, AND CONTROL OF ENVIRONMENTAL POLLUTANTS, VIENNA, IAEA-SM-206, PAPER 30.
75HAG 01	L. HAGEMAN, L. TORMA AND B. GINTHER (1975) ANALYSIS OF FEED GRAINS AND FORAGES FOR TRACES OF COBALT BY FLAMELESS ATOMIC ABSORPTION SPECTROSCOPY, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 58: 990-994.
75HAL 01	C. HALVORSEN AND E. STEINNES (1975) SIMPLE AND PRECISE DETERMINATION OF ZN AND CD IN HUMAN LIVER BY NEUTRON ACTIVATION ANALYSIS, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 274: 199-202.
75HEI 01	H. HEINRICHS (1975) DETERMINATION OF MERCURY IN WATER, ROCKS, COAL, AND PETROLEUM WITH FLAMELESS ATOMIC ABSORPTION SPECTROPHOTOMETRY ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 273: 197-201.
75HIN 01	T. A. HINNERS (1975) ATOMIC ABSORPTION ANALYSIS OF LIVER WITHOUT ASHING, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 277: 377-378.
75ISA 01	R. A. ISAAC AND W. C. JOHNSON (1975) COLLABORATIVE STUDY OF WET AND DRY ASHING TECHNIQUES FOR THE ELEMENTAL ANALYSIS OF PLANT TISSUE BY ATOMIC ABSORPTION SPECTROPHOTOMETRY, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 58: 436-440.
75JON 01	J. B. JONES (1975) COLLABORATIVE STUDY OF THE ELEMENTAL ANALYSIS OF PLANT TISSUE BY DIRECT READING EMISSION SPECROSCOPY, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 58: 764-769; LABORATORY 1.
75JON 02	IBID., LABORATORY 2.
75JON 03	IBID., LABORATORY 3.
75JON 04	IBID., LABORATORY 4.
75JON 05	IBID., LABORATORY 5.
75JON 06	IBID., LABORATORY 6.
75JON 07	IBID., LABORATORY 7.
75JON 08	IBID., LABORATORY 8.
75JON 09	IBID., LABORATORY 9.
75JON 10	IBID., LABORATORY 10.
75JON 11	IBID., LABORATORY 11.
75KLE 01	D. H. KLEIN, A. W. ANDREN, J. A. CARTER, J. F. EMERY, C. FELDMAN, W. FULKERSON, W. S. LYON, J. C. OGLE, Y. TALMI, R. I. VAN HOOK, AND N. BOLTON (1975) PATHWAYS OF THIRTY-SEVEN TRACE ELEMENTS THROUGH COAL-FIRED POWER PLANT, ENVIRONMNETAL SCIENCE AND TECHNOLOGY, 9: 973-978.
75KOI 01	H. KOIZUMI AND K. YASUDA (1975) NEW ZEEMAN METHOD FOR ATOMIC ABSORPTION SPECTROPHOTOMETRY, ANALYTICAL CHEMISTRY, 47: 1679-1682.
75LIE 01	P. LIEVENS, R. CORNELIS, AND J. HOSTE (1975) A SEPARATION SCHEME FOR THE DETERMINATION OF TRACE ELEMENTS IN BIOLOGICAL MATERIALS BY NEUTRON ACTIVATION ANALYSIS, ANALYTICA CHIMICA ACTA, 80: 97-108.
75LIT 01	R. LITMAN, H. L. FINSTON, AND E. T. WILLIAMS (1975) EVALUATION OF SAMPLE PRETREATMENTS FOR MERCURY DETERMINATION ANALYTICAL CHEMISTRY, 47: 2364-2369.
75MAN 01	D. C. MANNING (1975) ASPIRATING SMALL VOLUME SAMPLES IN FLAME ATOMIC ABSORPTION SPECTROSCOPY, ATOMIC ABSORPTION NEWSLETTER, 14: 99-102.
75MAZ 01	B. MAZIERE, J. GROS, AND D. COMAR (1975) POSSIBILITES ET LIMITES DE L'ANALYSE D'ECHANTILLONS BIOLOGIQUES PAR ACTIVATION NEUTRONIQUE DERRIERE ECRAN DE CADMIUM, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 24: 279-293.
75MCG 01	J. R. MCGINLEY AND E. A. SCHWEIKERT (1975) DETERMINATION OF LITHIUM, BORON, AND CARBON BY QUASI-PROMPT CHARGED PARTICLE ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 47: 2403-2407.

CODE N DESCRIPTION

75MIL 01 H. T. MILLARD AND V. W. SWANSON (1975)
NEUTRON ACTIVATION ANALYSIS OF COALS USING INSTRUMENTAL TECHNIQUES, TRANSACTIONS OF THE AMERICAN NUCLEAR SOCIETY, 21: 108-109.

75MUR 01 J. MURPHY (1975)
DETERMINATION OF MERCURY IN COALS BY PEROXIDE DIGESTION AND COLD VAPOR ATOMIC ABSORPTION SPECTROPHOTOMETRY, ATOMIC ABSORPTION NEWSLETTER, 14: 151-152.

75NAD 02 R. A. NADKARNI (1975)
MULTIELEMENT ANALYSIS OF COAL AND COAL FLY ASH STANDARDS BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 21: 161-176.

75OLS 01 O. E. OLSON, I. S. PALMER, AND E. E. CARY (1975)
MODIFICATION OF THE OFFICIAL FLUOROMETRIC METHOD FOR SELENIUM IN PLANTS, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 58: 117-121.

75OND 01 J. M. ONDOV, W. H. ZOLLER, I. OLMEZ, N. K. ARAS, G. E. GORDON, L. A. RANCITELLI, K. H. ABEL, R. H. FILBY, K. R. SHAH, AND R. C. RAGAINI (1975)
ELEMENTAL CONCENTRATIONS IN THE NATIONAL BUREAU OF STANDARDS ENVIRONMENTAL COAL AND FLY ASH STANDARD REFERENCE MATERIALS, ANALYTICAL CHEMISTRY, 47: 1102-1109.

75OWE 01 J. W. OWENS AND E. S. GLADNEY (1975)
DETERMINATION OF BERYLLIUM IN ENVIRONMENTAL MATERIALS BY FLAMELESS ATOMIC ABSORPTION SPECTROSCOPY, ATOMIC ABSORPTION NEWSLETTER, 14: 76-77.

75PEC 01 E. S. PECK (1975)
SPECTROGRAPHIC DETERMINATION OF MERCURY IN ROCKS AND COAL, ANALYTICA CHIMICA ACTA, 80: 75-83.

75PIC 01 C. J. PICKFORD AND G. ROSSI (1975)
DETERMINATION OF SOME TRACE ELEMENTS IN NBS (SRM-1577) BOVINE LIVER USING FLAMELESS ATOMIC ABSORPTION AND SOLID SAMPLING, ATOMIC ABSORPTION NEWSLETTER, 14: 78-80.

75PIE 01 R. PIETRA, E. SABBIONI AND F. GIRARDI (1975)
DETERMINATION OF CA, MG, NI AND SI IN BIOLOGICAL MATERIALS BY NEUTRON ACTIVATION AND CERENKOV COUNTING, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 22: 243-250.

75PUF 01 J. H. PUFFER AND R. S. COHEN (1975)
FIELD DETERMINATION OF SODIUM AND POTASSIUM IN FELDSPARS BY ION-SELECTIVE ELECTRODES, CHEMICAL GEOLOGY, 15: 217-222.

75REU 01 F. W. REUTER III (1975)
NUMERICAL MATRIX CORRECTION TECHNIQUE FOR THE MEASUREMENT OF TRACE ELEMENTS IN PLANT MATERIALS BY X-RAY FLUORESCENCE SPECTROMETRY, ANALYTICAL CHEMISTRY, 47: 1763-1766.

75RIC 01 E. RICCI (1975)
METHODOLOGY FOR HIGH-FLUX ABSOLUTE MULTIELEMENT NEUTRON ACTIVATION ANALYSIS-ENVIRONMENTAL BASELINES BY ANALYSIS OF TREE RINGS, ANALYTICA CHIMICA ACTA, 79: 109-124.

75RUC 01 R. R. RUCH, R. A. CAHILL, J. K. FROST, L. R. CAMP AND H. J. GLUSKOTER (1975), TRACE ELEMENTS IN COALS OF THE UNITED STATES DETERMINED BY ACTIVATION ANALYSIS AND OTHER TECHNIQUES, TRANSACTIONS OF THE AMERICAN NUCLEAR SOCIETY, 21: 107-108.

75SIE 01 D. D. SIEMER AND L. HAGEMANN (1975)
AN IMPROVED HYDRIDE GENERATION-ATOMIC ABSORPTION APPARATUS FOR SELENIUM DETERMINATION, ANALYTICAL LETTERS, 8: 323-337.

75SLA 01 S. SLAVIN, G. E. PETERSON, AND P. C. LINDAHL (1975)
DETERMINATION OF HEAVY METALS IN MEATS BY ATOMIC ABSORPTION SPECTROSCOPY. ATOMIC ABSORPTION NEWSLETTER. 14: 57-59.

75SME 01 J. SMEYERS-VEBEDE, G. SEGEBARTH, AND D. L. MASSART (1975)
THE DETERMINATION OF COPPER AND MANGANESE IN SMALL BIOLOGICAL SAMPLES WITH GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETRY, ATOMIC ABSORPTION NEWSLETTER, 14: 153-154.

75STE 02 E. STEINNES (1975)
A TWO-GROUP SEPARATION SCHEME FOR THE DETERMINATION OF 11 TRACE ELEMENTS IN BIOLOGICAL MATERIAL BY NEUTRON ACTIVATION ANALYSIS, ANALYTICA CHIMICA ACTA, 78: 307-315.

CODE N DESCRIPTION

75TAL 01 Y. TALMI AND V. E. NORVELL (1975)
DETERMINATION OF ARSENIC AND ANTIMONY IN ENVIRONMENTAL SAMPLES USING GAS CHROMATOGRAPHY WITH A MICROWAVE EMISSION SPECTROMETRIC SYSTEM, ANALYTICAL CHEMISTRY, 47: 1510-1516.

75THO 01 C. P. THOMAS (1975)
AN INTEGRATED-INTENSITY METHOD FOR EMISSION SPECTROGRAPHIC COMPUTER ANALYSIS, JOURNAL OF RESEARCH OF THE U.S. GEOLOGICAL SURVEY, 3: 181-185.

75WEL 02 R. M. WELCH, AND E. E. CARY (1975)
TITLE UNKNOWN, IN JOURNAL OF AGRICULTURE AND FOOD CHEMISTRY, 23: TAKEN FROM 78BYR 01.

75WIM 01 J. W. WIMBERLEY (1975)
THE DETERMINATION OF TOTAL MERCURY AT THE PART PER BILLION LEVEL IN SOILS, ORES, AND ORGANIC MATERIALS, ANALYTICA CHIMICA ACTA, 76: 337-343.

75WOR 01 G. J. WORRELL, T. J. VICKERS AND F. D. WILLIAMS (1975)
A SOLVENT EXTRACTION-ATOMIC FLUORESCENCE SYSTEM FOR THE DETERMINATION OF CADMIUM IN COMPLEX SAMPLES, ANALYTICA CHIMICA ACTA, 75: 453-456.

76AGG 01 J. AGGETT AND A.C. ASPELL (1976)
THE DETERMINATION OF ARSENIC(III) AND TOTAL ARSENIC BY ATOMIC-ABSORPTION SPECTROSCOPY, ANALYST, 101: 341-347.

76AND 01 R. W. ANDREWS AND D. C. JOHNSON (1976)
DETERMINATION OF SELENIUM(IV) BY ANODIC STRIPPING VOLTAMMETRY IN FLOW SYSTEM WITH ION EXCHANGE SEPARATION, ANALYTICAL CHEMISTRY, 48: 1056-1060.

76BAT 01 L. C. BATE, S. E. LINDBERG, AND A. W. ANDERN (1976)
ELEMENTAL ANALYSIS OF WATER AND AIR SOLIDS BY NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 32: 125-135.

76BLO 01 C. BLOCK, R. DAMS, AND J. HOSTE (1976)
CHEMICAL COMPOSITION OF COAL AND FLY ASH, IN 76IAE 01, PP. 101-110.

76CAV 01 P. CAVALLI AND G. ROSSI (1976)
DETERMINATION OF SUBMICROGRAM AMOUNTS OF MERCURY IN VARIOUS MATRICES BY FLAMELESS ATOMIC-FLUORESCENCE SPECTROMETRY, ANALYST, 101: 272-277.

76CHA 01 A. CHATTOPADHYAY (1976)
MULTIELEMENT INSTRUMENTAL PHOTON ACITVATION ANALYSIS OF DIGESTED SEWAGE SLUDGES, IN 76IAE 01, PP. 383-403.

76DER 01 M. DERMELJ, V. RAVNIK, AND L. KOSTA (1976)
A FAST ISOLATION AND DETERMINATION OF CD IN SOME FUNGI, OTHER BIOLOGICAL MATERIALS, SOIL AND ZN METAL BY NAA, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS 24: 91-102.

76DIK 01 M. DIKSIC AND H.O. MC CRADY (1976)
FAST DETERMINATION OF SELENIUM IN BIOLOGICAL MATERIALS BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS. RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 26: 89-94.

76DOG 01 S. DOGAN AND W. HAERDI (1976)
SOME APPLICATIONS OF RAPID SEPARATION OF MERCURY ON METALLIC COPPER TO ENVIRONMENTAL SAMPLES WITH DETERMINATION BY FLAMELESS ATOMIC ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 84: 89-96.

76EPS 01 M. S. EPSTEIN, T. C. RAINS, AND T. C. O'HAVER (1976)
WAVELENGTH MODULATION FOR BACKGROUND CORRECTION IN GRAPHITE FURNACE ATOMIC EMISSION SPECTROMETRY, APPLIED SPECTROSCOPY, 30: 324-329.

76EPS 02 M. S. EPSTEIN (1976)
PRIVATE COMMUNICATION, NATIONAL BUREAU OF STANDARDS; TAKEN FROM 76ZAN 01.

76FIO 01 J. A. FIORINO, J. W. JONES, AND S. G. CAPAR (1976)
SEQUENTIAL DETERMINATION OF ARSENIC, SELENIUM, ANTIMONY,AND TELLURIUM IN FOODS VIA RAPID HYDRIDE EVOLUTION AND ATOMIC ABSORPTION SPECTROMETRY, ANALYTICAL CHEMISTRY, 48: 120-125.

76FUK 01 M. FUKAMI, S. TODA, AND K. FUWA (1976)
DEVELOPMENT OF A NEW TYPE LOW TEMPERATURE ASHER FOR SMALL AMOUNT OF BIOLOGICAL SAMPLE, BUNSEKI KAGAKU, 25: 282-284.

CODE	N	DESCRIPTION
76GAL	01	M. GALLORINI, M. DI CASA, R. STELLA, N. GENOVA, *AND E. ORVINI* (1976), MULTIELEMENT TRACE ANALYSIS BY *ATOMIC ABSORPTION* SPECTROMETRY AND NEUTRON ACTIVATION ANALYSIS IN BIOLOGICAL MATRICES, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 32: 17-23.
76GAN	01	R. GANAPATHY, G. M. PAPIA, *AND* L. GROSSMAN (1976) *THE* ABUNDANCES OF ZIRCONIUM AND HAFNIUM IN THE SOLAR SYSTEM, EARTH AND PLANETARY SCIENCE LETTERS, 29: 302-308.
76GAU	01	A. GAUDRY, B. MAZIERE, D. COMAR, AND D. NAU (1976) MULTI-ELEMENT ANALYSIS OF BIOLOGICAL SAMPLES AFTER INTENSE NEUTRON IRRADIATION AND FAST CHEMICAL SEPARATION, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 29: 77-87.
76GLA	01	E. S. GLADNEY, E. T. JURNEY, AND D. B. CURTIS (1976) NONDESTRUCTIVE DETERMINATION OF BORON AND CADMIUM IN ENVIRONMENTAL MATERIALS BY THERMAL NEUTRON-PROMPT GAMMA-RAY SPECTROMETRY, ANALYTICAL CHEMISTRY, 48: 2139-2142.
76GLA	02	E. S. GLADNEY AND J. W. OWENS (1976) BERYLLIUM EMISSIONS FOR A COAL-FIRED POWER PLANT, JORUNAL OF ENVIRONMENTAL SCIENCE *AND* HEALTH, A11: 297-311.
76GUI	01	V. P. GUINN, M. A. PURCELL, AND W. W. WAIMAN (1976) *MEASUREMENT* OF VANADIUM *IN OCEANOGRAPHIC/ENVIRONMENTAL* SAMPLES BY NEUTRON *ACTIVATION* ANALYSIS WITH PRE-IRRADIATION SEPARATION, IN 76IAE 01, PP. 407-412.
76GUZ	01	G. GUZZI, R. PIETRA, AND E. SABBIONI (1976) DETERMINATION OF 25 ELEMENTS IN BIOLOGICAL STANDARD *REFERENCE MATERIALS* BY NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 34: 35-57.
76HAD	01	T. HADEISHI AND R. D. MCLAUGHLIN (1976) ZEEMAN ATOMIC ABSORPTION DETERMINATION OF LEAD WITH A DUAL CHAMBER FURNACE, ANALYTICAL CHEMISTRY, 48: 1009-1011.
76HAN	01	R. G. V. HANCOCK (1976) LOW FLUX MULTIELEMENT *INSTRUMENTAL* NEUTRON ACTIVATION ANALYSIS IN ARCHAEOMETRY, ANALYTICAL CHEMISTRY, 48: 1443-1445.
76HOW	01	N. G. *HOWELL, J. D. GANJEI, AND G.* H. MORRISON (1976) INTERNAL-STANDARDIZATION IN FLAME ANALYSES USING A VIDICON *SPECTROMETER*, ANALYTICAL CHEMISTRY, 48: 319-326.
76IAE	01	INTERNATIONAL ATOMIC ENERGY AGENCY (1976) PROCEEDINGS OF AN INTERNATIONAL SYMPOSIUM ON THE DEVELOPMENT OF NUCLEAR-BASED TECHNIQUES FOR THE *MEASUREMENT, DETECTION, AND CONTROL OF* ENVIRONMENTAL POLLUTANTS, VIENNA.
76IHN	01	M. IHNAT (1976) ATOMIC ABSORPTION SPECTROMETRIC DETERMINATION OF SELENIUM WITH CARBON FURNACE ATOMIZATION, ANALYTICA CHIMICA ACTA, 82, 293-309.
76KAT	02	T. KATO, K. MASUMOTO, N. SATO, AND N. SUZUKI (1976) THE YIELDS OF PHOTONUCLEAR REACTIONS FOR MULTIELEMENT PHOTON-ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 32: 51-70.
76KAT	*03*	*T.* KATO, N. SATO, AND N. SUZUKI (1976) NON-DESTRUCTIVE MULTI-ELEMENT *PHOTO*ACTIVATION ANALYSIS OF ENVIRONMENTAL MATERIALS, TALANTA, 23: 517-524.
76KAT	04	T. KATO, N. SATO AND N. SUZUKI (1976) MULTIELEMENT PHOTON ACTIVATION ANALYSIS OF BIOLOGICAL MATERIALS, ANALYTICA CHIMICA ACTA, 81: 337-347.
76KOI	01	H. KOIZUMI AND K. YASUDA (1976) DETERMINATION OF LEAD, CADMIUM, AND ZINC USING THE ZEEMAN *EFFECT IN* ATOMIC ABSORPTION SPECTROMETRY, ANALYTICAL CHEMISTRY, 48: 1178-1182.
76KRI	03	K. V. KRISHNAMURTY, E. SHPIRT, AND M. M. REDDY (1976) TRACE METAL EXTRACTION OF SOILS *AND SEDIMENTS* BY NITRIC ACID-HYDROGEN PEROXIDE, *ATOMIC* ABSORPTION NEWSLETTER, 15: *68-70.*
76KUC	01	E. T. KUCERA AND R. R. HEINRICH (1976) MULTIELEMENT TRACE ANALYSIS OF COALS, ASHES, AND RELATED MATERIALS FROM COAL-TREATMENT FACILITIES BY INSTRUMENTAL NEUTRON ACITVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY. 32: 137-150.
76LAN	01	F. J. LANGMYHR AND J. AAMODT (1976) ATOMIC ABSORPTION SPECTROMETRIC DETERMINATION OF SOME TRACE METALS IN FISH MEAL AND BOVINE LIVER BY THE SOLID SAMPLING TECHNIQUE, ANALYTICA CHIMICA ACTA, 87: 483-486.
76MCC	03	M. T. MCCULLOCH, J. R. DE LAETER, AND K. J. R. ROSMAN (1976) *THE ISOTOPIC* COMPOSITION AND ELEMENTAL ABUNDANCE OF LUTETIUM IN METEORITES AND TERRESTRIAL SAMPLES AND THE LU-176 COSMOCHRONOMETER. EARTH AND PLANETARY SCIENCE LETTERS, 28: 308-322.
76MEL	01	S. MELONI, V. CARAMELLA-CRESPI, M. T. GANZERLI-VALENTINI, AND P. BORRONI (1976), ACCURATE *DETERMINATION OF* ARSENIC AND *MERCURY IN REFERENCE MATERIALS BY DESTRUCTIVE NEUTRON* ACTIVATION ANALYSIS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 25: 117-128.
76MEL	03	S. MELONI, V. CARAMELLA-CRESPI, *AND G.* FASSI (1976) DETERMINATION OF SOME BIOELEMENTS IN RICE GRAINS BY NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 34: 113-119.
76MIL	02	D. A. MILLER AND V. P. GUINN (1976) *PRECISION HIGH-SPEED* NEUTRON ACTIVATION *ANALYSIS VIA VERY* SHORT-LIVED *ACTIVITIES*, JOURNAL OF RADIOANALYTICAL CHEMISTRY 32: 179-188.
76OND	01	J. M. ONDOV, R. C. RAGAINI, R. E. HEFT, G. L. FISHER, D. SILBERMAN, AND B. A. PRENTICE (1976), INTERLABORATORY COMPARISON OF *NEUTRON ACTIVATION AND ATOMIC ABSORPTION* ANALYSES OF SIZE-CLASSIFIED STACK FLY ASH, IN METHODS AND STANDARDS FOR ENVIRONMENTAL MEASUREMENT, PROCEEDINGS OF THE 8TH IMR SYMPOSIUM, GAITHERSBURG, MARYLAND, NATIONAL BUREAU OF STANDARDS SPECIAL PUBLICATION 464, PP. 565-569.
76OWE	01	J. W. OWENS AND E. S. GLADNEY (1976) LITHIUM METABORATE FUSION AND THE DETERMINATION OF TRACE METALS IN FLY ASH BY FLAMELESS *ATOMIC ABSORPTION*, ATOMIC ABSORPTION NEWSLETTER, 15: 95-97.
76PIE	01	J. O. PIERCE, F. E. LICHTE, C. R. H. VOGT, A. ABU-SAMRA, T. R. RYAN, S. R. KOIRTYOHANN, AND J. R. *VOGT* (1976) *COMPARISON* OF CHROMIUM DETERMINATIONS IN ENVIRONMENTAL AND *BIOLOGICAL* SAMPLES BY *NEUTRON ACTIVATION* ANALYSIS, ATOMIC ABSORPTION AND GAS CHROMATOGRAPHY, IN 76IAE, PP. 357-360.
76RAG	01	R. C. RAGAINI, R. E. HEFT, AND D. GARVIS (1976) NEUTRON ACTIVATION ANALYSIS AT THE LIVERMORE POOL-TYPE *REACTOR FOR THE ENVIRONMENTAL RESEARCH PROGRAM*, LAWRENCE LIVERMORE LABORATORY REPORT UCRL-52092.
76SIE	01	D. D. SIEMER, P. KOTEEL, AND V. JARIWALA (1976) OPTIMIZATION OF ARSINE GENERATION IN ATOMIC ABSORPTION ARSENIC DETERMINATIONS, ANALYTICAL CHEMISTRY, 48: 836-840.
76STE	01	R. STELLA, N. GENOVA, M. DI CASA, M. GALLORINI, AND E. ORVINI (1976), COMPARATIVE INVESTIGATION OF DIFFERENT RADIOCHEMICAL METHODS FOR CHROMIUM DETERMINATION IN BIOLOGICAL AND *ENVIRONMENTAL* MATRICES, JOURNAL OF RADIOANALYTICAL CHEMISTRY 34: 59-63.
76STE	05	E. STEINNES (1976) INSTRUMENTAL ACTIVATION ANALYSIS OF COAL AND FLY ASH WITH THERMAL AND EPITHERMAL NEUTRONS AND SHORT-LIVED NUCLIDES, ANALYTICA CHIMICA ACTA, 87: 451-462.
76URE	01	A.M. URE AND M.C. MITCHELL (1976) THE DETERMINATION OF CADMIUM IN PLANT MATERIAL AND SOIL EXTRACTS BY SOLVENT EXTRACTION AND *ATOMIC ABSORPTION WITH* A CARBON-ROD ATOMIZER, ANALYTICA CHIMICA ACTA, 87: 283-290.
76VIJ	01	P. N. VIJAN *AND G. R. WOOD* (1976) SEMI-AUTOMATED DETERMINATION OF LEAD BY HYDRIDE GENERATION *AND* ATOMIC-ABSORPTION SPECTROPHOTOMETRY, ANALYST, 101: 966-973.
76VIJ	02	P. N. VIJAN, A. C. RAYNER, D. STURGIS, AND G. R. WOOD (1976) A SEMI-AUTOMATED METHOD FOR THE DETERMINATION OF ARSENIC *IN* SOIL AND VEGETATION BY GAS-PHASE SAMPLING & ATOMIC ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA. 82: 329-336.

