

Appendix M

References

This page intentionally left blank

REFERENCES

- Agency for Toxic Substances and Disease Registry. 1998. Draft Toxicological Profile for Arsenic. Prepared for the US Department of Health and Human Services by the Research Triangle Institute.
- Albores, A., M. E. Cebrian, I. Tellez and B. Valdez. 1979. Comparative Study of Chronic Hydroarsenicism in Two Rural Communities in the Region Lagunra of Mexico. [in Spanish]. Bol. Oficina Sanit. Panam. 86:196-205.
- American Public Health Association (APHA). 1992 and 1995. Standard Methods for the Examination of Water and Wastewater. 18th Edition, American Public Health Association, 1015 Fifteenth Street N.W., Washington, DC 20005.
- American Society for Testing and Materials (ASTM). 1994 and 1996. Annual Book of ASTM Standards. Vol. 11.01 and 11.02, American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.
- Aposhian, H.V., E.S. Gurzau, X.C. Le, A. Gurzau, S.H. Healy, X. Lu, M. Ma, R.A. Zakharyan, R.M. Maiorino, R.C. Dart, M.G. Tircus, D. Gonzalez-Remariz, D.L. Morgan, D. Avram, D. and M.M. Aposhian. 2000. Occurrence of monomethylarsonous acid in urine of humans exposed to inorganic arsenic. Chemical Research Toxicology 13:693-697.
- Borgono, J.M, P. Vincent, H. Venturino, and A. Infante. 1977. Arsenic in the Drinking Water of the City of Antofagasta: Epidemiological and Clinical Study before and after the Installation of a Treatment Plant. Environmental Health Perspectives 19:103-105. August, 1997.
- Borzsonyi, M., A. Berecsky, P. Rudnai, M. Csanady and A. Horvath. 1992. Epidemiological Studies on Human Subjects Exposed to Arsenic in Drinking Water in Southeast Hungary. Archives of Toxicology. 66:77-78.
- Buchanan, W. D. 1962. Toxicity of Arsenic Compounds. Amsterdam, Elsevier Scientific Publishers. pp v-viii.
- Buchet, J.P. and D. Lison. 1998. Mortality by cancer in groups of the Belgium population with a moderately increases intake of arsenic. International Archives Occupational Environmental Health 71:125-130.
- Carmignani, M., P. Boscolo and A. Iannaccone. 1983. Effects of chronic exposure to arsenate on the cardiovascular function of rats. British Journal Industrial Medicine 40:280-284.
- Casale, R. and M. LeChevallier. 2000. Contaminants in Drinking Water Treatment Chemicals: A Survey of the American Water Works System. Proceedings American Water Works Association Water Quality Technology Conference. Salt Lake City, UT. November 5-9.
- Cebrian, M. 1987. Some Potential Problems in Assessing the Effects of Chronic Arsenic Exposure in North Mexico [preprint extended abstract]. New Orleans, LA, American Chemical Society.

- Cebrian, M. E., A. Albores, M. Aguilar and E. Blakely. 1983. Chronic Arsenic Poisoning in the North of Mexico. *Human Toxicology*. 2:121-133.
- Chen, C.J., Y.C. Chuang, T.M. Lin, and H.Y. Wu. 1985. Malignant neoplasms among residents of a blackfoot disease-endemic area in Taiwan: high arsenic artesian well water and cancers. *Cancer Research*. 45:5895-5899.
- Chen, C.J., M. Wu, S.S. Lee, J.D. Wang, S.H. Cheng, and H.Y. Wu. 1988. Atherogenicity and carcinogenicity of high- arsenic artesian well water. Multiple risk factors and related malignant neoplasms of blackfoot disease. *Arteriosclerosis*. 8:452-460.
- Chen, C.J. and C.J. Wang. 1990. Ecological correlation between arsenic level in well water and age-adjusted mortality from malignant neoplasms. *Cancer Research* 50:5470-5474.
- Chen, C.J., C.W. Chen, M.M. Wu, and T.L. Kuo. 1992. Cancer potential in liver, lung, bladder and kidney due to ingested inorganic arsenic in drinking water. *British Journal of Cancer* 66:888-892.
- Chen, C.J., R.M. Hsueh, M.S. Lai, M.P. Shu, S.Y. Chen, M.M. Wu, T.L. Kuo, and T.Y. Tai. 1995. Increased prevalence of hypertension and long-term arsenic exposure. *Hypertension* 25:53-60.
- Chen, G.-Q, J. Zhu, X-G. Shi, J.H. Ni, H.-J. Zhong, G-Y. Si, X.-L. Jin, W. Tang, X.-S. Li, S.-M. Xong, Z.-X. She, G.-L. Sun, J. Ma, P. Zhang, T.-D. Zhang, C. Gazin, T. Naoe, S.-J. Chen, and Z. Chen. 1996. In vitro studies on cellular and molecular mechanisms of arsenic trioxide (As₂O₃) in the treatment of acute promyelocytic leukemia: As₂O₃ induces NB43 cell apoptosis with downregulation of Bcl-2 expression and modulation of PQL-RAR" /PML proteins. *Blood* 83:1053-1061.
- Chen, C.J., H.Y. Chiou, M.H. Chiang, L.J. Lin and T.Y. Tai. 1996. Dose-Response Relationship Between Ischemic Heart Disease Mortality and Long-Term Arsenic Exposure. *Arteriosclerosis, Thrombosis, and Vascular Biology*. 16(4):504-510.
- Chen. Personal correspondence to Herman Gibb, January 3, 2000.
- Clifford, D. and Z. Zhang. 1994. Arsenic Chemistry and Speciation. American Water Works Association Annual Conference. New York, NY. June 19-23.
- Clifford, D., G. Ghurye, A. Tripp, J. Tong. 1997. Final Report: Phases 1 and 2, City of Albuquerque Arsenic Study. Field Studies on Arsenic Removal in Albuquerque, New Mexico Using the University of Houston/EPA Mobile Drinking Water Treatment Research Facility. Prepared for John Stomp, III, Water Resources Manager, City of Albuquerque. December 1997.
- Clifford, D., G. Ghurye, A. Tripp, T. Jian. 1998. Final Report: Phase 3 City of Albuquerque Arsenic Study. Field Studies on Arsenic Removal in Albuquerque, New Mexico using the University of Houston/EPA Mobile Drinking Water Treatment Research Facility. Prepared for John Stomp, Water Resources Manager, City of Albuquerque. August, 1998.
- Cogliano, V.J., E.D. Kroese, G.A. Zapponi, L. Attias and I. Marcello. 1999. Chapter 1. Introduction. In: Cogliano, V.J., E.G. Luebeck and G.A. Zapponi eds., 1999. Perspectives on Biologically Based Cancer Risk Assessment. NATO: Challenges of Modern Society, Plenum Press. pp. 1-20.

