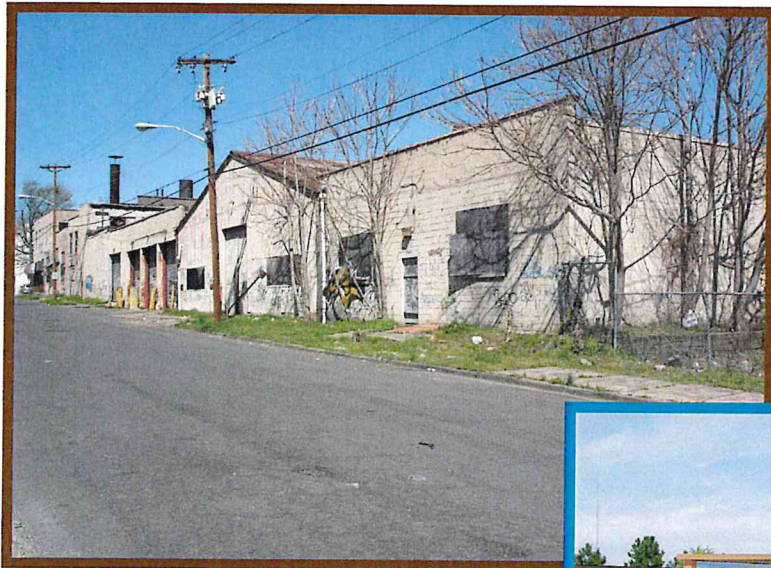


Statement of Qualifications



***Solving Environmental Problems
& Creating Redevelopment Opportunities***

111 North Center Drive. North Brunswick, NJ 08902
Phone (732) 545-9525. Fax (732) 545-9425
Visit our website at www.excelenv.com

Certified WBE/WBENC, SBE, DBE & SDA

1 INTRODUCTION

EXCEL Environmental Resources, Inc. (EXCEL) is a privately owned and operated, full-service environmental consulting and engineering firm. EXCEL has one principal place of business, centrally located in New Jersey at 111 North Center Drive, North Brunswick, Middlesex County.

We have been solving environmental problems and creating redevelopment opportunities since our incorporation in 1994.

EXCEL has a unique team of professionals with extensive hands-on, practical experience in all aspects of environmental compliance.

We have distinguished ourselves by performing and thinking *out of the box* to successfully tackle complex environmental problems while maintaining compliance with the *New Jersey Department of Environmental Protection (NJDEP)* Technical Requirements for Site Remediation (Technical Rules) and other applicable rules and regulations.

Professionals at EXCEL have industrial, commercial, residential, and governmental project experience, ranging from small site assessments and tank closures to large, complex soil and groundwater remediation projects using innovative treatment technologies. At present, six individuals at EXCEL are *Licensed Site Remediation Professionals (LSRPs)*.

We very often work with exceptionally short timelines and deadlines and have delivered high-quality and effective services and products each time.

EXCEL is experienced and highly qualified in the preparation of applications and the acquisition of environmental permits and we are also highly skilled in the preparation of high quality, user-friendly, and effective reports for all phases of environmental compliance, including *Preliminary Assessment (PA)*, *Site Investigation (SI)*, *Remedial Investigation (RI)*, and *Remedial Action (RA)*.



Our professionals work closely with our clients as a team member and invaluable resource for resolution of environmental issues. This teamwork includes participation in negotiations with State agencies, third-party property owners, and prospective developers; preparation for and participation in Council meetings (open and closed sessions), public meetings, Planning and Zoning Board meetings, and stakeholder meetings; and participation in outreach events associated with Brownfield redevelopment projects, including those involving eminent domain.

We have a significant amount of experience in dealing with the public with regard to site inspections, environmental investigations, and remediation and have experience explaining environmental conditions using clear lay person terms.

We have assisted many of our clients in gaining access to private property for purposes of conducting pre-acquisition due diligence, including situations where the use of eminent domain or condemnation is an actual or potential issue.

EXCEL also provides expert litigation support to all of our clients, including expert third-party evaluation of issues of technical or regulatory compliance and cost reasonableness, preparation of expert reports, assistance with preparation of interrogatories and depositions, and expert testimony.

- EXCEL is certified as a *Woman-owned Business Enterprise (WBE)*, a *Small Business Enterprise (SBE)*, and a *Disadvantaged Business Enterprise (DBE)*.
- The *NJDEP* has certified the firm and many of our professionals for Subsurface Evaluation of regulated *Underground Storage Tanks (USTs)*. (*Attachment C*)
- EXCEL has a strong reputation in the environmental industry as evidenced by the fact that the majority of our new business includes repeat clients and word-of-mouth referrals and recommendations.
- We pride ourselves on the high quality and technical excellence of all our services. We have developed cost-effective and creative solutions based on years of problem-solving experience.



2 WHY WE ARE UNIQUE

We are a unique company with a broad service base and experienced professionals.

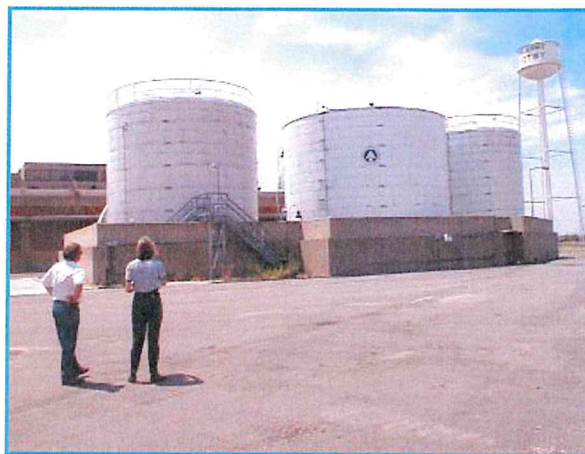
- EXCEL professionals are experts in balancing technical innovation, economic feasibility, and agency acceptability with a clear focus on achieving project closure in a timely, cost-effective, and compliant manner.
- EXCEL professionals are highly experienced with both the administrative and technical requirements of New Jersey environmental regulations.
- EXCEL has developed strong relationships with the *NJDEP* and other state agencies through years of successfully navigating large and small projects through the compliance process.
- EXCEL has a solid track record of success with innovative remedial alternatives under a wide range of circumstances and site conditions. Our professionals stay on the forefront of new and emergent remediation technologies and often solve problems that others have said could not be solved.
- EXCEL professionals are well versed in State and Federal grant and financial incentive programs that offset costs of environmental compliance and remediation (see Sections 3.2 and 3.15). EXCEL prepares grant applications for environmental investigation, remedial action, and *Brownfield Development Area (BDA)* designations on behalf of our public sector clients at our cost.
- EXCEL's professionals have a keen understanding of the real estate transaction and redevelopment process, including development trends, issues of concern to lenders and investors, developments in the environmental insurance industry, and financial incentives for both the public sector and private third-party developers.
- EXCEL has successfully completed site-wide remediation of Brownfield properties that fully integrates remediation into redevelopment planning, significantly offsetting capital costs.
- EXCEL's President, Lawra Dodge is a recognized expert in the Brownfield industry and is an active member of multiple industry organizations. Her input is routinely sought by public and private sector leaders on issues and policies that affect the industry.



3 SERVICES

EXCEL's staff is comprised of experienced, highly skilled, and highly committed environmental professionals. Our staff is highly experienced in all aspects of the environmental investigation and remediation process in New Jersey with an emphasis on the performance of goal-oriented *PA*, *SI*, *RI*, *RA*, and *UST* closure projects. These projects range from real estate transaction-related *PA*s and *SI*s coupled with strategic environmental consulting aimed at property redevelopment to complex site-wide investigations and aggressive soil and groundwater remedial action.

EXCEL's experience includes property-specific environmental assessments (*PA/SI/RI*) for properties that were vital to the clients' redevelopment goals, multi-site evaluations within large redevelopment areas, *UST* closure and remediation, site-wide soil and groundwater remediation, expert testimony in support of litigation, participation in a wide range of meetings, and technical presentations of all kinds.



Our services are solution-oriented, innovative, and focused on the needs and objectives of each client. The following sections address these services in detail.

3.1 Transactional Due Diligence, Preliminary Assessment & Site Investigation

EXCEL offers comprehensive services for performance of Phase I and II *Environmental Site Assessments (ESA)*, *PA*, *SI*, and *RI* in support of the sale, acquisition, and redevelopment of property as well as for compliance with a wide range of regulations, including New Jersey's *Site Remediation Reform Act (SRRA)*, *Industrial Site Recovery Act (ISRA)*, *Spill Compensation and Control Act*, and *Underground Storage of Hazardous Substances Act*, among others.

Our professionals are uniquely skilled at developing streamlined investigation strategies that are tailored to the objectives of each project, including superior transaction-related services and end-use oriented investigations that smoothly transition into site remediation and redevelopment. We have successfully completed high quality Phase I *ESA* and *PA* projects, as well as site-wide soil and groundwater *SI*s and *RI*s, many under extremely demanding time constraints, the most challenging of site conditions, and virtually every contamination scenario imaginable.



EXCEL conducts all remediation projects based on sound technical and regulatory strategies and, as now required under the *SRRRA*, EXCEL's *LSRPs* (six individuals at EXCEL have obtained their *LSRP* status at present) are qualified to prepare *Response Action Outcome (RAO)* letters in order to close out particular projects where an *LSRP* is retained.

EXCEL conducts an evaluation of the potential presence of *Asbestos Containing Materials (ACM)* and *Lead-Based Paint (LBP)* as part of the due diligence process and *PA* since these issues relate to site health and safety and demolition as part of property redevelopment. Although *ACM* and *LBP* are not defined as *Areas of Concern (AOC)* in accordance with the *NJDEP* Technical Rules, during a *PA*, EXCEL determines the presence of potential *ACM* and/or *LBP* based on the age of construction of the building and observations made during the *PA* site inspection. Some building materials, including roofing materials, ceiling and floor tiles and mastic, particularly in the office and storage areas, are typically considered suspect *ACM* and exterior/interior painted surfaces may be covered in *LBP* depending on the age of the building. EXCEL makes recommendations in the *PA* report as to whether an *ACM* survey should be conducted prior to any planned building renovation and/or demolition activities that may disrupt these materials as necessary to establish safe and regulatory compliant handling procedures and accurate cost estimates for management of construction debris. As necessary, EXCEL coordinates with and subcontracts to qualified professionals certified for asbestos abatement and monitoring.

Our senior professionals have an average of more than 20 years of experience in the design and implementation of site and subsurface investigations and are experts in the use of innovative technical approaches to soil and groundwater investigation and data evaluation. We stay on the forefront of emerging technologies and changing environmental regulations and utilize the depth of our expertise to streamline the site assessment and investigation process to consistently and cost-efficiently achieve our clients' goals.

Specific site assessment and investigation services offered by EXCEL include:

Phase I / Preliminary Assessment

- Transactional Due Diligence
- *NJDEP* and United States Environmental Protection Agency (*USEPA*) All Appropriate Inquiry Standards
- *ISRA* Compliance
- Green Acres Program Support
- Environmental Audits and Impact Statements



Phase II / Site Investigation

- Soil, Groundwater, and Surface Water
- Geophysical Surveys
- State-of-the-Art Field Screening and Testing Techniques
- Streamlined Investigation Strategies

Remedial Investigation

- Soil and Groundwater Quality
- Geologic and Hydrogeologic Characterization
- Natural Remediation and *Classification Exception Area (CEA)* Proposals
- Baseline Ecological Evaluations
- Natural Resource Damage Calculations

Innovative Investigative Techniques

- Direct-Push Soil Borings
- Horizontal Drilling
- Field Immunoassay Testing
- Soil Gas Surveys
- Advanced Petroleum Fingerprinting

Progressive Data Evaluation Techniques

- Statistical Analysis
- Risk-Based Evaluations
- Plume Dating and Source Identification
- 3-D Subsurface Visualization



3.2 Grants and Financial Assistance

There are a wide variety of grants, low and/or no interest loans, economic incentives, and cost recovery mechanisms available in the financial *toolboxes* that have been established by the State of New Jersey and the Federal government for abandoned or under-utilized properties with known or suspected contamination referred to as Brownfields.

With Smart Growth initiatives focusing development back to the urban areas, these tools very often *bridge the financial gap* and enable environmentally-challenged real estate transactions and redevelopment projects to make economic sense. Because every real estate transaction and redevelopment project is unique, however, hands-on experience with Brownfield economic incentive and cost recovery programs is critical to ensuring that viable opportunities are not lost or overlooked.

We have obtained hundreds of grants for our public sector clients, including grants to conduct *PA*, *SI*, *RI* and *RA* and have developed and successfully obtained *BDA* grants in several municipalities, including Salem City, Carteret, Keyport Borough, Woodbridge, Kearny and Plainfield.

The *BDA* is an incredibly effective grant program that enables the municipality, county, or redevelopment authority to qualify for up to \$5 million dollars in grants each year to cover 100% of environmental investigation costs and up to 75% cleanup costs. We are extremely proud of our success rate and track record with the *Hazardous Discharge Site Remediation Fund (HDSRF)* and *BDA* grant programs and are continually working on new *HDSRF* grants and *BDA* applications on behalf of our public sector clients.

Grant, loan, and cost recovery services offered by EXCEL include:

New Jersey HDSRF

- Public Entity Grant Applications for *PA*, *SI*, and *RI* (Municipalities, Counties, Redevelopment Authorities)
- Innocent Party Grants
- Innovative Technology Remediation Grants
- Residential *UST* Closure Fund
- Commercial *UST* Low Interest Loans



New Jersey HDSRF BDAs

- Selection of Potential *BDAs* for Municipalities and Counties
- Strategic Planning for Successful *BDA* Designation by *NJDEP*
- Preparation of Comprehensive *BDA* Applications
- Management of *BDAs*, including Steering Committee Coordination and Participation
& *NJDEP* Case Manager Interaction
- Implementation of Site-specific *PA*, *SI*, *RI*, and *RA* using HDSRF grants on Sites within the Designated *BDAs*
- Expert Technical and Strategic Consultation to the Mayor, Council, and Steering Committee regarding potential third-party redevelopment end uses, *Request for Proposal (RFP)* preparation and negotiation, potential redevelopers, etc.

New Jersey HDSRF Non-Profit 501(c)(3) Organizations

- *HDSRF* Grant applications to cover 100% of the cost for *PA*, *SI*, and *RI* and up to 75% of costs for *RA*
- Implementation of Site-specific *PA*, *SI*, *RI*, and *RA* using *HDSRF* grants on eligible Sites
- Expert Technical and Strategic Consultation to the Non-Profit Organization regarding potential third-party redevelopment end uses, *RFP* preparation and negotiation, potential redevelopers, etc

New Jersey Brownfield Financial Incentives

- Brownfield Site Reimbursement Fund
(75% Remediation Cost Reimbursement Program)
- *Economic Redevelopment Growth Grant (ERGG)*
(20% Total Project Reimbursement)
- Remediation Bridge Loans
- Corporate Tax Credits
- Building Materials Credits
- Real Estate Tax Abatement
- Low or No Interest Loans from Various Agencies



Third-Party Cost Recovery

- Insurance Claims Technical Support
- New Jersey Spill Fund Claims
- *Responsible Party (RP)* Litigation Support
- Expert Consultation and Reporting

3.3 Brownfield Remediation and Redevelopment

The term *Brownfield* refers to under-utilized and often abandoned properties where, until recently, environmental contamination, and/or the *stigma* of potential contamination, has discouraged redevelopment. These properties are often in areas that are attractive to developers due to existing infrastructure and access to major highways and port areas.

Many of these properties are also located in areas targeted by municipalities for redevelopment with the goal of increasing employment, property values, and tax ratables as well as creating new business opportunities to fuel continued and sustainable economic growth.

EXCEL has a seasoned professional staff with practical, hands-on experience in every aspect of the Brownfield restoration process. We know from experience that successful Brownfield restoration requires environmental expertise as well as a keen understanding of the real estate transaction and redevelopment process. Our unique staff of experts has successfully integrated remediation into redevelopment for residential, commercial, industrial, recreational, and open space end uses.

We are working with municipalities, property owners, private developers, and other stakeholders to locate candidate Brownfield properties, efficiently characterize environmental conditions, design and implement cost-effective solutions to address contamination, facilitate property transactions, and turn redevelopment plans into reality.

Our expertise in Brownfield remediation and redevelopment is evidenced by our accomplishments in returning large, complex contaminated properties to productive use, including the McGuire Gardens Housing Complex in Camden, the Former MOTBY facility (now known as The Peninsula at Bayonne Harbor), the Police Substation in Kearny, and the Municipal Public Safety Complex in Perth Amboy, among many others.



EXCEL offers turn-key Brownfield remediation and redevelopment services, including:

- Public/Private Brownfield Inventories
- Highest and Best Use Property Evaluations
- Facilitation of Public/Private Partnerships
- Grant Application Assistance
- Remediation Agreements and Other Financial Incentives
- Environmental Risk Management
- Remediation Cost Estimation
- Return on Equity Evaluations
- Environmental Assessments (*EA*) and Environmental Investigations
- Innovative Compliance Techniques
- Value Engineering
- RA Alternative Evaluations
- Remedial Action Workplan (*RAW*) Preparation / Implementation
- Integration of Remediation into Redevelopment Plans
- Insured Guaranteed Fixed-Price Remediation
- Agency Coordination and Negotiation
- Environmental Insurance Applications and Underwriting Negotiations
- Bid Specifications and Contract Documents
- Construction Management
- Technical Assistance with Third-Party Cost Recovery



3.4 Environmental Engineering & Design

EXCEL offers environmental engineering and design services for traditional design, bid preparation and acquisition, and/or remediation construction projects. Our talented and seasoned staff is experienced in the preparation of bid packages consisting of traditional plans and specifications, in addition to offering bid and construction management services, including as-built drawings and construction inspections.

EXCEL's ability to accurately assess environmental conditions plays a critical role in consistently developing successful remediation strategies. Whether conducting studies, developing plans or evaluating system performance, EXCEL offers the ideal balance of regulatory knowledge and practical field application. While we began by conducting environmental investigations and remediation, our services have expanded to cover a complete array of environmental engineering needs from remediation system design to operations and maintenance.

EXCEL provides traditional environmental engineering as well as design/build engineering services. We design cost efficient and effective environmental remediation systems, provide effective contractor management during remediation implementation and building construction associated with redevelopment, and design, build, operate, and maintain a variety of soil and groundwater RA systems.

We provide environmental engineering services from initial site inspection through design of cap systems, preparation of soil and sediment control plans, preparation of permit applications, and construction supervision. EXCEL's engineers interpret complex regulatory requirements, conduct cost-benefit analyses, and evaluate feasible design alternatives. Our in-house knowledge and experience in a wide range of site engineering situations enables us to custom-tailor engineering solutions to both straightforward and highly complex problems.



3.5 Site Remediation Services

EXCEL offers turn-key site remediation services, including expert evaluation of feasible RA alternatives, engineering design of remediation systems, implementation of large and small-scale soil and groundwater RA projects, construction management, operation and maintenance, post-remediation monitoring and reporting services.

We provide comprehensive remediation consulting services, from evaluation of feasible RA alternatives and preparation of effective RAWs to design and implementation of innovative soil and groundwater remediation systems, including RA alternatives that are fully integrated into redevelopment plans.

We prepare technically sound bid packages for competitive selection of qualified remediation contractors, air and discharge to surface water or groundwater discharge permitting services, system installation and contractor supervision during RA implementation, RA system operation and maintenance.



Our professionals are experienced in the evaluation and ranking of feasible RA alternatives and technologies, including "no-action" and Natural Remediation alternatives, the use of in-situ and ex-situ treatment technologies, and the integration of engineering and institutional controls in lieu of active remediation. We bring hands-on experience and in-depth technical knowledge with implementation of a wide range of RA techniques to the RA alternative evaluation and selection process.

We work extensively with the implementation of innovative soil and groundwater treatment technologies and focus on ways to integrate technical approaches to maximize results and cost-savings. We have successfully designed and implemented remediation systems to recover free-phase fuel oil as well as to treat soil and groundwater contaminated with petroleum products, including gasoline, No. 2, 4, and 6 fuel oil, solvents and chlorinated organics, chemicals such as pentachlorophenol and dibenzofurans, and a wide variety of heavy metals.

We have coordinated all aspects of Pilot Tests, Interim RA programs, and full-scale RA plans with General Contractor, lead engineer, and lead environmental consultant responsibilities.

Our professionals have been successfully integrating Engineering Controls, Deed Notices, and CEAs into RA plans since the inception of these NJDEP "administrative tools" and we have first-hand experience with the NJDEP under a wide variety of circumstances, including precedent-setting situations where NJDEP approval was obtained where it had never been approved by the Department before.