CODE N	DESCRIPTION
76WAU 01	R. D. WAUCHOPE (1976) ATOMIC ABSORPTION DETERMINATION OF TRACE QUANTITIES OF ARSENIC: APPLICATION OF A RAPID ARSINE GENERATION TECHNIQUE TO SOIL, WATER, AND PLANT SAMPLES, ATOMIC ABSORPTION NEWSLETTER, 15: 64-67.
76WEW 01	E. M. WEWERKA (1976) TRACE ELEMENT CHARACTERIZATION AND REMOVAL/RECOVERY FROM COAL AND COAL WASTES, LOS ALAMOS SCIENTIFIC LABORATORY REPORT, LA-6498-PR.
76WHI 01	D. WHITEHEAD AND S. A. MALIK (1976) AUTOMATED COLORIMETRIC DETERMINATION OF PHOSPHORUS IN SILICATE ROCKS IN THE PRESENCE OF SILICON, ANALYST, 101: 485-490.
76WIL 01	D.R. WILLIAMS AND J.S. HISLOP (1976) DETERMINATION OF COPPER AND ZINC IN BONE ASH USING ACCELERATOR PRODUCED GAMMA PHOTONS, PROC. ANALYT. DIV. CHEM. SOC. (LONDON), 13: 202-204.
76WOL 01	W. R. WOLF (1976) COUPLED GAS CHROMATOGRAPHY - ATOMIC ABSORPTION SPECTROMETRY FOR THE NANOGRAM DETERMINATION OF CHROMIUM, ANALYTICAL CHEMISTRY, 48: 1717-1720.
76ZAN 01	A. T. ZANDER, T. C. O'HAVER AND P. N. KELIHER (1976) CONTINUUM SOURCE ATOMIC ABSORPTION SPECTROMETRY WITH HIGH RESOLUTION AND WAVELENGTH MODULATION, ANALYTICAL CHEMISTRY, 48: 1166-1175.
76ZAN 02	A. T. ZANDER AND T. C. O'HAVER (1976) IMPROVED ACCURACY IN BACKGROUND CORRECTED ATOMIC ABSORPTION SPECTROMETRY, IN METHODS AND STANDARDS FOR ENVIRONMENTAL MEASUREMENT, PROCEEDINGS OF THE 8TH IMR SYMPOSIUM, GAITHERSBURG, MARYLAND, NATIONAL BUREAU OF STANDARDS SPECIAL PUBLICATION 464, PP. 53-59.
76ZEI 01	R. ZEISLER, J. B. CROSS, AND E. A. SCHWEIKERT (1976) TRACE ELEMENTAL ANALYSIS BY HEAVY ION INDUCED X-RAY EMISSION ANALYTICAL CHEMISTRY, 48: 2124-2129.
77AND 01	W. L. ANDERSON AND K. E. SMITH (1977) DYNAMICS OF MERCURY AT COAL-FIRED POWER PLANT AND ADJACENT COOLING LAKE, ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 11: 75-80.
77ARU 01	P. ARUSCAVAGE (1977) DETERMINATION OF ARSENIC, ANTIMONY, AND SELENIUM IN COAL BY ATOMIC ABSORPTION SPECTROMETRY WITH A GRAPHITE TUBE ATOMIZER JOURNAL OF RESEARCH OF THE UNITED STATES GEOLOGICAL SURVEY, 5: 405-408.
77BAJ 02	S. BAJO AND A. WYTTENBACH (1977) LIQUID-LIQUID EXTRACTION OF CADMIUM WITH DIETHYLDITHIOCARBAMIC ACID, ANALYTICAL CHEMISTRY, 49: 158-161.
77BAN 03	S. BANDO AND T. IMAHASHI (1977) DETERMINATION OF ARSENIC, MERCURY, AND SELENIUM IN BIOLOGICAL STANDARD REFERENCE MATERIALS BY NEUTRON ACTIVATION ANALYSIS, BUNSEKI KAGAKU, 26: 138-140.
77BUO 01	J. A. BUONO, J. C. BUONO, AND J. L. FASCHING (1977) SIMULTANEOUS DETERMINATION OF AL, V, MN, AND CU FROM NEUTRON-ACTIVATED SALINE MATRICES BY PRECIPITATION WITH POLY-5-VINYL-8-HYDROXYQUINOLINE, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 36: 353-358.
77BUR 01	R. W. BURKE AND B. I. DIAMONDSTONE (1977) PROCEDURES FOR THE DETERMINATION OF ARSENIC, COPPER, AND NICKEL BY MOLECULAR ABSORPTION SPECTROMETRY, IN 77MAV 01, PP. 73-84.
77BYR 01	A. R. BYRNE (1977) ACTIVATION ANALYSIS OF TIN AT NANOGRAM LEVEL BY LIQUID SCINTILLATION COUNTING OF SN-121, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 591-597.
77CAH 01	R. A. CAHILL (1977) TAKEN FROM 77GLU 01.
77CAM 01	J. L. CAMPBELL (1977) SPECIMEN PREPARATION IN PIXE ANALYSIS, NUCLEAR INSTRUMENTS AND METHODS, 142: 263-273.
77CHA 01	A. CHATTOPADHYAY (1977) OPTIMAL USE OF INSTRUMENTAL NEUTRON AND PHOTON ACTIVATION ANALYSES FOR MULTIELEMENT DETERMINATIONS IN SEWAGE SLUDGES, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 785-799.
77CRO 01	J. B. CROSS, R. ZEISLER AND E. A. SCHWEIKERT (1977) HIGH ENERGY HEAVY-ION INDUCED X-RAY EMISSION ANALYSIS, NUCLEAR INSTRUMENTS AND METHODS, 142: 111-119.
77DER 01	M. DERMELJ, V. RAVNIK, AND L. KOSTA (1977) SIMULTANEOUS DETERMINATION OF TRACE ELEMENTS CADMIUM, COPPER, AND ZINC IN DIFFERENT ENVIRONMENTAL SAMPLES BY NEUTRON ACTIVATION ANALYSIS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 28: 231-240.
77DIK 01	M. DIKSIC AND T. F. COLE (1977) FAST DETERMINATION OF MOLYBDENUM AND TELLURIUM BY NEUTRON ACTIVATION ANALYSIS, ANALYTICA CHIMICA ACTA, 93: 261-266.
77DON 01	D. L. DONOHUE, J. A. CARTER, AND J. C. FRANKLIN (1977) SEPARATED ISOTOPES AS INTERNAL STANDARDS IN SPARK SOURCE MASS SPECTROMETRY, ANALYTICAL LETTERS, 10: 371-379.
77EGA 01	A. EGAN, S. A. KERR, AND M. J. MINSKI (1977) DETERMINATION OF SELENIUM IN BIOLOGICAL MATERIALS USING SE-77M (T=17.5 SEC) AND CYCLIC ACTIVATION ANALYSIS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 28: 369-378.
77FEL 01	C. FELDMAN (1977) DETERMINATION OF TRACES OF ARSENIC IN SILICEOUS MATERIALS, ANALYTICAL CHEMISTRY, 49: 825-828.
77FIL 01	R. H. FILBY, K. R. SHAH, AND C. A. SAUTTER (1977) A STUDY OF TRACE ELEMENT DISTRIBUTION IN THE SOLVENT REFINED COAL (SRC) PROCESS USING NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 693-704.
77FLA 01	F. J. FLANAGAN, L. J. SCHWARZ, J. J. ROWE, AND A. DORRZAPF (1977), AVAILABLE CLAY AND FELDSPAR REFERENCE SAMPLES AS STANDARDS FOR ARCHAEOLOGICAL POTTERY STUDIES, GEOSTANDARDS NEWSLETTER, 1: 61-66.
77FLO 01	T. FLORKOWSKI, T. KUC, AND S. PIOREK (1977) DETERMINATION OF TRACE ELEMENTS IN PLANTS BY THE X-RAY FLUORESCENCE ANALYSIS FOR ENVIRONMENTAL POLLUTION INVESTIGATIONS, INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPES, 28: 679-686.
77FRI 01	M. T. FRIEND, C. A. SMITH, AND D. WISHART (1977) ASHING AND WET OXIDATION PROCEDURES FOR THE DETERMINATION OF SOME VOLATILE TRACE METALS IN FOODSTUFFS AND BIOLOGICAL MATERIALS BY AAS, ATOMIC ABSORPTION NEWSLETTER, 16: 46-49.
77FRY 01	R. C. FRY AND M. B. DENTON (1977) HIGH SOLIDS SAMPLE INTRODUCTION FOR FLAME ATOMIC ABSORPTION ANALYSIS, ANALYTICAL CHEMISTRY, 49: 1413-1417.
77FUJ 01	K. FUJIWARA, Y. UMEZAWA, U. NUMATA, K. FUWA, AND S. FUJIWARA, (1977), CARBON ROD ATOMIC ABSORPTION FOR INTACT CELL SYSTEMS AND BIOLOGICAL TISSUES, BUNSEKI KAGAKU, 26: 735-737.
77GAN 03	S. GANGADHARAN, M. SANKAR DAS, AND S. YEGNASUBRAMANIAN (1977) MEASUREMENT OF ANNIHILATION RADIATION IN ACTIVATION ANALYSIS ENHANCEMENT OF SPECIFICITY THROUGH TRIPLE COINCIDENCE, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 181-187.
77GIA 01	R. D. GIAUQUE, R. B. GARRETT, AND L. Y. GODA (1977) DETERMINATION OF FORTY ELEMENTS IN GEOCHEMICAL SAMPLES AND COAL FLY ASH BY X-RAY FLUORESCENCE SPECTROMETRY, ANALYTICAL CHEMISTRY, 49: 1012-1017.
77GIA 02	R. D. GIAUQUE (1977) PRIVATE COMMUNICATION, LAWRENCE BERKELEY LABORATORY.
77GIL 01	T. E. GILLS AND L. T. MCCLENDON (1977) ROLE OF NEUTRON ACTIVATION ANALYSIS IN THE EVALUATION OF SAMPLING, STORAGE, AND ANALYSIS OF SAMPLES FOR THE NATIONAL ENVIRONMENTAL BANKING SYSTEM, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 39: 285-291.
77GIL 03	T. E. GILLS, M. GALLORINI, AND R. GREENBERG (1977) THE DETERMINATION OF SELECTED TOXIC ELEMENTS IN BIOLOGICAL MATRICES USING RADIOCHEMICAL ACTIVATION ANALYSIS, PP. 597-609. IN 77VOG 01.

CODE N DESCRIPTION

77GLA 01 E. S. GLADNEY (1977)
COPPER DETERMINATION IN STANDARD MATERIALS BY NEUTRON ACTIVATION AND SRAFION NKRR ANION-EXCHANGE RESIN, ANALYTICA CHIMICA ACTA, 91: 353-356.

77GLA 02 E. S. GLADNEY (1977)
DIRECT DETERMINATION OF BERYLLIUM IN NBS SRM 1632 COAL BY FLAMELESS ATOMIC ABSORPTION, ATOMIC ABSORPTION NEWSLETTER, 16: 42-43.

77GLA 03 E. S. GLADNEY AND J. W. OWENS (1977)
DETERMINATION OF MERCURY BY CARRIER-FREE COMBUSTION SEPARATION AND FLAMELESS ATOMIC ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 90: 271-274

77GLU 01 H. J. GLUSKOTER, R. R. RUCH, W. G. MILLER, R. A. CAHILL, G. B. DREHER, AND J. K. KUHN (1977), TRACE ELEMENTS IN COAL: OCCURRENCE AND DISTRIBUTION, ILLINOIS STATE GEOLOGICAL SURVEY, CIRCULAR 499.

77GOO 01 G.C. GOODE, J. HERRINGTON, AND P.C. GODDARD (1977)
NEUTRON ACTIVATION ANALYSIS FOR ALUMINUM IN BONE AND TISSUE SAMPLES, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 31: 87-94.

77GUI 02 V. P. GUINN AND D. A. MILLER (1977)
RECENT INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS STUDIES UTILIZING VERY SHORT-LIVED ACTIVITIES, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 313-324.

77GUI 03 V. P. GUINN, E. R. CHRISTENSEN, K. DE LANCEY (1977)
NEUTRON ACTIVATION ANALYSIS TRACE-ELEMENT STUDIES IN CONNECTION WITH THE OFFSHORE DRILLING FOR OIL, PP. 303-311, IN 77VOG 01.

77GUL 01 B. L. GULSON (1977)
ISOTOPIC AND GEOCHEMICAL STUDIES ON CRUSTAL EFFECTS IN THE GENESIS OF THE WOODLAWN PB-ZN-CU DEPOSIT, CONTRIBUTIONS TO MINERALOGY AND PETROLOGY. 65: 227-242.

77GUZ 01 G. GUZZI, A. COLOMBO, F. GIRARDI, R. PIETRA, G. ROSSI, AND N. TOUSSAINT (1977), COMPARISON OF VARIOUS ANALYTICAL TECHNIQUES FOR HOMOGENEITY TEST OF CANDIDATE STANDARD REFERENCE MATERIALS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 39: 263-276.

77HAM 01 H. HAMAGUCHI, Y. NUMATA, S. IWATA, M. KOYAMA, K. SASAJIMA, Y. KATAYAMA, T. TAKEUCHI, M. SHINOGI, T. MAMURO, Y. KUSAKA, H. TSUJI, T. TAMARI, T. SAGAWA, S. OHMORI, S. NAGATSUKA, Y. TANIZAKI, T. SUSUKI, K. TOMURS, Y. HASHIMOTO, S. BANDO, AND T. IMAHASHI (1977)
PRECISION OF NEUTRON ACTIVATION ANALYSIS FOR ENVIRONMENTAL BIOLOGICAL MATERIALS, BUNSEKI KAGAKU, 26: T23-T28.

77HAM 04 L. G. HAMBLETON (1977)
SEMIAUTOMATED METHOD FOR SIMULTANEOUS DETERMINATION OF PHOSPHORUS, CALCIUM, AND CRUDE PROTEIN IN ANIMAL FEEDS, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 60: 845-852.

77HEY 01 K. HEYDORN, P. Z. SKANBORG, R. GOWZDZ, J. O. SCHMIDT, AND M. E. WACKS (1977), DETERMINATION OF LITHIUM BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 155-168.

77HOP 01 D. M. HOPKINS (1977)
AN IMPROVED ION-SELECTIVE ELECTRODE METHOD FOR THE RAPID DETERMINATION OF FLUORINE IN ROCKS AND SOILS, JOURNAL OF RESEARCH OF THE UNITED STATES GEOLOGICAL SURVEY, 5: 589-593.

77IHN 01 M. IHNAT AND H. J. MILLER (1977)
ACID DIGESTION, HYDRIDE EVOLUTION ATOMIC ABSORPTION SPECTROPHOTOMETRIC METHOD FOR DETERMINING ARSENIC AND SELENIUM IN FOODS: COLLABORATIVE STUDY. PART I., JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 60: 1414-1433.

77IHN 03 M. IHNAT AND H. J. MILLER (1977)
ANALYSIS OF FOODS FOR ARSENIC AND SELENIUM BY ACID DIGESTION HYDRIDE EVOLUTION ATOMIC ABSORPTION SPECTROPHOTOMETRY, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 60: 813-825.

CODE N DESCRIPTION

77JER 01 R. E. JERVIS, B. TIEFENBACH, AND A. CHATTOPADHYAY (1977)
SCALP HAIR AS A MONITOR OF POPULATION EXPOSURE TO ENVIRONMENTAL POLLUTANTS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 751-760.

77JUR 01 E. T. JURNEY, D. B. CURTIS, AND E. S. GLADNEY (1977)
DETERMINATION OF SULFUR IN ENVIRONMENTAL MATERIALS BY THERMAL NEUTRON CAPTURE PROMPT GAMMA-RAY SPECTROMETRY, ANALYTICAL CHEMISTRY, 49: 1741-1743.

77JUR 02 H. JURGENSEN AND D. BEHNE (1977)
VARIATIONS IN TRACE ELEMENT CONCENTRATIONS IN HUMAM BLOOD SERUM IN THE NORMAL STATE INVESTIGATED BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 375-382.

77KON 01 N. K. KONANUR AND G. W. VAN LOON (1977)
DETERMINATION OF LEAD AND ANTIMONY IN FIREARM DISCHARGE RESIDUES ON HANDS BY ANODIC STRIPPING VOLTAMMETRY,TALANTA, 24: 184-187

77KUS 01 Y. KUSAKA, H. TSUJI, Y. TAMARI, T. SAGAWA, S. OHMORI, S. IMAI, AND T. OZAKI (1977), NEUTRON ACTIVATION ANALYSIS OF BIOLOGICALLY ESSENTIAL TRACE ELEMENTS IN ENVIRONMENTAL SPECIMENS USING PYRROLIDINEDITHIOCARBAMATE EXTRACTION, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 917-926.

77LAD 01 W. LADRACH AND J. D. VAN DER LAARSE (1977)
THE DETERMINATION OF TOTAL SULPHUR IN COAL BY A SEMI-MICRO TUBE-COMBUSTION METHOD, ANALYTICA CHIMICA ACTA, 94: 213-216.

77LAN 01 J. LANGE AND H.-J. BRUMSACK (1977)
TOTAL SULPHUR ANALYSIS IN GEOLOGICAL AND BIOLOGICAL MATERIAL BY COULOMETRIC TITRATION FOLLOWING COMBUSTION, ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 286: 361-366.

77LAU 01 J. C. LAUL AND L. A. RANCITELLI (1977)
MULTIELEMENT ANALYSIS BY SEQUENTIAL INSTRUMENTAL AND RADIOCHEMICAL NEUTRON ACTIVATION. JOURNAL OF RADIOANALYTICAL CHEMISTRY, 38: 461-475.

77LAU 02 J. C. LAUL, K. K. NIELSON AND N. A. WOGMAN (1977)
TRACE RARE EARTH ANALYSIS BY NEUTRON ACTIVATION AND GAMMA-RAY/X-RAY SPECTROMETRY, PP. 198-209, IN 77VOG 01.

77LIE 01 F. LIEVENS, J. VERSIECK, R. CORNELIS, AND J. HOSTE (1977)
THE DISTRIBUTION OF TRACE ELEMENTS IN NORMAL HUMAN LIVER DETERMINED BY SEMI-AUTOMATED RADIOCHEMICAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 483-496.

77LOR 01 D. A. LORD, J. W. MCLAREN, AND R. C. WHEELER (1977)
DETERMINATION OF TRACE METALS IN FRESH WATER MUSSELS BY ATOMIC ABSORPTION SPECTROMETRY WITH DIRECT SOLID SAMPLE INJECTION, ANALYTICAL CHEMISTRY, 49: 257-261.

77MAE 01 W. MAENHAUT AND W. H. ZOLLER (1977)
DETERMINATION OF THE CHEMICAL COMPOSITION OF THE SOUTH POLE AEROSOL BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 637-650.

77MAI 01 E. J. MAIENTHAL (1977)
ANALYSIS OF BOTANICAL STANDARD REFERENCE MATERIALS BY CATHODE RAY POLAROGRAPHY, IN 77MAV 01, PP. 91-105.

77MAV 01 R. MAVRODINEANU (EDITOR) (1977)
PROCEDURES USED AT THE NATIONAL BUREAU OF STANDARDS TO DETERMINE SELECTED TRACE ELEMENTS IN BIOLOGICAL AND BOTANICAL MATERIALS, NBS SPECIAL PUBLICATION 492.

77MEL 01 S. MELONI, M.T. GANZERLI-VALENTINI (1977)
NEW IMPROVED CHEMICAL PROCEDURES IN THE NEUTRON ACTIVATION ANALYSIS OF ENVIRONMENTAL SAMPLES, PP. 161-169, IN 77VOG 01.

77MIN 01 M. J. MINSKI, C. A. GIRLING, AND P. J. PETERSON (1977)
DETERMINATION OF GOLD AND ARSENIC IN PLANT MATERIAL BY NEUTRON ACTIVATION ANALYSIS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 30: 179-186.

77MIT 01 J. W. MITCHELL, L. D. BLITZER, T. Y. KOMETANI, T. GILLS, AND L. CLARK (1977), HOMOGENEOUSLY DOPED SILICA MATRICES FOR TRACE ELEMENT STANDARDS IN NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 39: 335-342.

CODE N	DESCRIPTION
77MYR 01	D. R. MYRON, S. H. GIVAND, AND F. H. NIELSEN (1977) VANADIUM CONTENT OF SELECTED FOODS AS DETERMINED BY FLAMELESS ATOMIC ABSORPTION SPECTROSCOPY, JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, 25: 297-300.
77NAD 01	R. A. NADKARNI AND G. H. MORRISON (1977) NEUTRON ACTIVATION DETERMINATION OF NOBLE METALS USING A SELECTIVE GROUP SEPARATION SCHEME, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 38: 435-449.
77NAD 02	R. A. NADKARNI (1977) MULTIELEMENT ANALYSIS OF BIOLOGICAL STANDARDS BY NEUTRON ACTIVATION ANALYSIS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 30: 329-340.
77NIE 01	K. K. NIELSON (1977) MATRIX CORRECTIONS FOR ENERGY DISPERSIVE X-RAY FLUORESCENCE ANALYSIS OF ENVIRONMENTAL SAMPLES WITH COHERENT/INCOHERENT SCATTERED X-RAYS, ANALYTICAL CHEMISTRY, 49: 641-648.
77OHL 01	O. A. OHLWEILER AND J. O. MEDITSCH (1977) DETERMINATION OF SILICA IN SILICATES BY FORMATION OF 12-MOLYBDOSILICIC ACID AND REDOX TITRATION OF MOLYBDENUM(III), TALANTA, 24: 652-654.
77OMI 01	J. OMI AND Y. HASHIMOTO (1977) POST-IRRADIATION CHEMISTRY OF SELENIUM IN NEUTRON ACTIVATION ANALYSIS, BUNSEKI KAGAKU, 26: 419-421.
77OSB 01	T. W. OSBORN AND W. B. BROERING (1977) NEUTRON ACTIVATION ANALYSIS IN AN INDUSTRIAL LABORATORY USING AN OFF-SITE NUCLEAR REACTOR, PP. 185-197, IN 77VOG 01.
77PAC 01	PETROL. ASSOC. CONSERV. CAN. ENVIR. (1977) PACE REPORT NO. 77-5; TAKEN FROM 78BER 02.
77PAR 01	R. M. PARR (1977) PROBLEMS OF CHROMIUM ANALYSIS IN BIOLOGICAL MATERIALS: AN INTERNATIONAL PERSPECTIVE WITH SPECIAL REFERENCE TO RESULTS FOR ANALYTICAL QUALITY CONTROL SAMPLES, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 39: 421-433.
77PAU 01	P. J. PAULSEN (1977) SPARK SOURCE MASS SPECTROMETRIC ISOTOPE DILUTION DETERMINATION OF CADMIUM, COPPER, IRON, LEAD, MERCURY, MOLYBDENUM, NICKEL, SELENIUM, SILVER, TELLURIUM, THALLIUM, AND ZINC, IN 77MAV 01, PP. 33-48.
77PIL 01	A. PILATE, P. GELADI, AND F. ADAMS (1977) DETERMINATION OF ALUMINUM IN AEROSOLS BY FLAMELESS ATOMIC-ABSORPTION SPECTROMETRY, TALANTA, 24, 512-514.
77POO 01	C. F. POOLE, N. J. EVANS, AND D. G. WIBBERLEY (1977) DETERMINATION OF SELENIUM IN BIOLOGICAL SAMPLES BY GAS-LIQUID CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION, JOURNAL OF CHROMATOGRAPHY, 136: 73-83.
77RAI 01	R. M. RAIE, AND H. SMITH (1977) THE DETERMINATION OF SELENIUM IN BIOLOGICAL MATERIAL BY THERMAL NEUTRON ACTIVATION ANALYSIS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 28: 215-220.
77RIN 01	H. A. VAN RINSVELT, R. D. LEAR, AND W. R. ADAMS (1977) HUMAN DISEASES AND TRACE ELEMENTS: INVESTIGATIONS BY PROTON INDUCED X RAY EMISSION, NUCLEAR INSTRUMENTS AND METHODS, 142: 171-180.
77ROO 01	H. L. ROOK (1977) THE DETERMINATION OF IODINE IN BIOLOGICAL AND ENVIRONMENTAL STANDARD REFERENCE MATERIALS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 39: 351-358.
77ROW 03	J. J. ROWE AND E. STEINNES (1977) INSTRUMENTAL ACTIVATION ANALYSIS OF COAL AND FLY ASH WITH THERMAL AND EPITHERMAL NEUTRONS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 849-856.
77ROW 04	J. J. ROWE AND E. STEINNES (1977) DETERMINATION OF 30 ELEMENTS IN COAL AND FLY ASH BY THERMAL AND EPITHERMAL NEUTRON-ACTIVATION ANALYSIS, TALANTA, 24: 433-439.

CODE N	DESCRIPTION
77SEG 01	C. SEGEBADE (1977) SIMULTANE BESTIMMUNG VON N, MG, SI, P, UND K IN PFLANZENMATERIAL DURCH 14 MEV-NEUTRONENAKTIVIERUNGSANALYSE, ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 284: 23-29.
77SHE 02	D. A. SHEARER, R. O. CLOUTIER, AND M. HIDIROGLOU (1977) CHELATE EXTRACTION AND FLAME ATOMIC ABSORPTION SPECTROMETRIC DETERMINATION OF NANOGRAM AMOUNTS OF MANGANESE IN BLOOD AND ANIMAL TISSUE, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 60: 155-159.
77SHU 01	G. T.C. SHUM, H. C. FREEMAN AND J. F. UTHE (1977) FLAMELESS ATOMIC ABSORPTION SPECTROPHOTOMETRY OF SELENIUM IN FISH AND/FOOD PRODUCTS, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 60: 1010-1014.
77SIE 01	D. D. SIEMER, R. K. VITEK, P. KOTEEL, AND W. C. HOUSER (1977) DETERMINATION OF ARSENIC IN BEVERAGES AND FOODS BY HYDRIDE GENERATION ATOMIC ABSORPTION SPECTROMETRY, ANALYTICAL LETTERS, 10: 357-369.
77SMI 01	R. G. SMITH, J. C. VAN LOON, J. R. KNECHTEL, J. L. FRASER, A. E. PITTS, AND A. E. HODGES (1977), A SIMPLE AND RAPID HYDRIDE GENERATION-ATOMIC ABSORPTION METHOD FOR THE DETERMINATION OF ARSENIC IN BIOLOGICAL, ENVIRONMENTAL, AND GEOLOGICAL SAMPLES, ANALYTICA CHIMICA ACTA, 93: 61-67.
77SMI 04	J. SMITS AND R. VAN GRIEKEN (1977) OPTIMIZATION OF A SIMPLE SPOTTING PROCEDURE FOR X-RAY FLUORESCENCE ANALYSIS OF WATERS, ANALYTICA CHIMICA ACTA, 88: 97-107.
77SMI 05	F. SMITH, JR, A. MCMURTRIE, AND H. GALBRAITH (1977) ION CHROMATOGRAPHIC DETERMINATION OF SULFUR AND CHLORINE USING MILLIGRAM AND SUBMILLIGRAM SAMPLE WEIGHTS, MICROCHEMICAL JOURNAL, 22: 45-49.
77SMY 01	W. R. SMYTHE (1977) PRIVATE COMMUNICATION, UNIVERSITY OF COLORADO; TAKEN FROM 77RIN 01.
77STE 02	R. STELLA, N. GENOVA, M. DI CASA (1977) HALOGENS DETERMINATION IN VEGETABLE NBS STANDARD REFERENCE MATERIALS: FLUORINE BY ISOTOPE DILUTION; CHLORINE, BROMINE, IODINE BY NEUTRON ACTIVATION ANALYSIS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 30: 65-74.
77TAG 01	M. TAGUCHI, K. YASUDA, Y. DOKIYA, M. SHIMIZU, AND S. TODA (1977) MERCURY DETERMINATION IN FISH SAMPLES BY FLAMELESS ATOMIC ABSORPTION SPECTROMETRY; SAMPLING AND WET DIGESTION, BUNSEKI KAGAKU, 26: 438-441.
77TAM 01	K. H. TAM AND H. B. S. CONACHER (1977) THE SUITABILITY OF THE DRY ASHING PROCEDURE FOR DETERMINATION OF ARSENIC IN MARINE SAMPLES, JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH, B12: 213-227.
77TIL 01	J. H. TILLMAN (1977) A COMBUSTIMETRIC METHOD FOR DETERMINING THE TOTAL CARBON CONTENT OF GEOLOGICAL MATERIALS, JOURNAL OF RESEARCH OF THE UNITED STATES GEOLOGICAL SURVEY, 5: 583-587.
77TJI 01	P. S. TJIOE, J. J. M. DE GOEIJ, AND J. P. W. HOUTMAN (1977) EXTENDED AUTOMATED SEPARATION TECHNIQUES IN DESTRUCTIVE NEUTRON ACTIVATION ANALYSIS: APPLICATION TO VARIOUS BIOLOGICAL MATERIALS, INCLUDING HUMAN TISSUES AND BLOOD, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 511-522.
77TRO 01	G. TROLL, A. FARZANEH, AND K. CAMMANN (1977) RAPID DETERMINATION OF FLUORIDE IN MINERAL AND ROCK SAMPLES USING AN ION-SELECTIVE ELECTRODE, CHEMICAL GEOLOGY, 20: 295-305.
77TSU 01	K. TSUNODA, K. FUJIWARA, AND K. FUWA (1977) SUBNANOGRAM FLUORINE DETERMINATION BY ALUMINIUM MONOFLUORIDE MOLECULAR ABSORPTION SPECTROMETRY, ANALYTICAL CHEMISTRY, 49: 2035-2039.
77UCH 02	T. UCHIDA, I. KOJIMA AND C. IIDA (1977) "ONE-DROP METHOD" IN FLAME ATOMIC ABSORPTION SPECTROMETRY, BUNSEKI KAGAKU, 26: T44-T47.