- Cox, D.R. and D. Oakes. 1984. *Analysis of Survival Data*. London: Chapman and Hall.
- Cropper, M.L and U. Subramanian. 1999. *Public Choices Between Lifesaving Programs: How Important Are Lives Saved? Valuing Environmental Benefits: Selected Essays of Maureen Cropper*. Cheltenham, United Kingdom. Edward Elgar.
- Cuzick, J., S. Evans, M. Gillman, and D. A. Price Evans. 1982. Medicinal Arsenic and Internal Malignancies. *British Journal of Cancer*. 45:904-911.
- Cuzick, J., P. Sasieni, and S. Evans. 1992. Ingested arsenic, keratoses, and bladder cancer. *American Journal of Epidemiology*. 136(4):417-421.
- Desi, I. 1992. Arsenic Contamination of Drinking Water in South-East Hungary. *Geographia Medica*. 22:45-53.
- Eaton, A.D. 1994 Determining the practical quantitation level for arsenic. *Journal AWWA*. Pgs. 100-114. February 1994.
- Engel, R.R., and H.H. Smith. 1994. Arsenic in drinking water and mortality from vascular disease: An ecological analysis in 30 countries in the United States. *Arch. Environmental Health*. 49:418-427.
- Frey, M., J. Chwirka, S. Kommineni, and Z. Chowdhury. "Cost Implications of A Lower Arsenic MCL". May 5, 2000. American Water Works Association Research Foundation, Denver Co. (included as an attachment to comment I-G1.466)
- Frey, M., J. Chwirka, S. Kommineni, and Z. Chowdhury. "Update Cost Implications Of A Lower Arsenic MCL". October 10, 2000.
- Frey, M. M. and M. A. Edwards. 1997. Surveying Arsenic Occurrence. *Journal of the American Water Works Association*. 89(3):105-117.
- Guha Mazumder, D. N., J. Das Gupta, A. Santra, A. Pal, A. Ghose, S. Sarkar, N. Chattopadhaya and D. Chakraborty. 1997. Non-Cancer Effects of Chronic Arsenicosis with Special Reference to Liver Damage. In *Arsenic: Exposure and Health Effects*. Abernathy, C. O., Calderon, R. L. and Chappell, W., Eds. London, Chapman and Hall: pp. 112-123.
- Guha Mazumder, D.N., B.K. De, A. Santra, J. Dasgupta, N. Ghosh, B.K. Roy, U.C. Ghoshal, J. Saha, A. Chatterjee, S. Dutta, R. Haque, A.H. Smith, D. Chakraborty, C.R. Angle and J.A. Centeno. 1999. Chronic arsenic toxicity: Epidemiology, natural history and treatment. In Chappell, W.R., C.O. Abernathy and R.L. Calderon, eds. *Arsenic Exposure and Health Effects*. Elsevier. Amsterdam. pp. 335-347.
- Hindmarsh, J. T., O. R. McLetchie, L. P. M. Heffernan, O. A. Hayne, H. A. Ellenberger, R. F. McCurdy and H. J. Thieboux. 1977. Electromyographic Abnormalities in Chronic Environmental Arsenicalism. *Analytical Toxicology*. 1:270-276.
- Hopenhayn-Rich, C., M. L. Biggs, A. Fuchs, R. Bergoglio, E. E. Tello, H. Nicolli and A. H. Smith. 1996. Bladder Cancer Mortality Associated With Arsenic in Drinking Water in Argentina. *Epidemiology*. 7(2):117-124.