An overview of specific site remediation services offered by EXCEL is summarized as follows:

Remedial Action Alternatives Evaluation

- Cost-Benefit Analyses
- Integration of Remediation into Redevelopment Plans
- Natural Remediation
- Treatability and Feasibility Studies

Remedial Action Implementation

- Contractor Coordination
- Construction Management
- Insured, Guaranteed Fixed Price Remediation
- Remediation Cost Cap Insurance Quarterly Reporting

Contractor Selection / Procurement Support

- Engineering Specifications
- RFPs and Bid Documents
- Bid Review and Comparisons
- Contract Negotiation Support

Engineering & Consulting Services

- RAWs
- Soil Treatment System Design
- Groundwater / Wastewater Treatment System Design
- Grant and Loan Applications
- Remediation Agreements

Operations and Maintenance Services

- Treatment System Operations and Maintenance
- Effluent Monitoring
- Discharge Monitoring Report Preparation
- Waste Disposal and Management

Innovative Technologies / Techniques

- In-situ Chemical Oxidation/Reduction
- Soil Vapor Extraction (SVE) and Air Sparging
- Free Phase Product Recovery
- Groundwater Treatment/Reinjection
- Enhanced Bioremediation
- Natural Remediation and CEA Proposals
- Engineering Controls and Deed Notices

Post-Remediation Support Services

- Post-Remediation Groundwater Monitoring
- RA Reporting
- Deed Notice Document Preparation
- Engineering Controls Inspections
- Engineering Controls/CEA Biennial Certifications



3.6 Construction Administration, Inspection & Management

EXCEL provides construction administration, inspection, and management services for successful RA implementation, including preparation of high quality and practical Engineering Specifications, preparation of RFPs and bid documents for competitive public bidding for various vendors and contractors, bid review and cost comparison, contract negotiation support, contractor coordination, remediation construction management, and remediation Cost Cap Insurance Quarterly Reporting.

We have extensive experience and have developed highly successful Engineering Bid Specifications and RFPs for implementation of large and small-scale RA projects that have enabled us to consistently control cost growth and schedule “creep” and effectively minimize contractor change orders.

We are highly respected in the environmental remediation industry as a fair but rigorous Construction Management firm and have developed strong relationships with many of the prominent remediation contracting firms in the Tri-State area. These strong relationships have enabled us to work closely with contractors to solve problems and address unexpected conditions often using “out-of-the-box” solutions that offset cost growth, preserve the remediation schedule and budget, and successfully complete the project.

Our talented and seasoned staff provides expert remediation construction management during implementation of RA projects that include use of innovative technologies, such as SVE, Air Sparging, bioremediation, and bio-augmentation, as well as traditional construction techniques such as contaminated soil excavation and open-excavation recovery and onsite treatment of contaminated groundwater and/or free phase product.

We also provide inspection services associated with installation of vapor barrier systems, caps, and other Engineering Controls, including routine maintenance and preparation and submission of the NJDEP-required Biennial Certifications.



3.7 Cost Estimating

EXCEL's professionals utilize expertise gained over decades of implementing soil and groundwater remediation projects under the most challenging of site conditions to develop accurate and reliable cost estimates for implementation of environmental investigation, RA, and redevelopment projects for use in RA alternative evaluations and for use by our clients in decision making.

Our investigation and remediation cost estimators have demonstrated expertise in developing accurate and reliable engineering cost estimates that reflect industry standards and have been proven accurate by competitive public bidding.

Our remediation professionals conduct in-depth RA alternatives evaluations that include comparative engineering cost estimates and cost-benefit analyses for use in remedial alternative selection and RA design. In addition, we have assisted our clients with a wide range of negotiations utilizing alternative evaluations and cost estimates.

We are also experienced in the preparation and successful utilization of RA cost estimates in support of environmental insurance applications for Remediation Cost Cap and Pollution Legal Liability policies, negotiations regarding risk and insurance limits, evaluations of property value during voluntary and involuntary property acquisitions, and municipal defense against tax appeals based on property owner claims of decreased property value because of environmental contamination.

3.8 Environmental Impact Statements

EXCEL has worked with multiple public sector clients to prepare Environmental Impact Statements (EIS) and EAs under Executive Order No. 215 to evaluate the effects, if any, of proposed development projects on the environment as required by NJDEP in support of various regulatory programs and grant applications.

We have prepared technically thorough and effective EISs and EAs, as appropriate based on project-specific criteria, for use by our clients that have ranged in complexity and scope, including Phases I through VI.

Using the NJDEP Guidelines for Preparation of an EIS/EA dated April 2002, EXCEL draws from our technical expertise in the performance of environmental assessments, site investigation, and redevelopment to ensure that the EIS/EA process is thorough but efficient.

We have template documents that we utilize to streamline the process and work with each client to ensure that the level of effort is appropriate based on the project-specific details. Based on our experience, we know what the NJDEP is expecting in response to each section of the EIS or EA and have been a valuable resource to many of our public sector clients.



3.9 Underground Storage Tank Management

EXCEL provides comprehensive UST management services through a highly skilled and experienced team of professionals, including geologists, environmental scientists, and environmental engineers who are certified by the NJDEP. A copy of the firm UST certification for Subsurface Evaluation is provided in *Attachment C*.

We provide a full range of services for management of USTs on municipal, residential, commercial, and industrial properties. We have developed a unique community-wide municipal UST grant outreach program that has enlightened municipalities, homeowners, and commercial property owners regarding the availability of millions of dollars in state grants and low or no-interest loans for UST closure and remediation.

We have closed hundreds of UST systems utilizing grants for the vast majority of residential heating oil UST closures, including remediation of discharges, and grants or low or no-interest loans for our municipal and commercial clients. Our UST management team has received accolades from numerous clients for our cost-effective, timely, and service-orientated performance.

Specific UST management services offered by EXCEL include evaluation of existing UST systems, financial assistance, UST system closure, UST discharge investigation and remediation, post-closure restoration, and related support services.

3.10 Professional Technical Consultation/Support & Meetings

EXCEL provides expert environmental consultation to our public and private sector clients on technical, regulatory, and strategic aspects of the environmental component of the client's compliance issue whether it be Brownfield remediation and redevelopment on a large or small scale or proper closure of a UST.

We work closely with all of our municipal clients as a team member and invaluable resource for resolution of environmental issues, including participation in negotiations with State agencies or third-party property owners or prospective developers, preparation for and participation in Council meetings (open and closed sessions), public meetings, Planning and Zoning Board meetings, as well as stakeholder meetings and/or outreach events associated with Brownfield redevelopment projects involving the use of eminent domain.

We have assisted many of our clients in gaining access to private property for purposes of conducting pre-acquisition due diligence inspections as part of a PA or Phase I, including situations where the use of eminent domain or condemnation is an actual or potential issue. We have a significant amount of experience in dealing with the public in relation with environmental field investigations and explanation of environmental conditions using clear lay person terms.



EXCEL also provides expert litigation support to all of our clients, including expert third-party evaluation of issues of technical or regulatory compliance and cost reasonableness, preparation of expert reports, assistance with preparation of interrogatories and depositions, and expert testimony.

3.11 Licensed Site Remediation Professional Services

The SRRA, N.J.S.A. 58:10C-1 et seq., establishes a program for the licensing of LSRPs who will have responsibility for oversight of environmental investigation and cleanup. While the law changes the process of how sites are remediated, it ensures that the same stringent standards required for cleanup remain intact. The NJDEP will retain significant authority over the remediation process and will ensure that LSRPs comply with all applicable regulations, but the day-to-day management of site remediation will be overseen by a qualified LSRP.

EXCEL is uniquely qualified to assume the role of LSRP as we have a proven track record and well established, solid reputation with the NJDEP for providing sound scientifically-based environmental consulting and also having the ability to get the NJDEP comfortable with our interpretation of the data and the appropriate remedy selection. Reforms to the NJDEP's regulatory framework are still ongoing.

As a firm, EXCEL has been committed to adapting to these reforms and has regularly attended SRRA/LSRP workshops, status update sessions, and roundtables at the NJDEP in addition to providing feedback on key regulatory documents and guidance. In particular, the NJDEP Technical Rules are in the midst of undergoing significant changes.

At present, six individuals at EXCEL have permanent LSRP licenses. EXCEL has submitted a number of LSRP Notification of Retention forms for both private and public sector projects in order to advance the projects through the necessary regulatory and investigatory phases. EXCEL conducts all remediation projects based on sound technical and regulatory strategies and are qualified to prepare RAO letters in order to close out particular projects where an LSRP is retained.



3.12 Permitting & Report Preparation

EXCEL is experienced and highly qualified in the preparation of applications and the acquisition of environmental permits associated with site remediation and redevelopment and we have been highly successful in obtaining permits on behalf of our clients within reasonable and project-mandated timeframes.

We are experienced in the acquisition of permits for Waterfront Development, Wetlands Disruption, Landfill Closure and Landfill Disruption, Stream Encroachment, Discharge to Groundwater, Surface Water or sanitary sewers, Operation of Air Control Equipment, Treatment Works Authorization, Soil and Sediment Erosion Control, Demolition (including verification of disconnection of utilities), Local Construction Permits, and UST closure approvals, among others.

We are also highly skilled in the preparation of high quality, user-friendly, and effective reports for all phases of environmental compliance, including PA/SI/RI and RA. We pride ourselves on our ability to outline clear and technically sound arguments on behalf of our clients as necessary to achieve final agency approval and project objectives.

EXCEL utilizes an internal Quality Assurance (QA) and Quality Control (QC) procedures in the preparation of all calculations, data tables, figures and drawings, reports, and correspondence that enhances the quality of our reports and has contributed to the strong reputation for technical excellence that we have established with the NJDEP and other State agencies that we have worked with on environmental compliance and Brownfield remediation and redevelopment projects.

3.13 Site Safety & Quality Assurance

For each and every environmental project with a field work component, EXCEL prepares a site-specific Health and Safety Plan (HASP) as necessary for compliance with applicable provisions of the Occupational Safety and Health Administration (OSHA) 1910.120 regulations with respect to onsite worker and on and offsite community safety.

We have template HASPs for routine construction safety issues as well as more complex tasks, such as soil excavation and use of innovative RA technologies that involve hazardous chemicals. Each of our template HASPs are routinely updated to conform to changes in OSHA regulations and industry practices.

EXCEL utilizes daily, routine health and safety practices developed over years of environmental investigation and remediation experience that have greatly contributed to our excellent safety record during the firm's history. We are skilled and experienced in the design and implementation of site-specific and community air monitoring plans for real-time and confirmation laboratory analysis of air samples for organic and inorganic contaminants, particulates, and radionuclides. Our HASPs address all aspects of RA, including heavy equipment operation and safety and emergency plans and procedures.



EXCEL has also developed and is experienced in the management of QA/QC aspects of environmental compliance projects and we incorporate QA/QC measures into each and every project. When required for the project, we have prepared and implemented Quality Assurance Project Plans (QAPP) that establish the project-specific QA objectives and outlines the specific QA/QC methods and procedures to be followed for sample collection, field analyses, laboratory analyses, data reduction and validation, and calculations.

On each and every project, EXCEL utilizes a QA/QC method for checking the accuracy of tabulated data, calculations, and technical documents referred to as the *Check print Process* which has been in use since the firm's inception and has contributed to our ability to provide high quality products and services on a consistent basis.

3.14 Expert Services

EXCEL's professionals are highly experienced and skilled with third-party cost recovery measures, including technical and strategic support associated with insurance claims; New Jersey Spill Fund claims applications and cost recovery, as well as RP litigation support. We have provided expert technical, regulatory, and strategic consultation in support of litigation and have prepared multiple expert reports in support of a wide range of technical and regulatory environmental issues on straightforward and highly complex matters.

We have successfully assisted our clients and their legal counsel with interrogatories, responses to interrogatories, depositions, document requests, and other aspects of discovery; mediation, selection of specialized technical experts, strategy development, and preparation for trial testimony.

EXCEL's principal, Ms. Lawra Dodge, is a recognized expert in environmental compliance, technical aspects of soil and groundwater investigation, and RA, including integration of cleanup into redevelopment construction, and has been acknowledged and accepted as an expert in various districts in New Jersey and New York.

Ms. Dodge has given expert depositional testimony, prepared affidavits, and participated in mediation and settlement negotiations resulting in successful resolution of each case in which she was retained as a technical expert.



3.15 Federal and State Grant Writing

EXCEL has extensive first-hand experience with the broad range of Brownfield grant and financial incentive programs and packages that have been developed by various New Jersey State agencies over the past 15 years. We have worked closely with leaders of the Brownfield programs within the NJDEP, New Jersey Economic Development Authority (NJEDA), New Jersey Redevelopment Authority (NJRA), and New Jersey Department of Community Affairs (NJDCA) (including the Office of Smart Growth) as well as the Brownfield Redevelopment Interagency Team (BRIT) and the Brownfield Task Force to creatively cobble together grants, low or no-interest loans, and other financial incentive and assistance packages for our municipal, county, and redevelopment authority clients.

EXCEL has prepared grant applications on behalf of our public sector clients that collectively have yielded upwards of 10 million dollars in funds for investigation and RA of properties with known or suspected contamination, including grants from the HDSRF for performance of PA, SI, and RI, and most recently RA. We have also prepared comprehensive and highly successful BDA applications that have ranged in size and complexity. We prepare the HDSRF applications, including BDA applications, at our sole cost.

We have obtained every HDSRF grant we have applied for and have developed a highly effective and efficient grant application process and successful working relationships with the NJDEP and NJEDA staff that administer the HDSRF and BDA programs. We have more than ten years of hands-on experience with the nuances of the HDSRF grant program that often makes the difference between success and stalemate.

We are working on multiple projects funded by HDSRF grants within designated BDAs across the State and are knowledgeable and experienced in the BDA management and Steering Committee process through first-hand experience in several large cities.

We have also successfully obtained grants for our municipal clients under the NJRA Brownfield Initiative, the Housing and Urban Development (HUD) Community Development Block Grant (CDBG) program, and various programs within the NJDCA and have successfully assisted our public sector clients with the environmental components of the Green Acres Grant program to facilitate revitalization and redevelopment of parks and recreational facilities.

We have hands-on experience with preparation of grant applications under the USEPA Brownfield Pilot Program and have worked with municipal and county redevelopment authorities to develop effective Brownfield Inventories, implement effective strategies for ranking and investigation of candidate properties, and transitioning the PA/SI to RI and RA design so that redevelopment can proceed.

3.16 Government Relations

EXCEL's professionals are highly experienced and skilled in interacting with governmental agency representatives and in representing the interests of our clients during technical and regulatory negotiations, in support of applications for grants and financial assistance, during public meetings and hearings, and throughout the routine performance of our consulting and engineering responsibilities for the wide range of environmental issues and projects that we have successfully managed.

Although we are not a governmental affairs firm, we have extensive experience working effectively with our clients and their professional teams to ensure resolution and success on some of the most challenging technical and regulatory issues, including obtaining regulatory approvals that were precedent setting for both private and public sector clients.



4 EXCEL'S QUALIFICATIONS

4.1 Key Personnel

EXCEL's capabilities and effectiveness surpass many other environmental consulting firms in the industry based on the high level of skill and diverse technical experience of our professionals, the senior level attention given to all aspects of our projects, our relentless drive to meet our clients' needs, and our commitment to excellence.

The following is a brief profile of our key professional and technical staff. A resume for each of EXCEL's key professionals that details their education, qualifications, experience, and training is provided in *Attachment A*.

Lawra J. Dodge

PG, LSRP, PRESIDENT

Ms. Dodge is the founder and President of EXCEL and has more than 35 years of experience as an environmental geologist and consultant. She has successfully completed a wide variety of multi-disciplinary environmental compliance projects, including complex property transaction-related environmental projects and large-scale Brownfield remediation/redevelopment projects for municipal, industrial, military, commercial, and residential properties.

Ms. Dodge is a recognized expert in the design and implementation of innovative investigative and remedial approaches for soil and groundwater and strategic planning for cost-efficient regulatory compliance with both State and Federal regulations and a highly effective technical, regulatory, and strategic negotiator.

Ms. Dodge directs the overall technical implementation of EXCEL's Brownfield remediation and redevelopment projects for both public and private clients and has successfully transitioned multiple PA/SI projects into RI and remediation phases of work that are incorporated directly into site redevelopment plans.

Ms. Dodge provides expert consultation to public and private clients for resolution of environmental issues associated with transactional due diligence, cost-effective measures for streamlining the environmental compliance process, integration of RA into redevelopment plans, modification to existing No Further Action (NFA)/Covenant Not to Sue (CNS) letters involving changes to Engineering Controls and Deed Notices to enable redevelopment and change in property use, environmental insurance coverage, and reimbursement of investigation and cleanup costs through the HDSRF Grant program, NJRA grants and financial assistance packages, NJDCA grants and low-interest loans, NJEDA low-interest loan and financial incentive programs, and other innovative funding mechanisms.



Ron Harwood

LSRP, EXECUTIVE VICE PRESIDENT AND PROJECT DIRECTOR

Mr. Harwood is Executive Vice President and Project Director with over 25 years of experience in environmental consulting working with private and public sector clients. Mr. Harwood's experience includes planning and implementing environmental investigations (including PA, SI, and RI projects) and UST closure and remediation projects at a variety of sites involving the redevelopment of contaminated properties for residential, commercial, and industrial future uses.

His responsibilities include the management of technical staff, project management, and development of the technical and regulatory approaches for characterization of soil and groundwater quality.

Mr. Harwood is highly skilled in the development of effective and cost-efficient technical and cost proposals and investigation work plans and has managed and implemented numerous PA/SI/RI projects under the HDSRF program ranging from straightforward to highly complex in scope.

His experience in all aspects of environmental compliance and subsurface investigation coupled with his skills as a Project Manager has resulted in the successful completion of the PA/SI/RI projects in compliance with the Technical Rules, on schedule, and on budget.

Michael J. Meriney

PG, LSRP, VICE PRESIDENT/ INVESTIGATION SERVICES

Mr. Meriney is a Vice President and Senior Geologist with more than 29 years experience in the environmental consulting industry. He has extensive experience in the design and implementation of transaction-related Phase I and II ESAs, PA, SI, and RI for both private and public sector clients.

His experience has included implementation of multiple property investigations for an international convenience store client and SI and remediation for various manufacturing, telecommunication, and utility clients throughout New Jersey and Pennsylvania.

Mr. Meriney has extensive experience with implementation of environmental compliance projects with regard to New Jersey's Technical Rules, the ISRA, and Voluntary Cleanup (Memorandum of Agreement - MOA) Programs in New Jersey and Pennsylvania, including the Pennsylvania Act 2 Land Recycling Program.



Eric J. Mertz

LSRP, VICE PRESIDENT/REMEDATION SERVICES

Mr. Mertz has more than 23 years of experience with a wide range of environmental and remediation projects, including Phase I/PA, SI, RI, RA design, and construction supervision and management of large-scale, complex soil and groundwater RA projects. He is also skilled in project research, analytical data validation and reduction, report and proposal preparation, preparation of RAWs and bid specifications, subcontractor solicitation and bid evaluation, and cost estimation for investigation and remediation projects.

Mr. Mertz's experience includes supervision of large and complex soil remediation projects that have included excavation and offloading of contaminated soil, open-excavation recovery of free-phase product and contaminated groundwater, installation of onsite groundwater treatment and re-injection systems, performance of site inspections and investigations, collection of soil and groundwater samples, supervision of tank closures, test pit excavation, soil borings, well installation, and waste characterization.

Matt J. Mauro

LSRP, SR. PROJECT MANAGER

Mr. Mauro has over 21 years of experience with a wide range of diverse environmental SI and remediation projects for both the public and private sectors. He has extensive experience in the design and implementation of PAs, SIs, RIs, EISs, and Phase I and Phase II ESAs.

Mr. Mauro is highly experienced in a variety of field activities, including the collection of soil and groundwater samples and installation of monitoring wells using various drilling and direct push methodologies, implementation of various types of in-situ and ex-situ remediation technologies, and management of small and large-scale remediation and UST removal projects.

Mr. Mauro has over 5 years of experience in planning and implementing lead-based paint and asbestos investigations and surveys and his analytical background includes 4 years as an analytical chemist and field technician under the direct supervision of the USEPA.

Timothy R. Novy

REMEDIATION SITE MANAGER

Mr. Novy has more than 20 years of experience with a broad range of environmental investigation and remediation projects, including on site construction supervision of large scale complex soil and groundwater remedial action projects, bid specifications, subcontractor solicitation and bid evaluation, and cost estimating for investigation and remediation projects. He also has extensive field experience in high-hazard and emergency response situations. He has conducted more than 300 confined-space entries and has assisted or supervised the cleanup of oil and chemical spills on land and water, many of which required work in USEPA personal protection Levels B and C.

Mr. Novy has supervised soil excavation, aboveground tank demolition, remediation and engineering construction activities, and underground storage tank removal projects, including contractor coordination, supervision, and offloading of waste by rail, barge, and truck. His field experience also includes soil and groundwater sampling, test pit excavation, soil borings, well installation, site inspections, subsurface and waste characterization, and equipment maintenance. Mr. Novy is a trained Amtrak, Con Edison, and PSE&G “contractor” with additional training in various chemicals, utilities, and a wide variety of air monitoring equipment.