CODE N DESCRIPTION

77VAN 01 C. VANDECASTEELE, R. KIEFFER, AND J. HOSTE (1977)
ACTIVATION ANALYSIS WITH CYCLOTRON-PRODUCED FAST NEUTRONS APPLICATION TO INSTRUMENTAL MULTI-ELEMENT ANALYSIS AND TO THE RADIOCHEMICAL DETERMINATION OF FLUORINE, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 255-265.

77VOB 01 M. VOBECZKY, L. PAVLIK, AND J. BENES (1977)
NON-DESTRUCTIVE NEUTRON ACTIVATION ASSAY OF SUBMICROGRAM QUANTITIES OF SELENIUM, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 29: 159-164.

77VOG 01 J.R. VOGT (EDITOR) (1977)
PROCEEDINGS OF THE THIRD INTERNATIONAL CONFERENCE ON NUCLEAR METHODS IN ENVIRONMENTAL AND ENERGY RESEARCH, COLUMBIA, MISSOURI, OCTOBER 1977, CONF-771072.

77WIC 01 W. A. WICKS AND R. W. BURKE (1977)
DETERMINATION OF BERYLLIUM BY FLUORESCENCE SPECTROMETRY, IN 77MAV 01, PP. 85-89.

77WIL 01 D. R. WILLIAMS AND J. S. HISLOP (1977)
THE NON DESTRUCTIVE DETERMINATION OF IODINE IN SOILS AND BIOLOGICAL MATERIALS BY HIGH ENERGY GAMMA-PHOTON ACTIVATION, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 39: 359-373.

77WIL 02 R. D. WILLIS AND R. L. WALTER (1977)
COMPUTER ANALYSIS OF PROTON INDUCED X-RAY EMISSION SPECTRA, NUCLEAR INSTRUMENTS AND METHODS. 142: 231-242.

77WIL 03 R. D. WILLIS, R. L. WALTER, R. W. SHAW, AND W. F. GUTKNECHT (1977), PROTON-INDUCED X-RAY EMISSION ANALYSIS OF THICK AND THIN TARGETS, NUCLEAR INSTRUMENTS AND METHODS, 142: 67-77.

77YAN 01 Y. YANO, N. ODAKA, S. TAKEI, AND K. NAGASHIMA (1977)
DETERMINATION OF TRACE HEAVY METALS IN ENVIRONMENTAL SAMPLES WITH SPECIAL REFERENCE TO LEAD IN PLANTS, BUNSEKI KAGAKU, 26: T25-T29.

77YAS 01 K. YASUDA, M. TAGUCHI, S. TAMURA, AND S. TODA (1977)
DETERMINATION OF SELENIUM IN BIOLOGICAL SAMPLES BY SOLVENT EXTRACTION-GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETRY, BUNSEKI KAGAKU, 26: 442-445.

77YAS 02 A. YASUI AND C. TSUTSUMI (1977)
ADAPTABILITY OF WET DECOMPOSITION METHOD TO FOOD SAMPLES FOR THE DETERMINATION OF ARSENIC BY ARSINE GENERATION-ATOMIC ABSORPTION SPECTROPHOTOMETRY, BUNSEKI KAGAKU, 26: 809-814.

77ZIK 01 I. ZIKOVSKY AND E. A. SCHWEIKERT (1977)
COMPARISON OF NONDESTRUCTIVE PROTON AND NEUTRON ACTIVATION: THE CASE OF BIOLOGICAL SAMPLES, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 37: 571-580.

78ALL 04 R. O. ALLEN AND E. STEINNES (1978)
DETERMINATION OF VANADIUM IN BIOLOGICAL MATERIALS BY RADIOCHEMICAL NEUTRON ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 50: 1553-1555.

78BEA 01 R. D. BEATY AND M. M. COOKSEY (1978)
THE INFLUENCE OF FURNACE CONDITIONS ON MATRIX EFFECTS IN GRAPHITE FURNACE ATOMIC ABSORPTION, ATOMIC ABSORPTION NEWSLETTER, 17: 53-58.

78BEH 01 D. BEHNE AND H. JURGENSEN (1978)
DETERMINATION OF TRACE ELEMENTS IN HUMAN BLOOD SERUM AND IN THE STANDARD REFERENCE MATERIAL "BOVINE LIVER" BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 42: 447-453.

78BER 01 C. BERGERIOUX AND L. ZIKOVSKY (1978)
INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF BREWER'S YEAST, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 47: 173-179.

78BER 02 C. BERGERIOUX AND L. ZIKOVSKY (1978)
DETERMINATION OF 18 TRACE ELEMENTS IN PETROLEUM AND ITS DERIVATIVES BY NEUTRON ACTIVATION WITH A SMALL NUCLEAR REACTOR, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 46: 277-284.

78BYR 01 A. R. BYRNE AND L. KOSTA (1978)
DETERMINATION OF VANADIUM IN BIOLOGICAL MATERIALS AT NANOGRAM LEVEL BY NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 44: 247-264.

CODE N DESCRIPTION

78CAM 02 J. A. CAMPBELL, J. C. LAUL, K. K. NIELSON, AND R. D. SMITH (1978)
SEPARATION AND CHEMICAL CHARACTERIZATION OF FINELY-SIZED FLY-ASH PARTICLES, ANALYTICAL CHEMISTRY, 50: 1032-1040.

78CAP 01 S. G. CAPAR, J. T. TANNER, M. H. FRIEDMAN, AND K. W. BOYER (1978), MULTIELEMENT ANALYSIS OF ANIMAL FEED, ANIMAL WASTES, AND SEWAGE SLUDGE, ENVIRONMETAL SCIENCE AND TECHNOLOGY, 12: 785-790.

78CAR 01 M. B. CARVALHO AND D. M. HERCULES (1978)
TRACE ARSENIC DETERMINATION BY VOLATILIZATION AND X-RAY PHOTOELECTRON SPECTROSCOPY, ANALYTICAL CHEMISTRY, 50: 2030-2034.

78CAR 02 J.A. CARTER, D.L. DONOHUE, J.C. FRANKLIN, AND R.L. WALKER (1978)
TRACE IMPURITIES IN COAL AND FLY ASH BY ISOTOPE DILUTION MASS SPECTROMETRY, PP. 403-420, IN 78KAR 01.

78CAR 03 B. S. CARPENTER, M. D. D'AGOSTINO, AND H. P. YULE (EDITORS) (1978)
COMPUTERS IN ACTIVATION ANALYSIS AND GAMMA-RAY SPECTROSCOPY, PROCEDURES OF THE AMERICAN NUCLEAR SOCIETY, MAYAGUEZ, PUERTO RICO, MAY 1978, CONF-780421.

78DAH 01 R. L. DAHLQUIST AND J. W. KNOLL (1978)
INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY: ANALYSIS OF BIOLOGICAL MATERIALS AND SOILS FOR MAJOR, TRACE, AND ULTRA-TRACE ELEMENTS, APPLIED SPECTROSCOPY, 32: 1-29.

78DAV 01 P. H. DAVIS, G. R. DULUDE, R. M. GRIFFIN, W. R. MATSON, AND E. W. ZINK (1978)
DETERMINATION OF TOTAL ARSENIC AT THE NANOGRAM LEVEL BY HIGH-SPEED ANODIC STRIPPING VOLTAMMETRY, ANALYTICAL CHEMISTRY, 50: 137-143.

78DER 01 M. DERMELJ, J. NOVAK, V. RAVNIK, AND L. KOSTA (1978)
RAPID DETERMINATION OF URANIUM AT THE NANOGRAM LEVEL IN GEOLOGICAL AMD BIOLOGICAL MATERIALS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 44: 271-277.

78EDI 01 R. D. EDIGER, A. R. KNOTT, G. E. PETERSON, AND R. D. BEATY (1978), THE DETERMINATION OF PHOSPHORUS BY ATOMIC ABSORPTION USING THE GRAPHITE FURNACE, ATOMIC ABSORPTION NEWSLETTER, 17: 28-32.

78EGA 01 E. EGAAS AND K. JULSHAMN (1978)
A METHOD FOR THE DETERMINATION OF SELENIUM AND MERCURY IN FISH PRODUCTS USING THE SAME DIGESTION PROCEDURE, ATOMIC ABSORPTION NEWSLETTER. 17: 135-138.

78EPS 01 M. S. EPSTEIN, T. C. RAINS, T. J. BRADY, J. R. MOORE, AND I. L. BARNES (1978), DETERMINATION OF SEVERAL TRACE METALS IN SIMULATED FRESH WATER BY GRAPHITE FURNACE ATOMIC EMISSION SPECTROMETRY, ANALYTICAL CHEMISTRY, 50: 874-880.

78EVA 01 W. H. EVANS, J. I. READ, AND B. E. LUCAS (1978)
EVALUATION OF A METHOD FOR THE DETERMINATION OF TOTAL CADMIUM, LEAD AND NICKEL IN FOODSTUFFS USING MEASUREMENT BY FLAME ATOMIC-ABSORPTION SPECTROPHOTOMETRY, ANALYST, 103: 580-591.

78FLA 01 J. FLANJAK (1978)
ATOMIC ABSORPTION SPECTROMETRIC DETERMINATION OF ARSENIC AND SELENIUM IN OFFAL AND FISH BY HYDRIDE GENERATION, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 61: 1299-1303.

78FUD 01 N. FUDAGAWA AND A. KAWASE (1978)
DETERMINATION OF NICKEL BY GRAPHITE TUBE FURNACE ATOMIC ABSORPTION SPECTROMETRY; APPLICATION TO NICKEL DETERMINATION IN PLANT MATERIALS, BUNSEKI KAGAKU, 27: 37-42.

78FUR 01 A. K. FURR, B. A. ROSCOE, AND T. F. PARKINSON (1978)
VAT-69, A SOFTWARE SYSTEM FOR GAMMA SPECTROSCOPY
PP. 352-366, IN 78CAR 03.

78GAI 01 T. POWELL GAINES AND C. ALLEN MITCHELL (1978)
SAMPLE PREPARATION BY COLUMN ELUTION FOR ELEMENTAL ANALYSIS OF PLANT TISSUE, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 61: 1179-1181.

78GAL 01 M. GALLORINI, R. R. GREENBERG, AND T. E. GILLS (1978)
SIMULTANEOUS DETERMINATION OF ARSENIC, ANTIMONY, CADMIUM, CHROMIUM, COPPER, AND SELENIUM IN ENVIRONMENTAL MATERIALS BY RADIOCHEMICAL NEUTRON ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 50: 1479-1481.

CODE N	DESCRIPTION
78GAN 01	S. GANGADHARAN AND S. YEGNASUBRAMANIAN (1978) ELEMENTAL CHARACTERIZATION THROUGH INSTRUMENTAL NEUTRON ACTIVATION, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 42: 455-462.
78GEL 01	R. GELADI AND F. ADAMS (1978) THE DETERMINATION OF CADMIUM, COPPER, IRON, LEAD AND ZINC IN AEROSOLS BY ATOMIC-ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 96: 229-241.
78GIL 01	T. E. GILLS, M. GALLORINI, AND H. L. ROOK (1978) THE DETERMINATION OF TRACE ELEMENTS IN NEW FOOD GRAIN SRM'S USING NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 46: 21-25.
78GLA 01	E. S. GLADNEY, W. K. HENSLEY, AND M. M. MINOR (1978) COMPARISON OF THREE TECHNIQUES FOR THE MEASUREMENT OF DEPLETED URANIUM IN SOILS, ANALYTICAL CHEMISTRY, 50: 652-653.
78GLA 02	E. S. GLADNEY (1978) DETERMINATION OF ARSENIC, ANTIMONY, MOLYBDENUM, THORIUM, AND TUNGSTEN IN SILICATES BY THERMAL NEUTRON ACTIVATION AND INORGANIC ION EXCHANGE, ANALYTICAL LETTERS, A11: 429-435.
78GLA 04	E. S. GLADNEY, D. B. CURTIS, AND E. T. JURNEY (1978) MULTIELEMENT ANALYSIS OF MAJOR AND MINOR ELEMENTS BY THERMAL NEUTRON INDUCED CAPTURE GAMMA-RAY SPECTROMETRY, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 46: 299-308.
78GOE 01	J.J.M. DE GOEIJ, K.J. VOLKERS, P.S. TJIOE, AND J.J. KROON (1978) NBS SRM 1569 BREWER'S YEAST: IS IT AN ADEQUATE STANDARD REFERENCE MATERIAL FOR TESTING A CHROMIUM DETERMINATION IN BIOLOGICAL MATERIALS?, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 35: 139-146.
78GOR 01	D. T. GORDON (1978) ATOMIC ABSORPTION SPECTROMETRIC AND COLORIMETRIC DETERMINATION OF IRON IN SEAFOODS, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 61: 715-719.
78GRO 01	Z. GROBENSKI, M. MELCHER, AND B. WELZ (1978) RICHTIGKEIT BEI DER BESTIMMUNG VON SPURENELEMENTEN IN LEBENSMITTELN MIT DER GRAPHITROHRTECHNIK AAS, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 290: 144-145.
78GUI 01	R. J. GUIDOBONI (1978) SPARK SOURCE MASS SPECTROMETRY AND ATOMIC ABSORPTION SPECTROMETRY FOR THE DETERMINATION OF TRACE ELEMENTS IN COAL, PP. 421-434, IN 78KAR 01.
78HAY 01	B. W. HAYNES (1978) ELECTROTHERMAL ATOMIC ABSORPTION DETERMINATION OF ARSENIC AND ANTIMONY IN COMBUSTABLE MUNICIPAL SOLID WASTE, ATOMIC ABSORPTION NEWSLETTER, 17: 49-52.
78HIR 01	S. HIRAI, S. SUZUKI, AND M. OKAMOTO (1978) DETERMINATION OF SELENIUM IN BIOLOGICAL MATERIALS BY NEUTRON ACTIVATION ANALYSIS USING SE-77M, BUNSEKI KAGAKU, 27: 435-439.
78HIS 01	J.S. HISLOP (1978) GAMMA ACTIVATION ANALYSIS: AN APPRAISAL, PROCEEDINGS OF THE ANALYTICAL DIVISION OF THE CHEMICAL SOCIETY (LONDON), 15: 193-205.
78JAC 01	C.J. JACKSON, D.G. PORTER, A.L. DENNIS AND P.B. STOCKWELL (1978) AUTOMATED DIGESTION AND EXTRACTION APPARATUS FOR USE IN THE DETERMINATION OF TRACE METALS IN FOODSTUFFS, ANALYST, 103: 317-331.
78JOL 01	R. K. JOLLY, J. R. KANE, D. C. BUCKLE, G. RANDERS-PEHRSON W. TEOH, AND H. ACETO (1978), A TARGET CHAMBER FOR PIXE ANALYSIS USING MICROAMPERE BEAMS OF 4 MEV PROTONS, NUCLEAR INSTRUMENTS AND METHODS, 151: 183-188.
78KAR 01	C. KARR, JR. (EDITOR) (1978) ANALYTICAL METHODS FOR COAL AND COAL PRODUCTS, VOLUME 1, ACADEMIC PRESS, NEW YORK.
78KAT 01	K. KATO (1978) UNPUBLISHED DATA, QUOTED IN 78MAS 01.
78KEL 02	M. T. KELLEY, J. E. RILEY, JR. AND G. GLEASON (1978) NAALSQ: A PROGRAM FOR NEUTRON ACTIVATION ANALYSIS WITH LEAST SQUARES DECONVOLUTION OF THE GAMMA SPECTRA ON A MINICOMPUTER PP. 456-464, IN 78CAR 03.
78KNO 01	A. C. KNOTT, J. C. MILLS AND C. B. BELCHER (1978) SYNTHETIC CALIBRATION STANDARDS FOR OPTICAL EMISSION AND X-RAY SPECTROMETRY, CANADIAN JOURNAL OF SPECTROSCOPY, 23: 105-111.
78KOB 01	K. KOBAYASHI AND K. KUDO (1978) DETERMINATION OF INDIUM, COPPER, AND NICKEL IN GLASSMAKING MATERIALS AND NBS STANDARD REFERENCE MATERIALS BY SUBSTOICHIOMETRIC RADIOACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 46: 265-276.
78KOR 01	G. A. KORBA AND E. S. YEUNG (1978) APPLICATION OF FABRY-PEROT INTERFEROMETRY IN MULTI-ELEMENT FLAME EMISSION ANALYSIS, ANALYTICA CHIMICA ACTA, 99: 209-216.
78KUB 01	H. KUDO, R. BERNTHAL, AND T. R. WILDEMAN (1978) ENERGY DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRIC DETERMINATION OF TRACE ELEMENTS IN OIL SAMPLES, ANALYTICAL CHEMISTRY, 50: 899-903.
78KUB 02	T. KUBOTA AND T. UEDA (1978) ATOMIC ABSORPTION SPECTROPHOTOMETRIC DETERMINATION OF ANTIMONY WITH USE OF BOROHYDRIDE SOLUTION AS REDUCTANT, BUNSEKI KAGAKU, 27: 692-696.
78LAU 02	J.C. LAUL, C.L. WILKERSON, AND V.L. CROW (1978) COMPUTER METHODOLOGY AND ITS APPLICATIONS TO GEOLOGICAL AND ENVIRONMENTAL MATRICES, PP. 840-856, IN 78CAR 03.
78LIN 01	H. R. LINDER, H. D. SELTNER, AND B. SCHREIBER (1978) USE OF DIBENZYLDITHIOCARBAMINATE AS COPRECIPITANT IN THE ROUTINE DETERMINATION OF 12 HEAVY METALS IN PHARMACEUTICALS BY X-RAY FLUORESCENCE SPECTROSCOPY, ANALYTICAL CHEMISTRY, 50: 896-899.
78MAC 01	K. W. MACMURDO AND W. W. BOWMAN (1978) AUTOMATED ABSOLUTE ACTIVATION ANALYSIS WITH CALIFORNIUM-252 SOURCES, REPORT DP-1457, SAVANNAH RIVER LABORATORY, E. I. DUPONT DE NEMOURS AND COMPANY.
78MAS 01	K. MASUMOTO AND N. SUZUKI (1978) SELECTIVE COINCIDENCE SPECTROMETRY IN THE NONDESTRUCTIVE DETERMINATION OF NICKEL IN GEOLOGICAL MATERIALS WITH HIGH ENERGY PHOTON ACTIVATION, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 46: 121-135.
78MAT 01	M. MATTHES, R. FLUCHT, AND M. STOEPPLER (1978) BEITRAGE ZUR AUTOMATISIERTEN SPURENANALYSE, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 291: 20-26.
78MCC 01	L. T. MCCLENDON (1978) DETERMINATION OF CHROMIUM IN BIOLOGICAL MATRICES BY NEUTRON ACTIVATION: APPLICATION TO STANDARD REFERENCE MATERIALS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 42: 85-91.
78MCG 01	J. K. MCGINLEY, G. J. STOCK, E. A. SCHWEIKERT, J. D. CROSE, R. ZEISLER, AND L. ZIKOVSKY (1978), NUCLEAR AND ATOMIC ACTIVATION WITH HEAVY ION BEAMS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 43: 559-573.
78MCK 01	D. M. MCKOWN AND J. S. MORRIS (1978) RAPID MEASUREMENT OF SELENIUM IN BIOLOGICAL SAMPLES USING INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 43: 411-420.
78MOR 01	A. E. MORGAN AND H. W. WERNER (1978) SEMIQUANTITATIVE ANALYSES BY SECONDARY ION MASS SPECTROMETRY USING ONE FITTING PARAMETER, MIKROCHIMICA ACTA (WIEN), 1978 II: 31-50.
78NAD 01	R. A. NADKARNI AND G. H. MORRISON (1978) DETERMINATION OF MOLYBDENUM BY NEUTRON ACTIVATION AND SRAFION NMRR ION EXCHANGE RESIN SEPARATION, ANALYTICAL CHEMISTRY, 50: 294-296.
78NAD 02	R. A. NADKARNI AND G. H. MORRISON (1978) USE OF STANDARD REFERENCE MATERIALS AS MULTIELEMENT IRRADIATION STANDARDS IN NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 43: 347-369.

CODE N DESCRIPTION

78NAK 01 R. NAKASHIMA (1978)
UHF-PLASMA TORCH EMISSION SPECTROMETRY FOR CADMIUM, LEAD AND ZINC BY VAPORIZATION INTRODUCTION, BUNSEKI KAGAKU, 27: 199-203.

78PEL 01 P. A. PELLA, K. E. LORBER, AND K. F. J. HEINRICH (1978)
ENERGY-DISPERSIVE X-RAY SPECTROMETRIC ANALYSIS OF ENVIRONMENTAL SAMPLES AFTER BORATE FUSION, ANALYTICAL CHEMISTRY, 50: 1268-1271.

78PIE 01 Z. PIETRZAK-FLIS, G. L. REHNBERG, M. J. FAVOR, D. F. CAHILL, AND J. W. LASKEY (1978), CHRONIC INGESTION OF CADMIUM AND/OR TRITIUM IN RATS I. ACCUMULATION AND DISTRIBUTION OF CADMIUM IN TWO GENERATIONS, ENVIRONMENTAL RESEARCH, 16: 9-17.

78RIT 01 C. J. RITTER, S. C. BERGMAN, C. R. COTHERN, AND E. E. ZAMIEROWSKI (1978), COMPARISON OF SAMPLE PREPARATION TECHNIQUES FOR ATOMIC ABSORPTION ANALYSIS OF SEWAGE SLUDGE AND SOIL, ATOMIC ABSORPTION NEWSLETTER, 17: 70-72.

78RYA 01 D. E. RYAN, D. C. STUART, AND A. CHATTOPADHYAY (1978)
RAPID MULTIELEMENT NEUTRON ACTIVATION ANALYSIS WITH A SLOWPOKE REACTOR, ANALYTICA CHIMICA ACTA, 100: 87-93.

78SIE 01 D. D. SIEMER AND H. WEI (1978)
DETERMINATION OF LEAD IN ROCKS AND GLASSES BY TEMPERATURE CONTROLLED GRAPHITE CUP ATOMIC ABSORPTION SPECTROMETRY, ANALYTICAL CHEMISTRY, 50: 147-151.

78SMI 01 R. G. SMITH (1978)
SOURCES OF COPPER AND CADMIUM CONTAMINATION IN SMALL BIOLOGICAL SAMPLES, TALANTA, 25: 173-175.

78SUD 01 R. F. SUDDENDORF AND K. W. BOYER (1978)
NEBULIZER FOR ANALYSIS OF HIGH SALT CONTENT SAMPLES WITH INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY, ANALYTICAL CHEMISTRY, 50: 1769-1771.

78SUG 01 A. SUGIMAE AND R. K. SKOGERBOE (1978)
DUAL APPROACH TO THE EMISSION SPECTROGRAPHIC DETERMINATION OF ELEMENTS IN AIRBORNE PARTICULATE MATTER, ANALYTICA CHIMICA ACTA, 97: 1-11.

78SUG 02 A. SUGIMAE (1978)
DETERMINATION OF TRACE AMOUNTS OF RARE EARTH ELEMENTS IN VARIOUS ENVIRONMENTAL SAMPLES BY SPARK SOURCE MASS SPECTROGRAPHY, BUNSEKI KAGAKU, 27: 169-174.

78SZY 01 F. J. SZYDLOWSKI (1978)
USE OF BRANCH CAPILLARY FOR IONIZATION BUFFER ADDITION IN FLAME ATOMIC ABSORPTION SPECTROMETRIC DETERMINATION OF SODIUM AND POTASSIUM IN FOOD PRODUCTS, ATOMIC ABSORPTION NEWSLETTER, 17: 65-69.

78TAK 01 T. TAKAMATSU (1978)
MULTI-ELEMENT ANALYSES OF ROCK AND SEDIMENT SAMPLES BY NON-DISPERSIVE X-RAY FLUORESCENCE, BUNSEKI KAGAKU, 27: 193-198.

78TER 01 S. TERASHIMA (1978)
RAPID DETERMINATION OF TOTAL CARBON AND SULFUR IN GEOLOGICAL MATERIALS BY COMBUSTION AND INFRARED ABSORPTION PHOTOMETRY, ANALYTICA CHIMICA ACTA, 101: 25-31.

78TSU 01 K. TSUNODA, K. FUJIWARA, AND K. FUWA (1978)
DETERMINATION OF CHLORINE AND BROMINE BY MOLECULAR ABSORPTION OF ALUMINIUM MONOHALIDES AT HIGH TEMPERATURE, ANALYTICAL CHEMISTRY, 50: 861-865.

78UEM 01 Y.J. UEMURA, Y. KUNO, H. KOYAMA, T. YAMAZAKI, AND P. KIENLE (1978)
A NEW WAY OF DETERMINING CONCENTRATIONS IN P.I.X.E. TRACE ELEMENT ANALYSIS, NUCLEAR INSTRUMENTS AND METHODS, 153: 573-579.

78URE 01 A. M. URE AND J. R. BACON (1978)
SCANDIUM, YTTRIUM, AND RARE EARTH CONTENT OF WATER LILY, GEOCHIMICA ET COSMOCHIMICA ACTA, 42: 651-652.

78URE 02 A. M. URE, M. P. HERNANDEZ-ARTIGA, AND M. C. MITCHELL (1978)
A CARBON-ROD ATOMIZER FOR THE DETERMINATION OF CADMIUM AND LEAD IN PLANT MATERIALS AND SOIL EXTRACTS, ANALYTICA CHIMICA ACTA, 96: 37-43.