- Hopenhayn-Rich, C., M. L. Biggs and A. H. Smith. 1998. Lung and Kidney Cancer Mortality Associated with Arsenic in Drinking Water in Cordoba, Argentina. *Epidemiology*. 27:561-569.
- Hopenhayn-Rich, C., S.R. Browning, I. Hertz-Picciotto, C. Ferreccio, C. Peralta, and H. Gibb. 2000. Chronic Arsenic Exposure and Risk of Infant Mortality in Two Areas of Chile. *Environmental Health Perspectives* 108:667-673. July 2000.
- Kempic, J.B. 2000. Centrally managed POU/POE Option for Compliance with the Arsenic Regulation. AWWA Inorganic Contaminants Workshop, Albuquerque, NM, February 27 - 29, 2000.
- Kurttio, P, E. Pukkala, H. Kahelin, A. Auvinen, and J. Pekkanen. 1999. Arsenic Concentrations in Well Water and Risk of Bladder and Kidney Cancer in Finland. *Environmental Health Perspectives* 107(9):705-710
- Lai, M.S., Y.M. Hsueh, C.J. Chien, M.P. Shyu, S.Y. Chen, T.L. Kuo, M.M. Wu, and T.Y. Tai. 1994. Ingested Inorganic Arsenic and Prevalence of Diabetes Mellitus. *American Journal of Epidemiology*. 139(5):484-492.
- Le, X.C., M. Ma, X. Lu, W.R. Cullen, H.V. Aposhian and B. Zheng. 2000. Determination of monomethylarsonous acid, a key arsenic methylation intermediate, in human urine. *Environmental Health Perspectives*. 108(11):1015-1018.
- Lewis, D. R., J. W. Southwick, R. Ouellet-Hellstrom, J. Rench and R. L. Calderon. 1999. Drinking Water Arsenic in Utah: A Cohort Mortality Study. *Environmental Health Perspectives*. 107(5):359-365.
- McCullagh, P. and J.A. Nelder. 1989. *Generalized Linear Models* (2nd ed.). London: Chapman and Hall.
- Morales, K.H., L. Ryan, T.-L. Kuo, M.-M. Wu and C.-J. Chen. 2000. Risk of internal cancers from arsenic in drinking water. *Environmental Health Perspectives* 108:655-661.
- Morris, J.S., M. Schmid, S. Newman, P. J. Scheuer and S. Sherlock. 1974. Arsenic and Noncirrhotic Portal Hypertension. *Gastroenterology*. 66:86-94.
- Morton, W., G. Starr, D. Pohl, J. Stoner, S. Wagner and P. Weswig. 1976. Skin cancer and water arsenic in Lane County, Oregon. *Cancer* 37:2523-2532.
- National Academy of Sciences (NAS). 1977. *Arsenic*. National Academy Press, Washington, DC, 332 pp.
- National Cancer Institute (NCI), 1999. Ries, L.A. G., C.L. Kosary, B.A. Miller, L. Clegg and B.K. Edwards. *SEER Cancer Statistics Review, 1973-1996*, Bethesda, MD.
- National Research Council (NRC). 1989. *Recommended Dietary Allowances, 10th Edition*. National Academy Press. Washington, DC, pp. 283.
- National Research Council. 1999. *Arsenic in Drinking Water*. Washington, DC. National Academy Press.

- Nevens, F., J. Fevery, W. Van Steenberghe, R. Sciote, V. Desmet and J. De Groot. 1990. Arsenic and Noncirrhotic Portal Hypertension: A Report of Eight Cases. *Hepatology*. 11:80-85.
- Ng, J.C., A.A. Seawright, L. Qi, C.M. Garnett, B. Chiswell and M.M. Moore. 1999. Tumours in mice induced by exposure to sodium arsenate in drinking water. In Chappell, W.R., C.O. Abernathy and R.L. Calderon, eds. *Arsenic Exposure and Health Effects*. Elsevier. Amsterdam. pp. 217-223.
- Petrick, J.S., A. Ayala-Fierro, W.R. Cullen, D.E. Carter and H.V. Aposhian. 2000. Monomethylarsonous acid (MMA^{III}) is more toxic than arsenite in Chang liver human hepatocytes. *Toxicol. Appl. Pharmacol.* 163:203-207.
- Porter, M., I. Elliot, S. Marshall, J. Routh and R. Matousek. 2000. Large Scale Gas Generator Eliminates On-Site Chlorine Storage. *Proceedings American Water Works Association Annual Conference*. Denver, CO. June 11-15.
- Portier, C. 1987. Statistical properties of a two stage model of carcinogenesis. *Environmental Health Perspectives* 76:125-131.
- Rahman, M. and J.O. Axelson. 1995. Diabetes Mellitus and Arsenic Exposure: a Second Look at Case-Control Data from a Swedish Copper Smelter. *Occupational Environmental Medicine*. 52:773-774.
- Rahman, M., M. Tondel, S.A. Ahmad, and C. Axels. 1998. Diabetes Mellitus Associated with Arsenic Exposure in Bangladesh. *American Journal of Epidemiology*. 148(2):198-203.
- Resevz, R.L. 1999. Environmental Regulation, Cost-Benefit Analysis, and the Discounting of Human Lives. *Columbia Law Review*. 99:941-1017.
- Roth, F. 1956. Concerning Chronic Arsenic Poisoning of the Moselle Wine Growers with Special Emphasis on Arsenic Carcinomas. *Krebsforschung*. 61:287-319.
- Sabbioni, E., M. Fischbach, G. Pozzi, R. Pietra, M. Gallorini and J. L. Piette. 1991. Cellular Retention, Toxicity and Carcinogenic Potential of Seafood Arsenic. I. Lack of Cytotoxicity and Transforming Activity of Arsenobetaine in the BALB/3T3 Cell Line. *Carcinogenesis*. 12:1287-1291.
- Schoof, R.A., L.J. Yost, E. Crecelius, K. Irgolic, W. Goessler, H.R. Guo, and H. Green. 1998. Dietary arsenic intake in Taiwanese districts with elevated arsenic in drinking water. *Human and Ecological Risk Assessment*. 4 (1): 117-135.
- Schoof, R.A., L.J. Yost, J. Eickhoff, E.A. Crecelius, D.W. Cragin, D. M. Meacher, and D.B. Menzel. 1999. A market basket survey of inorganic arsenic in food. *Food and Chemical Toxicology*. 37: 839-846.
- Simms, J. and F. Azizian. 1997. Pilot Plant Trials on the Removal of Arsenic from Potable Water Using Activated Alumina. *Proceedings AWWA Water Quality Technology Conference*, November 9-12, 1997.