Other staff include geologists, environmental scientists, and administrative support staff who support EXCEL’s day-to-day operations, including implementation of field activities and management of data; project documents; technical and regulatory research; AutoCAD drafting of drawings and figures; and the routine safety, QA/QC, and administrative functions of the firm.



4.2 Client List

EXCEL has been a key technical resource and professional team member for a number of municipal, county, and redevelopment authority clients through successful performance of effective and efficient single and multi-property PA/SI/RI projects, UST closures, soil and groundwater remediation projects, and site-wide Brownfield remediation and redevelopment projects.

The following is a partial list of EXCEL's clients, representing both the private and public sectors and including industrial, commercial, and municipal clients, developers, attorneys, and real estate agencies:

Select Client Listing

Bridge Development Partners	Merck & Co., Inc.
Bayonne, City of	Ferber Company
Bayonne Local Redevelopment Authority	Middlesex County Improvement Authority
Butler, Borough of	Royce Associates
Camden Housing Authority	Neglia Engineering
Carneys Point, Township of	Newton, Town of
Carteret, Borough of	North Brunswick, Township of
Cumberland, County of	Paramount Pictures
Hightstown, Borough of	Perth Amboy, City of
Newark, City of	Paterson, City of
Edison, Township of	Penns Grove, Borough of
Federal Business Centers	Quinton Township
Fiske Brothers Refining	Revel Entertainment Group
Fort Lee, Borough of	Salem, City of
Gibbons Law Group	Sheward Partnership The
Habitat for Humanity	Lincoln Equities Group
Ringwood, Borough of	Tamburelli Properties Associates
Hugo Neu Corporation	Tunnel Barrel & Drum
Maraziti Falcon Law	Marcal Paper
Kates Nussman Rapone Ellis & Farhi	Vornado Realty Trust
Keyport, Borough of	Weichert Realtors
Kearny, Town of	Woodbridge, Town of
Lakehurst, Township of	Whitehouse Village Association
LDR Realty	Trenton, City of
Law Offices of Wanda Chin Monahan	Yonkers Construction
Urban Edge Properties	Pennrose Development
Rutgers University	NJ Housing Mortgage & Finance Agency

A summary of select environmental projects conducted for our public sector clients is provided below. More detailed case histories of select projects are included as *Attachment B*.



Rutgers University
Susan Dickison - CHMM
Rutgers Environmental Health & Safety, Manager Environmental Services
(848) 445-2550

For the past five years, EXCEL Environmental Resources, Inc. (EXCEL) has provided professional environmental consulting services to Rutgers University under their current Environmental Services Contract for approximately 40 environmental projects under this contract. To date, 27 of these Sites have been closed with the New Jersey Department of Environmental Protection (NJDEP) through a No Further Action determination or a Response Action Outcome (RAO) issued by a Licensed Site Remediation Professional (LSRP). Many of these projects involved the expert redirection of historic projects previously managed by other consultants.

EXCEL conducted all phases of site remediation including Preliminary Assessment (PA), Site Investigation (SI), Remedial Investigation (RI), and Remedial Action (RA) on the portfolio of Rutgers University projects. These projects involved development of detailed Conceptual Site Models, the investigation/remediation of underground storage tanks (USTs), Historic Fill, chlorinated volatile organic compounds (VOCs) in soil and groundwater, and numerous other Areas of Environmental Concern (AOC).

Three project examples relative to the scope of the Rowan University Ellis Street Parking Lot Project are described below.

Rutgers University – Essex County
University of Medicine and Dentistry of New Jersey (UMDNJ)
Lot 4A Newark, New Jersey

An inactive 5,000-gallon No. 6 fuel oil UST was located under the sidewalk and asphalt-paved driveway entrance to the parking area designated as Lot 4A on the subject property. The previously unknown UST was encountered by Rutgers and contractors during paving and masonry activities for the construction of the Lot 4A parking area. The UST, which was unable to be removed by excavation due to the proximity to the street and underground utilities, was abandoned-in-place using flowable fill material.

Subsequent to the removal of overburden soil, soil located directly adjacent to the UST, removed to access the tank and to assess the feasibility of removing the UST, exhibited odors, staining, and elevated PID readings. EXCEL conducted a focused soil quality investigation based on these observations. Based on the soil staining and elevated PID readings observed immediately above bedrock and the suspected age of the discharge, a groundwater investigation was also conducted to verify groundwater quality in the vicinity of the abandoned-in-place UST. EXCEL prepared the UST Closure/SI Report



summarizing the results of the UST Closure and soil and groundwater investigation activities conducted at the subject property and recommending RI activities.

Rutgers University– Middlesex County
Taylor Road, Busch Campus

Piscataway, New Jersey

While excavating along Taylor Road for the installation of water utilities and a new cooling tower for the newly constructed Science Building, Rutgers University contractors encountered odors within an excavation. EXCEL was directed to oversee soil excavation activities and direct load out of excavated material for offsite disposal, as necessary, in order to allow utility installation to proceed without delaying construction activities.

As part of a subsequent site investigation, EXCEL directed the advancement of soil borings in the vicinity of the utility excavation area and installed temporary well points (TWP) at each boring location. EXCEL prepared a Site Investigation/Remedial Action Report and recommended no further action based on the results of soil and groundwater investigation activities associated with the former utility excavation. An unrestricted use AOC only Response Action Outcome was issued.

Rutgers University – Essex County
Stanley S. Bergen Building

Newark, New Jersey

On behalf of Rutgers University, EXCEL conducted a PA to identify potential areas of environmental concern (AOCs) in accordance with the New Jersey Department of Environmental Protection (NJDEP) Technical Rules. A total of 17 AOCs were identified; further investigation activities were recommended for a number of the AOCs identified during the PA, including a former 5,000-gallon diesel fuel UST previously located below the parking lot area of the subject property.

EXCEL completed a RI of the former 5,000-gallon diesel fuel UST to further characterize and delineate soil quality as well as verify groundwater quality through the installation and sampling of TWP and monitoring wells. A subsequent RA (soil excavation) was conducted including post-excavation soil sampling and groundwater monitoring.



City of Bayonne – Hudson County

Leo Property

EXCEL conducted a focused soil quality investigation at this property, located between 24th and 28th Streets in Bayonne. Results of investigation determined whether or not contaminated Historic Fill, as defined by the *New Jersey Department of Environmental Protection (NJDEP)* Technical Rules extended onto the property since Historic Fill had been documented on the adjacent property to the East. EXCEL validated and interpreted the results, and prepared a focused report for use by the City to document the findings of the soil quality investigation that confirmed Historic Fill extended onto the subject property.

The Peninsula at Bayonne Harbor – Formerly the Military Ocean Terminal Bayonne (MOTBY)

EXCEL was retained by the *Bayonne Local Redevelopment Authority (BLRA)* to be the lead environmental engineer, site construction manager, and environmental consultant for implementation of the \$11,000,000 site wide remediation of the former *MOTBY* site. This 652 acre, former military base was closed under the *Base Realignment And Closure (BRAC)* Act.

Working with the *BLRA*, EXCEL prepared a comprehensive site specific *Remedial Action Work plan (RAW)* and successfully gained the US Army's confidence that the *BLRA* could properly conduct the site wide soil and groundwater remediation as necessary for the City to accept the property contaminated from the US Army.

The *RAW* was approved by the Army and the *NJDEP* and EXCEL supervised and managed the implementation of the *Remedial Action (RA)* over a five year period that culminated in *NJDEP* issuance of the final Entire Site *No Further Action / Covenant Not to Sue (NFA/CNS)* for soil and groundwater in June 2006 thus enabling the *BLRA* to proceed full steam ahead with redevelopment activities.

The soil remediation involved excavation and offsite disposal of contaminated soil, capping and closure of a 28-acre landfill, installation of more than 1,800,000 square feet of soil and/or asphalt caps as Engineering Controls, and a successful natural attenuation program for site-wide groundwater quality under a *Classification Exception Area (CEA)*. On behalf of the *BLRA*, EXCEL prepared multiple Bid Specifications and *Request for Proposals (RFPs)* during several rounds of competitive public bidding to select and manage remediation contractors during the multiple phases of the *RA* implementation.



EXCEL successfully resolved a wide range of issues that arose during the remediation, worked closely with the *BLRA*, *NJDEP* and the Army to creatively solve problems and build a solid foundation for redevelopment, while successfully completing the project with only minimal out of pocket cost to the *BLRA*. EXCEL continues to assist the *BLRA* during integration of the remediation into the redevelopment planning for the property.

Point Builders

EXCEL conducted a focused soil quality investigation at two residential properties adjacent to the former Point Builders Property under the *NJDEP Hazardous Discharge Site Remediation Fund (HDSR)* Grant Program. The investigation was conducted to verify subsurface conditions at these two residential properties, located at 14-16 John F. Kennedy Boulevard and 197-199 West 1st Street in Bayonne, and evaluate whether or not soil quality had been adversely impacted by the migration of groundwater impacted with free-phase product from a nearby offsite and up-gradient source.

Township of Carneys Point – Salem County

Clemente Asphalt Plant

61-211 South Pennsville-Auburn Road

Tax Block 24

Lots 1 & 2

On behalf of the Township, EXCEL obtained a *HDSR* grant and conducted a *Preliminary Assessment (PA)* and *Site Investigation (SI)* as necessary to characterize environmental conditions at this site. The results of the *PA/SI* indicate an adverse impact to soil and groundwater associated with historic operations at the subject property.

The *PA/SI* is being reviewed by the *NJDEP* and EXCEL is in the process of preparing a *HDSRF* grant application to conduct the *Remedial Investigation (RI)* phase of work. Although they do not own the property, the Township is now eligible for *RI* funding under the recent changes to the *HDSRF* regulations.

Shell Road, 433

Tax Block 193

Lot 19

On behalf of the Township, EXCEL obtained a *HDSRF* grant and conducted a *PA* and *SI* as necessary to characterize environmental conditions at this site. The *PA* has been completed and EXCEL is in the process of revising the *SI* scope of work based on the findings of the *PA*. The *SI* will include the investigation of soil and groundwater quality as necessary to determine whether or not there has been an adverse impact associated with historic site operations and as necessary to facilitate the Township's evaluation of the environmental condition of the subject property.



Borough of Carteret – Middlesex County

Chrome Waterfront

On behalf of the Borough, EXCEL prepared and obtained designation for a comprehensive *Brownfields Development Area (BDA)* for the Chrome Waterfront Redevelopment Area based on an application submitted in March 2007. The *BDA* includes several waterfront Brownfield properties owned by the Borough along the Arthur Kill, including a cove that contains contaminated sediments that is impeding the Borough's ability to complete a public park, marina and recreational area.

One of the key redevelopment goals of the *BDA* and the Chrome Waterfront Redevelopment Plan is to develop a portion of Carteret's Waterfront Park into a *Marina*. This *Marina* will serve as the recreational centerpiece for the park for the citizens of Carteret, and provide further waterfront access to the public.

Based on a review of available information and additional sampling of the cove sediments conducted under the *BDA* designation indicates concentrations of arsenic (an *RA* driver) and other metals that greatly exceed the *Most Stringent Clean-up Criteria (MSCC)* promulgated by the *NJDEP*. The reported arsenic concentrations in the cove sediments are attributed to historic lumber treatment operations on the subject property. The location of the cove was identified and used as a "timber basin" or "log pond". The log pond is a manmade feature, created to treat/preserve the lumber prior to transport upland to the lumber mill.

EXCEL obtained funding from *HDSRF* to complete a *RI/RAW* and provided the *RI/RAW* deliverable in January 2012. Based on the findings of the sediment sampling program conducted during *RI* activities within the log pond, arsenic and other heavy metals were reported throughout the sediment column down to the depth at which the stratigraphy changes from an unconsolidated black-dark brown silty/clayey material to a lighter brown denser sandy matrix. Arsenic concentrations diminish below this stratigraphic contact. The depth at which the change in stratigraphy occurs and the corresponding change in arsenic concentrations occur is the proposed target dredging depth to remediate the impacted cove sediments.

The subject property consist of several zones or distinct areas including an upland Historic Fill zone, transitional Wetland/Mudflat zone, Intertidal/Subtidal Zone and Arthur Kill Channel. The *RAW* for the subject property was divided into several components including a Historic Fill Cap, Bioengineering/Slope Stabilization, Wetland/Mudflat Enhancement and Cove Dredging and Bulkhead. EXCEL obtain *RAW* approval from *NJDEP* in April 2012 and is currently obtaining the *NJDEP* Waterfront Development Permit and Army Corps of Engineer Permit to enable Remedial Action in the summer of 2015.



Borough of Elmwood Park – Bergen County

Synkote Paint Company

Synkote Paint Company is a vacant abandoned property located in a mixed industrial/residential area in Elmwood Park, Bergen County. The site, approximately quarter acre in size, was used for manufacturing industrial coatings, using pigments, resins and solvents from 1956 to 1985. Hazardous wastes were generated when the company washed their manufacturing vessels with solvents. EXCEL has met with Elmwood Park officials to assist with applying for *HDSRF* funding to complete the *RI*. Because the Borough is also considering redeveloping the parcel into an open space/recreation use, EXCEL indicated that they would be eligible for *RA* funding through the *HDSRF* with a 75% matching grant. Upon approval of the *HDSRF* pre application, EXCEL will commence *RI* activities immediately. Submission of the application is anticipated in Q2 2015.

Various Tax Lien Properties

EXCEL is also working with Elmwood Park's finance department to evaluate other Brownfields properties that the Borough controls. Investigation and possible cleanup funding granted through the *BDA*, will allow the Borough to redevelop these parcels and generate tax ratables.

City of Hackensack – Bergen County

Eval Oil Terminal

EXCEL conducted a *PA* at the former Eval Oil Terminal located on South River Street in Hackensack, NJ. The *PA* findings indicated environmental concerns related to the former bulk fuel *Above-ground Storage Tank (AST)* storage and fueling areas, suspected *Underground Storage Tanks (UST)*, areas of historic fill, and operations associated with a former service station located on the subject property. Following completion of the *PA*, EXCEL secured funding under the *HDSRF* program to complete *SI* activities to evaluate soil and groundwater conditions at the subject property. Based on the *SI* findings, both soil and groundwater were found to contain petroleum impacts from former site operations.

City of Hoboken – Hudson County

Cognis/BASF Site – Former

EXCEL was retained by the City to evaluate and advise the City with regard to the environmental conditions at the former Cognis facility, at that time owned by BASF Corporation. The evaluation included an in-depth review of all environmental reports, meetings with both City representatives, the City's environmental counsel, the Mayor and BASF's environmental team and internal redevelopment planning and strategy sessions.



EXCEL provided technical expertise during negotiations related to the environmental conditions at the site, timeframes for completing the investigation and remedial action, remedial action strategy and site redevelopment as it relates to soil and groundwater remedies chosen by BASF.

EXCEL also projected *RA* scenarios and engineering cost estimates based on various reuse options (i.e. parkland, residential, commercial/parking lot) and guided the City through successful acquisition of the property in 2017. Work is now underway for redevelopment of the property as Hoboken's Northwest Resiliency Park which will include over 1,000,000 gallons of subgrade stormwater retention above which a community park will be constructed for the residents of the City. Green infrastructure

Pino Property

The City requested EXCEL review the environmental conditions at the Pino property as part of a potential transaction. EXCEL reviewed all environmental reports in order to determine compliance with *NJDEP* regulations and guidelines, verify delineation of contaminants in both soil and groundwater, and based on the available reports to date, project costs to complete the *RI* work and *RA* based on conservative assumptions. EXCEL met with the City's environmental counsel and the property developer's environmental consultant to discuss status and future environmental work at the property. EXCEL is currently evaluating recent reports and cost estimate generated by the developer's consultant and will be advising the City with regard to next steps and estimate costs to complete the environmental phases of work.

Jackson Street Park

EXCEL was retained to assist the City in resubmission of a *HDSRF* application to secure funding to conduct remedial action activities at a City Park location. The grant is designed to assist the City by securing reimbursement of 75% of the remedial action costs required to close out the site. Allowing for unrestricted use of the City Park by the public. *RA* activities include permitting the permanent vegetated/impermeable cap at the property, inspecting the cap and maintaining compliance for the City by certifying the effectiveness of the engineering control as required by *NJDEP*. Currently, EXCEL has submitted the grant application and is working with *NJDEP* toward approval and disbursement of the funding upon completion of the work.

Block 102, Various Lots – URSA Development Group

EXCEL was asked to evaluate various environmental reports and lab data in order to quantify the remaining work required to complete the environmental tasks as part of the property transaction for the City. Issues at the site included remediation of medical waste, historic fill, impacted groundwater, and the requirement for remedial action permits and engineering/institutional controls that would be required as part of the permanent remedy for the site. EXCEL participated in the property transaction negotiation with the City's attorney, environmental counsel and *Utilized Remedial Sites Action (URSA)* Development Group in order to quantify future potential costs/fees required to maintain environmental compliance and assist in negotiation of the transaction.



Town of Kearny – Hudson County

Bat Factory – Former

EXCEL is in the process of preparing a *Hazardous Discharge Site Remediation Fund (HDSRF)* Grant application to resume investigative activities that have ceased by the *Responsible Party (RP)*. The Town has also committed to redevelop this property into Open Space/Recreation and take advantage of the grant to reimburse up to 75% for *RA* dollars.

Belgrove Drive, 50

EXCEL completed a *SI/RI* in January 2008 utilizing grants under the *HDSRF* program to successfully comply with *NJDEP* requirements to enable redevelopment of the property as a Police Substation. Construction of the Police Substation was completed subsequent to the *RI* work. EXCEL applied for and received additional *HDSRF* funding on behalf of Kearny to address an offsite fuel oil product issue to confirm that the source was not coming from the Police Substation. In September 2012, EXCEL applied for funding and received \$50,000 in Q3 2014 to investigate the offsite product issue. EXCEL will be conducting the supplemental *RI* work in Q4 2014 through Q2 2015 and anticipates providing *NJDEP* with the deliverable report in Q3 2015.

Magullian Fuel Oil Company

The Town of Kearny retained EXCEL to complete a *PA* for due diligence purposes before acquiring this former fuel oil distribution facility in order to redevelop this tract and other properties along the Passaic River into a greenway and open space/recreational area. EXCEL applied for and obtained a *HDSRF* Grant to complete the *PA*. The *PA* findings indicated that *NJDEP* issued a soils-only *No Further Action (NFA)*, however, groundwater remains an open issue.

Kearny also applied for a grant from the Green Acres Program in order to fund a portion of the development of the park and recreational area but was unable to receive this grant because of the open groundwater issue. Once a site-wide *RAO* is issued, Green Acres can release the funding. The Town retained EXCEL to opt into as *LSRP* for the site and expedite the groundwater investigation in order to obtain the critical Green Acres funding.

EXCEL presented a scope of work to the Town to evaluate groundwater as the *Licensed Site Remediation Professional (LSRP)* of record on an expedited schedule and determine a pathway to support issuance of a *Response Action Outcome (RAO)*. Based on two consecutive rounds of groundwater data from all onsite wells, no target compounds were reported above the Class IIA Groundwater Quality Criteria.

EXCEL prepared a Groundwater *RI* Report and a *RA* Report documenting the sampling data, properly sealed and abandoned all site wells and also prepared the required *RE* and *RAO* shell letter and form.



NJDEP accepted the *RAO* submittal and the Green Acres funding disbursement is pending.

Passaic Avenue, 914

EXCEL has completed *Site Investigation (SI)* activities at this property associated with a former bulk fuel facility and restaurant as part of a pending *HDSRF* grant for the City. With EXCEL's assistance, the City looks to complete *RI* and remediation activities at the property through the *HDSRF* program in hopes of acquiring the property as part of its recreation/open space program.

Passaic Avenue, Brownfield Development Area Application

On behalf of the Town, EXCEL prepared a comprehensive *BDA* application for the Passaic Avenue Redevelopment Area, which was submitted to the *NJDEP* in March 2009. In October 2009, *NJDEP* awarded Kearny designation of the Passaic Avenue Waterfront *BDA*.

The *BDA* includes several waterfront properties owned by the City along the Passaic River, including a number of former manufacturing facilities that have impacted soil, groundwater and surface water/sediment, which is interfering with the Town's ability to complete a mixed use redevelopment in this area. EXCEL has conducted several Steering Committee meeting since designation and is in the process of applying for various grants for *PA*, *SI*, *RI*, and *RA* on behalf of the Town to facilitate remediation and redevelopment of these prime waterfront properties.

River Road Sanitary Improvement

As part of the installation of new sanitary sewer service in the Town, EXCEL characterized excavated soil for disposal at a permitted facility.

Borough of Keyport – Monmouth County

Keyport Waterfront Brownfield Development Area

Keyport's Waterfront Redevelopment Area along the Raritan Bay was designated as a *BDA* in October 2005. Based on our reputation and experience managing *BDAs* across the state, Keyport retained EXCEL to manage and coordinate their designated *BDA*.