CODE N DESCRIPTION

78VAL 01 I. VALENTE, M. J. MINSKI, AND H. J. M. BOWEN (1978)
RAPID DETERMINATION OF ANTIMONY IN BIOLOGICAL AND ENVIRONMENTAL SAMPLES USING INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 45: 417-421.

78VIS 01 R. D. VIS, K. J. WIEDERSPAHN, AND H. VERHEUL (1978)
THE DETERMINATION OF THE ELEMENTAL COMPOSITION OF GLASSES FOR FORENSIC APPLICATION USING A COMBINATION OF PROTON INDUCED X-RAY EMISSION AND INELASTIC PROTON SCATTERING, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 45: 407-416.

78WAN 01 L. E. WANGEN AND E. S. GLADNEY (1978)
DETERMINATION OF ARSENIC AND GALLIUM IN STANDARD MATERIALS BY INSTRUMENTAL EPITHERMAL NEUTRON ACTIVATION ANALYSIS, ANALYTICA CHIMICA ACTA, 96: 271-277.

78WEA 01 J. N. WEAVER (1978)
NEUTRON ACTIVATION ANALYSIS OF TRACE ELEMENTS IN COAL, FLY ASH, AND FUEL OILS, PP. 377-401, IN 78KAR 01.

78WEE 01 C. A. WEERS, K. HOEDE, AND H. A. DAS (1978)
APPLICATION OF SELECTIVE EVAPORATION IN THE DETERMINATION OF ARSENIC AND BROMINE IN DRY BIOLOGICAL MATERIAL BY THERMAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 42: 113-119.

78WEG 01 W. WEGSCHEIDER, K. E. LORBER, AND K. MULLER (1978)
QUANTITATIVE INTERMETHOD COMPARISON OF ENERGY DISPERSIVE X-RAY FLUORESCENCE AND ATOMIC ABSORPTION SPECTROMETRY FOR THE ANALYSIS OF URBAN DUSTS AND FLY ASH, INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 5: 171-187.

78WEL 01 B. WELZ AND M. MELCHER (1978)
BESTIMMUNG VON ARSEN UND SELEN IN KORPERFLUESSIGKEITEN UND GEWEBEN MIT DER HYDRID-METHODE, FRESENIUS ZEITSCRHIFT FUR ANALYTISCHE CHEMIE, 290: 106-107.

79ABE 01 F. N. ABERCROMBIE, M. D. SILVESTER, AND R. B. CRUZ (1979)
SIMULTANEOUS MULTIELEMENT ANALYSIS OF BIOLOGICALLY RELATED SAMPLES WITH RF-ICP, PP 10-25, IN 79RIS 01.

79ABO 01 M. D. K. ABO-RADY (1979)
SCHWERMETALLBESTIMMUNG IN ZWEI BIOLOGISCHEN UND ZWEI GEOLOGISCHEN STANDARDS MIT HILFE DER ATOM-ABSORPTIONS SPECTROSKOPIE, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 296: 380-382.

79ABU 01 J. ABUKAWA, H. HIGUCHI, K. SATO, S. BANDO, AND H. HAMAGUCHI (1979)
A COMPARISON OF VARIOUS METHODS FOR DETERMINATION OF COBALT IN MARINE BIOLOGICAL MATERIALS, BUBSEKI KAGAKU, 28: 506-508.

79AHM 01 S. AHMAD, M. S. CHAUDHRY, AND I. H. QURESHI (1979)
DETERMINATION OF TOXIC ELEMENTS IN TOBACCO PRODUCTS BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 54: 331-341.

79AND 01 D.L. ANDERSON, M.P. FAILEY, W.H. ZOLLER, ETAL (1979)
NEUTRON-CAPTURE PROMPT GAMMA-RAY ACTIVATION ANALYSIS: MULTI-ELEMENT MEASUREMENTS ON VARIOUS MATERIALS, PP. 546-548, IN 79CHR 01.

79BAR 03 R. M. BARNES (EDITOR) (1979)
APPLICATIONS OF PLASMA EMISSION SPECTROCHEMISTRY, HEYDEN, PHILADELPHIA.

79BEN 01 G. E. BENTLEY, L. MARKOWITZ, AND R. MEGLEN (1979)
ANALYSIS OF MOLYBDENUM IN BIOLOGICAL MATERIALS, PP 35-39, IN 79RIS 01.

79BLO 01 A. J. BLOTCKY, C. FALCONE, V. A. MEDINA, E. P. RACK, AND D. W. HOBSON (1979)
DETERMINATION OF TRACE-LEVEL VANADIUM IN MARINE BIOLOGICAL SAMPLES BY CHEMICAL NEUTRON ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 51: 178-182.

79BOG 01 S. L. BOGDANSKI, I. SHAKIR, W. E. STEPHEN, AND A. TOWNSHEND (1979), DETERMINATION OF TRACE AMOUNTS OF SULPHATE BY MOLECULAR EMISSION CAVITY ANALYSIS USING A VAPORISATION SYSTEM, ANALYST, 104: 886-890.

79BRA 01 F. F. BRAUER AND K. S. SIREBIN (1979)
IN NUCLEAR ACTIVATION TECHNIQUES IN THE LIFE SCIENCES, IAEA, VIENNA, P. 27; TAKEN FROM 80GVA 01.

CODE N DESCRIPTION

79BRE 01 J. J. LA BRECQUE (1979)
INTERFERENCES IN THE DETERMINATION OF TITANIUM IN SILICATE ROCKS AND VENEZUELAN LATERITES BY ATOMIC ABSORPTION SPECTROSCOPY, APPLIED SPECTROSCOPY, 33: 389-393.

79BRE 02 J. J. LA BRECQUE (1979)
DECOMPOSITION AND DETERMINATION OF ALUMINIUM AND SILICON IN VENEZUELAN LATERITES BY ATOMIC ABSORPTION SPECTROSCOPY, CHEMICAL GEOLOGY, 26: 321-329.

79BRI 02 C. BRIHAYE (1979)
ANALYSE DE TRACES PAR LA METHODE ELECTROCHIMIQUE UTILISANT UNE ELECTRODE DISQUE-ANNEAU, DOCTORAL THESIS, UNIVERSITY OF LIEGE, BELGIUM.

79BYR 01 A. R. BYRNE (1979)
EXTRACTION OF SOME TRACE ELEMENTS AS IODIDES WITH METHYLISOBUTYL KETONE AND ITS APPLICATION IN NEUTRON ACTIVATION ANALYSIS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 40: 1-16.

79CAH 01 R. A. CAHILL (1979)
PRIVATE COMMUNICATION, ILLINOIS STATE GEOLOGICAL SURVEY.

79CHA 02 A. CHATTOPADHYAY, K. M. ELLIS, AND K. N. DE SILVA (1979)
IN NUCLEAR ACTIVATION TECHNIQUES IN THE LIFE SCIENCES, IAEA, VIENNA, PP. 667-682, IN 79IAE 01.

79CHA 04 A. CHATTOPADHYAY AND K. N. DESILVA (1979)
PSEUDO-CYCLIC NEUTRON ACTIVATION ANALYSIS OF AG, F, RB, SC, AND SE IN BIOLOGICAL SAMPLES, TRANSACTIONS OF THE AMERICAN NUCLEAR SOCIETY, 32: 185-186.

79CHR 01 R. E. CHRIEN AND W. R. KANE (EDITORS) (1979)
NEUTRON CAPTURE GAMMA RAY SPECTROSCOPY, PLENUM PRESS, NEW YORK.

79COO 01 M. COOKSEY AND W. B. BARNETT (1979)
SEQUENTIAL MULTIELEMENT ATOMIC ABSORPTION ANALYSIS OF AGRICULTURAL SAMPLES, ATOMIC ABSORPTION NEWSLETTER, 18: 1-4.

79COR 01 R. CORNELIS, L. MEES, J. HOSTE, J. RYCKENBUSCH, J. VERSIECK, AND F. BARBIER (1979), IN NUCLEAR TECHNIQUES IN THE LIFE SCIENCES 1978, IAEA, VIENNA, P. 165, FROM REF 80HEY 01.

79CRO 01 J. D. CROSS AND H. SMITH (1979)
THE DETERMINATION OF BROMINE IN BIOLOGICAL MATERIAL BY THERMAL NEUTRON ACTIVATION ANALYSIS,
JOURNAL OF RADIOANALYTICAL CHEMISTRY, 48: 191-196.

79DAB 01 R. W. DABEKA, A. D. MCKENZIE, AND H. CONACHER (1979)
MICRODIFFUSION AND FLUORIDE-SPECIFIC ELECTRODE DETERMINATION OF FLUORIDE IN FOODS, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 62: 1065-1068.

79DAB 02 R. W. DABEKA (1979)
GRAPHITE-FURNACE ATOMIC ABSORPTION SPECTROMETRIC DETERMINATION OF LEAD AND CADMIUM IN FOODS AFTER SOLVENT EXTRACTION AND STRIPPING, ANALYTICAL CHEMISTRY, 51: 902-907.

79DAL 01 L. S. DALE (1979)
THE EMISSION SPECTROGRAPHIC DETERMINATION OF BORON IN SILICATE MATERIALS, APPLIED SPECTROSCOPY, 33: 404-406.

79DAS 01 H. A. DAS, A. FAANHOF, AND H. A. VAN DER SLOOT (1979)
ERRORS IN INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS:
I. DETERMINATION OF THE PEAK AREA, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 54: 289-301.

79DER 01 M. DERMELJ, A. VAKSELJ, V. RAVNIK, AND B. SMODIS (1979)
APPLICABILITY OF CARBAMATE EXTRACTION TO RADIOCHEMICAL SEPARATION AND DETERMINATION OF CADMIUM, COBALT, COPPER, AND ZINC IN VARIOUS BIOSPHERE SAMPLES, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 41: 149-160.

79DES 01 H. B. DESAI, R. K. IYER, AND S. R. KAYASTH (1979)
PRECIPITATION OF MERCURY AS ZINC MERCURO THIOCYANATE, APPLICATION TO ACTIVATION ANALYSIS,
RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 41: 299-306.

79DOG 01 S. DOGAN AND W. HAERDI (1979)
RAPID SEPARATION ON COPPER POWDER OF TOTAL MERCURY IN BLOOD AND DETERMINATION OF MERCURY BY FLAMELESS ATOMIC ABSORPTION, INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 6: 327-334.

CODE N DESCRIPTION

79EDI 01 R. D. EDIGER AND D. L. WILSON (1979)
THE PERFORMANCE OF AN INDUCTIVELY COUPLED PLASMA ON THE MODEL 5000 ATOMIC ABSORPTION SPECTROPHOTOMETER,
ATOMIC ABSORPTION NEWSLETTER, 18: 41-45.

79EPS 01 M. S. EPSTEIN, S. NIKDEL, N. OMENETTO, R. REEVES, J. BRADSHAW, AND J. D. WINEFORDNER (1979)
INDUCTIVELY-COUPLED ARGON PLASMA AS AN EXCITATION SOURCE FOR FLAME ATOMIC FLUORESCENCE SPECTROMETRY,
ANALYTICAL CHEMISRTY, 51: 2071-2077.

79EPS 03 M. S. EPSTEIN AND A. T. ZANDER (1979)
DIRECT DETERMINATION OF BARIUM IN SEA AND ESTUARINE WATER BY GRAPHITE FURNACE ATOMIC SPECTROMETRY, ANALYTICAL CHEMISTRY, 51: 915-918.

79EVA 01 W. H. EVANS, F. J. JACKSON, AND D. DELLAR (1979)
EVALUATION OF A METHOD FOR DETERMINATION OF TOTAL ANTIMONY, ARSENIC AND TIN IN FOODSTUFFS USING MEASUREMENT BY ATOMIC-ABSORPTION SPECTROPHOTOMETRY WITH ATOMISATION IN A SILICA TUBE USING THE HYDRIDE GENERATION TECHNIQUE, ANALYST, 104: 16-30.

79FAA 01 A. FAANHOF AND H. A. DAS (1979)
ANALYSIS OF TOBACCO BY INSTRUMENTAL EPITHERMAL NEUTRON ACTIVATION ANALYSIS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 41: 367-374.

79FAI 01 M. P. FAILEY, D. L. ANDERSON, W. H. ZOLLER, G. E. GORDON, AND R. M. LINDSTROM (1979)
NEUTRON-CAPTURE PROMPT GAMMA-RAY ACTIVATION ANALYSIS FOR MULTIELEMENT DETERMINATION IN COMPLEX SAMPLES,
ANALYTICAL CHEMISTRY, 51: 2208-2221.

79FEL 01 C. FELDMAN (1979)
IMPROVEMENTS IN THE ARSINE ACCUMULATION-HELIUM GLOW DETECTOR PROCEDURE FOR DETERMINING TRACES OF ARSENIC,
ANALYTICAL CHEMISTRY, 51: 664-669.

79FLA 02 J. FLANJAK AND H. Y. LEE (1979)
TRACE METAL CONTENT OF LIVERS AND KIDNEYS OF CATTLE,
JOURNAL OF SCIENCE AND FOOD AGRICULTURE, 30: 503-507.

79GEL 01 P. GELADI AND F. ADAMS (1979)
THE DETERMINATION OF BERYLLIUM AND MANGANESE IN AEROSOLS BY ATOMIC ABSORPTION SPECTROMETRY WITH ELECTROTHERMAL ATOMIZATION, ANALYTICA CHIMICA ACTA, 105: 219-231.

79GIA 01 R. D. GIAUQUE, R. B. GARRETT, AND L. Y. GODA (1979)
DETERMINATION OF TRACE ELEMENTS IN LIGHT ELEMENT MATRICES BY X-RAY FLUORESCENCE SPECTROMETRY WITH INCOHERENT SCATTERED RADIATION AS AN INTERNAL STANDARD,
ANALYTICAL CHEMISTRY, 51: 311-316.

79GIA 03 R. D. GIAUQUE (1979)
PRIVATE COMMUNICATION, LAWRENCE BERKELEY LABORATORY.

79GLA 02 E. S. GLADNEY AND D. R. PERRIN (1979)
DETERMINATION OF BROMINE IN BIOLOGICAL, SOIL, AND GEOLOGICAL STANDARD REFERENCE MATERIALS BY INSTRUMENTAL EPITHERMAL NEUTRON ACTIVATION, ANALYTICAL CHEMISTRY, 51: 2015-2018.

79GLA 03 E. S. GLADNEY AND D. R. PERRIN (1979)
QUANTITATIVE ANALYSIS OF SILICATES BY INSTRUMENTAL EPITHERMAL NEUTRON ACTIVATION USING (N,P) REACTIONS,
ANALYTICAL CHEMISTRY, 51: 2297-2300.

79GLA 04 E. S. GLADNEY, D. B. CURTIS, AND E. T. JURNEY (1979)
SIMULTANEOUS DETERMINATION OF NITROGEN, CARBON, AND HYDROGEN BY THERMAL NEUTRON PROMPT GAMMA-RAY SPECTROMETRY,
ANALYTICA CHIMICA ACTA, 110: 339-343.

79GRE 01 R. R. GREENBERG (1979)
TRACE ELEMENT CHARACTERIZATION OF THE NBS URBAN PARTICULATE MATTER STANDARD REFERENCE MATERIAL BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 51: 2004-2006.

79HEC 01 M. M. HECKMAN (1979)
ANALYSIS OF FOODS FOR IODINE: INTERLABORATORY STUDY,
JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 62: 1045-1048.

CODE N	DESCRIPTION
79HEI 01	H. HEINRICHS (1979) DETERMINATION OF BISMUTH, CADMIUM, AND THALLIUM IN 33 INTERNATIONAL STANDARD REFERENCE ROCKS BY FRACTIONAL DISTILLATION COMBINED WITH FLAMELESS ATOMIC ABSORPTION SPECTROMETRY, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 294: 345-351.
79HEI 03	H. HEINRICHS (1979) DETERMINATION OF LEAD IN GEOLOGICAL AND BIOLOGICAL MATERIALS BY GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETRY, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 295: 355-361.
79HER 01	J. L. HERN (1979) ELEMENTAL ANALYSIS IN AGRICULTURE USING INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROSCOPY, IN 79BAR 03.
79HIL 01	E. P. HILLIARD AND J. D. SMITH (1979) MINIMUM SAMPLE PREPARATION FOR THE DETERMINATION OF TEN ELEMENTS IN PIG FARCES AND FEEDS BY ATOMIC-ABSORPTION SPECTROPHOTOMETRY AND A SPECTROPHOTOMETRIC PROCEDURE FOR TOTAL PHOSPHORUS, ANALYST, 104: 313-322
79HOE 01	D. HOEDE AND H. A. VAN DER SLOOT (1979) APPLICATION OF HYDRIDE GENERATION FOR THE DETERMINATION OF ANTIMONY AND ARSENIC IN BIOLOGICAL MATERIAL BY NEUTRON ACTIVATION ANALYSIS, ANALYTICA CHIMICA ACTA, 111: 321-325.
79HOE 02	M. HOENIG, P. VAN HOEYWEGHEN ET J. LIBOTON (1979) EVALUATION A L'AIDE D'ETALONS INTERNATIONAUX DE DEUX METHODES DE MINERALISATION DES VEGETAUX, *ANALUSIS*, 7: 104-106.
79IAE 01	PROCEEDINGS OF AN INTERNATIONAL SYMPOSIUM ON NUCLEAR ACTIVATION TECHNIQUES IN THE LIFE SCIENCES HELD BY THE IAEA IN VIENNA, MAY 1978, STI/PUB/492, ISBN 92-0-010079-1.
79IMA 01	A. IMAHORI, I. FUKUSHIMA, S. SHIOBARA, Y. YANAGIDA, AND K. TOMURA (1979) MULTIELEMENT NEUTRON ACTIVATION ANALYSIS OF HUMAN SCALP HAIR A LOCAL POPULATION SURVEY IN THE TOKYO METROPOLITAN AREA, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 52: 167-180.
79IMA 03	A. IMAHORI, I. FUKUSHIMA, S. SHIOBARA, K. TOMURA, M. SUZUKI-YASUMOTO, M. YUKAWA, M. TERAI (1979) A STUDY OF TRACE ELEMENT CONCENTRATIONS IN HUMAN HAIR OF SOME LOCAL POPULATIONS IN JAPAN, PP. 563-571, IN 79IAE 01.
79INU 01	T. INUI, N. FUDAGAWA, AND A. KAWASE (1979) EXTRACTION AND ATOMIC ABSORPTION SPECTROMETRIC DETERMINATION OF BISMUTH WITH ELECTROTHERMAL ATOMIZATION, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 299: 190-193.
79JEK 01	R. E. JERVIS, AND B. TIEFENBACH (1979) ARSENIC ACCUMULATION IN PEOPLE WORKING WITH AND LIVING NEAR A GOLD SMELTER, PP. 627-642, IN 79IAE 01.
79JON 01	J. D. JONES, P. B. KAUFMAN, AND W. L. RIGOT (1979) METHOD FOR DETERMINATION OF SILICON IN PLANT MATERIALS BY NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 50: 261-275.
79KAN 02	Y. KANDA AND N. SUZUKI (1979) REDOX SUBSTOICHIOMETRIC DETERMINATION OF ARSENIC IN BIOLOGICAL MATERIALS BY NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 54: 7-14.
79KNE 01	J. R. KNECHTEL AND J. L. FRASER (1979) WET DIGESTION METHOD FOR THE DETERMINATION OF MERCURY IN BIOLOGICAL AND ENVIRONMENTAL SAMPLES, ANALYTICAL CHEMISTRY, 51: 315-317.
79KOB 01	K. KOBAYASHI AND K. KUDO (1979) RAPID DETERMINATION OF INDIUM, NICKEL, AND COPPER IN NBS STANDARD REFERENCE MATERIAL BY SUBSTOICHIOMETRIC RADIOACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 54: 49-58.
79KOB 03	K. KOBAYASHI AND K. KUDO (1979) DETERMINATION OF MULTIELEMENT IN OPTICAL WAVEGUIDE AND STANDARD REFERENCE MATERIALS BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 53: 233-246.
79KRA 01	J. A. KRASOWSKI AND T. R. COPELAND (1979) MATRIX INTERFERENCES IN FURNACE ATOMIC ABSORPTION SPECTROMETRY, ANALYTICAL CHEMISTRY, 51: 1843-1849.
79KUC 01	J. KUCERA (1979) EPITHERMAL NEUTRON ACTIVATION ANALYSIS OF TRACE ELEMENTS IN BIOLOGICAL MATERIALS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 38: 229-246.
79KUE 01	E. C. KUERNER AND P. A. PELLA (1979) ENERGY-DISPERSIVE X-RAY SPECTROMETRIC ANALYSIS OF NBS STANDARD REFERENCE MATERIAL 1571 ORCHARD LEAVES AFTER OXIDATION AND BORATE FUSION, APPLIED SPECTROSCOPY, 33: 632-634.
79LAK 01	E.-L. LAKOMAA AND P. EKLUND (1979) TRACE ELEMENT ANALYSIS OF HUMAN CATARACTOUS LENSES BY NEUTRON ACTIVATION ANALYSIS AND ATOMIC ABSORPTION SPECTROMETRY, PP. 333-343, IN 79IAE 01.
79LIK 01	W. LIKUSSAR (1979) UNTERSUCHUNGEN UBER DAS MORPHOLIN-N-DITHIO-CARBONSAURE MORPHOLINIUM (MDCM) ALS REAGENS IN DER QUANTITATIVEN ANALYTIK X MIKROCHIMICA ACTA (WIEN), 1979,II: 43-52.
79LOC 01	J. LOCKE (1979) THE DETERMINATION OF EIGHT ELEMENTS IN HUMAN LIVER TISSUE BY FLAME ATOMIC ABSORPTION SPECTROMETRY IN SULPHURIC ACID SOLUTION, ANALYTICA CHIMICA ACTA, 104: 225-231.
79LPI 01	LUNAR AND PLANETARY INSTITUTE (1979) PROCEEDINGS OF THE TENTH LUNAR AND PLANETARY SCIENCE CONFERENCE, HOUSTON, TEXAS, MARCH 19-23, 1979: GEOCHIMICA ET COSMOCHIMICA ACTA SUPPLEMENT 11.
79MAN 01	N. F. MANGELSON, M. W. HILL, K. K. NEILSON, D. J. EATOUGH, J. J. CHRISTENSEN, R. M. IZATT, AND D. O. RICHARDS (1979) PROTON INDUCED X-RAY EMISSION ANALYSIS OF PIMA INDIAN AUTOPSY TISSUES, ANALYTICAL CHEMISTRY, 51: 1187-1194.
79MAT 01	K. MATSUMOTO AND K. FUWA (1979) MAJOR AND TRACE ELEMENTS DETERMINATION IN GEOLOGICAL AND BIOLOGICAL SAMPLES BY ENERGY-DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY, ANALYTICAL CHEMISTRY, 51: 2355-2358.
79MAT 02	T. D. MATHEWS, J. V. BOYNE, R. A. DAVIS, AND D. R. SIMMONS (1979), THE DISTRIBUTION OF COPPER AND IRON IN SOUTH CAROLINA OYSTERS, JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH, A14: 683-694.
79MAY 01	S. MAY AND D. PICOT (1979) DOSAGE DE TRACES D'ELEMENTS TOXIQUES (AS, CD, HG, SB, SE) DANS LES PROTEINES SYNTHETIQUES, PAR RADIOACTIVATION NEUTRONIQUE, ANALUSIS, 7: 133-137.
79MCQ 01	N. R. MCQUAKER, P. D. KLUCKNER, AND G. N. CHANG (1979) CALIBRATION OF AN INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETER FOR THE ANALYSIS OF ENVIRONMENTAL MATERIALS, ANALYTICAL CHEMISTRY, 51: 888-895.
79MCQ 02	N. R. MCQUAKER, D. F. BROWN, AND P. D. KLUCKNER (1979) DIGESTION OF ENVIRONMENTAL MATERIALS FOR ANALYSIS BY INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY, ANALYTICAL CHEMISTRY, 51: 1082-1084.
79MEN 01	E. MENDELOVICI, J. J. LABRECQUE, AND R. E. VILLALBA (1979) CALCIUM AND MAGNESIUM DETERMINATION IN SILICATES AND VENEZUELAN LATERITES BY ATOMIC ABSORPTION SPECTROSCOPY: INTERFERENCE STUDIES IN THE FLUOROBORIC - BORIC ACID MATRIX, CHEMICAL GEOLOGY, 24: 199-209.
79MER 01	R. N. MERRYFIELD AND R. C. LOYD (1979) SIMULTANEOUS DETERMINATION OF METALS IN OIL BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY, ANALYTICAL CHEMISTRY, 51: 1965-1968.
79MIL 01	R. J. MILLER AND D. J. INGLE (1979) UNPUBLISHED DATA; TAKEN FROM 81NAR 01.
79MIZ 01	A. MIZUIKE AND A. IINO (1979) COATING OF BOROSILICATE GLASS CONTAINERS FOR PREVENTING CONTAMINATION IN TRACE ELEMENT ANALYSIS, ANALYTICA CHIMICA ACTA, 111: 251-256.