- Simms, J., J. Upton, and J. Barnes. 2000. Arsenic Removal Studies and the Design of a 20,000 m³ per Day Plant in the UK. AWWA Inorganic Contaminants Workshop, Albuquerque, NM, February 27 - 29, 2000.
- Smith, A.H., M. Goycolea, R. Haque and M. L. Biggs. 1998. Marked Increase in Bladder and Lung Cancer Mortality in a Region of Northern Chile Due to Arsenic in Drinking Water. *American Journal of Epidemiology*. 147(7):660-669.
- Southwick, J. W., A. E. Western, M. M. Beck, T. Whitley, R. Isaacs, J. Petajan and C. D. Hansen. 1983. An Epidemiological Study of Arsenic in Drinking Water in Millard County, Utah. In *Arsenic: Industrial, Biomedical, Environmental Perspectives*. Lederer, W. H. and Fensterheim, R. J., Eds. New York, Van Nostrand Reinhold: pp. 210-225.
- Styblo, M., L.M. Del Razo, L. Vega, D.R. Germolic, E.L. LeChuyse, G.A. Hamilton, W. Reed, C. Wang, W.R. Cullen and D.J. Thomas. 2000. Comparative toxicity of trivalent and pentavalent inorganic and methylated arsenicals in rat and human cells. *Archives Toxicology* 74:289-299.
- Szinicz, L. and Forth, W. 1988. Effect of As₂O₃ on gluconeogenesis. *Archives Toxicology* 61:444-449.
- Subramanian, K.S., T. Viraraghavan, T. Phommavong, and S. Tanjore. 1997. Manganese Greensand for Removal of Arsenic in Drinking Water. *Water Quality Research Journal Canada*. 32:3:551-561.
- Tabacova, S., D. D. Baird, L. Balabaeve, D. Lolova and I. Petrov. 1994. Placental Arsenic and Cadmium in Relation to Lipid Peroxides and Glutathione Levels in Maternal-Infant Pairs From a Copper Smelter Area. *Placenta*. 15:873-881.
- Talar-Williams, C., R.M. Hijazi, M.M. Walther, W.M. Linehan, C.W. Hallahan, I. Lubensky, G.S. Kerr, G.S. Hoffman, A.S. Fauci and M.C. Sneller. 1996. Cyclophosphamide-induced cystitis and bladder cancer in patients with Wegener Granulomatosis.. *Annals of Internal Medicine*, 124:477-484.
- Tay, C.H. and C.S. Seah. 1975. Arsenic Poisoning From Anti-Asthmatic Herbal Preparations. *Medical Journal, Australia*. 2:424-428.
- Tsai, S.M., T.N. Wang, and Y.C. Ko. 1998. Cancer mortality trends in a blackfoot disease endemic community of Taiwan following water source replacement. *Journal of Toxicology and Environmental Health Part A* 55:389-404.
- Tsai, S.M., T. N. Wang and Y.C. Ko. 1999. Mortality for Certain Diseases in Areas with High Levels of Arsenic in Drinking Water. *Archives of Environmental Health*. 54(3):186-193.
- Tseng, W.P., H.M. Chu, S.W. How, J.M. Fong, C.S. Lin, and S. Yeh. 1968. Prevalence of skin cancer in an endemic area of chronic arsenicism in Taiwan. *Journal of the National Cancer Institute*. 40:453-463.
- Tseng, W. P. 1977. Effects and Dose-Response Relationships of Skin Cancer and Blackfoot Disease with Arsenic. *Environmental Health Perspectives*. 19:109-119.

- Tsuda T., Babazono A., Yamamoto, E., Krumatani, N., Mino, Y., Ogawa, T., Kishi, Y., Aoyama, H.
1995. Ingested arsenic and internal cancer: a historical cohort study followed for 33 years. *Am. J. Epidemiol.* 141:198-209.
- US Census. 2000. (www.census.gov. Population Characteristics - Issued September, 2000).
- US EPA. 1975. Water Programs: National Interim Primary Drinking Water Regulations. *Federal Register*. Vol. 40, No. 248, p. 59566. December 24, 1975.
- US EPA. 1976. National Interim Primary Drinking Water Regulations. Office of Water Supply. EPA 570/9-76-003.
- US EPA. 1980. Water Quality Criteria Documents; Availability. *Federal Register*. Vol. 45, No. 291, p. 79318. November 28, 1980.
- US EPA. 1983. National Revised Primary Drinking Water Regulations; Advance Notice of Proposed Rulemaking. *Federal Register*. Vol. 48, No. 194, p. 45502. October 5, 1983.
- US EPA. 1984. Health Assessment Document for Inorganic Arsenic. Office of Health and Environmental Assessment, Office of Research and Development. EPA-600/8-83-021F. March, 1984.
- US EPA. 1985a. National Revised Primary Drinking Water Regulations; Synthetic Organic Chemicals, Inorganic Chemicals and Microorganisms; Proposed Rule. *Federal Register*. Vol. 50, No. 219, p. 46936. November 13, 1985.
- US EPA. 1985b. National Primary Drinking Water Regulations; Volatile Synthetic Organic Chemicals; Proposed Rule. *Federal Register*. Vol. 50, No. 219, p. 46906. November 13, 1985.
- US EPA. 1988. Special Report on Ingested Inorganic Arsenic: Skin Cancer; Nutritional Essentiality. Risk Assessment Forum. EPA/625/3-87/013. July 1988.
- US EPA. 1989a. Cover letter dated August 14, 1989, from SAB to EPA. Ad Hoc Work Group, Drinking Water Subcommittee, Environmental Health Advisory Committee, Science Advisory Board Report: A Critical Examination of the Evidence for a Threshold For Cancer Risk in Humans from Inorganic Arsenic. Washington, DC. June 1989 report.
- US EPA. 1989b. Cover letter dated September 28, 1989 from SAB to EPA. Science Advisory Board's Review of the Arsenic Issues Relating to the Phase II Proposed Regulations From the Office of Drinking Water. Science Advisory Board Committee: Drinking Water Subcommittee of the Environmental Health Committee.
- US EPA. 1990. Revised Definition of Significant Noncomplier (SNC) and the Model for Escalating Responses to Violations for the PWSS Program. Water Supply Guidance No. 57. May 22, 1990. http://www.epa.gov/safewater/wsg/wsg_57.pdf.