The *BDA* includes several waterfront properties owned by the Borough along the Raritan Bay, including a number of marina's, a former municipal sewage treatment facility, former commercial/manufacturing facilities and the Aeromarine/Landfill property that have impacted soil, groundwater and surface water/sediment, which is interfering with the Borough's ability to complete a mixed use/renewable energy redevelopment in this area. EXCEL has conducted many Steering Committee meeting since designation and is in the process of applying for various grants for *PA*, *SI*, *RI*, and *RA* on behalf of the Town to facilitate remediation and redevelopment of these prime waterfront properties.



Aeromarine Facility & Landfill – Former

The Former Aeromarine Facility and Landfill is located along Raritan Bay to the northeast of Walnut Street in Keyport, New Jersey. The property is approximately 52 acres in size and was previously occupied by the Aeromarine manufacturing facility. The former landfill located on the Site occupies approximately 40 acres of the subject property and has been inactive since 1979. Redevelopment of the subject property since the landfill ceased operations in 1979 has not been feasible for the current owner or Borough of Keyport due to the significant scope and associated costs of investigation and remediation activities required to properly close the landfill for beneficial reuse.

In support of this stalled redevelopment effort, EXCEL was successful in securing *HDSRF* Grants from the *NJDEP* and *NJEDA* on behalf of the Borough to properly investigate the former landfill. An *HDSRF* application for *PA*, *SI*, and *RI* funding was approved by the *NJDEP* and *NJEDA* in October 2007. EXCEL has since conducted extensive environmental investigations across the former landfill in accordance with the New Jersey Technical Rules to evaluate soil gas concentrations and soil/groundwater quality associated with the former landfill.

Investigation activities associated with the former landfill were completed in May 2010. EXCEL is currently working with the property owner, Borough of Keyport, and potential redevelopers to secure additional *HDSRF* funding for *RA* activities in conjunction with redevelopment of the property. The proposed redevelopment for the former landfill parcel includes a plan for renewable energy.

Department of Public Works (DPW) Fueling Yard / Boat Ramp – Former

The former *DPW* Fueling Yard is located along Raritan Bay to the east of Broad Street in Keyport, New Jersey. The property is approximately 5.33 acres in size and was previously used as a *DPW* fueling yard, boat ramp, and recreational area. During redevelopment of the boat ramp and bulkhead area, the Borough encountered soil and groundwater contamination associated with former operations and faced significant environmental investigation and remediation costs associated with the redevelopment.

EXCEL was successful in securing *HDSRF* grant funding for the Borough for *PA*, *SI*, and *RI* activities from the *NJDEP* and *NJEDA*. In addition, the Borough also received *RA* grant funding in order to complete removal of six *Underground Storage Tanks (UST)* and remediation of the site. EXCEL has completed all remediation activities and the Borough has received a *No Further Action (NFA)* Unrestricted Use determination for this Site from the *NJDEP*.

Department of Public Works Storage Yard/Sewage Treatment Plant –Former

The Former *DPW* Storage Yard/Sewage Treatment Plant is located along Raritan Bay to the west of Broad Street in Keyport, New Jersey. The property is approximately 3.6 acres in size and was previously occupied by the municipal sewer treatment plant and a *DPW* storage yard. The Borough proposed redevelopment of the former yard and plant

properties into the Keyport Waterfront Park as part of their waterfront redevelopment initiative but faced significant environmental investigation and remediation costs associated with the plan.

EXCEL was successful in securing *HDSRF* grant funding for the Borough for *PA* and *SI* work in 2008. Upon completion of this investigation phase, EXCEL applied for and received approximately \$900,000 to complete *RI* and *RA* activities from the *NJDEP* and *NJEDA*. In addition, the Borough also received supplemental *RA* grant funding from *NJDEP* in February 2013 in order to complete additional remediation of the site as part of the open space redevelopment plan. EXCEL has completed all remediation activities and the Borough has received a Conditional *NFA* determination for this Site from the *NJDEP* and established a Deed Notice as part of the *RA* remedy.

Township of Lakehurst – Ocean County

Proving Ground Road Landfill – Former

The Former Proving Ground Road Landfill is located off of Proving Ground Road, Lakehurst, New Jersey. The property is approximately 32.6 acres in size and is the location of a former municipal landfill that was closed in 1976. The majority of the subject property which comprises the former landfill has remained under-utilized and inactive since 1976.

EXCEL has conducted environmental investigations on the subject property which documented impacts to soil associated with the former landfill. The impacts to soil have impeded the redevelopment of the subject property due to the significant scope and associated cost of investigation and remediation activities required to remediate soil impacts at the property and properly close the landfill in a manner that will be protective of human health and the environment, and return it to a productive and beneficial use.

EXCEL is working closely with the Borough of Lakehurst in order to position the property for redevelopment. A *HDSRF* application was submitted to the *NJDEP* for *PA* funding to be completed by EXCEL. *NJDEP* approved the *HDSRF* application in October 2009 and the *PA* was completed in December 2009. Anticipating approval of the *SI* funding award by *NJDEP*, EXCEL obtained a Landfill Disruption Permit in March 2010 from *NJDEP* to conduct invasive work on the Landfill.

EXCEL proceeded to complete a vapor survey and soil quality investigation for the former landfill in 2010. The *HDSRF* funding program ceased disbursements due to the economic downturn and diminished Corporate Business Tax contributions to the fund from 2010 to 2014. EXCEL has applied for and is in the process of obtaining an *HDSRF* grant to conduct *SI/RI* work at the landfill in the amount of \$165,000. Upon award, anticipated in Q1 2015, EXCEL will resume *SI/RI* work by completing the groundwater quality investigation immediately upon work scope approval from the *NJDEP*. Following completion of investigation activities, EXCEL will initiate *RA* activities on behalf of the Borough. Landfill redevelopment plans include Open



Space/Recreation as the end use therefore, EXCEL will be preparing a Remedial Action funding scope of work to HDSRF/NJDEP to defray the cost of remediation up to 75%.

Town of Newton – Sussex County

Newton Armory

On behalf of the Town, EXCEL obtained a *HDSRF* grant and conducted a *PA/SI* as necessary to characterize environmental conditions at the former National Guard Armory. The Town was awarded approximately \$63,000 for estiamtetigative services. The results of the *PA/SI* indicate an adverse impact to soil and groundwater associated with historic operations at the subject property. The *PA/SI* Report was submitted in October 2011 and was approved by the *NJDEP*. As part of the final remediation, one gasoline *UST* and two heating oil *USTs* will be properly decommissioned and removed from the Site.

Recently, EXCEL has been retained by national grocery store retailer and has acted in an *LSRP* role to facilitate a property transaction given that there are environmental impairments that must be addressed.

Orchard Street, 27

EXCEL completed a *PA/SI* at the former heating oil distributor. The *PA* was completed and EXCEL assisted with inspecting the subslab soil when the building was razed. Additionally, EXCEL collected soil samples to address soil quality in the former aboveground oil tank locations. The *SI* was necessary to determine whether or not there has been an adverse impact associated with historic site operations and as necessary to facilitate the Township's evaluation of the environmental condition of the subject property. In December 2014, EXCEL was retained by Newton to complete the environmental work on this property in order to prepare for public auction. Specifically, EXCEL will be preparing an *Unrestricted Response Action Outcome (URAO)* as the final remediation document.

Township of North Brunswick – Middlesex County

North Brunswick High School/Veterans Park

EXCEL provided Professional Environmental Consulting and Engineering services to the Township for peer review of the work scope and costs associated with a soil and groundwater investigation and remediation at the Township High School that was developed by consultants retained by the Township Board of Education. The project involved highly complex technical issues, sensitive negotiations with various stakeholders, and strategic consultation and support to address local community concerns regarding the contamination, investigation, and clean up.



Sabella Preschool/Sabella Park

EXCEL provided Professional Environmental Consulting and Engineering services to the Township for performance of a PA required by the State of New Jersey for renewal of Sabella Preschool's Child Daycare Center License. The PA identified Suspected *Chromated Copper Arsenate (CCA)* Treated Wood associated with building structural components and play areas as a potential *Area of Concern (AOC)*.

Based on the findings of the PA, wood and soil samples were collected as part of a Focused SI/RI to evaluate the wood components and soil quality in the vicinity of the Suspected CCA Treated Wood. In addition, wood and soil samples were also collected from the recreational and play areas within Sabella Park. Review of the analytical results indicated that CCA Treated Wood was used in various building, recreation, and play area components throughout the Sabella Preschool and Sabella Park properties. The soil sample results reported elevated levels of arsenic above the NJDEP Soil Remediation Standards (SRS) in the vicinity of these wood components. Based on the results of the SI/RI, EXCEL has recommended that delineation of the arsenic-impacted soil be completed so that a RAW detailing the scope of work and costs associated with removal and offsite disposal of CCA Treated Wood components and arsenic-impacted soil can be prepared for submittal to the NJDEP.

US Gas Property – Former

The US Gas property is an abandoned Brownfields property that was effectively landlocked as a result of the Route 130/Route 1 overpass construction project completed by NJDOT. Recognizing that this property represents an eyesore to the surrounding businesses and residents and the possibility exists for impacted groundwater migration to nearby sensitive receptors such as residences and apartments.

EXCEL has obtained UST Fund dollars from NJDEP to conduct SI and RI activities on this property from 2011 to 2014 in order to evaluate the soil and groundwater quality at this property with the goal of positioning the property for redevelopment to return the parcel to conformable and viable use. Within the past several years, EXCEL has coordinated efforts with the NJDOT, NJDEP and the Township toward this goal.

EXCEL is currently preparing a comprehensive SI/RI Report for submission to NJDEP to fulfill the UST Fund SI/RI phase of work; a January 2015 submission of this deliverable is anticipated. Concurrently, EXCEL is preparing a Remedial Action cost estimate in order to apply for RA funding through the NJDEP UST Fund. This application will be submitted in February 2015 and RA work is anticipated to commence in Q2 2015.

City of Paterson – Passaic County

Apollo Dye Facility – Former

This property was largely abandoned for decades. EXCEL is working closely with Paterson in positioning this property for redevelopment and was able to obtain a



substantial *HDSRF* grant in the amount of \$2.4 million dollars to cover the full cost of asbestos removal, demolition, and sub-foundation investigation of highly dilapidated buildings that spanned an entire City block that the City foreclosed several years ago in an effort to secure it.

The demolition component of the project was necessary to access the ground underneath the foundation where underground storage tanks, pits, sumps, and trenches are suspected of causing discharges to the subsurface. In 2008, substantial asbestos removal and demolition activities were completed. In March 2010, removal of the foundations was conducted, followed by sub-slab investigation of soil and groundwater quality. In early 2014, EXCEL submitted a supplemental *SI* scope to the *NJDEP* for additional funding prior to finishing the investigation at this facility.

For redevelopment purposes, EXCEL also quantified the *RA* costs for the buyer, Paterson Housing Authority, for their future planning activities. EXCEL intends to apply for an *HDSRF* Remedial Action grant in 2015 that would reimburse up to 75% of the Remedial Action costs given that the end use of the property will be affordable housing.

Great Falls Brownfields Development Area

EXCEL sits on Paterson's Great Falls *BDA* steering committee and is a member of the *Paterson Environmental Revitalization Committee (PERC)*. EXCEL has established a proven system for the management and proactive advancement of the *BDAs* in cooperation with the municipality and *BDA* Steering Committee and has assisted with leveraging millions of dollars in funding on behalf of the designated municipalities since 2006. A solid and mutually respectful working relationship has also been developed between EXCEL and the *OBR*, particularly *OBR*'s Funding Coordinators and Project Managers and Section Chief, Tim Bartle.

Leader Dye and Finishing – Former

EXCEL obtained a *HDSRF* grant on behalf of the City to conduct a *PA* and *SI* to characterize the actual site conditions at this large abandoned Brownfield property. We are currently completing the *SI* and are transitioning into the *RI* phase of work to delineate impacts to soil that have been identified within the building.

We have quantified the cost of building demolition for use in discussions with developers; in 2007, the City successfully transferred this property to a third-party developer for redevelopment of this property.

Paperboard Specialties – Former

EXCEL has worked closely with the City to assist in the remediation and redevelopment of this abandoned industrial property located on Route 20 on which the City foreclosed several years ago in order to secure the existing unsafe buildings. We assisted the Mayor in utilizing *Housing and Urban Development - Community Development Block Grant (HUD – CDBG)* funds for demolition of the unsafe structures and cobbled together several grants from the *NJDCA* and other State agencies to fund the site-wide soil and groundwater remediation.

The City awarded the building demolition and remediation to EXCEL. Following building demolition and No. 6 oil cleanup, the City was able to sell the property to a local developer that retained EXCEL to manage the environmental components of the redevelopment, including construction management related to the capping of contaminated Historic Fill. The Site was capped using various components of a 40,000 square foot retail shopping center as Engineering Controls. EXCEL also prepared a Deed Notice and obtained a Brownfield Redevelopment Agreement application for reimbursement of up to 75% of the costs associated with these final cleanup activities.

Perth Amboy – Middlesex County

City Hall

EXCEL conducted a *UST* closure on behalf of the City. One 3,000-gallon No. 2 fuel oil *UST* was excavated and removed as part of the closure activities. Based on post-excavation sampling and the *UST* Closure Report, *NJDEP* issued a *NFA* letter for the *UST* location.

Department of Public Works, City of Perth Amboy

EXCEL conducted *UST* closures on behalf of the City. Two 1,000-gallon gasoline *UST*s, two 2,000-gallon diesel *UST*s and one 4,000-gallon No. 2 fuel oil *UST* were excavated and removed as part of the closure activities. Based on post-excavation sampling and the *UST* Closure Report, impacts to groundwater were documented in the former *UST* location. Groundwater remedial investigation activities are pending and include installation of two wells. EXCEL will request *NFA* upon completion of the *RI* activities.

Department of Public Works formerly known as Solid Waste Landfill, City of Perth Amboy

The *DPW* Former Landfill Property is located at the intersection of Smith Street and the Smith Street Connection, 599 Fayette Avenue, Perth Amboy, New Jersey. The property is approximately 19.37 acres in size and is the location of a former municipal landfill historically operated by the City that was closed and capped with soil in 1980. Portions of the subject property are currently occupied by the City *DPW*.

The majority of the subject property which comprises the former landfill has remained underutilized and inactive since 1980 other than the portion of the landfill on which the aforementioned City *DPW* and associated operations are located.

EXCEL has conducted environmental investigations on the subject property which documented impacts to both soil and groundwater quality associated with the former landfill and Site operations. The impacts to soil and groundwater quality, as well as the presence of methane-generating refuse and ash within the landfill, have impeded the redevelopment of the subject property due to the significant scope and associated cost of investigation and remediation activities required to remediate soil and groundwater



impacts at the property, properly close the landfill in a manner that will be protective of human health and the environment, and return it to a productive and beneficial use.

However, EXCEL is working closely with the City of Perth Amboy in order to position the property for redevelopment. A retroactive *HDSRF* application was submitted in November 2008 to seek reimbursement to the City for the *PA*, *SI* and *RI* work that was completed by EXCEL in 2007. NJDEP approved *Excel's HDSRF* application in early 2010 and EXCEL has completed all phases of work through *RI*.

EXCEL prepared and submitted the *PA/SI/RI/RAW* Report deliverable in January 2014 to the NJDEP case manager. EXCEL has also completed a Vapor Intrusion Survey of the DPW building complex based on findings of the landfill soil gas results. NJDEP has commented on the report and EXCEL has addressed all NJDEP issued, resubmitted the *PA/SI/RI* Report to NJDEP and EXCEL has evaluated *RA* alternatives/costs in Q3 2104 on behalf of the City.

Michael Meriney from EXCEL has been retained by the City as the *LSRP* of record and has provided as needed consulting services to maintain compliance with NJDEP guidelines and regulations.

Electrical Department, City of Perth Amboy

EXCEL conducted a *UST* closure on behalf of the City. One 2,000-gallon No. 2 fuel oil *UST* was excavated and removed as part of the closure activities. Based on post-excavation sampling and the *UST* Closure Report, NJDEP issued a *NFA* letter for the *UST* location.

Public Library, City of Perth Amboy

EXCEL was retained as *LSRP* to conduct a regulated *UST* closure on behalf of the City. EXCEL conducted removal and sampling to evaluate the soil and groundwater quality and based on post-excavation sampling, EXCEL's *LSRP* will be issuing the *RAO* shortly.

State Street, 1027

EXCEL obtained funding for the project from the NJDEP *HDSRF* program on behalf of the City for performance of a *PA*, *SI* and *RI*. The *PA* and *SI* activities have been completed and EXCEL is awaiting comments from NJDEP in order to initiate *RI* work.

Water Department, City of Perth Amboy

EXCEL conducted a *UST* closure on behalf of the City. One 1,000-gallon gasoline *UST* was excavated and removed as part of the closure activities. Based on post-excavation sampling and the *UST* Closure Report, NJDEP issued a *NFA* letter for the *UST* location.

City of Plainfield – Union County

Plainfield Central Business District Brownfields Development Area (BDA)

On behalf of the City, EXCEL prepared a comprehensive *BDA* application for several Redevelopment Areas within the City of Plainfield, which was submitted to the *NJDEP* in March 2009. In October 2009, *NJDEP* awarded Plainfield designation of the Central Business District *BDA*.

The *BDA* includes 13 properties within the Central Business District of the City, including a number of former manufacturing facilities that have impacted soil, groundwater and surface water/sediment, which is interfering with the City's ability to revitalize the business core and bring renewed life to this once busy retail/commercial center. EXCEL has conducted several Steering Committee meetings since designation and has participated in the evaluation process to facilitate remediation and redevelopment of these brownfield properties.

Township of Quinton – Salem County

Burden Hill Road

EXCEL conducted a *PA* at the subject property with funds secured under the *HDSRF* program. Based on the *PA*, EXCEL recommended a soil and groundwater quality investigation as part of an *SI*. EXCEL is awaiting comments from the *NJDEP* on the submitted *PA* report.

Gravelly Hill Road

EXCEL conducted a *PA* at the subject property with funds secured under the *HDSRF* program. Based on the *PA*, EXCEL recommended a soil and groundwater quality investigation as part of an *SI*. EXCEL is awaiting comments from the *NJDEP* on the submitted *PA* report.

Borough of Ringwood – Passaic County

Ringwood Mines/Landfill Superfund Site

EXCEL was retained by the Borough of Ringwood in order to represent, negotiate and support the Borough's best interest related to a multitude of issues associated with this National Priorities List Superfund Site. Ford Motor Company (Ford) has performed site-wide RI activities for three land Areas of Concern (AOC) that include former mines that were used for waste disposal in cooperation with the *USEPA* and *NJDEP*. The Borough is a land owner and cooperating with this Superfund action. Extensive soil, sediment, groundwater and surface water investigations, including state-of-the-art Stable Isotope Probing (SIP), Carbon Stable Isotope Analysis (CSIA), groundwater and surface water modeling and Site-wide reconnaissance surveys have been conducted along with Human Health and Ecological Risk Assessments, Remedial Action Feasibility Studies, and



Remedial Design for the land AOC remedies selected by the USEPA which include design and construction of Engineered Caps with long-term monitoring.

EXCEL has been instrumental in performing services on behalf of the Borough such as technical document review and comment, participation in meetings with *NJDEP*, *USEPA*, public meetings at the Borough Hall and with Borough representatives, technical input on investigation and remedial action work plans, negotiation with Ford, various insurance carriers, and regulators in order to support the most advantageous position for Borough from a liability standpoint. EXCEL has also been very involved with guiding and formulating the remedial action strategies in order to ensure protection of the public and the environment.

City of Salem – Salem County

Bader's Citgo Service Station – 40 West Broadway

EXCEL obtained *HDSRF* funding to conduct a *PA* and *SI* at this property. EXCEL recently completed the *PA* phase of work and has submitted the *PA* Report to *NJDEP* for approval. Additionally, EXCEL has revised the *SI* scope of work and has obtained approval by *NJDEP* to proceed. EXCEL is working on access to the property with the owner. Upon approval to access the property, EXCEL is poised to initiate *SI* activities immediately to address the environmental concerns found during the *PA* phase of work.

Brownfields Development Area for the Salem City Industrial District

On behalf of the City, EXCEL prepared a comprehensive *BDA* application for the 250-acre Salem City Industrial District that was submitted to the *NJDEP* in March 2005 and was approved by the *Office of Brownfield Reuse (OBR)* in November 2005. Investigation and *RA* activities are ongoing to date and the *BDA* will be extended for the calendar year 2011 through a *Memorandum of Understanding (MOU)* with *NJDEP*, Salem and the *BDA* Steering Committee.