CODE N	DESCRIPTION
79MON 01	J. R. MONTGOMERY AND M. T. PRICE (1979) RELEASE OF TRACE METALS BY SEWAGE SLUDGE AND THE SUBSEQUENT UPTAKE BY MEMBERS OF A TURTLE GRASS MANGROVE ECOSYSTEM, ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 13: 546-549.
79NAR 01	H. NARASAKI (1979) DETERMINATION OF CADMIUM IN POLISHED RICE BY LOW-TEMPERATURE ASHING AND ATOMIC ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 104: 393-395.
79NIC 01	L. W. NICHOLSON AND K. RENGAN (1979) DETERMINATION OF ARSENIC IN SOME LAKE MICHIGAN FISH USING NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 54: 355-360.
79ORV 01	E. ORVINI AND R. DELFANTI (1979) DETERMINATION OF ARSENIC AT NANOGRAM LEVEL IN BIOLOGICAL TISSUES BY RADIOCHEMICAL ACTIVATION ANALYSIS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 37: 199-206.
79PAV 02	L. PAVLIK, J. KALOUSKOVA, M. VOBECKY, J. DEDINA, J. BENES, J. PARIZEK (1979), SELENIUM LEVELS IN THE KIDNEYS OF MALE AND FEMALE RATS, PP. 213-223, IN 79IAE 01.
79PEA 01	S. PEATS (1979) DETERMINATION OF ARSENIC IN SEAWEED AND RELATED PRODUCTS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY USING THE MHS-10 HYDRIDE GENERATION SYSTEM, ATOMIC ABSORPTION NEWSLETTER, 18: 118-120
79PLA 01	L.-O. PLANTIN (1979) TRACE ELEMENTS IN CARDIOVASCULAR DISEASES, PP. 321-330, IN 79IAE 01.
79RAI 01	R. M. RAIE AND H. SMITH (1979) THE DETERMINATION OF SELENIUM IN BIOLOGICAL MATERIALS BY THERMAL NEUTRON ACTIVATION ANALYSIS AND ATOMIC ABSORPTION SPECTROMETRY, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 48: 185-190.
79REE 01	J. REEDNICK (1979) A UNIQUE APPROACH TO ATOMIC SPECTROSCOPY-HIGH ENERGY PLASMA EXCITATION AND HIGH RESOLUTION SPECTROMETRY, AMERICAN LABORATORY, 11: 53-62.
79REI 01	J. E. O'REILLY AND D. C. HICKS (1979) SLURRY-INJECTION ATOMIC ABSORPTION SPECTROMETRY FOR ANALYSIS OF WHOLE COAL, ANALYTICAL CHEMISTRY, 51: 1905-1915.
79REN 01	K. RENGAN, J. P. HAUSHALTER, AND J. D. JONES (1979) SIMULTANEOUS DETERMINATION OF ARSENIC AND ANTIMONY IN ENVIRONMENTAL SAMPLES BY RADIOCHEMICAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 54: 347-353.
79REN 02	M. J. RENAN (1979) THE DETERMINATION OF ELEMENTS NOT PREVIOUSLY CERTIFIED IN INTERNATIONAL BIOLOGICAL REFERENCE MATERIALS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 40: 87-102.
79REN 03	M.J. RENAN, B.D. DRENNAN, R.J. KEDDY, J. SELLSCHOP (1979) OESOPHAGEAL CANCER IN THE TRANSKEI-DETERMINATION OF TRACE ELEMENT CONCENTRATIONS IN SELECTED PLANT MATERIAL BY INAA, PP. 479-494, IN 79IAE 01.
79RIS 01	T. H. RISBY (EDITOR) (1979) ULTRATRACE METAL ANALYSIS IN BIOLOGICAL SCIENCES AND ENVIRONMENT, ADVANCES IN CHEMISTRY SERIES, AMERICAN CHEMICAL SOCIETY, WASHINGTON, D.C.
79ROB 01	W. B. ROBBINS, J. A. CARUSO, AND F. L. FRICKE (1979) DETERMINATION OF GERMANIUM, ARSENIC, SELENIUM, TIN, AND ANTIMONY IN COMPLEX SAMPLES BY HYDRIDE GENERATION - MICROWAVE-INDUCED PLASMA ATOMIC-EMISSION SPECTROMETRY, ANALYST, 104: 34-40.
79ROS 02	R. J. ROSENBERG (1979) RADIOCHEMICAL ACTIVATION ANALYSIS OF ARSENIC, SELENIUM, AND ANTIMONY IN BIOLOGICAL SAMPLES, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 50: 109-114.
79ROS 03	G. ROSSI AND A. COLOMBO (1979) REFERENCE MATERIALS FOR CHEMICAL ANALYSIS: HIGHLIGHTS ON THE ACTIVITY OF JRC-ISPRA LABORATORIES, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 297: 13-17.
79SAT 01	T. SATO AND T. KATO (1979) DETERMINATION OF TRACE ELEMENTS IN VARIOUS ORGANS OF RATS BY THERMAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 53: 181-190.
79SCH 02	H. SCHORIN (1979) QUANTITATIVE DETERMINATION OF SI, AL, TI, AND FE IN LATERITE AND BAUXITES BY X-RAY FLUORESCENCE USING A COMPUTER FOR CORRECTION OF INTERELEMENT EFFECTS, APPLIED SPECTROSCOPY, 33: 634-637.
79SIL 01	D. SILBERMAN AND G. L. FISHER (1979) ROOM-TEMPERATURE DISSOLUTION OF COAL FLY ASH FOR TRACE METAL ANALYSIS BY ATOMIC ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 106: 299-307.
79SMI 01	R. D. SMITH, J. A. CAMPBELL, AND K. K. NIELSON (1979) CONCENTRATION DEPENDENCE UPON PARTICLE SIZE OF VOLATILIZED ELEMENTS IN FLY ASH, ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 13: 553-560.
79STO 01	M. STOEPPLER, P. VALENTA, AND H. W. NURNBERG (1979) APPLICATION OF INDEPENDENT METHODS AND STANDARD MATERIALS: AN EFFECTIVE APPROACH TO RELIABLE TRACE AND ULTRATRACE ANALYSIS OF METALS AND METALLOIDS IN ENVIRONMENTAL AND BIOLOGICAL MATRICES, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 297: 22-34.
79SZY 01	F. J. SZYDLOWSKI (1979) BORON IN NATURAL WATERS BY ATOMIC ABSORPTION SPECTROMETRY WITH ELECTROTHERMAL ATOMIZATION, ANALYTICA CHIMICA ACTA, 106: 121-125.
79TAG 01	M. TAGUCHI, K. YASUDA, M. HASHIMOTO, AND S. TODA (1979) SOME IMPROVEMENTS FOR MERCURY DETERMINATION IN MARINE ORGANISMS BY ATOMIC ABSORPTION SPECTROMETRY, BUNSEKI KAGAKU, 28: T33-T38.
79TAM 01	Y. TAMARI, K. HIRAKI, AND Y. NISHIKAWA (1979) FLUOROMETRIC DETERMINATION OF SELENIUM IN SEDIMENTS WITH 2,3-DIAMINONAPHTHALENE, BUNSEKI KAGAKU, 28: 164-169.
79ULL 01	A. R. ULLMAN, B. D. POLLARD, G. D. BOUTILLIER, R. P. BATEH, P. HANLEY, AND J. D. WINEFORDNER (1979) COMPUTER-CONTROLLED MULTIELEMENT ATOMIC EMISSION/FLUORESCENCE SPECTROMETER SYSTEM, ANALYTICAL CHEMISTRY, 51: 2382-2387.
79UNR 01	D. M. UNRUH, R. HUTCHISON, AND M. TATSUMOTO (1979) U-TH-PB AGE OF THE BARWELL CHONDRITE: ANATOMY OF A "DISCORDANT" METEORITE, IN 79LPI 01, PP. 1011-1030.
79VEI 01	C. VEILLON, W. R. WOLF, AND B. E. GUTHRIE (1979) DETERMINATION OF CHROMIUM IN BIOLOGICAL MATERIALS BY STABLE ISOTOPE DILUTION, ANALYTICAL CHEMISTRY, 51: 1022-1024.
79VER 01	J. VERSIECK, J. HOSTE, J. DE RUDDER, F. BARBIER, AND L. VANBALLENBERGHE (1979), DETERMINATION OF CHROMIUM IN BOWEN'S KALE, NBS BOVINE LIVER, AND BREWERS YEAST, BEFORE AND AFTER DRY ASHING, ANALYTICAL LETTERS, 12: 555-562.
79VIJ 01	P. N. VIJAN (1979) DETERMINATION OF ANTIMONY IN ENVIRONMENTAL SAMPLES BY AA, AMERICAN LABORATORY, 11: 32-43
79VOB 01	M. VOBECKY, J. DEDINA, L. PAVLIK, AND J. VALASEK (1979) GAMMA-RAY INTERFERENCES IN THE DETERMINATION OF SELENIUM BY THE INAA METHOD, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 38: 197-204.
79WAR 01	N. I. WARD, R. STEPHENS, AND D. E. RYAN (1979) COMPARISON OF THREE ANALYTICAL METHODS FOR THE DETERMINATION OF TRACE ELEMENTS IN WHOLE BLOOD, ANALYTICA CHIMICA ACTA, 110: 9-19.
79WAR 02	N. I. WARD AND D. E. RYAN (1979) MULTI-ELEMENT ANALYSIS OF BLOOD FOR TRACE METALS BY NEUTRON ACTIVATION ANALYSIS, ANALYTICA CHIMICA ACTA, 105: 185-197.
79WAT 02	J. H. WATKINSON (1979) SEMI-AUTOMATED FLUORIMETRIC DETERMINATION OF NANOGRAM QUANTITIES OF SELENIUM IN BIOLOGICAL MATERIAL, ANALYTICA CHIMICA ACTA, 105: 319-325.

CODE	N	DESCRIPTION
79WEG	01	W. WEGSCHEIDER, G. KNAPP, AND H. SPITZY (1979) SEQUENTIAL TESTING AS AN EFFICIENT SCREENING METHOD FOR INTERFERENCES IN ROUTINE ANALYSIS AS APPLIED TO ATOMIC-ABSORPTION SPECTROMETRY WITH FLAME AND GRAPHITE FURNACE ATOMIZATION, TALANTA, 26: 25-31.
79WES	01	M. H. WEST, J. F. MOLINA, C. L. YUAN AND D. C. DAVIS (1979) DETERMINATION OF METALS IN WATERS AND ORGANIC MATERIALS BY FLAMELESS ATOMIC ABSORPTION SPECTROMETRY WITH A WIRE LOOP ATOMIZER, ANALYTICAL CHEMISTRY, 51: 2370-2375.
79YAN	01	M. H. YANG, C. L. TSENG, AND G. TOLG (1979) DETERMINATION OF SMALL AMOUNTS OF BORON BY RADIATION DECOMPOSITION OF CHLOROACETIC ACID SOLUTION, TALANTA, 26: 705-711.
79YAS	01	K. YASUDA, S. TODA, C. IGARASKI, AND S. TAMURA (1979) EXTRACTION SYSTEM FOR SOLVENT EXTRACTION-GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETRY, ANALYTICAL CHEMISTRY, 51: 161-163.
79ZEI	01	R. ZEISLER, F. LUX, H. SEIDENBERGER, H. SCHONENBERGER, AND W. BECK (1979), STUDIES ON THE DISTRIBUTION OF PLATINUM IN TUMOR-BEARING RATS AFTER THE ADMINISTRATION OF PLATINUM CO-ORDINATION COMPLEXES USED IN CANCER CHEMOTHERAPY, PP. 467-476, IN 79IAE 01.
80AGE	01	H. AGEMIAN, D. F. STURTEVANT, AND K. D. AUSTEN (1980) SIMULTANEOUS ACID EXTRACTION OF SIX TRACE METALS FROM FISH TISSUE BY HOT-BLOCK DIGESTION AND DETERMINATION BY ATOMIC ABSORPTION SPECTROMETRY, ANALYST, 105: 125-130.
80AGE	02	H. AGEMIAN AND R. THOMSON (1980) SIMPLE SEMI-AUTOMATED ATOMIC-ABSORPTION SPECTROMETRIC METHOD FOR THE DETERMINATION OF ARSENIC AND SELENIUM IN FISH TISSUE, ANALYST, 105: 902-907.
80AGE	03	H. AGEMIAN AND E. BEDEK (1980) A SEMI-AUTOMATED METHOD FOR THE DETERMINATION OF TOTAL ARSENIC AND SELENIUM IN SOILS AND SEDIMENTS, ANALYTICA CHIMICA ACTA, 119: 323-330.
80AHM	01	S. AHMAD, M. S. CHAUDHARY, AND I. H. QURESHI (1980) DETERMINATION OF RARE EARTHS IN LOW GRADE URANIUM ORES AND SRM-ROCK BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 57: 185-193.
80AND	01	D. L. ANDERSON, M. P. FAILEY, G. E. GORDON, AND W. H. ZOLLER (1980) INSTRUMENTAL PROMPT GAMMA ACTIVATION ANALYSIS OF ENERGY RELATED SAMPLES AND STANDARDS, 4TH INTERNATIONAL CONFERENCE ON NUCLEAR METHODS IN ENVIRONMENTAL AND ENERGY RESEARCH, UNIVERSITY OF MISSOURI, APRIL 14-17,1980, PREPRINT.
80ARO	01	H. S. ARORA, C. E. FUGH, L. R. HOSSNER, AND J. B. DIXON (1980), FORMS OF SULFUR IN EAST TEXAS LIGNITIC COAL, JOURNAL OF ENVIRONMENTAL QUALITY, 9: 383-386.
80AUG	01	J. H. AUGUSTSON, J. W. HAYNES, AND T. W. SANDERS (1980) THE DETERMINATION OF URANIUM IN BIOLOGICAL MATERIALS BY NEUTRON ACTIVATION ANALYSIS USING THE FISSION PRODUCT I-134, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 60: 373-383.
80BER	01	C. BERTHELOT, G. CARRARO, AND V. VERDINGH (1980) NON-DESTRUCTIVE MULTI-ELEMENT PHOTON ACTIVATION ANALYSIS OF RIVER SEDIMENTS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 60: 443-451.
80BER	02	C. BERGERIOUX AND W. HAERDI (1980) COPRECIPITATION OF DISSOLVED TRACE ELEMENTS WITH COMBINED ORGANIC PRECIPITATING REAGENTS FOR USE IN X-RAY FLUORESCENCE ANALYSIS. I.-1,10-PHENANTHROLIN AND TETRAPHENYL BORON, ANALUSIS, 8: 169-173.
80BRE	01	I. B. BRENNER, A. R. WATSON, C. M. RUSSELL, AND M. GONCALVES (1980) A NEW APPROACH TO THE DETERMINATION OF THE MAJOR AND MINOR CONSTITUENTS IN SILICATE AND PHOSPHATE ROCKS, CHEMICAL GEOLOGY, 28: 321-330.
80BUA	01	P. BUAT-MENARD, C. E. LAMBERT, H. ARNOLD, AND R. CHESSELET (1980), MULTI-ELEMENT NEUTRON ACTIVATION ANALYSIS TOWARDS THE GEOCHEMISTRY OF PARTICULATE MATTER EXCHANGE BETWEEN CONTINENT - ATMOSPHERE - OCEAN, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 55: 445-452.
80CAN	01	C. E. CANN AND S. G. PRUSSIN (1980) RADIOCHEMICAL DETERMINATION OF SHORT-LIVED RADIONUCLIDES IN NEUTRON-ACTIVATED BIOLOGICAL SAMPLES, INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPES, 31: 446-447.
80CAS	01	V. R. CASELLA, C. T. BISHOP, A. A. GLOSBY, AND C.A. PHILLIPS (1980), RADIOCHEMICAL DETERMINATION OF URANIUM, THORIUM, AND LEAD-210 IN COAL AND COAL ASH, RADIOELEMENT ANALYSIS: PROGRESS AND PROBLEMS, PROCEEDINGS OF THE TWENTY-THIRD CONFERENCE ON ANALYTICAL CHEMISTRY IN ENERGY TECHNOLOGY, W. S. LYON (ED.), ANN ARBOR SCIENCE PUBLISHERS, ANN ARBOR, MICHIGAN, PP. 271-277.
80CHA	01	S. S. CHAO AND E. E. PICKETT (1980) TRACE CHROMIUM DETERMINATION BY FURNACE ATOMIC ABSORPTION SPECTROMETRY FOLLOWING ENRICHMENT BY EXTRACTION, ANALYTICAL CHEMISTRY, 52: 335-339.
80CHR	01	J. D. CHRISTENSEN AND L. KRYGER (1980) REDUCTIVE POTENTIOMETRIC STRIPPING ANALYSIS, ANALYTICA CHIMICA ACTA, 118: 53-64.
80CLA	01	P. J. CLARK, R. A. ZINGARO, K. J. IRGOLIC AND A. N. MCGINLEY (1980), ARSENIC AND SELENIUM IN TEXAS LIGNITE, INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 7: 295-314.
80CRE	01	E. A. CRECELIUS, E. A. LEPPEL, J. C. LAUL, L. A. RANCITELLI AND R. L. MCKEEVER (1980), BACKGROUND AIR PARTICULATE CHEMISTRY NEAR COLSTRIP, MONTANA, ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 14: 422-428.
80DAL	01	P. DALHEIM (1980) APPLICATION OF THE FUNDAMENTAL PARAMETER MODEL TO ENERGY DISPERSIVE X-RAY FLUORESCENCE ANALYSIS OF COMPLEX SILICATES, ADVANCES IN X-RAY ANALYSIS, NEW YORK, PLENUM PRESS, 23: 71-76.
80DON	01	E. M. DONALDSON (1980) DETERMINATION OF CHROMIUM IN ORES, ROCKS AND RELATED MATERIALS, IRON, STEEL AND NON-FERROUS ALLOYS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY AFTER SEPARATION BY TRIBENZYLAMINE-CHLOROFORM EXTRACTION, TALANTA, 27: 779-786.
80DOR	01	A. DORNEMANN AND H. KLEIST (1980) BESTIMMUNG VON NANOSPUREN NICKEL IN BIOLOGISCHEM MATRIX, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 300: 197-199.
80DSI	01	A. P. D'SILVA, G. W. RICE, AND V. A. FASSEL (1980) ATMOSPHERIC PRESSURE ACTIVE NITROGEN (APAN) - A NEW SOURCE FOR ANALYTICAL SPECTROSCOPY, APPLIED SPECTROSCOPY, 34: 578-584.
80DUM	01	R. DUMAREY, R. HEINDRICKX, AND R. DAMS (1980) DETERMINATION OF MERCURY IN ENVIRONMENTAL STANDARD REFERENCE MATERIALS BY PYROLYSIS, ANALYTICA CHIMICA ACTA, 118: 381-383.
80DUP	01	S. DUPIRE ET M. HOENIG (1980) INFLUENCE DES MATRICES COMPLEXES SUR LA DETERMINATION DES ELEMENTS EN TRACE, ANALUSIS, 8: 153-158.
80DYC	01	P. M. VAN DYCK AND R. W. VAN GRIEKEN (1980) ABSORPTION CORRECTION VIA SCATTERED RADIATION IN ENERGY DISPERSIVE X-RAY FLUORESCENCE ANALYSIS FOR SAMPLES OF VARIABLE COMPOSITION AND THICKNESS, ANALYTICAL CHEMISTRY, 52: 1859-1864.
80EDD	01	B. T. EDDY, J. I. W. WATTERSON, AND C. S. ERASMUS (1980) PREPARATION OF SYNTHETIC STANDARDS FOR USE IN INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, GEOSTANDARDS NEWSLETTER, 4: 229-237.
80EPS	01	M. S. EPSTEIN AND J. D. WINEFORDNER (1980) PRECISION AND LINEARITY OF DETERMINATIONS AT HIGH CONCENTRATIONS IN ATOMIC ABSORPTION SPECTROMETRY WITH HORIZONTAL ROTATION OF THE BURNER, TALANTA, 27: 177-180.
80EPS	02	M. S. EPSTEIN, J. BRADSHAW, S. BAYER, J. BOWER, E. VOIGTMAN, AND J. D. WINEFORDNER (1980), APPLICATION OF LASER-EXCITED ATOMIC FLUORESCENCE SPECTROMETRY TO THE DETERMINATION OF NICKEL AND TIN, APPLIED SPECTROSCOPY, 34: 372-376.
80EPS	03	M. S. EPSTEIN, N. OMENETTO, S. NIKDEL, J. BRADSHAW, AND J. D. WINEFORDNER (1980), INDUCTIVELY COUPLED PLASMA AS AN EXCITATION SOURCE FOR FLAME ATOMIC FLUORESCENCE SPECTROMETRY ANALYTICAL CHEMISTRY. 52: 284-287.

CODE N DESCRIPTION

80EVA 01 W. H. EVANS, D. DELLAR, B. E. LUCAS, F. J. JACKSON, AND J. I. READ (1980)
OBSERVATIONS OF THE DETERMINATION OF TOTAL COPPER, IRON, MANGANESE AND ZINC IN FOODSTUFFS BY FLAME ATOMIC ABSORPTION SPECTROPHOTOMETRY, ANALYST, 105: 529-543.

80FAA 01 A. FAANHOF, H. A. DAS, AND J. ZONDERHUIS (1980)
POSSIBILITIES OF THE ELEMENTAL ANALYSIS OF DRY BIOLOGICAL MATERIAL BY FAST NEUTRON ACTIVATION ANALYSIS,
JOURNAL OF RADIOANALYTICAL CHEMISTRY, 56: 173-184.

80FLO 01 M. A. FLOYD, V. A. FASSEL, AND A. P. D'SILVA (1980)
COMPUTER-CONTROLLED SCANNING MONOCHROMATOR FOR THE DETERMINATION OF 50 ELEMENTS IN GEOCHEMICAL AND ENVIRONMENTAL SAMPLES BY INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY, ANALYTICAL CHEMISTRY, 52: 2168-2173.

80FUD 01 N. FUDAGAWA AND A. KAWASE (1980)
DETERMINATION OF COBALT IN PLANT MATERIALS BY GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETRY AFTER SOLVENT EXTRACTION
BUNSEKI KAGAKU, 29: 6-11.

80GAR 01 S. R. GARCIA, W. K. HENSLEY, M. M. MINOR, M. M. DENTON, M. A. FUKA (1980), AN AUTOMATED MULTIDETECTOR SYSTEM FOR INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF GEOLOGICAL AND ENVIRONMENTAL MATERIALS, PRESENTED AT THE NOV 1980 AMERICAN NUCLEAR SOCIETY MEETING, PUERTO RICO.

80GER 01 M. S. GERMANI, I. GOKMEN, A. C. SIGLEO, G. S. KOWALCZYK, I. OLMEZ, A. M. SMALL, D. L. ANDERSON, M. P. FAILEY, M. C. GULOVALI, C. E. CHOQUETTE, E. A. LEPEL, G. E. GORDON, AND W. H. ZOLLER (1980)
CONCENTRATIONS OF ELEMENTS IN THE NATIONAL BUREAU OF STANDARDS' BITUMINOUS AND SUBBITUMINOUS COAL STANDARD REFERENCE MATERIALS, ANALYTICAL CHEMISTRY, 52: 240-245.

80GIN 01 J. H. VAN GINKEL AND J. SINNAEVE (1980)
DETERMINATION OF TOTAL NITROGEN IN PLANT MATERIAL WITH NESSLER'S REAGENT BY CONTINUOUS-FLOW ANALYSIS, ANALYST, 105: 1199-1203.

80GLA 01 E.S. GLADNEY, D.R. PERRIN, W.K. HENSLEY AND M.E. BUNKER (1980)
URANIUM CONTENT OF 25 SILICATE REFERENCE MATERIALS,
GEOSTANDARDS NEWSLETTER, 4: 243-246.

80GLA 03 E. S. GLADNEY, D. R. PERRIN, J. P. BALAGNA, AND C. L. WARNER (1980), EVALUATION OF A BORON-FILTERED EPITHERMAL NEUTRON IRRADIATION FACILITY, ANALYTICAL CHEMISTRY, 52: 2128-2132.

80GLA 04 E. S. GLADNEY, D. R. PERRIN, AND W. K. HENSLEY (1980)
DETERMINATION OF URANIUM IN NBS BIOLOGICAL STANDARD REFERENCE MATERIALS BY DELAYED NEUTRON ASSAY,
JOURNAL OF RADIOANALYTICAL CHEMISTRY, 59: 249-251.

80GRE 01 R. R. GREENBERG (1980)
SIMULTANEOUS DETERMINATION OF MERCURY AND CADMIUM IN BIOLOGICAL MATERIALS BY RADIOCHEMICAL NEUTRON ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 52: 676-679.

80GVA 01 I. GVARDJANCIC, L. KOSTA, AND M. DERMELJ (1980)
DETERMINATION OF IODINE IN REFERENCE MATERIALS BY ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 58: 359-365.

80HAA 01 W. J. HAAS AND V. A. FASSEL (1980)
INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPECTROSCOPY, ELEMENTAL ANALYSIS OF BIOLOGICAL MATERIALS, IAEA TECHNICAL REPORT SERIES NO. 197, PP. 167-199.

80HAN 01 R. HANNINEN, J. RAISANEN, AND A. ANTTILA (1980)
ELEMENTAL ANALYSIS OF LI AND B WITH PROTON INDUCED GAMMA-RAY REACTIONS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 44: 201-206.

80HEN 01 W. M. HENRY AND K. T. KNAPP (1980)
COMPOUND FORMS OF FOSSIL FUEL FLY ASH EMISSIONS,
ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 14: 450-456.

80HEY 01 K. HEYDORN, E. DAMSGAARD, AND B. REITZ (1980)
SYSTEMATIC DIFFERENCES IN THE DETERMINATION OF VANADIUM IN STANDARD REFERENCE MATERIAL 1571 ORCHARD LEAVES,
ANALYTICAL CHEMISTRY, 52: 1045-1049.

CODE N DESCRIPTION

80HIT 02 A. HITCHEN AND G. ZECHANOWITSCH (1980)
CHELATOMETRIC DETERMINATION OF CALCIUM AND MAGNESIUM IN IRON ORES, SLAGS, ANORTHOSITE, LIMESTONE, COPPER-NICKEL-LEAD-ZINC ORES AND DIVERSE MATERIALS, TALANTA, 27: 269-275.

80HOE 01 D. HOEDE, J. ZONDERHUIS, AND H. A. DAS (1980)
THE DETERMINATION OF BROMINE IN DRY BIOLOGICAL MATERIAL BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 56: 199-202.

80HON 01 P. K. HON, O. W. LAU, W. C. CHEUNG, AND M. C. WONG (1980)
ATOMIC ABSORPTION SPECTROMETRIC DETERMINATION OF ARSENIC, BISMUTH, LEAD, ANTIMONY, SELENIUM, AND TIN WITH A FLAME-HEATED SILICA T-TUBE AFTER HYDRIDE GENERATION,
ANALYTICA CHIMICA ACTA, 115: 355-359.

80IID 01 C. IIDA, T. UCHIDA, AND I. KOJIMA (1980)
DECOMPOSITION OF BOVINE LIVER IN A SEALED TEFLON VESSEL FOR DETERMINATION OF METALS BY ATOMIC ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 113: 365-368.

80IWA 01 Y. IWATA, K. MATSUMOTO, AND K. FUWA (1980)
DETERMINATION OF CHROMIUM IN ROCKS AND SEDIMENTS BY ENERGY DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY; EVALUATION OF THE EFFECTIVENESS OF INTERNAL STANDARDS AND BRIQUETTING SAMPLES, BUNSEKI KAGAKU, 29: 640-644.

80JAC 01 F. J. JACKSON, J. I. READ, AND B. E. LUCAS (1980)
DETERMINATION OF TOTAL CHROMIUM, COBALT, AND SILVER IN FOODSTUFFS BY FLAME ATOMIC ABSORPTION SPECTROPHOTOMETRY, ANALYST, 105: 359-370.

80JAR 01 J. O. JARVISALO, J. KILPIO, N.-E. L. SAKIS (1980)
TOXICITY OF CADMIUM TO RENAL MITOCHONDRIA WHEN ADMINISTERED IN VIVO AND IN VITRO, ENVIRONMENTAL RESEARCH, 22: 217-223.

80KAT 01 T. KATO AND M. KATO (1980)
MULTIELEMENT DETERMINATION IN FLOOR SEDIMENTS OF THE JAPAN SEA BY NONDESTRUCTIVE PHOTON ACTIVATION ANALYSIS.
JOURNAL OF RADIOANALYTICAL CHEMISTRY, 57: 105-112.

80KHA 02 S. R. KHALIL, D. W. KOPPENAAL, AND W. D. EHMANN (1980)
OXYGEN CONCENTRATIONS IN COAL AND FLY ASH STANDARDS,
ANALYTICAL LETTERS, 13: 1063-1071.

80KIR 01 S. J. KIRCHNER, H. OONA, S. J. PERRON, Q. FERNANDO, J. LEE, AND H. ZEITLIN (1980), PROTON-INDUCED X-RAY EMISSION ANALYSIS OF DEEP-SEA FERROMANGANESE NODULES,
ANALYTICAL CHEMISTRY, 52: 2195-2201.