- US EPA. 1991a. National Primary Drinking Water Regulations - Synthetic Organic Chemicals and Inorganic Chemicals; Monitoring for Unregulated Contaminants; National Primary Drinking Water Regulations Implementation; National Secondary Drinking Water Regulations. Federal Register. Vol. 56, No. 20, p. 3526. January 30, 1991.
- US EPA. 1991b. Arsenic IRIS File; Arsenic, Inorganic. February 1991. Used for 1992 National Toxics Rule, December 22, 1992, 57 FR 60848.
- US EPA. 1991c. Arsenic Research Recommendations memorandum dated April 12, 1991 from John R. Fowle III, Chair of the Arsenic Research Recommendation Workgroup, Health Effects Research Laboratory.
- US EPA. 1992a. Science Advisory Board Report: Review of the Office of Research and Development's Arsenic Research Recommendations. Washington, DC. Science Advisory Board. EPA-SAB-DWC-92-018. May 1992.
- US EPA. 1992b. National Primary Drinking Water Regulations; Synthetic Organic Chemicals and Inorganic Chemicals; Final Rule. Federal Register. Vol. 57, No. 138, p. 31776. July 17, 1992.
- US EPA. 1992c. Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants; States' Compliance; Final Rule. Federal Register. Vol. 57, No. 246, p. 60848. December 22, 1992.
- US EPA, 1992d. Bartley, C.B., P.M. Colucci, and T. Stevens. The Inorganic Chemical Characterization of Water Treatment Plant Residuals. EPA/600/SR-92-117, Cincinnati.
- US EPA. 1992e. Occurrence Assessment for Arsenic in Public Drinking Water Sources. Prepared by Wade Miller Associates under contract to EPA. September 10, 1992.
- US EPA 1993a. Small Water System Byproducts Treatment and Disposal Cost Document Washington, DC Office of Ground Water and Drinking Water. April 1993.
- US EPA 1993b. Water System Byproducts Treatment and Disposal Cost Document; Draft Final. Washington, DC. Office of Ground Water and Drinking Water. April 1993
- US EPA. 1993c. Science Advisory Board Report: Review of the Draft Drinking Water Criteria Document on Inorganic Arsenic. Washington, DC. Science Advisory Board. EPA-SAB-DWC-94-004. November 8, 1993.
- US EPA. 1993d. Inorganic Arsenicals; Conclusion of Special Review. Federal Register. Vol. 58, No. 234, p. 64579. December 8, 1993.
- US EPA. 1994a. EPA Method 200.15, Determination of Metals and Trace Elements in Water By Ultrasonic Nebulization Inductively Coupled Plasma-Atomic Emission Spectrometry. Methods for the Determination of Metals in Environmental Samples - Supplement I, Rev 1.2. EPA/600/R-94-111. May 1994.
- US EPA. 1994b. Methods for the Determination of Metals in Environmental Samples - Supplement I. EPA/600/R-94-111, NTIS PB 94-184942.

- US EPA. 1994c. SW-846 Method 6020, Inductively Coupled Plasma-Mass Spectrometry. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. Third Edition, September 1994 Update II.
- US EPA. 1994d. SW-846 Method 7060A, Arsenic (Atomic Absorption, Furnace Technique). Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. Third Edition, September 1994 Update II.
- US EPA. 1994e. SW-846 Method 7062, Antimony and Arsenic (Atomic Absorption, Borohydride Reduction). Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. Third Edition, September 1994 Update II.
- US EPA. 1994f. National Primary and Secondary Drinking Water Regulations: Analytical Methods for Regulated Drinking Water Contaminants; Final Rule. Federal Register. Vol. 59, No. 232, p. 62456. December 5, 1994.
- US EPA. 1995. Science Advisory Board Report: Review of Issues Related to the Regulation of Arsenic in Drinking Water. Washington, DC. Science Advisory Board. EPA-SAB-DWC-95-015. July 19, 1995.
- US EPA. 1996a. Proposed Guidelines for Carcinogenic Risk Assessment; Notice. Federal Register. Vol 61, No. 79, p. 17960. April 23, 1996.
- US EPA. 1996b. EPA Method 1632, Inorganic Arsenic In Water by Hydride Generation Quartz Furnace Atomic Absorption. EPA/821/R-96-013. July 1996.
- US EPA. 1996c. Performance Evaluation Studies Supporting Administration of the Clean Water Act and the Safe Drinking Water Act. Federal Register. Vol. 61, No. 139, p. 37464. July 18, 1996.
- US EPA. 1996d. Investigator-Initiated Grants on Health Effects of Arsenic. Federal Register. Vol 61, No. 236, p. 64739. December 6, 1996.
- US EPA. 1996e. SW-846 Method 7063, Arsenic in Aqueous Samples and Extracts by Anodic Stripping Voltammetry (ASV). Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods. Third Edition, December 1996, Update III.
- US EPA. 1997a. Drinking Water Infrastructure Needs Survey. First Report to Congress. EPA 812-R-97-001. January, 1997.
- US EPA. 1997b. Manual for the Certification of Laboratories Analyzing Drinking Water. EPA 815/B-97/001.
- US EPA. 1997 c. March 1994 Workshop on Developing an Epidemiology Research Strategy for Arsenic in Drinking Water. Prepared for EPA's National Health and Environmental Effects Research Laboratory by SRA Technologies. April 14, 1997.
- US EPA 1997d. Performance Evaluation Studies Supporting Administration of the Clean Water Act and the Safe Drinking Water Act. Federal Register. Vol. 62, No. 113, p. 32112. June 12, 1997.