The *BDA* includes multiple, large industrial waterfront properties that are owned by the City as well as several private property owners along the Salem River and Fenwick Creek. EXCEL has obtained individual grant awards on behalf of the City for *PA*, *SI*, *RI*, and *RA* to facilitate remediation and redevelopment of these prime waterfront properties. These individual grants were obtained for the following Brownfield properties within the *BDA*.

Atlantic City Electric Company

Property – 17-25 5th Street Atlantic City

EXCEL obtained *HDSRF* funding to conduct a *PA* and *SI* at this property. EXCEL recently completed the *PA* and *SI* phase of work and is awaiting approval of the *SI* report and *RI* scope of work. Upon approval, EXCEL is poised to initiate *RI* activities immediately to delineate the environmental concerns found during the *SI* phase of work.



Ernie Davis Property – Keasbey Street

EXCEL obtained *HDSRF* funding to conduct a *PA* and *SI* at this property. EXCEL recently completed the *PA* phase of work and has obtained *NJDEP* approval. EXCEL has initiated *SI* work to address the environmental concerns found during the *PA* phase of work.

Tri County Oil Property, 1 Front Street

EXCEL conducted *PA*, *SI*, *RI* and *RA* phases of work at 1 Front Street with funds secured under the *HDSRF* program. The *PA* findings indicated environmental concerns related to the bulk fuel storage areas at the property as well as the former service station that ceased operations in early 2003.

In 2007, EXCEL negotiated with *NJDEP* to allow for the removal of the *Aboveground Storage Tank (AST)* under a *SI* phase and the removal of residual product within the *ASTs* was completed as a *RA* phase. We secured 100% grant funding for removal of the *ASTs* and investigation of underlying soil and groundwater quality through the *HDSRF* grant program.

Based on the *SI* findings, both soil and groundwater were found to contain petroleum impacts. In 2008, EXCEL proceeded to prepare an application on behalf of the City to continue investigative work under an *RI* phase, however, prior to initiating this phase, *NJDEP* approved funding for the removal of all concrete debris and the surrounding retaining wall as these items were deemed as obstructions to performing the *RI* work.

The concrete has been removed and EXCEL is currently conducting *RI* activities to delineate the impacts to soil and groundwater. *HDSRF* also provided funding for the erection of a chain-link fence around the entire property for safety and security purposes during the upcoming *RA* phases of work.

Currently, EXCEL has completed supplemental *RI* work in the *New Jersey Department of Transportation (NJDOT)* right-of-way to determine soil and groundwater impacts offsite and has completed the fund-eligible investigative work at the site. EXCEL has submitted a *RI* Report dated September 2010 and will be preparing a Remedial Action funding application in 2015.

***Ivy Point Property formerly known as
National Freight Property***

EXCEL obtained *HDSRF* funding to conduct an *RI* at this property to address Historic Fill and an abandoned fuel oil UST. EXCEL completed the *RI* activities in 2011 and submitted the *RI* report to *NJDEP* in March 2012 along with a *RAW* proposing engineering controls in the form of a partial cap and perimeter fencing. A Remedial Action Permit for Soil was approved and EXCEL conducted the first Biennial Certification in the Q2 2014.

In September 2014, EXCEL also assisting the owner, South Jersey Gas, with preparation of an *RA* report to document the existing capped/fenced portions of the property and the



environmentally restricted areas in order to obtain a *Restricted Response Action Outcome* as the final remedy.

***Anchor Glass Container Corporation formerly known as
Heinz Facility (only) 83 Griffith Street***

Anchor Glass is in the process of investigating environmental concerns associated with the former Heinz Facility under the *Industrial Site Recovery Act (ISRA)*. A *RAW* was recently submitted to the *NJDEP* for review. EXCEL has acted as a resource advising the City with regard to environmental compliance issues related to the ongoing investigation and proposed *RA* by Anchor at this facility. In particular, EXCEL has advised the City on strategies for leveraging the *HDSRF* program to mutually benefit Anchor as well as the City with regard to *RA* strategies and positioning the property for planned redevelopment.

Machine Shop - 43 Ward Street –former

EXCEL obtained *HDSRF* funding to conduct a *PA* and *SI* at this property. EXCEL and the *BDA* Steering Committee have been trying to establish access to this property in order to conduct the *PA* and *SI*. These efforts to obtain access are ongoing.

Grant Street, 214 (County Rail Yard)

EXCEL obtained *HDSRF* funding to conduct a *PA* and *SI* at this property. EXCEL recently completed the *PA* and *SI* phase of work and is awaiting approval of the *SI* report and *RI* scope of work. Upon approval, EXCEL is poised to initiate *RI* activities immediately to delineate the environmental concerns found during the *SI* phase of work.

GE Fabricators, Inc. - 35 West Broadway & Front Street

EXCEL obtained *HDSRF* funding to conduct a *PA* and *SI* at this property. EXCEL and the *BDA* Steering Committee have been trying to establish access to this property in order to conduct the *PA* and *SI*. These efforts to obtain access are ongoing.

McCarthy's Bar Inc. - 190 Griffith Street

EXCEL obtained *HDSRF* funding to conduct a *PA* and *SI* at this property. EXCEL recently completed the *PA* and *SI* phase of work and is awaiting approval of the *SI* report and *RI* scope of work. Upon approval, EXCEL is poised to initiate *RI* activities immediately to delineate the environmental concerns found during the *SI* phase of work.

North Bend Fire Company No. 4:

EXCEL is in the process of preparing and submitting an *HDSRF* application to *NJDEP* to conduct a *PA* and *SI* on this property. The City and Steering Committee has expressed an interest in adding this property as a Brownfield site to the *BDA*.

Powell Property - Tilbury Road

EXCEL obtained *HDSRF* funding to conduct a *PA* and *SI* at this property. EXCEL and the *BDA* Steering Committee have been trying to establish access to this property in order to conduct the *PA* and *SI*. These efforts to obtain access are ongoing.

Salem City Sanitary Landfill - Tilbury Road

EXCEL obtained *HDSRF* funding to conduct a *PA* at this property. EXCEL recently completed the *PA* phase of work and has submitted the Draft *PA* Report to the *BDA* Steering Committee for review and certification. This *PA* Report will act as an environmental baseline dataset and will enable the City to address any concerns a future developer may have as they consider the former landfill as a building site.

South Jersey Port Corporation/Bermuda International Terminals Property

EXCEL obtained *HDSRF* funding to conduct a *PA* and *SI* at this property. EXCEL and the *BDA* Steering Committee have been trying to establish access to this property in order to conduct the *PA* and *SI*. These efforts to obtain access are ongoing.

Formerly Sunoco Service Station - 116 West Broadway

EXCEL obtained *HDSRF* funding to conduct a *PA* and *SI* at this property. EXCEL and the *BDA* Steering Committee have been trying to establish access to this property in order to conduct the *PA* and *SI*. These efforts to obtain access from Sunoco are ongoing.

Town of Woodbridge – Middlesex County

Woodbridge Brownfields Development Area

Woodbridge's Keasbey Redevelopment Areas along the Raritan River was designated as a *BDA* in October 2009. The Town of Woodbridge retained EXCEL to manage and coordinate their newly designated *BDA*.

The *BDA* includes five brownfield sites to be remediated and reused consistent with the Keasbey Area Redevelopment Plans. The Woodbridge *BDA* was proposed to remain as an industrial/warehouse area but also pursue the opportunity to recreate itself as a "Green" Industrial park. EXCEL has conducted several Steering Committee meeting since designation and has conducted *PA* work at several brownfield sites. EXCEL is in the process of applying for additional grants for *PA*, *SI*, *RI*, and *RA* on behalf of the Town to facilitate remediation and redevelopment of these prime waterfront properties.

Woodbridge Department of Public Works (DPW)

EXCEL applied for and received grant funding in January 2010 to conduct a *PA* on the Woodbridge *DPW*. A total of 23 *AOCs* were found at the property, Based on the *PA* findings, further investigation was warranted or proposed for 13 *AOCs* as part of a focused *SI* to characterize soil and, if necessary, groundwater quality at the subject property. EXCEL applied for and obtained funding in March 2010 to conduct a *SI* and *RI* on behalf of Woodbridge in order to determine the soil and/or groundwater quality at



each of the 13 AOCs. EXCEL completed the investigation and issued a *SI/RI* Report dated September 2010 to *NJDEP*. EXCEL is in the process of working with Woodbridge to evaluate and address the *AOCs* in need of Remedial Action and intend to apply for Remedial Action funding in 2015 per the allowance afforded to properties designated within the *BDA*.

Pennval Road Redevelopment Area

EXCEL has obtained funding through the *HDSRF* program to evaluate a number of properties within the Pennval Redevelopment Area. EXCEL has conducted *PAs* in 2012-2013 to complete a baseline environmental assessment of the area. EXCEL obtained funding in December 2014 to conduct an estuary sediment quality assessment within the area and will be conducting this work in Q1 2015. *SI/RI* investigation will be conducted on all accessible properties in 2015 in preparation for area wide redevelopment. It is anticipated that redevelopment will drive the completion of environmental work and issuance of *RAOs* as necessary to accommodate each individual parcel within the Pennval Road Redevelopment Area. EXCEL has been instrumental in moving this redevelopment project along and obtaining *NJDEP HDSRF* funding to complete the investigation as necessary to quantify the environmental issues in this area.



4.3 Certifications

EXCEL's *WBE*, *DBE*, and *SBE* status enable Excel to assist clients in satisfying requirements under Affirmative Action and small business set-aside regulations that may be applicable.

EXCEL is certified as a *WBE/DBE/SBE* with the following agencies:

- New Jersey Commerce and Economic Growth Commission (*WBE/SBE*)
- New Jersey Department of Transportation (*DBE/WBE*)
- The Port Authority of New York and New Jersey (*WBE*)

EXCEL and many of our professionals have been certified by the NJDEP for Subsurface Evaluation of regulated USTs. A copy of EXCEL's various licenses and certifications are provided as *Attachment C*.

EXCEL is certified by the School Development Authority (SDA) in the disciplines of environmental consultant, geology and hydrology. A copy of our certification is also provided in *Attachment C*.

EXCEL is fully insured with Comprehensive General Liability, Pollution Liability, Professional Liability (including Errors and Omissions), Workers' Compensation, and Automobile Insurance coverage. A sample copy of our current insurance certificate is available on request.

At present, five Excel professionals have LSRP licenses and EXCEL's President, Lawra Dodge, serves on the Site Remediation Professionals Licensing Board (SRPLB) that oversees the LSRP Program. Ms. Dodge has been on the SRPLB since its inception in 2010 and is the Chairwoman of the Continuing Education and By-Laws Committees and an active member of the Professional Conduct, Audit and Outreach Committees.



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Attachment A

Resumes of Key Personnel

**LAWRA J. DODGE, PG, LSRP
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EDUCATION

B.A., Geological Sciences, 1983; Rutgers University, New Brunswick, New Jersey

PROFESSIONAL LICENSES AND AFFILIATIONS

Licensed Site Remediation Professional, State of New Jersey, License No. 575217
Site Remediation Professional Licensing Board Member
Professional Geologist, State of Tennessee, License No. TN 3796
New Jersey Department of Environmental Protection (NJDEP) Underground Storage Tank (UST) Certification – Licensed Subsurface Evaluator
National Groundwater Association
NJ Licensed Site Remediation Professionals Association
National Brownfield Association
National Association of Industrial Office Properties (NAIOP)
Central Jersey Builders Association
NJ Conference of Mayors Business Council- Environmental Committee
Borough of Carteret Redevelopment Team Member and Brownfield Development Area (BDA) Steering Committee Member
City of Paterson Environmental Restoration Committee (PERC)/BDA Steering Committee
Salem City BDA Steering Committee

SUMMARY OF EXPERIENCE

Ms. Dodge is the founder and President of Excel Environmental Resources, Inc. (Excel) and has more than 36 years of experience as an environmental geologist and consultant. She is a recognized expert in contaminated property investigation, remedial action design, remediation implementation, and integration of remediation into redevelopment for industrial, military, commercial, residential, and municipal properties. Ms. Dodge has strong technical and regulatory experience and skills and has been actively involved in the Brownfield remediation and redevelopment industry since 1983. In 2009, she was named one of the Best 50 Women in Business in New Jersey by NJ Business News (NJBiz).

Ms. Dodge is a recognized expert in the investigation and remediation of soil and groundwater contamination and has successfully resolved environmental issues at some of the most challenging properties in New Jersey, New York, and Pennsylvania. She has designed, implemented, and managed small and large scale remediation and redevelopment projects throughout the Tri-State area for municipalities, counties, redevelopment authorities, industrial/commercial/residential property owners, developers and redevelopers, builders, attorneys, architects, and land planners.

She provides expert consultation to clients for resolution of environmental issues associated with transactional due diligence, cost-effective measures for streamlining and/or re-directing the environmental compliance process on stalled projects, integration of remedial action into redevelopment plans for commercial/retail, residential, industrial, and recreational, and open

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space end uses, and expert litigation, arbitration, and mediation support, including preparation of expert reports, depositions and expert testimony.

Ms. Dodge works closely with clients so that they better understand the intricacies of the contaminated property remediation and redevelopment process, including identification of Brownfield properties, fully integrating remediation into redevelopment plans, maximizing value for the property owner, developer, and/or builder on a Brownfield redevelopment project, risk and liability reduction through the use of environmental insurance products, acquisition of grants and low/no-interest loans under the NJDEP Hazardous Discharge Site Remediation Fund (HDSRF), obtaining cleanup cost reimbursement via Brownfield Redevelopment Agreements and Economic Recovery Growth Grants (ERGGs), preparation of BDA applications, and cost recovery from insurance carriers and other third-parties.

REPRESENTATIVE EXPERIENCE

1994 to Present

Excel Environmental Resources, Inc., North Brunswick, New Jersey President

Ms. Dodge manages the overall technical operations of Excel and provides expert technical and strategic consulting on a wide range of compliance, remediation, and property transaction and redevelopment issues. Ms. Dodge specializes in development of innovative, economically feasible technical approaches and designs for successful and cost-efficient implementation of environmental compliance and remediation projects. Her responsibilities also include management of senior technical and project team staff. Ms. Dodge is actively involved in agency interactions and negotiations with state and federal agency representatives on behalf of clients and provides senior technical support during project implementation. Specific experience highlights include:

- Expert litigation support experience includes preparation of expert reports for multiple matters in New Jersey and New York regarding complex environmental issues associated with discharges of petroleum products (No. 2, 4, and 6 fuel oils, gasoline, and hydraulic oil), chlorinated solvents, and other contaminants, including formulation of expert opinions regarding attribution of source between multiple discharges/dischargers, allocation of investigation and remediation costs, estimation of the discharge timeframe, evaluation of cost-reasonableness for costs incurred by various parties, etc. Expert reports have ranged from straight-forward fuel oil discharges from underground storage tank systems to highly complex contamination issues with multiple discharges over extended periods of time.
- Expert testimony during depositions and court-ordered binding arbitration for a complex cost recovery matter on a Brownfield site in Harrison, New Jersey, including evaluation of testimony given by other experts in the case, assistance with preparation of questions for deposition of the opposing experts, participation during the deposition and testimony

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of the opposing experts, and participation in strategic discussions amongst the clients litigation and environmental attorneys.

- Technical, regulatory, and strategic consultation to the Borough of Ringwood regarding ongoing Settlement Agreement negotiations with respect to investigation, Risk Assessment, Feasibility Study, and remedial action activities at the Ringwood Mines Superfund site. Working as a key member of the Borough's Team of professionals which include attorneys representing the Borough as well as multiple insurance carriers, Ms. Dodge has guided the Borough's efforts to re-define their role in the ongoing compliance activities as the investigation nears completion and remedial action alternatives are being evaluated for eventual incorporation by USEPA into Record of Decisions (ROD) for the various areas of concern at the site. Ms. Dodge's project involvement has included:
 - ✓ Review of existing environmental documents prepared by the consultant for the principle Responsible Party at the site to determine if the technical and regulatory direction of the ongoing activities is the most effective and efficient path forward or if re-direction of these activities is warranted to streamline the effort, time, and costs.
 - ✓ Development of in-depth technical, regulatory, and strategic recommendations in support of Settlement Agreement negotiations with respect to responsibilities for ongoing groundwater investigation/Risk Assessment/Feasibility Study and remedial action, including hands-on negotiations with the principle Responsible Party, their attorneys and environmental consultants as well as representatives of the USEPA and the Community Action Group (CAG) established for the site.
 - ✓ Development of work scopes and documents for investigation activities conducted by Excel on behalf of the Borough to address an area of concern identified by USEPA as requiring additional investigation at the site, evaluation and interpretation of the findings and incorporation of these data into a supplemental Remedial Investigation reports.
 - ✓ Consultation regarding the technical and regulatory efficacy of the various remedial action alternatives for groundwater and waste deposition areas, including in-depth evaluation of innovative and state-of-the-art technologies for in-situ remediation of groundwater and alternative, out-of-the box design concepts for capping various waste deposition areas while complying with both state and federal regulations.
- Technical, regulatory, and strategic consultation to the City of Paterson during evaluation of their highest priority Brownfield properties located throughout the City. Working with the NJDEP Office of Brownfield Reuse and the City's Economic Development Authority (EDA), Ms. Dodge developed a site-specific strategy to complete the environmental investigation and obtain HDSRF grant funding for each site as necessary to position the property for the transition to redevelopment.

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- ✓ Excel obtained competitive demolition quotes and estimated the remaining costs of investigation and, when possible, remediation, so that the City could determine the economic feasibility of preparing each site for redevelopment.
- ✓ Ms. Dodge prepared a user-friendly summary of the technical and strategic approach to facilitate redevelopment of each site, including grant program eligibility and sample development Pro-Forma's that were used by the City to evaluate the feasibility of cleanup in comparison to the value of the property based on various end uses (i.e. retail, multi-family residential, restaurant, etc.).
- Development of the technical and regulatory approach for demolition and remediation of the Former Paperboard Specialties property located on Route 20 in Paterson, including working with the City to obtain grants for building demolition and soil and groundwater remediation that were cobbled together from various State agency programs.
 - ✓ Ms. Dodge worked directly with the Mayor and the City's Financial Director to position the City to act as the Master Redeveloper for the property so that the building demolition and remediation proceeded using grant funds while the City negotiated with interested developers.
 - ✓ Excel coordinated with the various State agencies on behalf of the City and prepared the Remedial Action Work Plan (RAWP) and the technical scope and cost estimates in support of several grant applications that resulted in the City obtaining grants to conduct site-wide demolition and remediation.
 - ✓ Excel managed and supervised the asbestos abatement and building demolition and prepared the Soil Erosion and Sediment Control Plan as necessary to initiate soil remediation activities.
 - ✓ Excel prepared detailed Bid Specifications and a Request for Proposal (RFP) to obtain competitive bids to conduct the demolition and soil and groundwater remediation.
 - ✓ The asbestos abatement and building demolition was initiated in May 2006 and will be completed in early July 2006.
 - ✓ The soil and groundwater remediation is scheduled to begin in July 2006 and is expected to be completed in early Fall 2006.
- Ms. Dodge led a team of Excel professionals in preparation of comprehensive BDA applications, including one for a Salem County municipality that included approximately 250 acres of waterfront industrial property and multiple, complex Brownfield properties interspersed with adversely impacted non-Brownfield properties and one for a Middlesex County municipality that included approximately 50 acres of waterfront industrial property.
 - ✓ Excel worked closely with both municipalities to select the BDA area, develop the technical and strategic approach to implementing the BDA, assist the City with selection of the BDA Steering Committee, and prepare the full BDA application for submission to NJDEP in March 2006.
 - ✓ Although the final decision will not be announced until late Summer/early Fall 2006, the NJDEP BDA selection committee has informally indicated that one or

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both of these BDA applications will likely result in a formal BDA designation thus expanding the investigation and cleanup grant eligibility for the municipality(s) under the HDSRF regulations.