80KNA 01 D. KNAB AND E. S. GLADNEY (1980)
DETERMINATION OF SELENIUM IN ENVIRONMENTAL MATERIALS BY NEUTRON ACTIVATION AND INORGANIC ION EXCHANGE, ANALYTICAL CHEMISTRY, 52: 825-828.

80KOH 01 T.-S. KOH (1980)
MICROWAVE DRYING OF BIOLOGICAL TISSUES FOR TRACE DETERMINATION, ANALYTICAL CHEMISTRY, 52: 1978-1979.

80KOP 01 D. W. KOPPENAAL, R. G. LETT, F. R. BROWN, AND S. E. MANAHAN (1980), DETERMINATION OF NICKEL, COPPER, SELENIUM, CADMIUM, THALLIUM, AND LEAD IN COAL GASIFICATION PRODUCTS BY ISOTOPE DILUTION SPARK SOURCE MASS SPECTROMETRY,
ANALYTICAL CHEMISTRY, 52: 44-49.

80KOR 01 V. KORUNOVA AND J. DEDINA (1980)
DETERMINATION OF TRACE CONCENTRATIONS OF MERCURY IN BIOLOGICAL MATERIALS AFTER DIGESTION UNDER PRESSURE IN NITRIC ACID CATALYZED BY VANADIUM PENTOXIDE, ANALYST, 105: 48-51.

80KOS 02 L. KOSTA (1980)
REFERENCE SAMPLES FOR TRACE ELEMENTS IN BIOLOGICAL MATERIALS AND ASSOCIATED ANALYTICAL PROBLEMS, ELEMENTAL ANALYSIS OF BIOLOGICAL MATERIALS: CURRENT PROBLEMS AND TECHNIQUES WITH SPECIAL REFERENCE TO TRACE ELEMENTS, IAEA TECHNICAL REPORT SERIES NO. 197, VIENNA, PP. 317-345.

80KUL 01 A. I. KULATHILAKE AND A. CHATT (1980)
DETERMINATION OF MOLYBDENUM IN SEA AND ESTUARINE WATER WITH BETA-NAPHTHOIN OXIME AND NEUTRON ACTIVATION,
ANALYTICAL CHEMISTRY, 52: 828-833.

CODE N	DESCRIPTION
80KUM 01	J. KUMPULAINEN (1980) DETERMINATION OF CHROMIUM IN HUMAN MILK AND URINE BY GRAPHITE-FURNACE ATOMIC ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 113: 355-359.
80LAB 03	J. J. LABRECQUE AND H. SCHORIN (1980) ANALYSIS OF THE MAJOR CONSTITUENTS IN VENEZUELAN LATERITES: A COMPARISION OF ATOMIC ABSORPTION, X-RAY FLUORESCENCE, AND CLASSICAL METHODS, APPLIED SPECTROSCOPY, 34: 39-43.
80LAN 01	F. J. LANGMYHR AND U. AADALEN (1980) DIRECT ATOMIC ABSORPTION DETERMINATION OF COPPER, NICKEL, AND VANADIUM IN COAL AND PETROLEUM COKE, ANALYTICA CHIMICA ACTA, 115: 365-368.
80LAU 01	O.W. LAU AND S.F. CHAM (1980) SPECTROPHOTOMETRIC DETERMINATION OF CALCIUM WITH CHLORIN-DAZON C, MIKROCHIMICA ACTA (WIEN), 1980I: 465-474.
80LEG 01	P. A. LEGOTTE, W. C. ROSA, AND D. C. SUTTON (1980) DETERMINATION OF CADMIUM AND LEAD IN URINE AND OTHER BIOLOGICAL SAMPLES BY GRAPHITE-FURNACE ATOMIC ABSORPTION SPECTROMETRY, TALANTA, 27: 39-44.
80MAE 01	W. MAENHAUT, L. DE REU, H. A. VAN RINSVELT, J. CAFMEYER, AND P. VAN ESPEN (1980), PARTICLE-INDUCED X-RAY EMISSION (PIXE) ANALYSIS OF BIOLOGICAL MATERIALS: PRECISION, ACCURACY, AND APPLICATION TO CANCER TISSUES, NUCLEAR INSTRUMENTS AND METHODS, 168: 557-562.
80MCC 01	J. MCCORMICK (1980) DETERMINATION OF TOTAL SULPHUR IN FUEL OILS BY ION CHROMATOGRAPHY, ANALYTICA CHIMICA ACTA, 121: 233-238.
80NAD 01	R. A. NADKARNI (1980) MULTITECHNIQUE MULTIELEMENT ANALYSIS OF COAL AND FLY ASH, ANALYTICAL CHEMISTRY, 52: 929-935.
80NAK 01	S. NAKAMURA, N. FUDAGAWA AND A. KAWASE (1980) DETERMINATION OF ANTIMONY IN PLANT MATERIALS BY ZEEMAN ATOMIC ABSORPTION SPECTROMETRY AFTER COPRECIPITATION WITH MANGANESE DIOXIDE, BUNSEKI KAGAKU, 29: 477-482.
80NEV 01	J. NEVE, M. HANOCQ, AND L. MOLLE (1980) CRITICAL STUDY OF SOME WET DIGESTION METHODS FOR DECOMPOSITION OF BIOLOGICAL MATERIALS FOR THE DETERMINATION OF TOTAL SELENIUM AND SELENIUM (VI), MIKROCHIMICA ACTA (WIEN), 1980I, 259-269.
80NOR 01	L. DE NORRE, J. OP DE BEECK, AND J. HOSTE (1980) DETERMINATION OF FLUORINE IN ZINC ORES USING AN ISOTOPE NEUTRON SOURCE BASED AUTOMATED NEUTRON ACTIVATION ANALYSIS SYSTEM, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 59: 453-466.
80POL 01	J. E. POLDOSKI (1980) DETERMINATION OF LEAD AND CADMIUM IN FISH AND CLAM TISSUE BY ATOMIC ABSORPTION SPECTROMETRY WITH A MOLYBDENUM AND LANTHANUM TREATED PYROLYTIC GRAPHITE ATOMIZER, ANALYTICAL CHEMISTRY, 52: 1147-1151.
80PRE 01	J.R. PREER, H.S. SEKHON, B.R. STEPHENS, AND M.S. COLLINS (1980) FACTORS AFFECTING HEAVY METAL CONTENT OF GARDEN VEGETABLES, ENVIRONMENTAL POLLUTION, 1: 95-104
80RAP 01	S. E. RAPTIS, W. WEGSCHEIDER, G. KNAPP, AND G. TOLG (1980) X-RAY FLUORESCENCE DETERMINATION OF TRACE SELENIUM IN ORGANIC AND BIOLOGICAL MATRICES, ANALYTICAL CHEMISTRY, 52: 1292-1296.
80RAP 02	S. RAPTIS, G. KNAPP, A. MEYER, AND G. TOLG (1980) SYSTEMATISCHE FEHLER BEI DER SELENBESTIMMUNG IN NG/G-BEREICH IN BIOLOGISCHEN MATRICES NACH DEM HYIRID-AAS-VERFAHREN, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 300: 18-21.
80RAP 03	S. RAPTIS, W. WEGSCHEIDER, G. KNAPP, AND G. TOLG (1980) X-RAY FLUORESCENCE DETERMINATION OF TRACES OF SELENIUM IN ORGANIC AND BIOLOGICAL MATRICES, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 301: 103.
80RIL 01	G. H. RILEY AND M. J. KORSCH (1980) NATURAL REACTOR STUDIES, IN PROCEEDINGS OF THE INTERNATIONAL URANIUM SYMPOSIUM ON THE PINE CREEK GEOSYNCLINE, IAEA, VIENNA, PP. 407-416.
80RIL 02	G. H. RILEY, R. A. BINNS, AND S. J. CRAVEN (1980) RB-SR CHRONOLOGY OF MICAS AT JABILUKA, IN PROCEEDINGS OF THE INTERNATIONAL URNAIUM SYMPOSIUM ON THE PINE CREEK GEOSYNCLINE, IAEA, VIENNA, PP. 457-468.
80RDS 01	K. J. R. ROSMAN AND J.R. DE LAETER (1980) MASS SPECTROMETRIC ISOTOPE DILUTION DETERMINATION OF CADMIUM IN GEOCHEMICAL REFERENCE SAMPLES, GEOSTANDARDS NEWSLETTER, 4: 1-3.
80SAT 01	T. SATO AND T. KATO (1980) DETERMINATION OF TRACE ELEMENTS IN SUBCELLULAR FRACTIONS OF LIVER AND KIDNEY FROM MONKEY BY THERMAL NEUTRON ACITVATION ANALYSIS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 42: 227-234.
80SCH 02	T. G. SCHOFIELD, E. S. GLADNEY, F. MIERA, AND P. TRUJILLO (1980), COMPARATIVE DETERMINATION OF CARBON, NITROGEN, AND HYDROGEN IN ENVIRONMENTAL STANDARD REFERENCE MATERIALS BY INSTRUMENTAL COMBUSTION ANALYSIS AND THERMAL NEUTRON CAPTURE GAMMA-RAY SPECTROMETRY, ANALYTICAL LETTERS, 13: 75-83.
80SCH 05	P. SCHRAMEL, A. WOLF, R. SEIF, AND B.-J. KLOSE (1980) EINE NEUE APPARATUR ZUR DRUCKVERASCHUNG VON BIOLOGISCHEM MATERIAL, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 302: 62-64.
80SEG 01	C. SEGEBADE, H.-U. FUSBAN, AND H.-P. WEISE (1980) ANALYSIS OF SOME TOXIC COMPONENTS OF ENVIRONMENTAL SAMPLES BY HIGH ENERGY PHOTON ACTIVATION, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 59: 399-405.
80SHI 01	T. SHIGEMATSU AND K. KUDO (1980) SUBSTOICHIOMETRIC EXTRACTION OF CHROMIUM, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 59: 63-73.
80SLO 01	H. A. VAN DER SLOOT, G. D. WALS, C. A. WEERS, AND H. A. DAS (1980) SIMULTANEOUS ELIMINATION OF SODIUM-24, POTASSIUM-42, BROMINE-82, AND PHOSPHORUS-32 IN THE DETERMINATION OF TRACE ELEMENTS IN BIOLOGICAL MATERIALS BY NEUTRON ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 52: 112-117.
80SMI 01	G. R. SMITH (1980) RAPID DETERMINATION OF TOTAL SULFUR IN PLANTS AND SOILS BY COMBUSTION SULFUR ANALYSIS, ANALYTICAL LETTERS, A13: 465-471.
80STO 02	T. R. STOLZENBURG AND A. W. ANDREN (1980) A SIMPLE ACID DIGESTION METHOD FOR THE DETERMINATION OF TEN ELEMENTS IN AMBIENT AEROSOLS BY FLAME ATOMIC ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 118: 377-380.
80STU 01	O. STULZAFT, B. MAZIERE, AND S. LY (1980) GALLIUM DETERMINATION IN BIOLOGICAL SAMPLES, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 55: 291-295.
80SUZ 01	M. SUZUKI, S. NAKAMUKA, AND H. IMUKA (1980) SUBSTOICHIOMETRIC ISOTOPE DILUTION ANALYSIS OF IRON IN BIOLOGICAL MATERIALS BY THE 8-QUINOLINOL EXTRACTION, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 57: 37-46.
80SUZ 02	M. SUZUKI, Y. DAKIYA, S. YAMAZAKI, AND S. TODA (1980) A NEW TYPE OF BIOLOGICAL REFERENCE MATERIAL FOR MULTI-ELEMENT ANALYSIS-THE FUNGUS PENICILLIUM OCHRO-CHLORON ATCC 36741, ANALYST, 105: 944-949.
80SZY 01	P.J. SZYDLOWSKI, K.L. MONTI, S.P. MICHALAK, AND D.L. DUNMIRE (1980) A PRACTICAL VOLTAMMETRIC METHOD FOR THE ANALYSIS OF LEAD IN CEREAL AND FEED PRODUCTS USING A TUBULAR MERCURY THIN FILM ELECTRODE, ANALYTICAL LETTERS, A13: 529-542.
80TAM 01	G. K. H. TAM AND G. LACROIX (1980) DETERMINATION OF ARSENIC IN URINE AND FECES BY DRY ASHING, ATOMIC ABSORPTION SPECTROMETRY, INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 8: 283-290.
80TOH 01	S. L. TONG, W.-K. LEOW (1980) STATIONARY COLD-VAPOR ATOMIC ABSORPTION SPECTROMETRIC ATTACHMENT FOR DETERMINATION OF TOTAL MERCURY IN UNDIGESTED FISH SAMPLES, ANALYTICAL CHEMISTRY, 52: 581-583.

CODE N DESCRIPTION

80UCH 01 T. UCHIDA, I. KOJIMA, AND C. IIDA (1980)
DETERMINATION OF METALS IN SMALL SAMPLES BY ATOMIC ABSORPTION AND EMISSION SPECTROMETRY WITH DISCRETE NEBULIZATION, ANALYTICA CHIMICA ACTA, 116: 205-210.

80URE 01 A. M. URE, G. J. EWEN, AND M. C. MITCHELL (1980)
A THREE-CHANNEL FLAME ATOMIC ABSORPTION/EMISSION SPECTROMETER FOR THE RAPID, ROUTINE DETERMINATION OF MAJOR CATIONS IN SOIL EXTRACTS AND PLANT ASH SOLUTIONS, ANALYTICA CHIMICA ACTA, 118: 1-9.

80VAL 01 M. T. C. VALENTINI, N. GENOVA, R. STELLA (1980)
DETERMINATION OF CADMIUM, COPPER AND MERCURY IN ENVIRONMENTAL MATRICES BY DESTRUCTIVE NEUTRON ACTIVATION ANALYSIS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 44: 359-368.

80VIJ 01 P. N. VIJAN AND D. LEUNG (1980)
REDUCTION OF CHEMICAL INTERFERENCE AND SPECIATION STUDIES IN THE HYIRIDE GENERATION-ATOMIC ABSORPTION METHOD FOR SELENIUM, ANALYTICA CHIMICA ACTA, 120: 141-146.

80VIR 01 H. S. VIRK (1980)
INTERCALIBRATION OF GLASS DOSIMETERS FOR NEUTRON FLUENCE DETERMINATION, INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPES, 31: 649-651.

80WAL 01 W. J. WALKER AND R. H. DOWDY (1980)
ELEMENTAL COMPOSITION OF BARLEY AND RYEGRASS GROWN ON ACID SOILS AMENDED WITH SCRUBBER SLUDGE, JOURNAL OF ENVIRONMENTAL QUALITY, 9: 27-30.

80WAN 01 L. E. WANGEN, E. S. GLADNEY, AND W. K. HENSLEY (1980)
DETERMINATION OF SELENIUM IN ENVIRONMENTAL STANDARD REFERENCE MATERIALS BY A GAMMA-GAMMA COINCIDENCE METHOD USING GE(LI) DETECTORS, ANALYTICAL CHEMISTRY, 52: 765-767.

80WHI 01 L. E. WHITE AND M. H. CARTER (1980)
DETERMINATION OF MERCURY IN ROCKS, SEDIMENTS, AND SOILS BY FLAMELESS ATOMIC ABSORPTION, OAK RIDGE Y-12 PLANT REPORT Y/DK-254, OAK RIDGE, TN., 22 MAY 1980.

80YAM 01 M. YAMASHITA AND N. SUZUKI (1980)
PHOTON ACTIVATION ANALYSIS OF TRACE METALS IN BIOLOGICAL MATERIALS VIA COLLECTION OF METAL TROPOLONE-5-SULFONATE COMPLEXES ONTO ANION-EXCHANGE RESIN, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 60: 73-85.

80YAN 01 K. YANAGI (1980)
A NEW PROCEDURE FOR DETERMINING ARSENIC IN NATURAL WATERS BY MEANS OF ATOMIC ABSORPTION SPECTROPHOTOMETRY COMBINED WITH THE TECHNIQUES OF ARSINE EVOLUTION BY SODIUM BORO-HYIRIDE AND OF ITS COLLECTION IN A TRAP OF LIQUID NITROGEN, BUNSEKI KAGAKU, 29: 194-198.

81AHM 01 S. AHMAD, M. S. CHAUDHARY, AND I. H. QURESHI (1981)
INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF OBSIDIAN ROCK, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 67: 119-125.

81ALL 01 M. ALLEGRINI, K. W. BOYER, J. T. TANNER (1981)
NEUTRON ACTIVATION ANALYSIS OF TOTAL DIET FOOD COMPOSITES FOR IODINE, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 64: 1111-1115.

81ARA 01 N. M. ARAFAT AND W. A. GLOOSCHENKO (1981)
METHOD FOR THE SIMULTANEOUS DETERMINATION OF ARSENIC, ALUMINUM, IRON, ZINC, CHROMIUM AND COPPER IN PLANT TISSUE WITHOUT THE USE OF PERCHLORIC ACID, ANALYST, 106: 1174-1178.

81BIS 01 K. M. BISGARD, J. LAURSEN, AND B. S. NIELSEN (1981)
ENERGY-DISPERSIVE XRF SPECTROMETRY USING SECONDARY RADIATION IN A CARTESIAN GEOMETRY, X-RAY SPECTROMETRY, 10: 17-19.

81BLA 01 M. S. BLACK AND R. F. BROWNER (1981)
VOLATILE METAL-CHELATE SAMPLE INTRODUCTION FOR INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY, ANALYTICAL CHEMISTRY, 53: 249-253.

CODE N DESCRIPTION

81BLA 02 M. S. BLACK, M. B. THOMAS, AND R. F. BROWNER (1981)
DETERMINATION OF METAL CHELATES BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPECTROMETRY AND APPLICATIONS TO BIOLOGICAL MATERIALS, ANALYTICAL CHEMISTRY, 53: 2224-2228.

81BLA 03 M. BLANUSA AND D. BRESKI (1981)
COMPARISON OF DRY AND WET ASHING PROCEDURES FOR CADMIUM AND IRON DETERMINATION IN BIOLOGICAL MATERIAL BY ATOMIC ABSORPTION SPECTROPHOTOMETRY, TALANTA, 28: 681-684.

81BRO 01 P. J. BROOKE AND W. H. EVANS (1981)
DETERMINATION OF TOTAL INORGANIC ARSENIC IN FISH, SHELLFISH AND FISH PRODUCTS, ANALYST, 106: 514-520.

81BYR 01 A.R. BYRNE (1981)
DETERMINATION OF PALLADIUM IN BIOLOGICAL SAMPLES BY NEUTRON-ACTIVATION ANALYSIS, MIKROCHIMICA ACTA (WIEN), 1981I: 323-329.

81CAR 01 R. CARPENTER AND T. M. BEASLEY (1981)
PLUTONIUM AND AMERICIUM IN ANOXIC MARINE SEDIMENTS: EVIDENCE AGAINST REMOBILIZATION, GEOCHIMICA ET COSMOCHIMICA ACTA, 45: 1917-1930.

81CAR 02 J.W. CARNAHAN, K.J. MULLIGAN AND J.A. CARUSO (1981)
ELEMENT-SELECTIVE DETECTION FOR CHROMATOGRAPHY BY PLASMA EMISSION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 130: 227-241.

81CAS 01 V. R. CASELLA, C. T. BISHOP, A. A. GLOSBY, AND C.A. PHILLIPS (1981), ANION EXCHANGE METHOD FOR THE SEQUENTIAL DETERMINATION OF URANIUM, THORIUM, AND LEAD-210 IN COAL AND COAL ASH, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 62: 257-266.

81CHA 01 C. L. CHAKRABARTI, C. C. WAN, H. A. HAMED, AND P. C. BERTELS (1981), MATRIX INTERFERENCES IN GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETRY BY CAPACITIVE DISCHARGE HEATING, ANALYTICAL CHEMISTRY, 53: 444-450.

81CHE 01 J. H. CHEN AND G. J. WASSERBURG (1981)
THE ISOTOPIC COMPOSITION OF URANIUM AND LEAD IN ALLENDE INCLUSIONS AND METEORITIC PHOSPHATES, EARTH AND PLANETARY SCIENCE LETTERS, 52: 1-15.

81CHE 02 J. H. CHEN AND G. J. WASSERBURG (1981)
ISOTOPIC DETERMINATION OF URANIUM IN PICOMOLE AND SUBPICOMOLE QUANTITIES, ANALYTICAL CHEMISTRY, 53: 2060-2067.

81CHR 01 L. H. CHRISTENSEN AND A. AGERBO (1981)
DETERMINATION OF SULFUR AND HEAVY METALS IN CRUDE OIL AND PETROLEUM PRODUCTS BY ENERGY-DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY AND FUNDAMENTAL PARAMETER APPROACH, ANALYTICAL CHEMISTRY, 53: 1788-1792.

81CHU 01 S. E. CHURCH (1981)
MULTI-ELEMENT ANALYSIS OF FIFTY-FOUR GEOCHEMICAL REFERENCE SAMPLES USING INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY, GEOSTANDARDS NEWSLETTER, 5: 133-160.

81CLE 01 M. S. CLEGG, C. L. KEEN, B. LONNERDAL AND L. S. HURLEY (1981)
INFLUENCE OF ASHING TECHNIQUES ON THE ANALYSIS OF TRACE ELEMENTS IN ANIMAL TISSUE. I. WET ASHING, BIOLOGICAL TRACE ELEMENT RESEARCH, 3: 107-115

81CLE 02 M. S. CLEGG, C. L. KEEN, BO LONNERDAL AND L. S. HURLEY (1981)
INFLUENCE OF ASHING TECHNIQUES ON THE ANALYSIS OF TRACE ELEMENTS IN BIOLOGICAL SAMPLES. II. DRY ASHING, BIOLOGICAL TRACE ELEMENT RESEARCH, 3: 237-244

81COH 02 S. COHEN, S.-G. CHANG, S. S. MARKOWITZ, AND T. NOVAKOV(1981)
ROLE OF FLY ASH IN CATALYTIC OXIDATION OF S(IV) SLURRIES, ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 15: 1498-1502.

81COR 01 R. CORNELIS, J. VERSIECK, A. DESMET, L. MEES, AND L. VANDALLENBERGHE (1981), NEUTRON ACTIVATION ANALYSIS OF THE TRACE ELEMENT MOLYBDENUM IN URINE OF HEALTHY PERSONS, BULLETIN DES SOCIETES CHIMIQUES BELGES, 90: 289-295.

81COR 02 R. CORNELIS, J. VERSIECK, L. MEES, J. HOSTE, AND F. BARBIER (1981)
THE ULTRATRACE ELEMENT VANADIUM IN HUMAN SERUM, BIOLOGICAL TRACE ELEMENT RESEARCH, 3: 257-263

81COX 01 D. H. COX AND A. E. BIBB (1981)
HYDROGEN SELENIDE EVOLUTION-ELECTROTHERMAL ATOMIC ABSORPTION METHOD FOR DETERMINING NANOGRAM LEVELS OF TOTAL SELENIUM, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 64: 265-268.

CODE N DESCRIPTION

81DAN 01 L.-G. DANIELSSON, D. JAGNER, M. JOSEFSON, AND S. WESTERLUND (1981), COMPUTERIZED POTENTIOMETRIC STRIPPING ANALYSIS FOR THE DETERMINATION OF CADMIUM, LEAD, COPPER, AND ZINC IN BIOLOGICAL MATERIALS, ANALYTICA CHIMICA ACTA, 127: 147-156.

81DIL 01 S. DILLI (1981)
DETERMINATION OF VANADIUM IN PETROLEUM CRUDES AND FUEL OILS BY GAS CHROMATOGRAPHY, ANALYTICA CHIMICA ACTA, 126: 109-119.

81DOG 01 S. DOGAN, G. NEMBRINI AND W. HAERDI (1981)
A NOVEL APPROACH FOR DETERMINATION OF TIN, LEAD AND COPPER IN BIOLOGICAL SAMPLES AND SEDIMENTS BY ALTERNATING CURRENT ANODIC STRIPPING VOLTAMMETRY, ANALYTICA CHIMICA ACTA, 130: 385-390.

81EBD 01 L. EBDON, J. R. WILKINSON AND K. W. JACKSON (1981)
DETERMINATION OF SUB-NANOGRAM AMOUNTS OF MERCURY BY COLD-VAPOUR ATOMIC FLUORESCENCE SPECTROMETRY WITH AN IMPROVED GAS-SHEATHED ATOM CELL, ANALYTICA CHIMICA ACTA, 128: 45-55.

81FAR 01 J. G. FARMER AND M. J. GIBSON (1981)
DIRECT DETERMINATION OF CADMIUM, CHROMIUM, COPPER, AND LEAD IN SILICEOUS STANDARD REFERENCE MATERIALS FROM A FLUOROBORIC ACID MATRIX BY GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETRY, ATOMIC SPECTROSCOPY, 2: 176-178.

81FON 01 H. A. FONER AND I. GAL (1981)
ACCURATE SPECTROPHOTOMETRIC METHOD FOR THE DETERMINATION OF SILICA IN ROCKS, MINERALS AND RELATED MATERIALS, ANALYST, 106: 521-528.

81FRA 01 G. FRAUENWIESER (1981)
PRIVATE COMMUNICATION, TECHNICAL UNIVERSITY OF VIENNA, AUSTRIA.

81GAL 01 M. GALLORINI, E. ORVINI, A. ROLLA, AND M. BURDISSO (1981)
DESTRUCTIVE NEUTRON-ACTIVATION ANALYSIS OF TOXIC ELEMENTS IN SUSPENDED MATERIALS RELEASED FROM REFUSE INCINERATORS, ANALYST, 106: 328-334.

81GAL 02 M. GALLORINI, E. ORVINI, A. ROLLA, AND M. BURDISSO (1981)
RADIOCHEMICAL NEUTRON-ACTIVATION ANALYSIS OF TRACE ELEMENTS IN SUSPENDED MATERIALS RELEASED FROM REFUSE INCINERATORS, ANALYTICAL PROCEEDINGS PUBLISHED BY THE ROYAL SOCIETY OF CHEMISTRY (LONDON), 18: 199-201.

81GLA 01 E. S. GLADNEY AND D. KNAB (1981)
DETERMINATION OF SELENIUM IN TWENTY GEOLOGICAL REFERENCE MATERIALS BY NEUTRON ACTIVATION AND INORGANIC ION EXCHANGE, GEOSTANDARDS NEWSLETTER, 5: 67-69.

81GLA 02 E. S. GLADNEY AND D. R. PERRIN (1981)
INSTRUMENTAL THERMAL NEUTRON ACTIVATION DETERMINATION OF 20 ELEMENTS IN NINETEEN SILICATE REFERENCE MATERIALS, GEOSTANDARDS NEWSLETTER, 5: 113-124.

81GLA 03 E. S. GLADNEY, J. W. OWENS, T. C. GUNDERSON, AND W. E. GOODE (1981), QUALITY ASSURANCE FOR ENVIRONMENTAL ANALYTICAL CHEMISTRY: 1976-1979, LOS ALAMOS SCIENTIFIC LABORATORY REPORT LA-8730-MS, PP. 113-116.