- US EPA. 1997e. National Center for Environmental Assessment. Report on the Expert Panel on Arsenic Carcinogenicity: Review and Workshop. Lexington, MA. Prepared by the Eastern Research Group under contract to US EPA. August 1997.
- US EPA 1997f. SAB Report by the Environmental Health Committee: Guidelines for Cancer Risk Assessment. EPA-SAB-EHC-97-010 September 30, 1997.
- US EPA. 1997g. Performance Based Measurement System. Federal Register. Vol. 62, No. 193, p. 52098. October 6, 1997.
- US EPA. 1997h. Benefits and Costs of the Clean Air Act. 1970-1990. Clean Air Act §812. Report Prepared for U.S. Congress by US EPA Office of Air and Radiation. Chapter 6. October. EPA 410-R-97-002.
- US EPA. 1998a. Information for States on Developing Affordability Criteria for Drinking Water. EPA 816-R-98-002. February 1998.
- US EPA. 1998b. Research Plan for Arsenic in Drinking Water. Office of Research and Development, National Center for Environmental Assessment. EPA/600/R-98/042. www.epa.gov/ORD/WebPubs/final/arsenic.pdf February 1998.
- US EPA. 1998c. National Primary Drinking Water Regulations: Consumer Confidence Reports. Proposed Rule. Federal Register. Vol. 63, No. p. 7605. February 13, 1998.
- US EPA. 1998d. Environmental Justice Stakeholders Meeting March 12, 1998 Meeting Summary.
- US EPA. 1998e. Locating and Estimating Air Emissions From Sources of Arsenic and Arsenic Compounds. Research Triangle Park, NC. Office of Air Quality Planning and Standards. EPA-454-R-98-013. June 1998.
- US EPA. 1998f. Removal of the Prohibition on the Use of Point of Use Devices for Compliance with National Primary Drinking Water Regulations. Federal Register (63 FR 31934). June 11, 1998.
- US EPA. 1998g. Guidance on Implementing the Capacity Development Provisions of the Safe Drinking Water Act Amendments of 1996. EPA 816-R-98-006. July 1998.
- US EPA. 1998h. Announcement of Small System Compliance Technology Lists for Existing National Primary Drinking Water Regulations and Findings Concerning Variance Technologies. Notice of Lists of Technologies and Upcoming Release of Guidance and Supporting Documents. Federal Register. Vol. 63, No. 153, p. 42032 at 43045. August 6, 1998.
- US EPA. 1998i. National Primary Drinking Water Regulations: Consumer Confidence Reports. Final Rule. Federal Register. Vol. 63, No. 160, p. 44512. August 19, 1998.
- US EPA, 1998j. National-Level Affordability Criteria Under the 1996 Amendments to the Safe Drinking Water Act (Final Draft Report). Prepared by International Consultants, Inc., Hagler Bailly Services, Inc., & Janice A. Beecher, PhD under contract 68-C6-0039. August 19, 1998.

- US EPA 1998k. National Primary Drinking Water Regulations: Analytical Methods for Regulated Drinking Water Contaminants; Final and Proposed Rule. Federal Register. Vol. 63, No. 171, p. 47097. September 3, 1998.
- US EPA. 1998l. Variance Technology Findings for Contaminants Regulated Before 1996. Office of Water. EPA 815-R-98-003. September 1998.
- US EPA. 1998m. Information for Small Entity Representatives Regarding the Arsenic in Drinking Water Rule. December 3, 1998.
- US EPA. 1998n. Cost of Illness Handbook. Office of Pollution Prevention and Toxics. Chapter V Cost of Lung Cancer. September, 1998
- US EPA. 1999a. Drinking Water Baseline Handbook. Prepared by International Consultants, Inc. under contract with EPA OGWDW, Standards and Risk Management Division. February 24, 1999.
- US EPA. 1999b. Technologies and Costs for the Removal of Arsenic From Drinking Water. Prepared by International Consultants, Inc. and Malcolm Pirnie, Inc. under contract 68-C-C6-0039 with EPA OGWDW. April 1999.
- US EPA 1999c. A Guidebook of Financial Tools: Paying for Sustainable Environmental Systems. April 1999.
- US EPA. 1999d. National Primary Drinking Water Regulations: Public Notification Rule, Proposed Rule. Federal Register. Vol. 64, No. 92, p. 25964. May 13, 1999.
- US EPA. 1999e. Report of the Small Business Advocacy Review Panel on EPA's Planned Proposal of the National Primary Drinking Water Regulation for Arsenic. Cover memo to the Administrator and the report. June 4, 1999.
- US EPA. 1999f. Decision Tree for the Arsenic Rulemaking Process. Washington, DC. Office of Ground Water and Drinking Water. July 1999.
- US EPA 1999g. SAB Report by the Executive Committee: Review of Revised Sections of the Proposed Guidelines for Carcinogen Risk Assessment. EPA-SAB-EC-99-015. July 29, 1999.
- US EPA. 1999h. Radon and Arsenic Regulatory Compliance Costs for the 25 Largest Public Water Systems (With Treatment Plant Configurations) Prepared for U.S. EPA by Science Applications International Corporation. August 10, 1999.
- US EPA. 1999i. Geometries and Characteristics of Public Water Systems. Draft prepared by Science Applications International Corporation under contract with EPA OGWDW. August 15, 1999.
- US EPA. 1999j. Cost of Illness Handbook. Office of Pollution Prevention and Toxics. Chapter 1 II.8. Cost of Bladder Cancer. September, 1999.
- US EPA. 1999k. Cost of Illness Handbook. Office of Pollution Prevention and Toxics. Chapter V Cost of Lung Cancer. September, 1998.