- Development of the technical work scope for the remediation of the contaminated parcels of the 600-acre Military Ocean Terminal (MOTBY) on behalf of the Bayonne Local Redevelopment Authority (BLRA) to enable the transfer of the land to the BLRA by the U.S. Army under the Base Realignment and Closure Act (BRAC).
 - ✓ MOTBY was the first base transferred by the Army under BRAC prior to implementation of the remediation and the early transfer was unprecedented in that it enabled the remediation to be completed by the BLRA in approximately half the time estimated by the Army utilizing cleanup funds set aside by the Army.
 - ✓ Ms. Dodge developed the technical approach for the \$11 million remediation that transitioned the project from the Remedial Investigation (RI) to remediation. She successfully presented and negotiated the scope and associated cost of remediation with the U.S. Army on behalf of the BLRA and obtained both Army and NJDEP approval of the RAWP.
 - ✓ Ms. Dodge was instrumental in preparing the application for a site-wide Environmental Cost Cap and Pollution Legal Liability policy that was obtained by the BLRA and the Army, including successfully negotiating with the insurance underwriters in support of the remediation scope and cost thus assisting BLRA in obtaining favorable policy terms and premiums. Although the Cost Cap policy had no deductible or self-insured retention, the remediation was completed on time and on budget without ever triggering the insurance policy.
 - ✓ Excel was awarded the role of Construction Manager and Environmental Engineering Consultant to manage the remediation on behalf of the BLRA, including bid specification preparation and contractor supervision for more than 15 phases of bidding over the course of four years.
 - ✓ The remediation work scope included excavation and disposal of soil “hot spots”, reuse of a portion of the excavated soil as sub-grade fill, design and construction of multiple soil and asphalt caps, completion of a site-wide groundwater investigation and finalization of a Classification Exception Area (CEA) for final resolution of residual groundwater contamination;
 - ✓ The remediation also included investigation and subsequent closure of a 28-acre former landfill that was operated by the Army, including design of the landfill cap and preparation of a Landfill Closure/Post-Closure Care/Financial Plan;
 - ✓ The Entire Site No Further Action (NFA)/Covenant-not-Sue (CNS) was received in June 2006 thus enabling the BLRA to successfully transition the property into implementation of their site-wide Redevelopment Plan. Ms. Dodge also provided expert environmental consultation to the BLRA Redevelopment Project Team during finalization of the Master Redevelopment Plan and during the transition into redevelopment.
 - ✓ In support of the transition from remediation into redevelopment for residential, commercial, and recreational end uses, Excel prepared a user-friendly

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Environmental Procedures Document that succinctly outlines environmental conditions at the site and cross-references areas that have been remediated with areas that will be redeveloped.

- ✓ The Document clearly outlines the procedures to be used by redevelopers for future disruption during development of Engineering Controls and Deed Notices that are being established at the site as part of the current remediation.
 - ✓ The Environmental Procedures Document has proven invaluable to the BLRA and the developers initiating redevelopment at the site and has successfully facilitated and streamlined the transition from remediation to redevelopment.
- Development of the technical and regulatory approach for redevelopment of a 22-acre low-income residential property on behalf of the Camden Housing Authority that is located on contaminated Historic Fill. Ms. Dodge developed a technical approach that streamlined NJDEP requirements for site-wide characterization, incorporated the redevelopment plans as engineered “caps” over the contaminated Historic Fill to enable residential use of the property, and included onsite training and supervision of construction contractors during building demolition, utility installation, and new building construction.
 - ✓ All excavated contaminated fill was reused onsite under the new buildings, parking lots, streets, sidewalks, and landscaping with no offsite soil disposal required thus saving the clients hundreds of thousands of dollars.
 - ✓ Ms. Dodge conducted all negotiations with the NJDEP and municipal representatives for final approval of the remediation and redevelopment plans.
 - Development of the technical and regulatory approach for integration of redevelopment plans for an assisted living facility into the remediation of a former chemical plant site in northern New Jersey. Ms. Dodge utilized information from previous environmental investigations at the site to develop a focused investigation to fill critical data gaps as necessary to satisfy NJDEP requirements for site characterization prior to development of a remedial action work scope that included use of the building foundation, asphalt-paved parking lots, concrete sidewalks, and landscaped areas as engineered “caps” for contaminated soil thus enabling a future residential use of the property.
 - Management of a multi-million dollar soil and groundwater remediation resulting from a surface and subsurface release of hydraulic fluid in a tidally influenced area. Activities included preparation of bid documents, management of competitive bidding process, contractor negotiation, preparation of the remediation stop cap insurance application and negotiation with insurance underwriters, and supervision of the Excel project team and subcontractors during implementation of the work.
 - ✓ The work scope included excavation of more than 8,000 tons of polychlorinated biphenyl (PCB)-contaminated soil that was managed in accordance with Toxic Substances Control Act (TSCA) regulations, installation and maintenance of an emergency product recovery system, and installation and maintenance of a permanent 100-gallon per minute groundwater recovery, treatment, and

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reinjection system, final negotiations with NJDEP for resolution of impact to surface water issues and case closure.

- Management of a million dollar Interim Remedial Action conducted on behalf of the City of Bayonne and funded by the New Jersey Redevelopment Authority's (NJRA's) Brownfields Redevelopment Initiative, including preparation of bid specifications and management of the competitive bidding process for multiple contractors. The work scope included decontamination and demolition of multi-million gallon aboveground storage tanks (ASTs), excavation of more than 11,000 tons of oil-impacted soil, demolition of equipment and associated concrete pads, excavation and disposal of more than 8,500 tons of oil-impacted soil, and onsite recovery of free-product and treatment and reinjection of groundwater recovered during excavation.
 - ✓ The project was successfully completed on schedule and under budget with no significant change orders issued by any of the four primary contractors. A second \$1,000,000 financial assistance package was granted by the NJRA to enable completion of the soil excavation and installation of a full-scale groundwater recovery and treatment system.
 - ✓ Full-scale site-wide remediation is anticipated to be completed in the Spring 2002 and the City is proceeding with property redevelopment plans to enable beneficial reuse of the site.
- Technical consulting for a site-wide investigation of an abandoned rubber manufacturing facility in order to enable redevelopment of the property for retail use. The project included negotiation with municipal representatives for relief of back taxes, design and implementation of a focused investigation of soil and groundwater, supervision of the environmental aspects of building demolition, incorporation of the cleanup into future development plans, obtaining expedited agency review and approval of plans, and negotiating a Redevelopment Agreement with the NJDEP and the EDA for reimbursement of cleanup costs under the Brownfield Act.
- Management of the design, installation, operation, and performance monitoring of several groundwater recovery and treatment systems installed in response to various subsurface releases of No. 2 and No. 6 fuel oil from underground storage tanks, including development of the overall technical approach, negotiations with the NJDEP, performance data evaluation, cost and schedule control, and negotiations for final project closure and issuance of the NFA/CNS.
- Technical consulting on behalf of a developer who owns property in a former military installation in central New Jersey in which a site-wide Remedial Investigation of soil and groundwater contamination resulting from historical military activities is in progress. Key issues included petroleum contamination and dredge material issues, including arsenic, lead, and beryllium contamination in soil and shallow groundwater, as well as mitigation of wetlands.

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- ✓ Other site issues included management and investigation of soil impacts associated with former munitions bunkers, munitions deposition areas, and unexploded ordinances. Ms. Dodge reviewed the technical reports and data and represented the developer's interests at technical meetings with the NJDEP, US Environmental Protection Agency (EPA), the military, and the environmental consultants for the military.
- Development of site-specific Impact to Groundwater Soil Cleanup Criteria for mercury, lead, cadmium, and arsenic for a pharmaceutical company client as necessary to support the client's proposed Alternate Remediation Standards for a site-wide in-situ soil treatment remediation project. Since onsite groundwater had been impacted by these metals, Excel developed an investigation that included speciation analyses, Synthetic Precipitation Leaching Procedure (SPLP) testing, and a groundwater geochemical evaluation to verify the relationship between soil concentrations and the redox conditions of the groundwater that were influencing the solubility of the various metals.
 - ✓ Based on the data generated by Excel and the in-depth evaluation and interpretation conducted as part of the investigation, the NJDEP accepted the client's Alternate Remediation Standards as protective of groundwater quality.
- Management of the Remedial Investigation and Remedial Action of a significant fuel oil release from a large-capacity residential heating oil tank, including technical consulting in support of insurance claims for coverage of third-party damages resulting from the release. Negotiated with the insurer and the insurer's environmental consultant on behalf of the insured to obtain full compensation for the cost of the investigation and remedial activities.
- Management of a Remedial Investigation and Remedial Action of a gasoline release which included design, installation, and operation of a soil vapor extraction and groundwater recovery and onsite treatment system. The project included performance of a Remedial Alternatives Analysis for selection of the remedial approach and design and implementation of a Natural Remediation program for offsite groundwater contamination in lieu of active remediation for the offsite plume. Handled all off-site notification and community relations with no adverse community reaction.
- Management of a Remedial Investigation and Remedial Action which included installation and operation of a free-phase fuel oil and groundwater recovery and treatment system in response to a subsurface and surface water release of No. 4 and No. 6 fuel oil from a UST. Included coordination of the Hudson River spill cleanup and negotiations with the U.S. Coast Guard and NJDEP on behalf of the client. Successfully negotiated a Deed Notice for oil-impacted soils located under an adjacent building.

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1992 to 1994

**Environmental Compliance Monitoring, Inc. (ECM), Somerville, New Jersey
Manager, Environmental Geology and Remediation Division**

As Technical Manager, Ms. Dodge was responsible for management of the Environmental Division, including design and coordination of environmental compliance projects, technical development of the geology and engineering staff, and overall business unit management. Her technical work responsibilities included technical design of soil and groundwater investigations, underground tank closures, evaluation of feasible remedial alternatives, and implementation of soil and groundwater remediation projects.

1989 to 1992

**IT Corporation, Philadelphia, Pennsylvania and Cincinnati, Ohio
Senior Project Manager, Environmental Engineering Special Projects Group**

As a Senior Project Manager in the Special Projects Group, Ms. Dodge was responsible for the technical development and overall management of large, multi-disciplinary environmental remediation projects. Key experience includes:

- Project Manager for a multi-million dollar full-scale soil flushing field demonstration under the Resource Conservation and Recovery Act (RCRA) Corrective Action Program for a chemical plant located in Tacoma, Washington, including development of the technical approach, management of the multi-disciplinary IT Technical Team and associated subcontractors, management of the engineering design for the recovery well network, a spray irrigation system, and a soil-bentonite slurry wall for containment of groundwater within the Operable Unit requiring treatment, and onsite management of the installation of the soil flushing system over a 30-day field schedule.
 - ✓ The target soil contaminants were pentachlorophenol, lead, arsenic, and a variety of other organic and inorganic compounds in soils at the site. Investigation of other areas of the site involved remote drilling due to extreme hazardous conditions, including the potential for explosion due to exposure of contaminants to atmospheric conditions.
 - ✓ The field demonstration aspect of the project was completed on schedule and on budget.
- Project Manager for an 8-million dollar Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) removal action at a military base located in central Ohio to prevent the offsite migration of volatile organic compound (VOC)-contaminated groundwater, including management of the engineering design and construction of a 2,400 gpm-capacity groundwater extraction and shallow tray aeration system in a remote location of the Base, management of the detailed engineering design and receipt of approval from the military and oversight environmental consultant followed by management of a 25-person technical team.

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- ✓ The work scope included implementation of the construction phase of remediation, including clearing and grubbing a heavily wooded area for installation of more than 3,000 linear feet of discharge pipe, construction of an outfall in the adjacent river, construction of an earthen pad to elevate the treatment system above the flood plain, fabrication of the treatment system, installation of multiple high-yield extraction wells, design, installation, and testing of a remote telemetry system.
 - ✓ Ms. Dodge was responsible for negotiations with the military, the Ohio EPA, and the U.S. EPA regarding the scope of work, adherence to NQA1 quality assurance/quality control requirements, and overall management of the schedule and the budget.
 - ✓ The project was completed on schedule and within the authorized budget. IT was subsequently awarded a larger remediation contract based on the success of the Immediate Removal Action.
- Project Director for multiple projects which involved design and implementation of site-wide, multi-disciplinary soil and groundwater investigations and remediation projects for chemical plants located in Michigan, Illinois, Florida, and New Jersey to characterize a wide variety of organic and inorganic contaminants for one of IT's largest clients.
 - ✓ Work scopes were varied and included aquifer testing, soil gas surveys, geophysical surveys, an in-depth comparative evaluation of over 25 different remedial technologies, followed by field demonstrations of recommended insitu treatment technologies, including soil vapor extraction and soil flushing systems.
 - Project Manager of a multi-office IT project team to complete the remedial design for remediation of a 38-story high-rise office building located in Center City Philadelphia which was contaminated by PCBs and dioxins as a result of a major fire. Ms. Dodge compiled a technical team of IT engineers, industrial hygienists, and remediation experts from IT's offices in Cincinnati, Pittsburgh, Knoxville, and Edison, New Jersey to enable the remedial design to be completed on an expedited schedule as required by the client.
 - ✓ The work scope included conducting take-offs of all the building materials and surfaces requiring remediation within three separate zones of the building that encompassed more than 20 floors, overall supervision of the design development, including resolution of technical and regulatory issues and negotiations with the client and the client's insurance carrier, followed by preparation of the Remedial Action Workplan, detailed Bid Specifications, and an engineering cost estimate for implementation of the remediation.
 - ✓ The remedial design was completed on budget and in less than 3 months from initiation of the project thus meeting the needs of the project.
 - Management of a corporate-wide 3 million dollar Compliance Program to provide national support to the environmental needs of a major industrial client, including coordination of technical staff in multiple IT offices across the county.

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1985 to 1989

IT Corporation, Edison, New Jersey and Pittsburgh, Pennsylvania
Project Manager, Geosciences Division

Responsibilities included the design and implementation of a variety of multi-disciplinary projects dealing with the investigation and remediation of soil and groundwater contamination. Coordinated several projects utilizing technical personnel from various offices to maximize technical quality and cost-efficiency. Experience highlights are:

- Development and implementation of over 30 investigations for Environmental Cleanup Responsibility Act (ECRA) compliance involving both soil and groundwater investigation for a wide variety of organic and inorganic contaminants. Evaluation of results of investigation and development of a NJDEP approved soil and groundwater remediation plans pursuant to the ECRA regulations.
- Management of a soil and groundwater remedial action program at a National Priorities List (NPL) Superfund site in Kirkwood, Delaware which included performance of treatability studies, a detailed CERCLA feasibility study, and design of a groundwater extraction and treatment and a soils flushing system for remediation of soils and groundwater containing polychlorinated biphenyls, volatile organics, lead, cadmium, and chromium.
- Designed and implemented a site-wide soil and groundwater investigation of a former chemical manufacturing facility that handled elemental phosphorus followed by management of IT's Remediation Services division during design and implementation of a facility decommissioning and demolition plan that involved development of procedures for safely handling sub-grade pipelines, sumps, and pits that contained residual, solid phosphorus that can flash, ignite, and potentially explode upon exposure to air.
- Managed the ECRA investigation and remedial design of a former chemical manufacturing facility in Elizabeth, New Jersey that involved highly elevated concentrations of mercury and other metals in soils.
- Designed and managed a site-wide groundwater investigation on a chemical manufacturing site adjacent to the Ohio River to assess impact of organic and inorganic contamination on the adjacent surface water. Project scope included a detailed evaluation of feasible remedial alternatives followed by a surface water model to evaluate the impact of groundwater discharge and a quantitative risk evaluation for use in cleanup level negotiations with the Pennsylvania Department of Environmental Protection (PADEP).
- Coordination of long-term groundwater monitoring programs in accordance with the New Jersey Pollutant Discharge Elimination System (NJPDES) Permit program and evaluation of contaminant trends using multivariate statistical methods.

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1983 to 1985

S&D Engineering Services, Metuchen, New Jersey
Field Geologist to Project Geologist, Geotechnical Services Division

Principal responsibilities included design and implementation of soil and groundwater investigations pursuant to the New Jersey ECRA regulations. Project responsibilities included client and NJDEP liaison, data base development, implementation of site investigations, sampling, remediation activities and report writing. Also involved in the design and presentation of training courses, seminars and lectures on hazardous waste management, ECRA compliance, and the New Jersey Asbestos regulations. Experience included:

- Coordinated the decommissioning of a large metals fabrication plant and implementation of a groundwater monitoring program to assess the impact of a 20,000-gallon leaking fuel oil tank.
- Development and implementation of a sampling plan for investigation of residual trinitrotoluene (TNT), dinitrotoluene (DNT), and lead azide within abandoned bunkers located adjacent to a former munitions manufacturing facility in Pompton Plains, New Jersey in preparation for the expansion of Route 287. Work included wipe sampling of the bunker interiors and collection of soil samples for laboratory analysis and visual inspection of the property for evidence of blasting caps and/or unexploded ordinances.
- Characterization of abandoned drums and other containerized materials during the dismantling of the Picillo Landfill, a former Superfund site located in Rhode Island, using EPA Level A and B protective equipment. Responsibilities included opening and screening of drummed wastes and performance of waste characterization using HAZCAT kits.
- Conducted a wide range of emergency response activities as part of a response team under the former X-213 Contract with the NJDEP, including securing and characterizing abandoned drums associated with “midnight dumping”, preparation of lab packs, over-packing of dilapidated drums for shipment of hazardous materials, clearing vegetation in preparation for placement of protective tarps associated with dioxin-impacted soil adjacent to roadways in the Iron Bound section of Newark, spill response associated with multiple fuel oil and gasoline discharges, indoor air monitoring, etc.
- Supervision of soil sampling and installation of shallow and deep bedrock monitoring wells in Woburn, Massachusetts as part of a regional investigation of groundwater quality to identify the source(s) of groundwater contamination, including chlorinated volatile organics and arsenic.
- Developed the Site Evaluation Submissions for several industrial facilities that led to negative declarations from the NJDEP pursuant to the ECRA regulations.

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- Developed a comprehensive course for training laborers and building inspectors in asbestos remediation pursuant to New Jersey Department of Labor regulations.

PROFESSIONAL TRAINING

- Engineering Project Management Training, IT Corporation, October 1991.
- RCRA Compliance Strategies, Executive Enterprises, Inc., January 1990.
- 40-Hour Occupational Safety & Health Administration (OSHA) Health and Safety Training for Hazardous Waste Operations, IT Corporation, May 1989 (Repeated from 1983 and updated yearly with an 8-hour refresher).
- Advanced Project Management Training, IT Corporation, August 1988.
- Management Techniques in Ground Water Science, NWWA, April 1987.
- Water Well Hydraulics, University of Wisconsin, April 1986.
- Project Management and Professional Development Training, IT Corporation, April 1986.

PUBLICATIONS AND PRESENTATIONS

Harwood, R.A., Meriney, M., Mertz, E., Dodge, L.J., Lakhwala, F., Srirangam, R., October 2013, “Remediation of Chlorinated Ethenes in Fractured Bedrock: A Site Redevelopment Case Study”, Proceedings of the 29th Annual International Conference on Soils, Sediments, Water, and Energy, Amherst, Massachusetts.

Harwood, R.A., Meriney, M., Mertz, E., Dodge, L.J., Lakhwala, F., Srirangam, R., June 2013, “Remediation of Chlorinated Ethenes in Fractured Bedrock: A Site Redevelopment Case Study”, Proceedings of the Second International Symposium on Bioremediation and Sustainable Environmental Technologies, Jacksonville, Florida.

Harwood, R.A., Dodge, L.J., Koenigsburg, S.K., May 2012, “Examining Remediation Product Performance with a Multivariate Diagnostic Program and Evaluation Strategy”, Proceedings of the Eighth International Conference on Remediation of Chlorinated & Recalcitrant Compounds, Monterey, California.

Dodge, L.J., Harwood, R., Mertz, E., Meriney, M., et al, June 2013, “Remediation of Chlorinated Ethenes in Fractured Bedrock: A Redevelopment Case Study”, Proceedings of the Second International Symposium on Bioremediation and Sustainable Technologies, Jacksonville, Florida.

Dodge, L.J., et al, “Women in Geosciences”, Webinar Speaker, National Groundwater Association, October 18, 2012.

Dodge, L.J., et al, “Private Sector Role in Site Cleanup: The Regulatory Perspective”, Webinar Speaker, National Groundwater Association, April 19, 2012.

LAWRA J. DODGE, PG, LSRP
PRESIDENT

Dodge, L.J., Mertz, E., Harwood, R., May 2010, “In-Situ Aerobic Co-Metabolism Followed by Reductive Dechlorination of Trichloroethene to Enable Brownfield Redevelopment”, Proceedings of the Seventh International Conference on Remediation of Chlorinated & Recalcitrant Compounds, Monterey, California.

Dodge, L.J., June 2009, “Environmental Provisions of the American Recovery and Reinvestment Act”, Presented at the Environmental Law Division of the NJ Bar Association Annual Summer Conference, Avalon, New Jersey.

Dodge, L.J., April 2008, “Update on the Status of Emerging NJ Environmental Regulations”, Presented at the New Jersey Builders Conference, Atlantic City, New Jersey.

Dodge, L.J., May 2006, “Finding and Enhancing Brownfield Redevelopment Opportunities”, Publication in the NJPA Real Estate Journal, covering the states of New Jersey and Pennsylvania.

Dodge, L.J., May 2006, “Finding and Enhancing Brownfield Redevelopment Opportunities”, Publication in the NJPA Real Estate Journal, covering the states of New Jersey and Pennsylvania.

Dodge, L.J., March 2005, “Maximizing Value in Brownfield Redevelopment”, Publication in the NJPA Real Estate Journal, covering the states of New Jersey and Pennsylvania.

Dodge, L.J., October 2002, “Overview of The Private Well Testing Act and Other Municipal Environmental Issues”, Presented at the Bergen County Health Officers Quarterly Meeting, Saddle Brook, NJ.