81GLA 04 E. S. GLADNEY, W. E. GOODE, D. R. PERRIN, AND C. E. BURNS (1981), QUALITY ASSURANCE FOR ENVIRONMENTAL ANALYTICAL CHEMISTRY: 1980, LOS ALAMOS NATIONAL LABORATORY REPORT LA-8966-MS, PP. 108-114.

81GOU 01 P. D. GOULDEN, D. H. J. ANTHONY, AND K. D. AUSTEN (1981)
DETERMINATION OF ARSENIC AND SELENIUM IN WATER, FISH, AND SEDIMENTS BY INDUCTIVELY COUPLED ARGON PLASMA EMISSION SPECTROMETRY, ANALYTICAL CHEMISTRY, 53: 2027-2029.

81HAB 01 S. HABIB AND M. J. MINSKI (1981)
NEUTRON ACTIVATION TECHNIQUE FOR THE [illegible] THE SOLUBLE AND PARTICULATE FRACTIONS OF RIVE[illegible]K, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 63: [illegible]395.

81HAH 01 M. H. HAHA, R. W. KUENNEN, J. A. CARUSO, AND F. L. FICKE (1981), TITLE UNKNOWN, JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, IN PRESS.

81HAM 01 H. HAMAGUCHI (1981)
PRIVATE COMMUNICATION, IN 81YAM 01.

CODE N DESCRIPTION

81HAN 01 H.-B. HAN, G. KAISER AND G. TOLG (1981)
DECOMPOSITION OF BIOLOGICAL MATERIALS, ROCKS, AND SOILS IN PURE OXYGEN UNDER DYNAMIC CONDITIONS FOR THE DETERMINATION OF SELENIUM AT TRACE LEVELS, ANALYTICA CHIMICA ACTA, 128: 9-21.

81HIN 01 E. J. HINDERBERGER, M. L. KAISER, AND S. R. KOIRTYOHANN (1981), FURNACE ATOMIC ABSORPTION ANALYSIS OF BIOLOGICAL SAMPLES USING THE L'VOV PLATFORM AND MATRIX MODIFICATION, ATOMIC SPECTROSCOPY, 2: 1-7.

81HOR 01 J. J. HORVATH, J. D. BRADSHAW, J. N. BOWER, M. S. EPSTEIN, AND J. D. WINEFORDNER (1981), COMPARISON OF NEBULIZER-BURNER SYSTEMS FOR LASER-EXCITED ATOMIC FLUORESCENCE FLAME SPECTROMETRY, ANALYTICAL CHEMISTRY, 53: 6-9.

81IMU 01 H. IMURA AND N. SUZUKI (1981)
SUBSTOICHIOMETRIC ISOTOPE DILUTION ANALYSIS FOR TIN WITH SALICYLIDENEAMINO-2-THIOPHENOL COMPLEXATION IN NON-AQUEOUS MEDIUM, TALANTA, 28: 73-79.

81INU 01 T. INUI, S. TERADA, AND H. TAMURA (1981)
DETERMINATION OF ARSENIC BY ARSINE GENERATION WITH REDUCING TUBE FOLLOWED BY GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETRY, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 305: 189-192.

81JAC 01 K. W. JACKSON, L.EBDON, D. C. WEBB AND A. G. COX (1981)
DETERMINATION OF LEAD IN VEGETATION BY A RAPID MICROSAMPLING CUP ATOMIC ABSORPTION PROCEDURE WITH SOLID SAMPLE INTRODUCTION, ANALYTICA CHIMICA ACTA, 128: 67-74.

81JIN 01 S. JINGXIN, T. SHUDE, W. YUQI, C. BINGRU, Q. QINFANG, AND Z. SHEN (1981), DETERMINATION OF 28 TRACE ELEMENTS IN SOILS FROM MOUNT QOMOLANGMA REGION BY INAA, TAKEN FROM 81MTA 01.

81KIB 01 T. KIBA (1981)
PRIVATE COMMUNICATION, IN 81YAM 01.

81KIN 01 H. KINGSTON AND P. A. PELLA (1981)
PRECONCENTRATION OF TRACE METALS IN ENVIRONMENTAL AND BIOLOGICAL SAMPLES BY CATION EXCHANGE RESIN FILTERS FOR X-RAY SPECTROMETRY, ANALYTICAL CHEMISTRY, 53: 223-227.

81KNA 01 G. KNAPP, S. RAPTIS, G. KAISER, G. TOLG, P. SCHRAMEL, AND B. SCHREIBER (1981), A PARTIALLY MECHANIZED SYSTEM FOR THE COMBUSTION OF ORGANIC SAMPLES IN A STREAM OF OXYGEN WITH QUANTITATIVE RECOVERY OF THE TRACE ELEMENTS, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 308: 97-103.

81KOS 01 K. KOSTADINOV AND R. DJINGOVA (1981)
TRACE ELEMENT ANALYSIS OF BIOLOGICAL MATERIALS BY THERMAL AND EPITHERMAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 63: 5-12.

81KRI 01 V. KRIVAN, H. GEIGER, AND H. E. FRANZ (1981)
BESTIMMUNG VON FE, CO, CU, ZN, SE, RB, UND CS IN NBS-OCHSEN-LEBER BLUTPLASMA UND ERYTHROCYTEN DURCH INAA UND AAS, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 305: 399-404.

81KUC 01 J. KUCERA, AND J. J. M. DE GOEIJ (1981)
A COMPARISON OF TWO SEPARATION TECHNIQUES USING NAI(TL) AND GE(LI) SPECTROMETRY FOR TRACE ELEMENT DETERMINATION IN BIOLOGICAL MATERIALS BY NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 63: 23-40.

81KUL 01 I. KULEFF, R. DJINGOVA, K. KOSTADINOV, AND D. TODOROVSKY (1981), INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF TRACE ELEMENTS IN QUARTZ, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 62: 187-194

81KUL 02 I. KULEFF AND K. KOSTADINOV (1981)
EPITHERMAL NEUTRON ACTIVATION ANALYSIS OF URANIUM BY NEPTUNIUM-239 USING HIGH RESOLUTION GAMMA-SPECTROMETRY, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 63: 397-404.

81LAN 01 F.J. LANGMYHR AND I. M. DAHL (1981)
ATOMIC ABSORPTION SPECTROMETRIC DETERMINATION OF PHOSPHORUS IN BIOLOGICAL MATERIALS, ANALYTICA CHIMICA ACTA, 131: 303-306

81LEE 01 S. W. LEE AND J. C. MERANGER (1981)
DETERMINATION OF TOTAL ARSENIC SPECIES BY ANODIC STRIPPING VOLTAMMETRY, ANALYTICAL CHEMISTRY, 53: 130-131.

CODE N DESCRIPTION

81MAR 01 D. F. MARINO AND J. D. INGLE (1981)
ION EXCHANGE SEPARATION OF COBALT FROM ALKALINE EARTH AND SELECTED TRANSITION METALS WITH LOPHINE CHEMILUMINESCENCE DETECTION, ANALYTICAL CHEMISTRY, 53: 292-294.

81MEY 01 A. MEYER, C. HOFER, G. KNAPP, AND G. TOLG (1981)
SELENBESTIMMUNG IN UG/G AND NG/G BEREICH IN ANORGANISCHEN UND ORGANISCHEN MATRICES NACH VERDAMPFUNGSANALYSE IM DYNAMISCHEN SYSTEM DURCH AAS, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 305: 1-10.

81MIZ 01 A. MIZUIKE AND A. IINO (1981)
SURFACE TREATMENT OF BOROSILICATE GLASS BEAKERS FOR PREVENTION OF SODIUM CONTAMINATION, ANALYTICA CHIMICA ACTA, 124: 427-430.

81MOH 01 N. MOHAMED AND R. C. FRY (1981)
SLURRY ATOMIZATION DIRECT ATOMIC SPECTROCHEMICAL ANALYSIS OF ANIMAL TISSUE, ANALYTICAL CHEMISTRY, 53: 450-455.

81MOL 01 A. MOLOKHIA AND A. DYER (1981)
SIMULTANEOUS DETERMINATION OF EIGHT TRACE ELEMENTS IN HUMAN SKIN BY INSTRUMENTAL NEUTRON-ACTIVATION ANALYSIS, ANALYST, 106: 1168-1173.

81MTA 01 MODERN TRENDS IN ACTIVATION ANALYSIS, SIXTH INTERNATIONAL CONFERENCE, UNIVERSITY OF TORONTO, TORONTO, CANADA JUNE 1981; ABSTRACTS.

81NAD 01 R.A. NADKARNI (1981)
DETERMINATION OF VOLATILE ELEMENTS IN COAL AND OTHER ORGANIC MATERIALS BY OXYGEN BOMB COMBUSTION, AMERICAN LABORATORY, 13(8): 22-29.

81NAR 01 H. NARASAKI (1981)
DETERMINATION OF TRACE MERCURY IN MILK PRODUCTS AND PLASTICS BY COMBUSTION IN AN OXYGEN BOMB AND COLD-VAPOUR ATOMIC ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 125: 187-191.

81NEU 01 D. R. NEUMAN AND F. F. MUNSHOWER (1981)
RAPID DETERMINATION OF MOLYBDENUM IN BOTANICAL MATERIAL BY ELECTROTHERMAL ATOMIC ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 123: 325-328.

81NIS 01 Y. NISHIKAWA (1981)
PRIVATE COMMUNICATION, IN 81YAM 01.

81NON 01 N. NONAKA, H. HIGUCHI, H. HAMAGUCHI, K. TOMURA (1981)
LOSSES OF THE ELEMENTS DURING DRY ASHING OF PLANT MATERIALS, BUNSEKI KAGAKU, 30: 599-604.

81OGU 01 K. OGUMA AND R. KURODA (1981)
DRY-COLUMN CHROMATOGRAPHY OF URANIUM. APPLICATION TO CHEMICAL ANALYSIS OF MONAZITE AND PHOSPHATE ROCK FOR URANIUM MIKROCHIMICA ACTA (WIEN) 1981II: 57-67.

81OWE 01 J. W. OWENS (1981)
PRIVATE COMMUNICATION. ENVIRONMENTAL SURVEILLANCE GROUP, LOS ALAMOS NATIONAL LABORATORY, LOS ALAMOS, NEW MEXICO.

81PAN 01 B. PARLANANPOUR, M. THOMPSON, AND L. THORNE (1981)
SIMULTANEOUS DETERMINATION OF TRACE AMOUNTS OF ARSENIC, ANTIMONY AND BISMUTH IN HERBAGE BY HYIRIDE GENERATION AND INDUCTIVELY COUPLED PLASMA ATOMIC-EMISSION SPECTROMETRY. ANALYST. 106: 467-471.

81PAR 01 F.P. PAREKH (1981)
ENERGY-DISPERSIVE X-RAY FLUORESCENCE ANALYSIS OF ORGANIC-RICH SOILS AND SEDIMENTS, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 50: 1-14.

81PIC 01 C. J. PICKFORD (1981)
DETERMINATION OF ARSENIC BY EMISSION SPECTROMETRY USING AN INDUCTIVELY COUPLED PLASMA SOURCE AND THE SYRINGE HYDRIDE TECHNIQUE, ANALYST, 106: 464-467.

81PIH 01 B. PIHLAR, P. VALENTA, AND H. W. NURNBERG (1981)
NEW HIGH-PERFORMANCE ANALYTICAL PROCEDURE FOR THE VOLTAMMETRIC DETERMINATION OF NICKEL IN ROUTINE ANALYSIS OF WATERS, BIOLOGICAL MATERIALS, AND FOOD, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 307: 337-346.

CODE N DESCRIPTION

81POS 01 R. S. POSEY AND R. W. ANDREWS (1981)
DETERMINATION OF SELENIUM(IV) BY ANODIC STRIPPING VOLTAMMETRY WITH AN IN SITU GOLD-PLATED ROTATING GLASSY CARBON DISK ELECTRODE, ANALYTICAL CHIMICA ACTA, 124: 107-112.

81RAF 01 S. E. RAPTIS, W. WEGSCHEIDER, AND G. KNAPP (1981)
THE DETERMINATION OF ARSENIC AT NG/G AND PPM LEVELS IN ORGANIC AND BIOLOGICAL MATRICES, MIKROCHIMICA ACTA (WIEN), 1981I: 93-97

81REA 01 D. C. REAMER AND C. VEILLON (1981)
PREPARATION OF BIOLOGICAL MATERIALS FOR DETERMINATION OF SELENIUM BY HYIRIDE GENERATION - ATOMIC ABSORPTION SPECTROMETRY, ANALYTICAL CHEMISTRY, 53: 1192-1195.

81REA 02 D. C. REAMER AND C. VEILLON (1981)
DETERMINATION OF SELENIUM IN BIOLOGICAL MATERIALS BY STABLE ISOTOPE DILUTION GAS CROMATOGRAPHY -- MASS SPECTROMETRY, ANALYTICAL CHEMISTRY, 53: 2166-2169.

81REE 01 J. REEDNICK (1981)
SPECTROSCOPIE ATOMIQUE: EXCITATION D'UN PLASMA DE HAUTE ENERGIE ET SPECTROMETRIE DE RESOLUTION ELEVEE, ANALUSIS, 9. 14-20.

81REL 01 R. E. RELM AND D. D. HAWN (1981)
DETERMINATION OF TOTAL SULFUR IN HYDROCARBONS BY REDUCTIVE PYROLYSIS WITH POLAROGRAPHIC DETECTION, ANALYTICAL CHEMISTRY, 53: 1088-1093.

81ROD 02 G. RODAYE, G. WEBER, J. DELBROUCK, I. ROELANDTS, F. BARISCH, AND A. COLLIGNON (1981), ATTEMPTS TO IMPROVE PIXE QUANTITATIVE TRACE ELEMENT ANALYSIS OF BIOMEDICAL MATERIALS, NUCLEAR INSTRUMENTS AND METHODS, 181: 59-62.

81SAS 01 C. S. SASTRI, R. CALETKA, AND V. KRIVAN (1981)
SIMULTANEOUS DETERMINATION OF BORON AND LITHIUM BY CHARGED PARTICLE ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 53: 765-770.

81SAS 02 C. S. SASTRI, R. CALETKA, AND V. KRIVAN (1981)
ANALYSIS OF REFRACTORY METALS FOR LITHIUM, BORON, AND NITROGEN BY CHARGED PARTICLE ACTIVATION YIELDING BE-7 AS THE INDICATOR RADIONUCLIDE, TAKEN FROM 81MTA 01.

81SEG 01 CH. SEGEBADE AND H.-U. FUSBAN (1981)
URANIUM ANALYSIS BY ACTIVATION WITH 30 MEV-BREMSSTRAHLUNG, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 48: 311-328.

81SHA 01 P. G. SHAW, D. MCKOWN, AND S. E. MANAHAN (1981)
TRACE ELEMENT DETERMINATIONS IN SHALE OIL PRODUCTS BY NEUTRON ACTIVATION, ANALYTICA CHIMICA ACTA, 123: 65-74.

81SHI 01 T. SHIGEMATSU AND K. KUDO (1981)
SUBSTOICHIOMETRIC DETERMINATION OF PHOSPHORUS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 67: 307-319

81SLO 01 H. A. VAN DER SLOOT, D. HOEDE, T. J. L. KLINKERS, AND H. A. DAS (1981), THE DETERMINATION OF ARSENIC, SELENIUM, AND ANTIMONY IN ROCKS, SEDIMENTS, FLY ASH, AND SLAG, PROCEEDINGS OF THE SIXTH MODERN TRENDS IN ACTIVATION ANALYSIS CONFERENCE, TORONTO, CANADA.

81STR 01 W. B. STROUBE, W. C. CUNNINGHAM, AND M. ALLEGRINI (1981)
ACTIVATION ANALYSIS PROGRAM OF THE FOOD AND DRUG ADMINISTRATION AT THE NBSR, IN NBS REACTOR: SUMMARY OF ACTIVITIES JULY 1979 TO JUNE 1980, NBS TECHNICAL NOTE 1142, PP.186-188.

81SUZ 01 S. SUZUKI, S. HIRAI AND K. NODA (1981)
DETERMINATION OF SELENIUM IN HERB PLANTS BY NEUTRON ACTIVATION ANALYSIS USING A COINCIDENCE COUNTING METHOD, BUNSEKI KAGAKU, 31: 67-71.

81SZY 01 F. J. SZYDLOWSKI, D. L. DUNMIRE, E. E. PECK, R. L. EGGERS, AND W. R. MATSON (1981), SIMULTANEOUS DETERMINATION OF IRON(II), IRON(III), AND TOTAL IRON IN SPHAGNUM MOSS PEAT BY PROGRAMMABLE VOLTAMMETRY ON A GRAPHITE TUBULAR ELECTRODE, ANALYTICAL CHEMISTRY, 53: 193-196.

81TAN 01 K. TANABE, K. CHIBA, H. HARAGUCHI, AND K. FUWA (1981)
DETERMINATION OF MERCURY AT THE ULTRATRACE LEVEL BY ATMOSPHERIC PRESSURE HELIUM MICROWAVE-INDUCED PLASMA EMISSION SPECTROMETRY, ANALYTICAL CHEMISTRY, 53: 1450-1453.

CODE N	DESCRIPTION
81TOE 01	K. TOEI AND Y. SHIMOISHI (1981) DETERMINATION OF ULTRAMICRO AMOUNTS OF SELENIUM BY GAS CHROMATOGRAPHY WITH ELECTRON-CAPTURE DETECTION, TALANTA, 28: 967-972
81TUR 01	K. E. TURNER (1981) PRIVATE COMMUNICATION, BHP. CENTRAL RESEARCH LABORATORIES, SHORTLAND, AUSTRALIA.
81UCH 01	T. UCHIDA, I. KOJIMA AND C. IIDA (1981) APPLICATION OF AN AUTOMATICALLY TRIGGERED DIGITAL INTEGRATOR TO FLAME ATOMIC-ABSORPTION SPECTROMETRY OF COPPER USING A DISCRETE NEBULISATION TECHNIQUE, ANALYST, 106: 206-212.
81UCH 02	H. UCHIDA, Y. SHIMOISHI AND K. TOEI (1981) RAPID DETERMINATION OF TRACE AMOUNTS OF SELENIUM IN BIOLOGICAL SAMPLES BY GAS CHROMATOGRAPHY WITH ELECTRON-CAPTURE DETECTION, ANALYST, 106: 757-762
81UTH 01	E. O. UTHUS, H. E. COLLINGS, W. E. CORNATZER, AND F. H. NIELSEN (1981), DETERMINATION OF TOTAL ARSENIC IN BIOLOGICAL SAMPLES BY ARSINE GENERATION AND ATOMIC ABSORPTION SPECTROMETRY, ANALYTICAL CHEMISTRY, 53: 2221-2224.
81VER 02	A. VERBUEKEN, E. MICHIELS, AND R. VAN GRIEKEN (1981) TOTAL ANALYSIS OF PLANT MATERIAL AND BIOLOGICAL TISSUE BY SPARK SOURCE MASS SPECTROMETRY, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 309: 300-304.
81WAL 01	G. P. WALLACE (1981) APPLICATION OF A SEQUENTIAL SCANNING ICP TO THE ANALYSIS OF GEOLOGICAL MATERIALS, ATOMIC SPECTROSCOPY, 2: 87-90.
81WAL 02	G. F. WALLACE AND R. D. EDIGER (1981) OPTIMIZATION OF ICP OPERATING CONDITIONS FOR THE DETERMINATION OF SULFUR IN OILS, ATOMIC SPECTROSCOPY, 2: 169-172.
81WAN 01	L. E. WANGEN (1981) RELATIONSHIPS BETWEEN THE ELEMENTAL COMPOSITION AND PARTICLE SIZES OF AEROSOLS WITH AND WITHOUT IMPACT FROM A COAL-FIRED POWER PLANT, LOS ALAMOS SCIENTIFIC LABORATORY REPORT LA-8759-MS.
81WEI 01	A. D. WEISS, R. N. SAVAGE AND G. M. HIEFTJE (1981) DEVELOPMENT AND CHARACTERIZATION OF A 9-MM INDUCTIVELY-COUPLED ARGON PLASMA SOURCE FOR ATOMIC EMISSION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 124: 245-258.
81WIL 01	R. E. WILLIAMS, P. K. HOPKE, AND R. A. MEYER (1981) TRACE MULTIELEMENT ANALYSIS USING HIGH-FLUX FAST-NEUTRON ACTIVATION, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 63: 187-199.
81WIL 02	R. E. WILLIAMS (1981) GAMMA-RAY SPECTROSCOPY FOLLOWING HIGH-FLUX 14-MEV NEUTRON ACTIVATION, PH.D. THESIS, UNIVERSITY OF ILLINOIS, AND UCRL-53208, LAWRENCE LIVERMORY LABORATORY REPORT.
81WOL 01	K. A. WOLNIK, F. L. FRICKE, M. H. HAHN, AND J. A. CARUSO (1981), SAMPLE INTRODUCTION SYSTEM FOR SIMULTANEOUS DETERMINATION OF VOLATILE ELEMENTAL HYDRIDES AND OTHER ELEMENTS IN FOODS BY INDUCTIVELY COULPED ARGON PLASMA EMISSION SPECTROMETRY, ANALYTICAL CHEMISTRY, 53: 1030-1035.
81YAM 01	M. YAMAMOTO, T. SHOHJII, T. KUMAMARU, AND Y. YAMAMOTO (1981) MASKING EFFECT OF POTASSIUM IODIDE ON THE INTERFERENCES IN THE ATOMIC ABSORPTION SPECTROMETRIC DETERMINATION OF ANTIMONY UTILIZING STIBINE GENERATION BY SODIUM BOROHYDRIDE TABLET REDUCTION, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 305: 11-14.
81YAN 01	K. YANAGI AND M. AMBE (1981) DETERMINATION OF ARSENIC IN BIOLOGICAL, ENVIRONMENTAL AND GEOLOGICAL MATERIALS BY ARSINE EVOLUTION-FLAMELESS ATOMIC ABSORPTION SPECTROPHOTOMETRY, BUNSEKI KAGAKU, 30: 209-214.
81YAS 01	A. YASUI, H. KOIZUMI, AND C.TSUTSUMI (1981) DETERMINATION OF CALCIUM IN FOOD SAMPLES; APPLICATION OF ADDING INTERFERENCE SUPPRESSING REAGENT-ATOMIC ABSORPTION SPECTROPHOTOMETRIC METHOD, BUNSEKI KAGAKU, 30: T65-T71.

CODE N	DESCRIPTION
81YUZ 01	M. YUZAWA AND N. SUZUKI (1981) SUBSTOICHIOMETRIC ISOTOPE DILUTION ANALYSIS OF CALCIUM IN BIOLOGICAL MATERIAL, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 62: 115-124.
81ZAU 01	G.-P. ZAUKE (1981) CADMIUM IN GAMMARIDAE (AMPHIPODA:CRUSTACEA) OF THE RIVERS WERRA AND WESER: GEOGRAPHICAL VARIATION AND CORRELATION TO CADMIUM IN SEDIMENTS, ENVIRONMENTAL POLLUTION, 2: 465-474.
82AKA 01	J. AKASHI, I. FUKUSHIMA, A. IMAHORI, S. SHIOBARA, Y. TAKAHASHI, AND K. TOMURA (1982), MULTIELEMENT ANALYSIS OF THE HAIR OF MINING INDUSTRY WORKERS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 68: 59-65.
82BAR 01	U. BARTELS AND T. T. PHAM (1982) SPECTROPHOTOMETRIC DETERMINATION OF SULPHUR IN PLANTS USING SCHONIGER COMBUSTION AND DIMETHYLSULPHONAZO III, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 310: 13-15.
82BEN 01	H. BENARD AND M. PINTA (1982) DETERMINATION OF ARSENIC IN ATMOSPHERIC AEROSOLS BY ATOMIC ABSORPTION WITH ELECTROTHERMAL ATOMIZATION, ATOMIC SPECTROSCOPY, 3: 8-12.
82BYR 01	A.R. BYRNE (1982) SIMULTANEOUS RADIOCHEMICAL NEUTRON ACTIVATION ANALYSIS OF VANADIUM, MOLYBDENUM AND ARSENIC IN BIOLOGICAL SAMPLES, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 52: 99-110.
82CAL 01	G. CALDERONI AND T. FERRI (1982) DETERMINATION OF THALLIUM AT SUBTRACE LEVEL IN ROCKS AND MINERALS BY COUPLING DIFFERENTIAL PULSE ANODIC-STRIPPING VOLTAMMETRY WITH SUITABLE ENRICHMENT METHODS, TALANTA, 29: 371-375.
82CHA 01	J. F. CHAPMAN AND L. S. DALE (1982) THE USE OF ALKALINE PERMANGANATE IN THE PREPARATION OF BIOLOGICAL MATERIALS FOR THE DETERMINATION OF MERCURY BY ATOMIC ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 134: 379-382.
82CHR 01	J. K. CHRISTENSEN, L. KRYGER AND N. PIND (1982) THE DETERMINATION OF TRACES OF CADMIUM, LEAD AND THALLIUM IN FLY ASH BY POTENTIOMETRIC STRIPPING ANALYSIS, ANALYTICA CHIMICA ACTA, 141: 131-146.
82CLE 01	M.S. CLEGG, C.L. KEEN, B. LONNERDAL, AND L.S. HURLEY (1982) ANALYSIS OF TRACE ELEMENTS IN ANIMAL TISSUES. DETERMINATION OF MANGANESE BY GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROPHOTOMETRY, BIOLOGICAL TRACE ELEMENT RESEARCH, 4: 145-156.
82COH 01	I.M. COHEN, S.M. RESNIZKY, G.B. BARO (1982) ACTIVATION ANALYSIS OF THALLIUM BY TL-203(N,2N)TL-202 REACTION IN NUCLEAR REACTORS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 72: 451-461.
82CON 01	C. P. CONRAD, M. W. ROWE, AND E. S. GLADNEY (1982) COMPARATIVE DETERMINATION OF URANIUM IN SILICATES BY DELAYED NEUTRON ACTIVATION ANALYSIS, GEOSTANDARDS NEWSLETTER, 6: 1-4.
82COR 01	E. CORTES, N. GRAS, L. MUNOZ, AND V. CASSORLA (1982) A STUDY OF SOME TRACE ELEMENTS IN INFANT FOODS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 69: 401-415.
82CRO 01	J. G. CROCK AND F. E. LICHTE (1982) DETERMINATION OF RARE EARTH ELEMENTS IN GEOLOGICAL MATERIALS BY INDUCTIVELY COUPLED ARGON PLASMA/ATOMIC EMISSION SPECTROMETRY, ANALYTICAL CHEMISTRY, 54: 1329-1332.
82CUR 01	D. B. CURTIS (1982) PRIVATE COMMUNICATION, GROUP INC-7, LOS ALAMOS NATIONAL LABORATORY.
82DAK 01	T. DAKUBU AND M.D. SWAINE (1982) CALCIUM AND POTASSIUM LEVELS IN LEAVES MEASURED BY X-RAY FLUORESCENCE ANALYSIS, INTERNATIONAL JOURNAL OF APPLIED RADIATION ISOTOPES, 33: 193-196.
82DAM 01	E. DAMSGAARD, K. OSTERGAARD, AND K. HEYDORN (1982) CONCENTRATIONS OF SELENIUM AND ZINC IN HUMAN KIDNEYS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 70: 67-76.