- US EPA. 1999l. Co-Occurrence of Drinking Water Contaminants. Prepared by Science Applications International Corporation under contract 68-C6-0059 for EPA OGWDW. EPA 815-R-00-025. September 30, 1999.
- US EPA. 1999m. National Primary Drinking Water Regulations: Radon-222, Proposed Rule. Federal Register. Vol. 64, No. 211, p. 59246. EPA 815-z-99-006. November 2, 1999.
- US EPA. 1999n. Small Systems Compliance Technology List for the Arsenic Rule. Washington, DC. Office of Ground Water and Drinking Water. November, 1999. EPA-815-R-00-011
- US EPA. 1999o. Technologies and Costs for the Removal of Arsenic from Drinking Water. Washington, DC. Office of Ground Water and Drinking Water. November, 1999. EPA-815-R-00-012.
- US EPA. 1999p. National Primary Drinking Water Regulations: Analytical Methods for Chemical and Microbiological Contaminants and Revisions to Laboratory Certification Requirements; Final Rule. Federal Register. Vol. 64, No. 230, p. 67450. December 1, 1999.
- US EPA. 1999q. Analytical Methods Support Document for Arsenic in Drinking Water. Prepared by Science Applications International Corporation under contract with EPA OGWDW, Standards and Risk Management Division. December, 1999. EPA-815-R-00-010
- US EPA. 1999r. Arsenic Risk Characterization, Part 1. Prepared by ISSI Consulting Group, Inc. for EPA Office of Water, Office of Standards and Technology. December 22, 1999.
- US EPA 2000a. Meeting Notice of the Environmental Economics Advisory Committee (EEAC) of the Science Advisory Board (SAB) on February 25, 2000. Federal Register. Volume 65, Number 24. February 4, 2000. Page 5638.
- US EPA. 2000b. Drinking Water Baseline Handbook, Second Edition. 4th quarter 1998 SDWIS freeze. Prepared by International Consultants, Inc. under contract with EPA OGWDW, Standards and Risk Management Division. March 17, 2000.
- US EPA. 2000c. Estimated Per Capita Water Ingestion in the United States: Based on Data Collected by the United States Department of Agriculture's (USDA) 1994-1996 Continuing Survey of Food Intakes by Individuals. Office of Water, Office of Standards and Technology. EPA-822-00-008. April 2000.
- US EPA 2000d. Review of the EPA's Draft Chloroform Risk Assessment by the Science Advisory Board Chloroform Risk Assessment Review Subcommittee. EPA-SAB-EC-00-009. April 28, 2000.
- US EPA. 2000e. National Primary Drinking Water Regulations: Public Notification Rule; Final Rule. Federal Register. Vol. 65, No. 87, p. 25982. May 4, 2000.
- US EPA. 2000f. National Primary Drinking Water Regulations: Ground Water Rule; Proposed Rule. Federal Register. Vol. 65, No. 91, p. 30193. May 10, 2000.
- US EPA. 2000g. Arsenic Occurrence in Public Drinking Water Supplies. Public Comment Draft. Office of Water, Washington, D.C. EPA 815-D-00-001. May 2000.

- US EPA. 2000h. Regulatory Impact Analysis (RIA) of the Arsenic Rule. May 2000. EPA 815-R-00-013. Available online www.epa.gov/ogwdw.
- US EPA. 2000i. National Primary Drinking Water Regulations; Arsenic and Clarifications to Compliance and New Source Contaminants Monitoring; Proposed Rule. Federal Register. Vol. 65, No. 121, p. 38888. June 22, 2000.
- US EPA 2000j. SAB Report from the Environmental Economics Advisory Committee (EEAC) on EPA's White Paper "Valuing the Benefits of Fatal Cancer Risk Reduction. EPA-SAB-EEAC-00-013. July 27, 2000.
- US EPA 2000k. Guidelines for Preparing Economic Analyses. EPA 240-R-00-003, September 2000.
- US EPA 2000l. Internal Memorandum dated September 30, 2000 from Industrial Economics, Inc. to EPA. Update to Recommended Approach to Adjusting WTP Estimates to Reflect Changes in Real Income.
- US EPA 2000m. National Primary Drinking Water Regulations; Arsenic and Clarifications to Compliance and New Source Contaminants Monitoring; Notice of Data Availability. Federal Register. Volume 65, Number 204. October 20, 2000. Page 63027-63035.
- US EPA 2000n. National Primary Drinking Water Regulations; Arsenic and Clarifications to Compliance and New Source Contaminants Monitoring. Correction. Federal Register. Volume 65, Number 209. October 27, 2000.
- US EPA 2000o. Arsenic Economic Analysis. Prepared by Abt Associate. EPA 815-R-00-026 December 2000.
- US EPA 2000p. National Primary Drinking Water Regulations; Radionuclides; Final Rule. Federal Register. Volume 65, Number 236. December 7, 2000.
- US EPA 2000n. Arsenic Proposed Drinking Water Regulation: A Science Advisory Board Review of Certain Elements of the Proposal. EPA-SAB-DWC-1-001. December 12, 2000. www.epa.gov/sab.
- US EPA 2000r. Arsenic Occurrence in Public Drinking Water Supplies. Prepared by ISSI for Office of Ground Water and Drinking Water. EPA 815-R-00-023. December 2000.
- US EPA 2000s. Impact of the Arsenic Rule on the Technical, Managerial, and Financial Capacity of Public Water Systems. December 29, 2000.
- US EPA 2000t. Arsenic Technologies and Costs for the Removal of Arsenic from Drinking Water. December 2000.
- US EPA 2000u. Arsenic Response to Comments Document. December 2000.
- US EPA. 2000v. Radon and Arsenic Regulatory Compliance Costs for the 25 Largest Public Water Systems (With Treatment Plant Configurations) Prepared for U.S. EPA by Science Applications International Corporation. December 2000.