Dodge, L.J., April 2002, “Case History of a Brownfield Success Story: The Kearny Police Substation Remediation and Redevelopment Project”, Presented at the New Jersey League of Municipalities Brownfield Seminar, PNC Arts Center, Holmdel, NJ.

Dodge, L.J., June 2000, “The Role of the Environmental Consultant in Municipal Brownfield Redevelopment”, Presented at the Downtown New Jersey Conference, Morristown, NJ.

Dodge, L.J., May 1999, “Environmental Issues and Strategies for Brownfield Redevelopment”, Presented at the Legal and Environmental Issues Seminar, Columbia University, New York, NY.

Dodge, L.J., January 17, 1997, “Environmental Issues in the Scrap Metal Processing and Recycling Industry”, Presented at the Institute of Scrap Recycling Industries/Scarinci & Hollenbeck Seminar Series No.1, Secaucus, NJ.

Dodge, L.J., November 1996, “UST Upgrade Requirements: Don’t Wait Until 1998!”, Presented at the 36th Annual Conference of the New Jersey Emergency Management Association, Atlantic City, NJ.

LAWRA J. DODGE, PG, LSRP
PRESIDENT

Dodge, L. J., May 1995, "A Case Study of an Environmental Assessment Combining Historical Practices and Subsurface Utility Engineering", Presented at the Legal and Environmental Issues Seminar No. 495B, Columbia University, New York, NY.

Dodge, L. J. and J. H. Anspach, April 1995, "A Case Study of an Environmental Assessment Combining Historical Practices and Subsurface Utility Engineering", Proceedings of the American Power Conference, Illinois Institute of Technology, Chicago, Illinois.

Dodge, L.J., November 1995, "Environmental Issues in Emergency Management", Presented at the 35th Annual Conference of the New Jersey Emergency Management Association, Atlantic City, NJ.

Dodge, L.J., May 1994, "Overview of Key Environmental Regulations Governing Real Estate Transactions in New Jersey, the Industrial Site Recovery Act", Presented at the Princeton Corridor Rotary Meeting, Princeton, New Jersey.

Dodge, L.J. and K.J. Hollenbeck, April 1994, "Seminar on the Industrial Site Recovery Act in New Jersey", Presented at the Hudson County Chamber of Commerce, Secaucus, New Jersey.

Dodge, L. J. and R. D. Arnold, June 1984, "Immediate Removal at the Harvey-Knott Drum Superfund Site, Kirkwood, Delaware", Proceedings of the HAZMAT Southwest Conference, Houston, Texas.

RONALD A. HARWOOD, LSRP
PROJECT DIRECTOR & EXECUTIVE VICE PRESIDENT

EDUCATION

M.S., Geology, 1993; University of Rhode Island
B.S., Geology, 1990; University of Rhode Island

PROFESSIONAL AFFILIATIONS

Licensed Site Remediation Professional, State of New Jersey, License No. 575016

SUMMARY OF EXPERIENCE

Mr. Harwood is a Senior Geologist, Project Director and Executive Vice President with over 26 years of experience in environmental consulting working with private and public sector clients. Mr. Harwood's experience includes planning and implementing environmental investigations, including Preliminary Assessments (PAs), Site Investigations (SIs), UST closures, and Remedial Investigations (RIs), and remediation projects at a variety of sites involving the redevelopment of contaminated properties for residential, commercial, and industrial future uses. His responsibilities include the management of technical staff and project management and development of the technical and regulatory approaches for characterization of soil and groundwater quality at properties in New Jersey, New York, and Pennsylvania.

Mr. Harwood is highly skilled in the development of effective and cost-efficient technical and cost proposals and investigation work plans. He reviews and interprets environmental data, coordinates with clients and regulatory agencies, manages subcontractors, supervises the implementation of environmental investigations, and produces final reports. He also provides technical consultation to re-direct the environmental compliance process on stalled projects, formulates cost-effective approaches to solving complex environmental problems associated with the integration of remedial action into redevelopment plans for a wide variety of end uses, and provides trial testimony for resolution of environmental issues and preparation of expert reports.

Mr. Harwood offers effective management and technical consulting through his hands-on experience in a wide variety of field investigation and remediation activities, including installation of monitoring wells (overburden and bedrock) and test borings, collection of soil and water samples (including direct push and low-flow purging/sampling techniques), closure of underground storage tanks, field screening surveys (soil vapor assessments), hot-spot soil excavation, construction of Engineering Controls, and a wide range of groundwater remediation techniques.

RONALD A. HARWOOD, LSRP
PROJECT DIRECTOR & EXECUTIVE VICE PRESIDENT

REPRESENTATIVE EXPERIENCE

1998 to Present

Excel Environmental Resources, Inc., North Brunswick, New Jersey
Project Director/Executive Vice President

Mr. Harwood is responsible for providing overall technical and strategic support for ongoing environmental compliance and remediation projects, including management of field investigations as well as the reduction and interpretation of geologic, hydrogeologic, and environmental data. His responsibilities also include management of project staff and proposal development, client and agency interaction, and preparation of final reports. Mr. Harwood provides consultation to clients in order to resolve complex environmental issues associated with property transactions and development of contaminated properties. Key experience includes:

- Technical, regulatory, and strategic consultation to the Borough of Ringwood regarding ongoing environmental investigation and remedial action activities at the Ringwood Mines Superfund site. Reviewed and evaluated all historic environmental data and documents prepared by the consultant working for the principal responsible party to determine the environmental compliance status and direction of the project. Development of technical and strategic recommendations for redirection of the ongoing investigation and remedial action, negotiation with the principal responsible party, attorneys, and the community action group at the Site. Participation in settlement negotiations between the Borough of Ringwood and the responsible party that included the preparation of remedial action cost estimates, evaluation of remedial action alternatives, and development of settlement strategies.
- Completed a site-wide PA, SI, and RI for a 38-acre commercial property in Paterson, New Jersey by incorporating data historically generated by others to streamline the completion of the investigation activities and enable the preparation of a comprehensive PA/SI/RI Report and Remedial Action Work Plan (RAWP) to position the property for redevelopment within the client's aggressive time-line. Remediation incorporates excavation of oil-impacted soil to address the occurrence of free-phase product on the groundwater with the establishment of Institutional Controls in the form of a Deed Notice with Engineering Controls that will consist of various caps as part of the final redevelopment of the property.
- Preparation of an Expert Report in support of a residential property owner in which groundwater beneath the client's property had been impacted by the discharge of gasoline from a neighboring property. Included a detailed review of all historic environmental documents and environmental data that focused on the status and adequacy of the work conducted on the neighboring property, the compliance status of the remediation, and the impact of the discharges to the client's property. As a result of Excel's preparation of the Expert Report, the client successfully reached a settlement with the responsible party by clearly concluding that the offsite discharge had impacted groundwater quality beneath

RONALD A. HARWOOD, LSRP
PROJECT DIRECTOR & EXECUTIVE VICE PRESIDENT

the client's property that resulted in potential impacts to human health due to indoor air quality, decreased the value of the property, and increased the cost for future redevelopment.

- Trial testimony in support of a contract purchaser of commercial property in Pennsylvania. As a result of Excel's Preliminary Assessment and Site Investigation findings on behalf of the client, Mr. Harwood provided testimony regarding the environmental condition and compliance status of the subject property as well as the work conducted by Excel that clearly supported our client's position that the owner of the property was not negotiating in good faith. The work conducted by Excel and the testimony provided by Mr. Harwood successfully resulted in a ruling on our client's behalf.
- Preparation of an Expert Report in support of the owner of a retail gasoline station that had purchased the property based on a deficient Preliminary Assessment conducted by others. The Expert Report prepared by Mr. Harwood successfully demonstrated that the Preliminary Assessment Report that the client had relied upon to purchase the property failed to identify several underground storage tanks on the subject property that resulted in a discharge of gasoline to soil and groundwater.
- Management and technical consulting for a site-wide PA and SI in support of property redevelopment of a Brownfields site in northern New Jersey. Project funds were obtained through the NJDEP Hazardous Discharge and Site Remediation Fund (HDSRF). The project included performance of a PA and subsequent SI to characterize soil and groundwater conditions at the site. The SI was implemented in a phased approach which enabled the collection of sufficient data to complete characterization of all identified AOCs and complete characterization and delineation of contaminated Historic Fill during the SI phase. Remedial action in the form of a Deed Notice and Engineering Controls for the contaminated Historic Fill has been accepted by the NJDEP and will be incorporated into the redevelopment plans as part of the Engineering Controls.
- Management and technical consulting for the development of the technical work scope for the remediation of the 600-acre Military Ocean Terminal (MOTBY) in Bayonne, New Jersey. Responsible for the successful consolidation, review, and interpretation of all historic environmental data to enable the formulation of the technical approach for transitioning the project from the RI phase to a NJDEP-approved RAWP. Integrated the completion of final soil and groundwater quality delineation as part of the overall remediation to enable the completion of remediation within the aggressive time frames established by the client resulting in issuance of an Entire Site No Further Action (NFA) and Covenant Not-to-Sue (CNS) by the NJDEP.
- Project Manager/Project Director providing overall management for several Brownfields properties throughout New Jersey. The properties are at various stages of the investigation and remediation process utilizing funding obtained from the NJDEP

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HDSRF and the New Jersey Redevelopment Authority's (NJRA) Brownfields Redevelopment Initiative in support of the municipality's overall redevelopment plans.

- Management of the RI and Remedial Action (RA) of several gasoline USTs at a service station in central New Jersey. Obtained funding for the client from the NJDEP HDSRF to offset costs for the environmental investigation and remediation. Established that the groundwater quality at the subject property was adversely impacted by off-site and upgradient discharges of gasoline and successfully negotiated with the NJDEP for the expedited receipt of a NFA approval so that the pending property transaction could proceed.
- Managed and implemented groundwater and soil sampling for a RI to determine the type and extent of contamination at a Brownfield redevelopment site in central New Jersey. Activities included supervision of contractors during drilling, building and foundation demolition, waste disposal, and production well abandonment, health and safety monitoring of contractors during field activities, and coordination of sample management. Negotiated with the NJDEP for the receipt of a site-wide NFA approval to enable plans for redevelopment to proceed.
- Preparation of a RI/RA Report for an adhesives and paint manufacturer located in Bergen County, New Jersey. The site was found to have soil and groundwater contamination which included a variety of volatile organic compounds (VOCs) and lead exceeding current soil cleanup criteria and groundwater quality standards. Research and evaluation of treatment options for this project included the use of Oxygen Release Compound (ORC) technology to stimulate in-situ biodegradation at the core of the contaminant plume. Coupled with minimal source removal and subsurface oxygenation, requirements for a Classification Exception Area (CEA) will be met and a formal CEA proposal will be included in the remedial action report.
- Conducted several PAs and SIs for a redeveloper in central New Jersey as part of property transactions and the redevelopment of former industrial properties.

1994 to 1998

EA Engineering, Science, and Technology, Inc., Berkeley Heights, New Jersey
Project Geologist

Mr. Harwood was responsible for planning and implementing environmental investigations at chemical/industrial sites, landfills, and Department of Defense (DOD) facilities.

Responsibilities included developing project plans, managing subcontractors, supervising and implementing investigations (installation of monitoring wells and soil borings, and collection of soil and water samples), evaluating and interpreting resulting data, and producing final reports. Mr. Harwood's responsibilities also included development of project schedules, assisting in proposal development, and coordination with clients. Representative experience includes:

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- Project Geologist and Task Manager for a RI/Focused Feasibility Study at Naval Air Warfare Center (NAWC) in Ewing, New Jersey to address groundwater impacted by chlorinated VOCs in a fractured bedrock aquifer. Activities included an intensive groundwater monitoring program during start-up of an interim action pump and treat system, additional periodic groundwater monitoring of up to 80 site monitoring wells, supervising the installation of bedrock monitoring wells (including rock coring, packer sampling, and computerized water-level recording), and preparation of monitoring reports and a Focused Feasibility Study Report in which remedial alternatives included groundwater pump and treat and natural remediation.
- Project Geologist and Assistant Project Manager for an Environmental Baseline Survey and SI at NAWC in Ewing, New Jersey. Responsible for managing the investigation at 35 Areas of Concern (AOCs). Implemented and coordinated a field program consisting of active and passive soil vapor surveys, direct push soil/groundwater sampling, monitoring well installation and sampling, field screening for polychlorinated biphenyls (PCBs), and mercury vapor screening. Also responsible for preparing project plans, evaluating data, and preparing final investigation reports.
- Project Geologist for a Sediment-Based RI along a 6-mile river study area in northern New Jersey. Implemented and supervised the collection of samples from over 80 sets of sediment cores for chemical, radiochemical, and geotechnical analyses. Responsible for opening cores, describing lithology, and subsampling for analyses under Level C conditions. Assisted in the collection of hydraulic velocity data and suspended sediment samples.
- Project Geologist for a pre-design investigation at an inactive sanitary landfill in eastern Pennsylvania. Responsible for supervising the installation of bedrock monitoring wells in fractured limestone and piezometers through landfill waste material (to evaluate the depth of known waste areas) and implementing an electromagnetic survey to evaluate the lateral extent of buried waste.
- Project Geologist for a SI and RI of several areas of concern at an Air Force Base in New Jersey. Supervised the installation of test borings, groundwater sampling points, and overburden monitoring wells. Responsible for preparing portions of the SI Report.
- Conducted environmental surveys at naval facilities in New Jersey, Rhode Island, and Pennsylvania. Inspected structures and land areas for evidence of potential environmental concern, interviewed Navy and civilian personnel, performed record searches, and generated final reports.
- Geologist responsible for supervising the installation of soil borings and collecting soil samples for laboratory analyses during a remedial investigation of a building used to store lead-acid batteries. Also responsible for preparing portions of the RI Report.

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- Geologist during the evaluation of a groundwater monitoring system at an industrial site in Axis, Alabama. Generated a revised groundwater monitoring plan to satisfy client goals and regulatory requirements. Collected groundwater samples from several monitoring wells and gauged up to 80 monitoring wells during semi-annual groundwater monitoring program.
- Geologist during several step and constant-rate aquifer tests to characterize the hydrogeology and to evaluate the hydrogeologic framework of a bedrock aquifer at a DOD facility in central New Jersey.
- Geologist conducting groundwater sampling at a manufactured gas plant site in Baltimore, Maryland, in which constituents of concern included coal tar, ash slag, and purified box wastes.
- Geologist during the remediation of soil at a transformer site in Brooklyn, New York. Activities included field screening soil and wipe samples for PCBs onsite using portable immunoassay test kits, and collection of soil and wipe samples for fixed-laboratory analysis for PCBs.

PROFESSIONAL TRAINING

- 40-Hour Occupational Safety & Health Administration (OSHA) Hazardous Waste Site Worker Training (updated yearly with an 8-hour refresher)
- National Safety Council CPR
- National Safety Council First Aid

PUBLICATIONS AND PRESENTATIONS

Harwood, R.A., Meriney, M., Mertz, E., Dodge, L.J., Lakhwala, F., Srirangam, R., October 2013, “Remediation of Chlorinated Ethenes in Fractured Bedrock: A Site Redevelopment Case Study”, Proceedings of the 29th Annual International Conference on Soils, Sediments, Water, and Energy, Amherst, Massachusetts.

Harwood, R.A., Meriney, M., Mertz, E., Dodge, L.J., Lakhwala, F., Srirangam, R., June 2013, “Remediation of Chlorinated Ethenes in Fractured Bedrock: A Site Redevelopment Case Study”, Proceedings of the Second International Symposium on Bioremediation and Sustainable Environmental Technologies, Jacksonville, Florida.

Harwood, R.A., Dodge, L.J., Koenigsburg, S.K., May 2012, “Examining Remediation Product Performance with a Multivariate Diagnostic Program and Evaluation Strategy”, Proceedings of the Eighth International Conference on Remediation of Chlorinated & Recalcitrant Compounds, Monterey, California.

Dodge, L.J., Mertz, E., Harwood, R.A., May 2010, “In-Situ Aerobic Co-Metabolism Followed by Reductive Dechlorination of Trichloroethene to Enable Brownfield Redevelopment”,

RONALD A. HARWOOD, LSRP
PROJECT DIRECTOR & EXECUTIVE VICE PRESIDENT

Proceedings of the Seventh International Conference on Remediation of Chlorinated & Recalcitrant Compounds, Monterey, California.

ERIC J. MERTZ, LSRP
VICE PRESIDENT/ REMEDIATION SERVICES

EDUCATION

B.S., Environmental Science, 1995; Richard Stockton College, Pomona, New Jersey

PROFESSIONAL AFFILIATIONS

Licensed Site Remediation Professional, State of New Jersey, License No. 575025
New Jersey Department of Environmental Protection (NJDEP) Underground Storage Tank
(UST) Certification - Subsurface Evaluator

SUMMARY OF EXPERIENCE

Mr. Mertz has more than 24 years of experience as a scientist and consultant with a wide range of environmental and remediation projects experience, including Phase I/Preliminary Assessment (PA), Site Investigation (SI), Remedial Investigation (RI), Remedial Action (RA) design, and construction supervision and management of large-scale, complex soil and groundwater remedial action projects. He is also skilled in project and forensic cost research for litigation support, analytical data validation and reduction, report and proposal preparation, preparation of Remedial Action Work Plans (RAWPs) and bid specifications, subcontractor solicitation and bid evaluation, and cost estimation for investigation and remediation projects. Field experience includes supervision of soil excavation and offloading, installation of onsite groundwater treatment and reinjection systems, performance of site inspections and investigations, collection of soil and groundwater samples, supervision of tank closures, test pit excavation, soil borings, well installation, and waste characterization.

REPRESENTATIVE EXPERIENCE

1995 to Present

Excel Environmental Resources, Inc., North Brunswick, New Jersey
Vice President/Remediation Services

Mr. Mertz is responsible for a variety of field and technical activities, including project and construction management, RA design and implementation, groundwater treatment system design and installation, subcontractor oversight, and health and safety supervision. Key experience includes:

- Support and consultation to the Borough of Ringwood regarding ongoing Settlement Agreement negotiations with respect to proposed remedial action activities at the Ringwood Mines Superfund site. Mr. Mertz has prepared detailed closure estimates for several separate Areas of Concern to support and aide the Borough during Settlement negotiations.
- Construction and Project Manager for implementation of a 13 million dollar soil and groundwater remediation project in North Bergen, New Jersey. This multi-year Brownfield Redevelopment project includes:

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VICE PRESIDENT/ REMEDIATION SERVICES

- ✓ Effective initial remediation cost estimation as a cornerstone of the State-approved Brownfields Redevelopment Agreement;
- ✓ Excavation and disposal of over 20,000 tons of Hazardous soil and restoration of all excavated areas;
- ✓ Excavation and onsite Beneficial Reuse of over 9,000 tons of mildly-impacted soil; and
- ✓ Recovery and treatment of over 3 million gallons of impacted groundwater;
- ✓ Oversight of the construction of Engineering Controls in the form of asphalt and soil caps across entire 30-acre site.

Mr. Mertz managed the daily operations of all onsite remediation personnel, including Excel's onsite professionals, and multiple contractors. He was also responsible for coordination with the client and site contractors in order to make way for a 78 million dollar commercial retail redevelopment, management of the bidding process for selection of remediation contractors, RA reporting, and management of the work scope, schedule, and budget.

- Construction and Project Manager for implementation of a 6 million dollar soil and groundwater remediation project in Garfield, New Jersey. This Brownfield Redevelopment project includes:
 - ✓ Effective initial remediation cost estimation as a cornerstone of the State-approved Brownfields Redevelopment Agreement;
 - ✓ Excavation and disposal of over 3,500 tons of soil impacted with Trichloroethylene (TCE) from several Areas of Concern and restoration of all excavated areas;
 - ✓ Recovery, treatment and re-injection to the ground of over 33,000 gallons of TCE-impacted groundwater;
 - ✓ Injection of an engineered bioremediation product to complete the remediation of dissolved-phase TCE remaining in the shallow groundwater;
 - ✓ Oversight of the construction of Engineering Controls in the form of asphalt and soil caps across most of the site.

Mr. Mertz managed the daily operations of all onsite remediation personnel, including Excel's onsite professionals, and multiple contractors. He was also responsible for coordination with the client and site contractors in order to make way for a large commercial retail redevelopment, management of the bidding process for selection of remediation contractors, RA reporting, and management of the work scope, schedule, and budget.

- Construction and Project Manager for implementation of the 11 million dollar Military Ocean Terminal Bayonne (MOTBY) site in Bayonne, New Jersey. This four-year remediation project includes:

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VICE PRESIDENT/ REMEDIATION SERVICES

- ✓ Excavation of Polychlorinated Biphenyls (PCB) impacted soil “hot spots” and restoration of all excavated areas;
- ✓ Construction of Engineering Controls in the form of asphalt and soil caps at multiple locations across the 652-acre peninsula; and
- ✓ Closure of a 26-acre Solid Waste landfill in accordance with a Landfill Closure Plan also prepared by Excel. The landfill closure included construction of a permeable soil cap.