CODE N DESCRIPTION

82DOO 01 K.J. DOOLAN (1982)
THE DETERMINATION OF TRACES OF MERCURY IN SOLID FUELS BY HIGH-TEMPERATURE COMBUSTION AND COLD-VAPOUR ATOMIC ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 140: 187-195.

82EBD 01 L. EBDON, J.R. WILKINSON AND K.W. JACKSON (1982)
DETERMINATION OF MERCURY IN COAL BY NON-OXIDATIVE PYROLYSIS AND COLD VAPOUR ATOMIC-FLUORESCENCE SPECTROMETRY, ANALYST, 107: 269-275.

82EBD 02 L. EBDON AND W.C. PEARCE (1982)
DIRECT DETERMINATION OF ARSENIC IN COAL BY ATOMIC-ABSORPTION SPECTROSCOPY USING SOLID SAMPLING AND ELECTROTHERMAL ATOMISATION, ANALYST, 107: 942-950.

82EHM 01 W.D. EHMANN, W.R. MARKESBERY, T.I.M. HOSSAIN, M. ALAUDDIN, AND D. T. GOODIN (1982), TRACE ELEMENTS IN HUMAN BRAIN TISSUE BY INAA, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 70: 57-65.

82ELS 02 C.M. ELSON, J. MILLEY AND A. CHATT (1982)
DETERMINATION OF ARSENIC AND ANTIMONY IN GEOLOGICAL MATERIAL AND NATURAL WATERS BY CORECIPITATION WITH SELENIUM AND NEUTRON ACTIVATION-GAMMA SPECTROMETRY, ANALYTICA CHIMICA ACTA, 142: 269-275

82FLA 01 F. J. FLANAGAN, R. MOORE, AND P. J. ARUSCAVAGE (1982)
MERCURY IN GEOLOGIC REFERENCE SAMPLES,
GEOSTANDARDS NEWSLETTER, 6: 25-46.

82GAJ 01 R.J. GAJAN, S.G. CAPAR, C.A. SUBJOC, AND M. SANDERS (1982)
DETERMINATION OF LEAD AND CADMIUM IN FOODS BY ANODIC STRIPPING VOLTAMMETRY: I. DEVELOPMENT OF METHOD, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 65: 970-975.

82GLA 02 E. S. GLADNEY, D. R. PERRIN, C. E. BURNS, R. ROBINSON (1982)
QUALITY ASSURANCE FOR ENVIRONMENTAL ANALYTICAL CHEMISTRY: 1981, LOS ALAMOS NATIONAL LABORATORY REPORT, LA-9579-MS, PP. 100-105.

82GOL 01 J. GOLDBERG AND R. SACKS (1982)
DIRECT DETERMINATION OF METALLIC ELEMENTS IN SOLID, POWDER SAMPLES WITH ELECTRICALLY VAPORIZED THIN FILM ATOMIC EMISSION SPECTROMETRY, ANALYTICAL CHEMISTRY, 54: 2179-2186.

82GRA 01 C. C. GRAHAM, M. D. GLASCOCK, J. J. CARNI, J. R. VOGT, AND T. G. SPALDING (1982), DETERMINATION OF ELEMENTS IN NATIONAL BUREAU OF STANDARDS' GEOLOGICAL STANDARD REFERENCE MATERIALS BY NEUTRON ACTIVATION ANALYSIS, ANALYTICAL CHEMISTRY, 54: 1623-1627.

82GRI 01 A.P. GRIMANIS, G.D. KANIAS (1982)
RAPID DETERMINATION OF MERCURY IN BIOLOGICAL MATERIALS BY RADIOCHEMICAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 72: 587-595.

82GRO 01 Z. GROBENSKI, R. LEHMANN, R. TAMM, AND B. WELZ (1982)
IMPROVEMENTS IN GRAPHITE FURNACE ATOMIC ABSORPTION MICROANALYSIS WITH SOLID SAMPLING, MIKROCHIMICA ACTA (WIEN), 1982 I: 115-125.

82GUP 02 J. G. SEN GUPTA (1982)
FLAME AND GRAPHITE FURNACE ATOMIC ABSORPTION AND OPTICAL EMISSION SPECTROSCOPIC DETERMINATION OF YTTRIUM AND THE RARE-EARTH CONTENTS OF SIXTEEN INTERNATIONAL REFERENCE SAMPLES OF ROCKS AND COAL, GEOSTANDARDS NEWSLETTER, 6: 241-248.

82HAD 01 I. HADZISTELIOS AND C. PAPADOPOULOU (1982)
RADIOCHEMICAL DETERMINATION OF MOLYBDENUM IN BIOLOGICAL TISSUES BY ION EXCHANGE, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 72: 597-607

82HAH 01 M. H. HAHN, K. A. WOLNIK, F. L. FRICKE, AND J. CARUSO (1982)
HYDRIDE GENERATION/CONDENSATION SYSTEM WITH AN INDUCTIVELY COUPLED ARGON PLASMA POLYCHROMATOR FOR DETERMINATION OF ARSENIC, BISMUTH, GERMANIUM, ANTIMONY, SELENIUM, AND TIN IN FOODS, ANALYTICAL CHEMISTRY, 54: 1048-1052.

82HEI 01 H. HEINRICHS AND H. KELTSCH (1982)
DETERMINATION OF ARSENIC, BISMUTH, CADMIUM, SELENIUM, AND THALLIUM BY ATOMIC ABSORPTION WITH A VOLATILIZATION TECHNIQUE, ANALYTICAL CHEMISTRY, 54: 1211-1214.

CODE N DESCRIPTION

82HOE 01 M. HOENIG, C. LIMA ET S. DUPIRE (1982)
VALIDITE DES DETERMINATIONS PAR SPECTROMETRIE D'ABSORPTION ATOMIQUE AVEC ATOMISATION ELECTROTHERMIQUE DU CADMIUM, COBALT, CHROME, NICKEL ET PLOMB, ANALUSIS, 10: 132-139.

82HOE 02 M. HOENIG ET P. VAN HOEYWEGHEN (1982)
APPLICATION DE LA SAA ELECTROTHERMIQUE A L'ANALYSE DES MATRICES COMPLEXES: CAS DE L'ARSENIC DAUS LES VEGETAUX, SPECTROCHIMICA ACTA, 37B: 817-828.

82INU 01 T. INUI, S.TERADA, H. TAMURA AND N. ICHINOSE (1982)
DETERMINATION OF SELENIUM BY HYDRIDE GENERATION WITH REDUCING TUBE FOLLOWED BY GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETRY, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 311: 492-495.

82JAG 01 D. JAGNER AND K. AREN (1982)
FLOW POTENTIOMETRIC STRIPPING ANALYSIS FOR MERCURY(II) IN URINE, SEDIMENT AND ACID DIGEST OF BIOLOGICAL MATERIAL ANALYTICA CHIMICA ACTA, 141: 157-162.

82JEN 01 D. R. JENKE AND F. E. DIEBOLD (1982)
CHARACTERIZATION OF PHOSPHORITE ORES, ANALYTICAL CHEMISTRY, 54: 1008-1011.

82JEN 02 D.R. JENKE AND R. WOODRIFF (1982)
APPLICATION OF THE WOODRIFF CONSTANT TEMPERATURE GRAPHITE FURNACE ATOMIZER TO ATOMIC SPECTROSCOPY, AMERICAN LABORATORY, 14(8): 14-26.

82JEN 03 C.D. JENNINGS AND T.M. BEASLEY (1982)
RADIOCHEMICAL DETERMINATION OF COBALT-60 IN ENVIRONMENTAL SAMPLES, TALANTA, 29: 871-873.

82JON 01 J. W. JONES, S. C. CAPAR, AND T. C. O'HAVER (1982)
CRITICAL EVALUATION OF A MULTI-ELEMENT SCHEME USING PLASMA EMISSION AND HYDRIDE EVOLUTION ATOMIC-ABSORPTION SPECTROMETRY FOR THE ANALYSIS OF PLANT AND ANIMAL TISSUES, ANALYST (LONDON), 107: 353-377.

82KEE 01 J. A. KEENAN AND D. HOLMES (1982)
QUANTITATIVE TRACE ANALYSIS BY X-RAY FLUORESCENCE USING THE COMPUTER PROGRAM NRLXRF, APPLIED SPECTROSCOPY, 36: 19-22.

82KIM 01 T. KIMURA, T. ISHIMORI, AND T. HAMADA (1982)
REMOVAL OF SODIUM-24 BY A CHROMATOGRAPHIC EXTRACTION WITH A KIESELGUHR COLUMN AND A CROWN ETHER SOLUTION, ANALYTICAL CHEMISTRY, 54: 1129-1131.

82KIR 01 T. KIRIYAMA AND R. KURODA (1982)
COMBINED ION EXCHANGE-SPECTROPHOTOMETRIC METHOD FOR THE SIMULTANEOUS DETERMINATION OF VANADIUM AND COBALT IN BIOLOGICAL MATERIALS, ANALYST, 107: 505-510.

82KIS 01 E. KISS (1982)
DETERMINATION OF SILICA IN GEOLOGICAL MATERIALS BY ATOMIC ABSORPTION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 140: 197-204.

82KOI 01 S.R. KOIRTYOHANN, M.L. KAISER AND E.J. HINDERBERGER (1982)
FOOD ANALYSIS FOR LEAD USING FURNACE ATOMIC ABSORPTION AND A L'VOV PLATFORM, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 65: 999-1003.

82KRA 01 M. KRALIK (1982)
RB-SR AGE DETERMINATIONS OF PRECAMBRIAN CARBONATE ROCKS OF THE CARPENTARIAN MCARTHUR BASIN, NORTHERN TERRITORIES, AUSTRALIA, PRECAMBRIAN RESEARCH, 18: 157-170.

82KRI 01 V. KRIVAN UND M. LANG (1982)
RADIOTRACERUNTERSUCHUNGEN ZUR DIREKTEN BESTIMMUNG VON KUPFER IN BIOLOGISCHEN MATRICES DURCH FLAMMENLOSE AAS, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 312: 324-330

82KUE 01 R. W. KUENNEN, D. A. WOLNIK, F. FRICKE, AND J. CARUSO (1982)
PRESSURE DISSOLUTION AND REAL SAMPLE MATRIX CALIBRATION FOR MULTIELEMENT ANALYSIS OF RAW AGRICULTURAL CROPS BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPECTROMETRY, ANALYTICAL CHEMISTRY, 54: 2146-2150.

82KUE 03 R. W. KUENNEN, M. H. HAHN, F. L. FRICKE, AND K. A. WOLNIK (1982)
HYDRIDE GENERATION AND CONDENSATION FLAME ATOMIC ABSORPTION SPECTROSCOPIC DETERMINATION OF ANTIMONY IN RAW COFFEE BEANS AND PROCESSED COFFEE, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS. 65: 1146-1148.

CODE N	DESCRIPTION
82LAS 01	D. D. LASS, N. C. ROCHE, AND A. O. SANNI, E. A. SCHWEIKERT, AND J. F. OJO (1982), HEAVY ION ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 70: 251-272.
82LAU 01	J. C. LAUL, E. A. LEPEL, W. C. WEIMER, AND N. WOGMAN (1982) PRECISE TRACE RARE EARTH ANALYSIS BY RADIOCHEMICAL NEUTRON ACTIVATION, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 69: 181-196.
82LEU 01	F. C. LEUNG, K. S. SUBRAMANIAN, AND J. MERANGER (1982) DETERMINATION OF ARSENIC IN POLLUTED WATERS BY DIFFERENTIAL PULSE ANODIC-STRIPPING VOLTAMMETRY, TALANTA, 29: 515-518.
82LIA 01	C. F.-H. LIAO (1982) TELLURIUM AS CATALYST IN SEMIMICRO KJELDAHL METHOD FOR TOTAL NITROGEN DETERMINATION, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 65: 786-790.
82LO 01	J. M. LO, J. C. WEI, M. H. YANG, AND S. J. YEH (1982) PRECONCENTRATION OF MERCURY WITH LEAD DIETHYLDITHIOCARBAMATE FOR NEUTRON ACTIVATION ANALYSIS OF BIOLOGICAL AND ENVIRONMENTAL SAMPLES, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 72: 571-585.
82LYO 01	D. J. LYONS AND R. L. ROOFAYEL (1982) DETERMINATION OF MOLYBDENUM IN PLANT MATERIAL USING INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY, ANALYST, 107: 331-334
82MAT 01	K. MATSUMOTO AND K. FUWA (1982) MOLECULAR EMISSION SPECTROMETRY WITH HYDRIDE GENERATION FOR DETERMINATION OF SUBNANOGRAM AMOUNTS OF ARSENIC, ANALYTICAL CHEMISTRY, 54: 2012-2015.
82MAY 01	T. W. MAY (1982) RECOVERY OF ENDOGENOUS SELENIUM FROM FISH TISSUES BY OPEN SYSTEM DRY ASHING, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 65: 1140-1145.
82MIL 01	J. C. MILLS, K. E. TURNER, F. W. ROLLER, AND C. B. BELCHER (198 DIRECT DETERMINATION OF TRACE ELEMENTS IN COAL: WAVELENGTH-DISPERSIVE X-RAY SPECTROMETRY WITH MATRIX CORRECTION USING COMPTON SCATTERED RADIATION, X-RAY SPECTROMETRY, 10: 131-137.
82MOR 01	J. MORTATTI, F. J. KRUG, L. C. R. PESSENDA, AND E. ZAGATTO (198 DETERMINATION OF IRON IN NATURAL WATERS AND PLANT MATERIAL WITH 1,10-PHENANTHROLINE BY FLOW INJECTION ANALYSIS, ANALYST, 107: 659-663.
82MOR 02	J. S. MORRIS, M. F. SMITH, R. E. MORROW, E. D. HEIMANN, J.C. HANCOCK, AND T. GALL (1982) INAA DETERMINATION OF SELENIUM VIA SE-77M IN PLASMA, SEMEN AND HAIR SAMPLES FROM BEEF AND DAIRY BULLS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 69: 473-494.
82NAD 01	R. A. NADKARNI (1982) APPLICATIONS OF HYDRIDE GENERATION-ATOMIC ABSORPTION SPECTROMETRY TO COAL ANALYSIS, ANALYTICA CHIMICA ACTA, 135: 363-368.
82NAD 02	R. A. NADKARNI, R. I. BOTTO, AND S. E. SMITH (1982) COMPARISON OF TWO ATOMIC SPECTROSCOPIC METHODS FOR ELEMENTAL ANALYSIS OF GEOLOGICAL MATERIALS, ATOMIC SPECTROSCOPY, 3: 180-184.
82NYG 01	D. D. NYGAARD AND J. H. LOWRY (1982) SAMPLE DIGESTION PROCEDURES FOR SIMULTANEOUS DETERMINATION OF ARSENIC, ANTIMONY, AND SELENIUM BY INDUCTIVELY COUPLED ARGON PLASMA EMISSION SPECTROMETRY WITH HYDRIDE GENERATION, ANALYTICAL CHEMISTRY, 54: 803-807.
82OBR 01	I. OBRUSNIK AND S. POSTA (1982) INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF NBS 1633A FLY ASH AND 1632A BITUMINOUS COAL REFERENCE SAMPLES WITH THE USE OF SHORT IRRADIATION, GEOSTANDARDS NEWSLETTER, IN PRESS.
82OMA 01	H. OMAR AND H. J. M. BOWEN (1982) PRE-CONCENTRATION OF ENVIRONMENTAL TIN AND ITS DETERMINATION USING CATECHOL VIOLET, ANALYST, 107: 654-658.
82OWE 01	J. W. OWENS, E. S. GLADNEY, AND D. KNAB (1982) DETERMINATION OF BORON IN GEOLOGICAL MATERIALS BY INDUCTIVELY-COUPLED PLASMA EMISSION SPECTROMETRY, ANALYTICA CHIMICA ACTA, 135: 169-172.
82POL 01	H. POLKOWSKA-MOTRENKO, M. DEMELJ, A. R. BYRNE, A. FAJGELJ, P. STEGNAR, AND L. KOSTA (1982) RADIOCHEMICAL NEUTRON ACTIVATION ANALYSIS OF SELENIUM USING CARBAMATE EXTRACTION, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 53: 319-328.
82PRE 01	J. R. PREER, B. R. STEPHENS, AND C. W. BLAND (1982) SAMPLE PREPARATION IN DETERMINATION OF LEAD IN GARDEN VEGETABLES BY FLAME ATOMIC ABSORPTION SPECTROPHOTOMETRY, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 65: 1010-1014.
82QUR 01	I. H. QURESHI, M. S. CHAUDHARY, AND S. AHMAD (1982) TRACE ELEMENT CONCENTRATION IN HEAD HAIR OF THE INHABITANTS OF THE RAWALPINDI-ISLAMABAD AREA, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 68: 209-218.
82RAI 01	T.C. RAINS, T.A. RUSH, AND T.A. BUTLER (1982) INNOVATIONS IN ATOMIC ABSORPTION SPECTROPHOTOMETRY WITH ELECTROTHERMAL ATOMIZATION FOR DETERMINING LEAD IN FOODS, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 65: 994-999.
82RIT 01	C. J. RITTER (1982) THE DRY-ASHING METHOD OF PREPARING SEWAGE SLUDGE FOR CD AND PB DETERMINATIONS BY AAS, AMERICAN LABORATORY, 14(8):72-73.
82ROE 01	K. K. ROE, W. C. BURNETT, K. H. KIM, AND M. J. BEERS (1982) EXCESS PROTACTINIUM IN PHOSPHATE NODULES FROM A COASTAL UPWELLING ZONE, EARTH AND PLANETARY SCIENCE LETTERS, 60: 39-46.
82ROE 02	I. ROELANDTS, G. ROBAYE, G. WEBER, J.M. DELBROUCK, P. BARTSCH, A. COLLIGNON, J. YUJIE (1982) NON-DESTRUCTIVE DETERMINATION OF BROMINE IN BLOOD SERUM SAMPLES USING PROTON INDUCED X-RAY EMISSION SPECTROMETRY, RADIOCHEMICAL AND RADIOANALYTICAL LETTERS, 50: 319-332.
82SAR 01	R. C. SARKAR AND M. S. DAS (1982) DIFFERENTIAL SPECTROPHOTOMETRIC DETERMINATION OF SILICA IN ROCKS AS ALPHA-MOLYBDOSILICIC ACID IN PRESENCE OF PHOSPHATE AND OTHER INTERFERENCES, ANALYTICA CHIMICA ACTA, 134: 401-405.
82SAT 01	T. SATO AND T. KATO (1982) ESTIMATES OF IODINE IN BIOLOGICAL MATERIALS BY EPITHERMAL NEUTRON ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 68: 175-180.
82SAT 02	R. D. SATZGER, C. S. CLOW, E. BONNIN, AND F. L. FRICKE (1982) DETERMINATION OF BACKGROUND LEVELS OF LEAD AND CADMIUM IN RAW AGRICULTURAL CROPS BY USING DIFFERENTIAL PULSE ANODIC STRIPPING VOLTAMMETRY, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 65: 987-991.
82SCH 01	P. SCHRAMEL AND XU LI-QIANG (1982) DETERMINATION OF BERYLLIUM IN THE PARTS-PER-BILLION RANGE IN THREE STANDARD REFERENCE MATERIALS BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPECTROMETRY, ANALYTICAL CHEMISTRY, 54: 1333-1336.
82SCH 03	A. A. SCHILT AND M. R. DI TUSA (1982) SPECTROPHOTOMETRIC DETERMINATION OF IRON AND REDUCING AGENTS WITH PPTS, A NEW WATER-SOLUBLE FERROIN-TYPE CHROMOGEN OF SUPERIOR SENSITIVITY, TALANTA, 29: 129-132.
82SCH 04	P. SCHRAMEL, XU LI-QIANG, A. WOLF, AND S. HASSE (1982) ICP-EMISSIONSPEKTROSKOPIE: EIN ANALYTISCHES VERFAHREN ZUR KLARSCHLAMM UND BODENUBERWACHUNG IN DER ROUTINE, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 313: 213-216.
82SCH 05	J.O. SCHMIDT, L. PALGAARD, J. WESTERMANN, AND M. E. MCCLAIN (1982) DETERMINATION OF BORON BY FAST *INSTRUMENTAL NEUTRON ACTIVATION* ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 72: 425-436.
82SEG 01	C. SEGEBADE, M. KUHL, B. F. SCHMITT, AND R. NEIDER (1982) SOME REMARKS ON THE STATE OF PHOTON ACTIVATION ANALYSIS AND THE USE OF INTERNAL STANDARDS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 72: 665-696.
82SMI 01	D. H. SMITH, J. R. WALTON, H. S. MCKOWN, R. L.WALKER, AND J. A. CARTER (1982), A MOBILE MASS SPECTROMETRY LABORATORY FOR ISOTOPIC RATIO MEASUREMENTS OF URANIUM AND PLUTONIUM, ANALYTICA CHIMICA ACTA, 142: 355-359.

CODE	N	DESCRIPTION
82SUB	01	K.S. SUBRAMANIAN AND J.C. MERANGER (1982) RAPID HYDRIDE EVOLUTION-ELECTROTHERMAL ATOMISATION ATOMIC-ABSORPTION SPECTROPHOTOMETRIC METHOD FOR DETERMINING ARSENIC AND SELENIUM IN HUMAN KIDNEY AND LIVER, ANALYST, 107: 157-162.
82SUZ	01	M. SUZUKI AND K. OHTA (1982) REDUCTION OF INTERFERENCES WITH THIOUREA IN THE DETERMINATION OF CADMIUM BY ELECTROTHERMAL ATOMIC ABSORPTION SPECTROMETRY, ANALYTICAL CHEMISTRY, 54: 1686-1689.
82SUZ	02	S. SUZUKI AND S. HIRAI (1982) DETERMINATION OF TRACE ELEMENTS IN COAL AND FLY ASH BY NEUTRON ACTIVATION ANALYSIS, BUNSEKI KAGAKU, 31: 443-449.
82SUZ	03	M. SUZUKI AND K. OHTA (1982) DETERMINATION OF STRONTIUM IN BIOLOGICAL SAMPLES BY ATOMIC EMISSION SPECTROMETRY WITH ELECTROTHERMAL ATOMIZATION, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 313: 34-37.
82TAM	01	G. K. H. TAM AND G. LACROIX (1982) DRY ASHING, HYDRIDE GENERATION ATOMIC ABSORPTION SPECTROMETRIC DETERMINATION OF ARSENIC AND SELENIUM IN FOODS, JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, 65: 647-651.
82TER	01	S. TERASHIMA (1982) DETERMINATION OF TRACE AMOUNTS OF TIN IN SEVENTY-THREE GEOCHEMICAL REFERENCE SAMPLES BY ATOMIC ABSORPTION SPECTROMETRY, GEOSTANDARDS NEWSLETTER, 6: 77-81.
82THO	02	J. THOMSON (1982) A TOTAL DISSOLUTION METHOD FOR DETERMINATION OF THE ALPHA-EMITTING ISOTOPES OF URANIUM AND THORIUM IN DEEP-SEA SEDIMENTS, ANALYTICA CHIMICA ACTA, 142: 259-268.
82TIN	01	B.T.G. TING, J. PAGOUNES, M. JANGHORBANI, AND V. R. YOUNG (1982) RADIOCHEMICAL NEUTRON ACTIVATION ANALYSIS OF STABLE ISOTOPES IN RELATION TO HUMAN MINERAL NUTRITION, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 70: 133-144.
82UCH	02	H. UCHIKAWA, R. FURUTA, AND Y. MIHARA (1982) THE DETERMINATION OF TRACE MERCURY IN SOLID FUEL BY ATOMIC ABSORPTION SPECTROPHOTOMETRY, BUNSEKI KAGAKU, 31: 367-372.
82VAN	01	C. VANOETEREN, R. CORNELIS, J. VERSIECK, J. HOSTE, AND J. DE ROOSE (1982), TRACE ELEMENT PATTERNS IN HUMAN LUNG TISSUES, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 70: 219-238.
82VER	03	M. VERLINDEN (1982) ON THE ACID DECOMPOSITION OF HUMAN BLOOD AND PLASMA FOR THE DETERMINATION OF SELENIUM, TALANTA, 29: 875-882.
82VIS	01	P. VISWANADHAM, D. R. SMICK, F. F. PISNEY, AND W. DILWORTH (1982), COMPARISON OF ION CHROMATOGRAPHY AND TITRIMETRY FOR DETERMINATION OF SULFUR IN FUEL OILS, ANALYTICAL CHEMISTRY, 54: 2431-2433.
82VOG	01	J. R. VOGT, C. C. GRAHAM, M. D. GLASCOCK, R. H. COBEAN (1982) A STUDY OF MESOAMERICAN OBSIDIAN SOURCES USING ACTIVATION ANALYSIS, JOURNAL OF RADIOANALYTICAL CHEMISTRY, 69: 271-289.
82WEI	01	A. WEITZ, G. FUCHS UND K. BACHMANN (1982) AAS-BESTIMMUNG VON CADMIUM UND BLEI IN BIOLOGISCHEN PROBEN UND BODENPROBEN NACH ABTRENNUNG DURCH VERFLUCHTIGUNG, FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, 313: 38-42.
82WIL	01	J. R. WILKINSON, L. EBDON, AND K. W. JACKSON (1982) DETERMINATION OF VOLATILE TRACE METALS IN COAL BY ANALYTICAL ATOMIC SPECTROSCOPY, ANALYTICAL PROCEEDINGS PUBLISHED BY THE ROYAL SOCIETY OF CHEMISTRY (LONDON), 19: 305-307.
82WIL	02	S. A. WILSON AND C. A. GENT (1982) THE DETERMINATION OF FLUORIDE IN GEOLOGIC SAMPLES BY ION CHROMATOGRAPHY, ANALYTICAL LETTERS, 15: 851-864.
83GLA	01	E. S. GLADNEY, C. E. BURNS, D. R. PERRIN, R. D. ROBINSON, AND D. KNAB (1983), QUALITY ASSURANCE FOR ENVIRONMENTAL ANALYTICAL CHEMISTRY: 1982, LOS ALAMOS NATIONAL LABORATORY REPORT, IN PRESS.
83GLA	02	E. S. GLADNEY, D. R. PERRIN, R. D. ROBINSON, AND P. TRUJILLO (1983), EVALUATION OF NBS URBAN AIR PARTICULATE STANDARD REFERENCE MATERIAL FOR QUALITY ASSURANCE PROGRAMS, IN PREPARATION.
83GLA	03	E. S. GLADNEY (1983) UNPUBLISHED DATA, LOS ALAMOS NATIONAL LABORATORY.
83KNA	01	D. KNAB (1983) AN INVESTIGATION OF THE ANALYSIS OF ENVIRONMENTAL SAMPLES FOR FLUORIDE, SUBMITTED TO ANALYTICAL CHEMISTRY.