



Lawrence Feldman, Ph.D., L.S.P.
Senior Principal

RESUME

Summary of Experience

Dr. Feldman joined GZA in 1979 as senior staff hydrogeologist. Now a Senior Principal, he lectures and has been published widely on a variety of environmental issues, including the redevelopment of urban sites and the relevance of site assessments to the legal and real estate communities. He has an extensive background in the investigation and design of studies for a variety of groundwater-related issues, ranging from groundwater quality control and contamination to groundwater resource evaluation, and for projects extending from real estate site assessments to state and federal Superfund sites. Dr. Feldman has been involved in numerous hydrogeologic evaluations of waste disposal sites, as well as multi-phased studies to locate, evaluate, and control groundwater contamination by organic chemicals.

Since 1983 when MGL Ch. 21E (the Massachusetts "Superfund" Law) went into effect, Dr. Feldman has lectured frequently on hazardous waste site assessment, remediation and beneficial reuse. He was an appointed member of the so-called "21E Study Committee" which recommended the major changes to 21E which went into effect in 1992 and, as an appointee to DEP's Hazardous Waste Site Cleanup Advisory Committee since 1992, he was involved in the development of the significantly revised Massachusetts Contingency Plan which went into effect in 1993. Dr. Feldman has served as a gubernatorial appointee to the Hazardous Waste Site Cleanup Professional ("Licensed Site Professional") Board of Registration from its formation in 1992 until 2004. He was a founding director of the Licensed Site Professional Association (LSPA), and served as its President in 2007-2008.

Prior to joining GZA, Dr. Feldman spent two years in the Massachusetts Executive Office of Environmental Affairs, where he assisted in the formation of state and federal water policy and reviewed projects under the provisions of the Massachusetts Environmental Policy Act. Prior to that, Dr. Feldman was an instructor in the geology department of Salem State College in Salem, Massachusetts. Relevant project experience includes:

Relevant Project Experience

Geotechnical Engineering Services, Bristol-Myers Squibb Large Scale Cell Culture (LSCC) Facility, Devens, MA. Dr. Feldman served as Principal-in-Charge of environmental assessment and remediation work conducted at a former military installation which was undergoing redevelopment. The project included a review of a substantial volume of previous environmental investigations performed at and around the property; a detailed study of the historical uses of the property dating back to World War I; a series of targeted geophysical and subsurface investigations; and response actions conducted under the MCP to address the release of petroleum products from former underground storage tanks.

Education

B.S., 1969, Geology, Wesleyan University
M.S., 1971, Geology, Harvard University
Ph.D., 1978, Geology, Boston University

Professional Registrations

1993, Licensed Site Professional,
Massachusetts, 8107

Areas of Specialization

Regulatory Compliance
Hydrogeology
Soil and Groundwater Contamination
Litigation Support



Principal-in-Charge, Boston University Field House, Boston, Massachusetts. GZA was retained by Boston University to provide environmental consulting services related to the development of this important athletic facility. Our work included not only an assessment of environmental conditions at the parcels making up this project site, but also the design and oversight of a cost-effective approach for addressing soil contamination at the site related to its past industrial use.

Principal-in-Charge, GKH Project, Worcester, Massachusetts. GZA was responsible for a wide range of services related to the redevelopment of several city blocks in Worcester. GZA's work included bringing this brownfield site to closure under the provisions of the Massachusetts Contingency Plan (MCP), an asbestos/hazmat survey of several industrial buildings on the site, and civil/geotechnical engineering design services to prepare the site for its future use as college playing fields and a Boys & Girls club. GZA prepared contract documents, assisted the client in contractor selection, and served as Construction Manager for the abatement and demolition of the existing buildings and for site preparation.

Principal-in-Charge, Commonwealth Hotel, Boston, Massachusetts. GZA provided geotechnical and environmental services on this hotel in Kenmore Square, a joint venture between Boston University and Callahan Partners. GZA's work included Phase I/II site investigations, pre-characterization of site soils for off-site disposal, removal of underground storage tanks and associated contamination, and providing the required documentation and bringing the site to closure under the MCP. GZA was responsible for the asbestos/hazmat survey of the existing buildings at the site and the preparation of contract documents for abatement. GZA also performed full geotechnical services for the project, from subsurface investigation through specification preparation and construction observation/documentation.