- US EPA. 2000w. Final Regulatory Flexibility Analysis (FRFA) for the Final Arsenic Rule. December 29, 2000.
- US EPA. 2000x. A Re-Analysis of Arsenic-Related Bladder and Lung Cancer Mortality in Millard County, Utah. Office of Ground Water and Drinking Water, Washington, DC. EPA 815-R-00-027. December 2000.
- US EPA. 2000y. Geometries and Characteristics of Public Water Systems. Final Report. Prepared by Science Applications International Corporation under contract with EPA OGWDW. EPA 815-R-00-024. December 2000.
- US EPA. 2001. National Primary Drinking Water Regulations; Arsenic and Clarifications to Compliance and New Source Contaminants Monitoring; Final Rule. Federal Register. Vol. 66, No. 14, p. 6976. EPA-815-Z-01-001. January 22, 2001.
- US EPA. 2001. National Primary Drinking Water Regulations; Arsenic and Clarifications to Compliance and New Source Contaminants Monitoring; Delay of Effective Date; Final Rule. Federal Register. Vol. 66, No. 99, p. 28342. May 22, 2001.
- US GS. 1998. Reese, R.G. Jr. Arsenic. In United States Geological Survey Minerals Yearbook, Fairfax, VA, US Geological Survey.
- US GS. 1999. Reese, R.G. Jr. Arsenic. In Mineral Commodity Summaries. Fairfax, VA, pgs. 26-27. US Geological Survey. January 1999.
- US GS. 2000. Focazio, M., A. Welch, S. Watkins, D. Helsel & M. Horn. A retrospective analysis of the occurrence of arsenic in ground water resources of the United States and limitations in drinking water supply characterizations. Water Resources Investigations Report:99-4279. May 2000.
- US Public Health Service. 1943. Public Health Service Drinking Water Standards. Approved Revisions to the 1925 Drinking Water Standards on December 3, 1942. Public Health Reports. 58(3):69-82. January 15, 1943.
- US Public Health Service. 1946. Public Health Service Drinking Water Standards. Approved Revisions to the 1942 Drinking Water Standards by the American Water Works Association. Public Health Reports. 61(11):371-384. March 15, 1946.
- US Public Health Service. 1962. Chapter 1 - Public Health Service, Department of Health Education and Welfare. Title 42 Public Health, Part 72 Interstate Quarantine, Subpart J Drinking Water Standards. Federal Register. p. 2152. March 6, 1962.
- Vahter, M. and E. Marafante. 1983. Intracellular interaction and metabolic fate of arsenite and arsenate in mice and rabbits. Chem.-Biol. Interact. 47:29-4.
- Vahter, M. 1994. Species differences in the metabolism of arsenic. In: W.R. Chappell, C.O. Abernathy and C.R. Cothorn, eds., Arsenic Exposure and Health, Science Technology Letters, Northwood, England. pp. 171-180.

- Vahter, M. 1994. Species differences in the metabolism of arsenic compounds. *Applied Organometallic Chemistry*. 8:175-182.
- Valentine, J.L., S.-H. He, L.S. Reisbord, and P. L. Lachenbruch. 1992. Health response by questionnaire in arsenic-exposed populations. *Journal of Clinical Epidemiology* 45:487-494.
- Vallee, B. L., D. D. Ulmer and W. E. C. Wacker. 1960. Arsenic Toxicology and Biochemistry. *AMA Arch. Ind. Med.* 21:56-75.
- Wester, R.C., H.I. Maibach, L. Sedik, J. Melendres and M. Wade. 1993. In vivo and in vitro percutaneous absorption and skin decontamination of arsenic from water and soil. *Fundamental Applied Toxicology* 20:336-340.
- WHO (World Health Organization). 1981. Environmental Health Criteria 18 Arsenic. United Nations Environment Programme, International Labour Organisation, and the World Health Organization.
- WHO (World Health Organization). 1993. Guidelines for Drinking-Water Quality. Volume 1. Recommendations. World Health Organization. Geneva.
- WHO (World Health Organization). 1998. International Agency for Research on Cancer, World Health Organization, "Cancer Survival in Developing Countries," Publication No. 145, 1998.
- Winship, K. A. 1984. Toxicity of Inorganic Arsenic Salts. *Adverse Drug Reactions and Acute Poisoning Reviews*. 3:129-160.
- Wong, O., M.D. Whorton, D.E. Foliart and R. Lowengart. 1992. An ecologic study of skin cancer and environmental arsenic exposure. *International Archives Occupational Environmental Health* 64:235-241.
- Woods, J.S. and B.A. Fowler. 1977. *Environmental Health Perspectives* 19:209-213.
- Wu, M. M., T. L. Kuo, Y. H. Hwang and C. J. Chen. 1989. Dose-Response Relation Between Arsenic Concentration in Well Water and Mortality From Cancers and Vascular Diseases. *American Journal of Epidemiology*. 130(6):1123-1132.
- Yost, L.J., R.A. School, and R. Aucoin. 1998. Intake of inorganic arsenic in the north American diet. *Human and Ecological Risk Assessment*: 4(1):137-152.
- Yeh, S. 1973. Skin Cancer in Chronic Arsenicism. *Human Pathology*. 4(4):469-485.
- Zaldivar, R. 1974. Arsenic Contamination of Drinking Water and Food-Stuffs Causing Endemic Chronic Poisoning. *Beitr. Pathology*. 151:384-400.
- Zaldivar, R., L. Prunes and G. Ghai. 1981. Arsenic Dose in Patients with Cutaneous Carcinoma and Hepatic Hemangio-Endothelioma After Environmental and Occupational Exposure. *Archives of Toxicology*. 47:145-154.