Principal-in-Charge, Due Diligence and LSP Services, Multiple Properties, Boston, Massachusetts. As the lead environmental consultant for a major Boston educational facility, Dr. Feldman has designed and directed dozens of Phase I and II studies on multiple sites over the past several years. In many cases, GZA was also retained to provide environmental remediation services as well.

Principal-in-Charge, Former Shipyard Facility, Quincy, Massachusetts. GZA provided initial site assessment and subsequent assessment, remediation, and litigation-related services involved with the sale and reuse of this large site in the metropolitan Boston area. Our work involved the definition of areas of soil and groundwater contaminated with petroleum products, solvents, metals, and PCBs; consulting related to soil and separate phase product remediation; and participation in several rounds of negotiations with both the Department of Environmental Protection and the state agency which acquired the property.

Principal-in-Charge, Massachusetts Highway Department Phase I Studies, 11 Facilities. A joint venture headed by GZA was one of the consultants selected by MHD to prepare MCP Phase I studies for its facilities. These studies focused on the potential for contamination at the facilities related to petroleum products and other contaminants.

Principal-in-Charge, Duffy Brothers Site, Waltham, Massachusetts. GZA has served as the consultant of record for this site since its acquisition by the present owner over a decade ago. Contamination at the site consists primarily of separate phase petroleum product containing PCBs and volatile organic compounds. As the Principal-in-Charge of this project from 1992 to 2001, Dr. Feldman oversaw the preparation of the Phase I Report for the site, as well as subsequent Phase II activities.

RI/FS - REMEDIAL INVESTIGATION/FEASIBILITY STUDY AND RELATED WORK

Principal-in-Charge, Kellogg-Deering Superfund Site, Norwalk, Connecticut. Dr. Feldman served as consultant to the lead PRP in overseeing the conclusion of EPA's RI/FS effort. GZA was subsequently retained to perform Remedial Design phase when our original client became the lead PRP and took over response actions at the site. GZA's scope of work included both technical project work and assisting our client in negotiating sessions with the EPA.

Associate-in-Charge, Batavia Landfill Superfund Site, Batavia, New York. Dr. Feldman managed the remedial investigation of a landfill on behalf of NL Industries, one of the PRPs.



Project Manager, Silresim Superfund Site, Lowell, Massachusetts. Retained by a Trust formed by the PRPs, GZA managed the initial remedial investigation phase of this former chemical recycling facility.

Project Manager, Geohydrological Study, Iron Horse Park Superfund Site, Billerica, Massachusetts. Dr. Feldman managed a major geohydrological study at a landfill associated with this NPL site.

Project Manager, Hydrogeologic Investigations and Computer Modeling, Acton, Norfolk, Oak Bluffs, and Orleans, Massachusetts. Dr. Feldman headed GZA's efforts with respect to hydrogeologic investigations to assess the suitability of sites for the proposed land disposal of municipal sewage or septage effluent. In Acton and Orleans, computer modeling was used to assist in the assessment of the impact of the disposal sites on public water supplies.

Principal-in-Charge, RCRA Facility Investigation, W.R. Grace, Nashua, New Hampshire. Dr. Feldman led the GZA team which developed the scope of work for ongoing RCRA Facility investigation, and provided other consulting services related to unexpected conditions encountered at the site.

Associate-in-Charge, Kyanize Paint, Springfield, Illinois. Dr. Feldman managed the RCRA-mandated closure of this paint manufacturing facility that had stored waste on site for longer than 90 days and, as a result, had been classified as a treatment, storage, and disposal facility (TSDF). GZA's scope of work expanded to include the sampling and analysis of groundwater and soil samples, and overseeing remedial actions on the site to address soil and groundwater contaminated by paint, paint solvents, and fuel oil.

Associate-in-Charge, Wyman-Gordon Company, Worcester, Massachusetts. Dr. Feldman directed several phases of work at this site related to RCRA closure requirements. This work included groundwater monitoring, assessment of the extent of contamination, and negotiations with state and federal regulatory personnel.

LITIGATION EXPERIENCE

Dr. Feldman has served as an expert witness in several litigation matters and in many more cases where litigation was probable. His work in these cases has included the review of technical and regulatory documentation, oversight of additional field explorations at the site, the development of remedial strategies and the preparation of cost estimates, providing affidavits and depositions, and participation in settlement meetings with the litigants. Relevant experience includes:

- Retained by an attorney for a party accused of contaminating surface water supplies with polychlorinated biphenyls (PCBs), Dr. Feldman addressed the accusations by a state agency on two fronts. Research into the literature on PCBs indicated that they were essentially insoluble in water, and water samples collected by Dr. Feldman confirmed that previously reported PCB levels in samples collected by the agency had reflected the presence of entrained sediment, not the water itself. Dr. Feldman appeared in court as an expert witness. The case was decided in favor of GZA's client, the defendant.
- In another PCB-related case, Dr. Feldman was retained by the owner of property with PCB contamination whose land had been taken by eminent domain by a state agency. At issue was the fairness of the taking price, which in turn hinged directly on the expected cost of site remediation. After reviewing the site and the available documentation, Dr. Feldman concluded that the state's estimate of remedial costs was based on a number of unrealistic assumptions regarding the distribution of PCBs, and was accordingly much too high. Dr. Feldman's court testimony to this effect contributed to the landowner's being awarded a substantially higher price for the taking.
- GZA, under Dr. Feldman's direction and oversight, has provided a variety of consulting and technical services to the former owner of a large parcel of industrial property in eastern Massachusetts. Among these services has been representation in two separate pieces of litigation involving contamination of our client's property by abutting parcels. In both cases, GZA's services have included extensive field work to develop the technical basis for our client's claim. The larger of these two claims, which was recently settled, required significant participation of Dr. Feldman in settlement negotiations. The other claim, which continues to move toward litigation, will involve Dr. Feldman's participation as an expert witness.



- For many years, GZA has been providing technical assistance to a development client who bought and developed a piece of property with significant environmental problems. Contaminants at the site include waste oil with PCBs and volatile organic compounds; floating product is present as well as dissolved. This client filed suit under MGL Ch. 21E against other potentially responsible parties (PRPs) who had generated the waste oil that was brought to the site. While the presence of many of our clients on the PRP list prevented GZA from taking an advocacy role in the litigation, GZA has continued to provide technical services related to ongoing site investigation and potential site remediation, including the development of likely remediation scenarios and costs. Dr. Feldman, representing GZA at two PRP meetings, made presentations regarding GZA's past and ongoing activities at the site, and was deposed by attorneys for the PRP group.
- Retained as an expert witness by a major oil distributor, Dr. Feldman was a key participant in negotiations regarding our client's alleged responsibility for fuel oil contamination at a private residence. By developing a fresh and more cost-effective approach to site remediation strategies, Dr. Feldman was able to assist in reducing the agreed-upon range of likely remedial costs to a level where settlement was possible.
- A GZA team under Dr. Feldman's oversight provided extensive technical services in connection with litigation regarding a central Massachusetts manufacturing facility. At issue were the nature and extent of contamination, the likely remedial costs for the site, and the adequacy of previous environmental studies of the property. GZA's work included a substantial program of subsurface explorations, with soil and groundwater sampling; an assessment of excess costs associated with the demolition of the buildings on the site; an assessment of likely remedial costs; and the preparation of an MCP Phase I report for the site.
- Dr. Feldman was retained by a major industrial company to help it evaluate contribution claims brought against it by a subsequent property owner under Ch. 21E. GZA's role was to evaluate the technical basis for the plaintiff's claims and the reasonableness of its response costs to date.

PROFESSIONAL ACTIVITIES

Appointee, Massachusetts Department of Environmental Protection, Bureau of Waste Site Cleanup Advisory Committee

Former Member, Board of Registration of Hazardous Waste Site Cleanup Professionals

Former Appointee, Study Committee for Waste Site Cleanup Program Improvements and Long-Term Funding

Former Governor's Appointee to Water Resources Management Act Advisory Committee

Former Governor's Appointee to the Massachusetts Water Resources Commission

Former Member, Massachusetts 21E Study Committee

Former Appointee, Massachusetts Brownfields Advisory Committee

Licensed Site Professional Association (Founding Director and Past President)

Government Affairs Advisory Committee, Massachusetts Chapter of NAIOP

Member, Boston Bar Association