Mr. Mertz managed the daily operations of all onsite personnel, including Excel’s onsite professionals, and multiple contractors. He is also responsible for coordination with the Bayonne Local Redevelopment Authority (BLRA), management of the competitive public bidding process for selection of remediation contractors, RA reporting, and management of the work scope, schedule, and budget.

- Construction and Project Manager for implementation of a 14 million dollar site in Bayonne, New Jersey. This four-year remediation project includes:
 - ✓ Excavation of Polychlorinated Biphenyls (PCB) impacted soil “hot spots” and restoration of all excavated areas;
 - ✓ Construction of Engineering Controls in the form of asphalt and soil caps at multiple locations across the 652-acre peninsula; and
 - ✓ Closure of a 26-acre Solid Waste landfill in accordance with a Landfill Closure Plan also prepared by Excel. The landfill closure included construction of a permeable soil cap.

Mr. Mertz managed the daily operations of all onsite personnel, including Excel’s onsite professionals, and multiple contractors. He is also responsible for coordination with the Bayonne Local Redevelopment Authority (BLRA), management of the competitive public bidding process for selection of remediation contractors, RA reporting, and management of the work scope, schedule, and budget.

- Construction Manager for an approximately two million dollar site-wide RA conducted by Excel at the Former Standard Tank Cleaning site on behalf of the City of Bayonne. Excel obtained funding for performance of the remediation from the New Jersey Redevelopment Authority’s (NJRA’s) Brownfields Redevelopment Initiative. The RA included:
 - ✓ Decontamination and demolition of several large-capacity above ground storage units (ASTs), settling tanks, boilers, separation tanks, and a vacuum filtration unit, ranging in capacity from 75,000 to 6.5 million gallons;
 - ✓ Decontamination and removal of all associated piping and concrete pads and footings;
 - ✓ Removal of three 10,000-gallon USTs as well as all associated piping;
 - ✓ Excavation of approximately 10,000 cubic yards of highly contaminated soil;

ERIC J. MERTZ, LSRP
VICE PRESIDENT/ REMEDIATION SERVICES

- ✓ Open-excavation recovery of free phase product and contaminated groundwater; and
- ✓ Onsite treatment and reinjection of treated groundwater.

Mr. Mertz managed the daily operations of all onsite personnel, including Excel's onsite professionals, and multiple contractors. He was also responsible for coordination with the City of Bayonne, management of the competitive public bidding process for selection of remediation contractors, RA reporting, and management of the work scope, schedule, and budget.

- Construction Manager for a 1.5 million dollar soil and groundwater investigation/remediation resulting from a surface and subsurface release of hydraulic fluid in a tidally-influenced area. The work scope included:
 - ✓ Excavation of more than 8,500 cubic yards of highly impacted soil;
 - ✓ Open-excavation recovery of free phase hydraulic oil and contaminated groundwater;
 - ✓ Installation and maintenance of a product recovery system; and
 - ✓ Installation and maintenance of an onsite 100-gallon per minute groundwater recovery, treatment, and reinjection system.

Mr. Mertz also prepared the New Jersey Pollutant Discharge Elimination System (NJPDES) Discharge to Surface Water, NJPDES Discharge to Groundwater, and Waterfront Development Permit applications for installation and operation of the remediation systems. He managed the daily operations of all onsite personnel, including Excel's onsite professionals, and multiple contractors. Mr. Mertz was also responsible for coordination with the client to minimize interference with the client's ongoing site operations, RA reporting, and management of the work scope, schedule, and budget.

- Design, installation, operation, and performance monitoring of several groundwater recovery and treatment systems installed in response to subsurface releases of No. 2 fuel oil from USTs. Responsibilities included engineering, design, and installation of groundwater injection trench, groundwater recovery and treatment system, monthly performance monitoring, quarterly groundwater sampling, subcontractor coordination and oversight, groundwater data interpretation and reduction, and preparation of quarterly reports.
- Performed an in-depth statistical evaluation of existing analytical and geochemical data, including the Mann-Whitney U-Test and Pearson Product Moment Correlation, as part of a focused investigation of the relationship between metals in soil and groundwater at a highly contaminated former pharmaceutical manufacturing facility in Northern New Jersey. The work scope included design and implementation of a field testing program for evaluation of metals speciation followed by reduction and interpretation of the laboratory analytical results.

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VICE PRESIDENT/ REMEDIATION SERVICES

- Detailed investigation into historic oil consumption reports and emergency environmental response records in support of expert testimony provided for litigation related to the circumstances leading to several potential UST overflow events and their potential impact to the subsurface. Design and implementation of a subsurface investigation including age dating of soil samples to correlate to potential historic overflow events. Operation, maintenance, and performance monitoring of a free product and groundwater recovery and treatment system in response to a surface and subsurface release of No's. 4 and 6 fuel oil from an UST. Groundwater and effluent sampling, sampling of product and waste for classification and disposal, contractor oversight during all field activities, and implementation of soil erosion control measures.
- Conducted in-depth investigation into potential sources of groundwater contamination. The work scope included cross-referencing NJDEP records with aerial photographs, local Health Department and Fire Marshal records, and historic fire insurance maps to reach the objective of project closure while avoiding a groundwater quality investigation.

PROFESSIONAL TRAINING

- Occupational Safety and Health Administration (OSHA) 40-Hour Hazardous Waste Site Worker Training Course (updated yearly with an 8-hour refresher)
- OSHA 8-Hour Hazardous Waste Site Supervisor Training
- Industrial Wastewater Treatment Operator Course for N-2 Operator License
- Development Permits Review, Cook College/Rutgers University

PUBLICATIONS AND PRESENTATIONS

Harwood, R.A., Meriney, M., Mertz, E., Dodge, L.J., Lakhwala, F., Srirangam, R., October 2013, "Remediation of Chlorinated Ethenes in Fractured Bedrock: A Site Redevelopment Case Study", Proceedings of the 29th Annual International Conference on Soils, Sediments, Water, and Energy, Amherst, Massachusetts.

Harwood, R.A., Meriney, M., Mertz, E., Dodge, L.J., Lakhwala, F., Srirangam, R., June 2013, "Remediation of Chlorinated Ethenes in Fractured Bedrock: A Site Redevelopment Case Study", Proceedings of the Second International Symposium on Bioremediation and Sustainable Environmental Technologies, Jacksonville, Florida.

Dodge, L.J., Mertz, E., Harwood, R.A., May 2010, "In-Situ Aerobic Co-Metabolism Followed by Reductive Dechlorination of Trichloroethene to Enable Brownfield Redevelopment", Proceedings of the Seventh International Conference on Remediation of Chlorinated & Recalcitrant Compounds, Monterey, California.

MICHAEL J. MERINEY, PG, LSRP
VICE PRESIDENT/INVESTIGATION SERVICES

EDUCATION

M.S., 1989, Geology; Wright State University
B.S. 1986, Geology; St. Lawrence University

PROFESSIONAL AFFILIATIONS

Licensed Site Remediation Professional, State of New Jersey, License No. 575023
Professional Geologist, Tennessee, 00005594
New Jersey Department of Environmental Protection (NJDEP) Underground Storage Tank (UST) Certification - Subsurface Evaluator, 0022883

SUMMARY OF EXPERIENCE

Mr. Meriney is a Vice President in charge of Excel's Investigation Services and a Senior Geologist with more than 30 years experience in the environmental consulting industry. He has extensive experience in the design and implementation of transaction-related Phase I and II Environmental Site Assessments (ESAs), Preliminary Assessments (PAs), Site Investigations (SIs), and Remedial Investigations (RIs) for both private and public sector clients. His experience has included implementation of multiple property investigations for an international convenience store client and site investigation and remediation for various manufacturing, telecommunication, and utility clients throughout New Jersey and Pennsylvania. He has extensive experience with implementation of environmental compliance projects with regard to New Jersey's Technical Requirements for Site Remediation, the Industrial Site Remediation Act (ISRA), Hazardous Discharge Site Remediation Fund (HDSRF) and Voluntary Cleanup (MOA) Programs in New Jersey and Pennsylvania, including the Pennsylvania Act 2 Land Recycling Program.

REPRESENTATIVE EXPERIENCE

2002 to Present

Excel Environmental Resources, Inc., North Brunswick, New Jersey
Vice President/Investigation Services

Mr. Meriney is responsible for the management and growth of Excel's HDSRF Grant Program for performance of PA, SI, and RI projects for municipal clients, including daily management of existing projects and fine-tuning and implementation of the HDSRF Program growth and development. Mr. Meriney also conducts large, complex site investigation and remediation projects, including investigations in support of Brownfields remediation and redevelopment and UST closure projects.

MICHAEL J. MERINEY, PG, LSRP
VICE PRESIDENT/INVESTIGATION SERVICES

1997 to 2002

ENSR International, Langhorne, Pennsylvania

Before joining Excel, Mr. Meriney spent the previous 5 years of this career at ENSR serving in several roles, including Project Manager and Senior Project Manager as part of their Mid-Atlantic Operations.

Project Manager/Senior Project Manager (1997 to 2002)

Responsible for the execution of a variety of projects including Phase I and II Property Transfer Assessments, UST Closures, SIs, RIs, Remedial Actions (RAs) under NJDEP's ISRA and Bureau of Underground Storage Tanks (BUST) programs and the Pennsylvania Department of Environmental Protection (PADEP's) Act 2 and Storage Tank Program. Responsibilities included proposal preparation, supervision and scheduling of project personnel, technical review of all project related documents, developing work plans, safety plans, and sampling plans, subcontractor selection and management, maintaining project budgets, preparation of reports and client relations. Project budgets ranged from \$1,500 to over \$1 million.

1995 to 1997

Fugro East, Inc.

Before ENSR acquired Fugro East, Inc., Mr. Meriney worked with Fugro serving as a Project Manager as part of their Mid-Atlantic Operations.

Project Manager/Senior Project Manager (1995 to 1997)

Responsible for the execution of a variety of projects including Phase II ESAs, UST Closures, SIs, RIs, and RAs under NJDEP's BUST and MOA Voluntary Cleanup programs. Responsibilities included proposal preparation, supervision and scheduling of project personnel, technical review of all project related documents, developing work plans and sampling plans, subcontractor selection and management, maintaining project budgets, preparation of reports and client relations. Project budgets ranged from \$1,500 to over \$1 million.

1989 to 1995

IEP, Inc.

Before Fugro, Inc. acquired IEP, Inc., Mr. Meriney worked with IEP serving as a Field Technician, Project Coordinator and Project Manager as part of their New England (Massachusetts, Connecticut, New Hampshire, Maine, Vermont and Rhode Island) and Mid-Atlantic Operations (New Jersey, New York, Pennsylvania and Delaware).

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Field Technician/Project Coordinator/Project Manager (1989 to 1995)

Responsible for conducting a broad range of work including PA/Large Property Portfolios and SI activities, soil and groundwater investigations (RI), and RA activities. Field experience includes the management of soil boring programs, development and management of soil and groundwater remedial action solutions, potential receptor surveys, collection of soil and groundwater samples, supervision of monitoring well installation, UST closure, monitoring well elevation surveys, impacted soil excavation and management and test pit excavations. Project budgets ranged from \$1,500 to \$50,000.

REPRESENTATIVE EXPERIENCE

- **Hazardous Discharge Site Remediation Fund** – Project Manager preparing HDSRF applications, including scopes of work/cost estimates, on behalf of eligible New Jersey municipalities to conduct PAs, SIs and RIs. Obtained funding from the New Jersey's Economic Development Agency (EDA) and managed and performed site activities under HDSRF in order to assist municipalities with their redevelopment activities.
- **Brownfield Development Area Applications** – Assisted with the preparation of Brownfield Development Area (BDA) applications for the City of Salem and Borough of Carteret. The applications required close coordination with municipal personnel, community members and county officials, the compilation of municipal and census data, review of redevelopment plans in relation to the State Plan, recognition of properties as Brownfields within the proposed BDA and submittal of the applications to the Office of Brownfield Reuse.
- **Preliminary Assessments and Site Investigations in New Jersey** – Project Manager responsible for conducting numerous PAs and SIs for large and medium size residential and commercial developers. Investigations included compliance with the All Appropriate Inquires Rule, radon testing, rare and endangered species surveys, cultural resource investigations, wetland flagging and focused soil quality investigations related to NJDEP's Historic Pesticide Contamination Task Force guidance.
- **UST Closure, Dewatering, Installation, Runnemed, New Jersey** - Project Manager for the reparation and expedited UST Closure Plan Application for the UST removals. The presence of shallow groundwater required installation and operation of a dewatering system during UST replacement. The dewatering system consisted of a well point system that extracted impacted groundwater to a 21,000-gallon frac tank. Impacted water was disposed and treated at Dupont's wastewater facility. All soil present in the shored excavation was impacted and subsequently transported and disposed at a nearby recycling facility for incineration. RI and RA at the facility is ongoing.
- **Remedial Investigations and Remedial Actions, Ewing, Mahwah, Caldwell, Edison and Greenbrook, New Jersey** - Project Manager for execution of NJDEP's Technical Requirements for Site Remediation at all former gasoline service station/convenience stores that experienced a release from the gasoline UST system to soil and groundwater.

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Installed and/or operated a variety of groundwater and soil treatment systems. Remedial technologies included groundwater pump and treat and soil vapor extraction using submersible pumps, liquid ring pumps and pneumatic pumps to low and high profile air strippers and/or granular activated carbon units. Soil was treated using soil vapor extraction from laterally and vertically designed layouts to granular activated carbon units. Methyl Tertiary Butyl Ether (MTBE) rich vapor effluents were treated with catalytic oxidizer equipment (Falco units) prior to final discharge to comply with NJDEP permit limitations. As of the first quarter 2002, the last of the treatment systems were taken offline per NJDEP approval and several are undergoing long term monitoring programs.

- **Remedial Investigation, UST Closure, Remedial Action, Rio Grande, New Jersey** - Project Manager executing the removal of four 10,000-gallon fiberglass USTs from this property. High water table conditions required additional consideration to control the UST as overburden was removed. A RI was performed based on a release from the UST system. Based on the concentrations in groundwater and delineation of the plume on and off site, a natural attenuation remedy is proposed. However, potable wells in the vicinity require sampling and the hydrogeology was documented to convince NJDEP and the health department that no receptors would be impacted. A Classification Exception Area (CEA) was prepared designating a time and distance that the remaining compounds will be present at concentrations of the New Jersey Groundwater Quality Standards. The NJDEP has granted a conditional No Further Action (NFA) with the CEA.
- **Various Phase I and II ESAs in Massachusetts and New Jersey** - Project Manager responsible for conducting a number of Phase I and Phase II Environmental Assessments to determine the presence of on and off-site threats or evidence of a release of oil and/or hazardous materials. These due diligence projects were conducted and utilized in conjunction with real estate purchase and sale activities. Additionally, emergency UST, dry well and septic tank removals and soil transport and disposal were conducted on several sites under construction in order to maintain client schedules and deadlines for store openings.
- **Remedial Action, 9th & Fort Duquesne Blvd., Pittsburgh** - Project Manager responsible for RA at this former gasoline service station/convenience store that experienced a release from the gasoline UST system to soil and groundwater. The site was acquired subsequent to design and completion of the system. During treatment of soil and water at the site, seven USTs were removed and a considerable volume of soil (>2,000 tons) was transported and disposed. A management consideration for this project, which was located in downtown Pittsburgh, was a focus on vapor control and health and safety. The intent on this project during the UST closures was to remove as much impacted soil as possible to eliminate what is believed to be a continued source of hydrocarbons to groundwater. The treatment system has continued to operate and dissolved concentrations across the site appear to be reducing consistently. Quarterly well sampling/reporting, treatment system sampling and discharge monitoring reporting are ongoing.

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- **UST Closure and Remedial Action, Penn & Negley, Pittsburgh, Pennsylvania** - Project Manager responsible for managing activities at this former gasoline service station. Five USTs were removed from the property and two newly discovered steel USTs were found during excavation activities. Petroleum impacts were discovered from this tank system and the UST and soil excavation was accomplished since this was the best course of action considering the status of the property from a real estate prospective. Groundwater impacts were discovered and a strategy will be prepared for conducting a Site Characterization to address the plume delineation and cleanup standards.
- **UST Closure, Remedial Action, Allentown, Pennsylvania** - Project Manager responsible for the removal of four USTs from the property; including three 8,000-gallon unleaded gasoline USTs and one 550-gallon waste oil UST. Petroleum impacts associated with the tank system were discovered and the USTs and impacted soil was excavated since this was the best course of action given the status of the property from a real estate perspective. Three hydraulic lifts were also removed from the garage interior and impacts were discovered in the soil. Approximately 370 tons of petroleum-impacted soil were excavated and transported to an approved recycling facility. A strategy for conducting a Site Characterization to address the plume delineation and cleanup standards was subsequently prepared.
- **UST Closures, Eastern Pennsylvania and Delaware** - Managed numerous waste oil and fuel oil UST removals at active gasoline service stations/convenience stores. This activity was related to the federal UST upgrade deadline. The majority of UST closures were completed with no further action required. If impacts were observed, soil was effectively segregated into impacted soil and clean soil piles for cost-effective disposal. However, several impacted sites are currently under Site Investigation phases as impacts are too significant for over excavation. To save costs on remedial action activities, Soil Vapor Extraction (SVE) piping was installed as a provisional measure in excavations that appeared significantly impacted with petroleum. In the long run, this will save on SVE piping installation fees.
- **UST Closure and Replacement, Jersey City State College, New Jersey** - Managed underground gasoline storage tank replacement at a New Jersey college for school-owned vehicle fueling. Tank replacement involved coordinating tank subcontractors, tank excavation dewatering, hydrocarbon-impacted soil and water disposal and tank/dispenser installation oversight. Extended groundwater dewatering was performed to remediate the highly impacted groundwater in the tank excavation and avoid costly future groundwater contaminant delineation and assessment activities. Soil was segregated and transported to a recycling facility and groundwater was containerized and shipped to a treatment facility. After tank installation, impacted groundwater was delineated through installation of one downgradient observation well. Based on the minimal impacts to groundwater, a NFA determination was obtained and the case was closed.
- **UST Closure, University of Medicine and Dentistry of New Jersey, New Jersey** - Managed the investigation and closure of an underground fuel oil storage tank as part of a

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construction addition to a medical facility. During storage tank excavation, two abandoned storage tanks were encountered with observed impacts to soil. Since foundation excavation for the addition encompassed the areas of the discovered and known tanks, all impacted soil was segregated and removed from the foundation area and was handled pursuant to NJDEP requirements for management of excavated soils. Soil testing and waste stream approval was necessary prior to transporting the impacted soil from the site to the disposal facility. Without effective environmental construction management, the tanks and impacted soil would most likely have caused a delay in the construction thereby increasing the overall project cost to the client.

- **ISRA Remedial Investigation and Remedial Action, International Paper (IP), Trenton, New Jersey** - Project Coordinator managing field activities and report writing. IP purchased the property from Union Camp and triggered NJ's property transfer law, ISRA. A number of areas of concern (AOCs) on the site initially identified and were effectively addressed; most recently a relatively large No. 6 fuel oil plume in soil. Based on a remedial alternatives evaluation submitted to NJDEP recommending natural attenuation with engineering and institutional controls, the NJDEP allowed this material to be left in place with monitored natural attenuation.
- **Site Characterization and Remedial Action, Act 2 PADEP Program, ITT Industries, Ashland, Pennsylvania** - Managed the characterization and remedial action of a foundry in central Pennsylvania (Manufacturer of Gould's Pumps). A request for an internal due diligence investigation uncovered soil and groundwater impacts. ITT entered into the Act 2 program to gain relief from liability. Metals in groundwater and soil were delineated, and an interim remedial action to remove No. 2 Fuel Oil (LNAPL) on the groundwater was performed. Negotiation with PADEP was accomplished in setting a strategy for closure that includes fate and transport modeling of metals in groundwater and pathway elimination as part of the ecological assessment of the property. A combination of Statewide Health Standards and Site-Specific Standards to attain soil and groundwater compliance was chosen. It is anticipated that relief from liability will be achieved in 2003.
- **Groundwater Monitoring, PSEG Salt Hay Farms, Southern New Jersey** - As part of PSEG Wetland Restoration Project, associated with their Salem Nuclear Plant permit, PSEG is monitoring wetlands that were formerly salt hay farms. PSEG flooded these wetlands to create habitat and re-establish coastal wetlands that were previously destroyed during salt hay farm operations. As such, issues related to septic systems, potable water systems and salt-water intrusion are monitored over a period of time. PSEG has demonstrated that reestablishing wetlands in the salt hay farm areas has not impacted septic or drinking water resources in those areas. Mr. Meriney managed the groundwater monitoring for PSEG and will be preparing a letter of recommendation to NJDEP regarding the scaling back of the monitoring program and the abandonment of a number of wells not utilized for this study.

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PROFESSIONAL TRAINING

- 40-Hour Occupational Safety and Health Administration (OSHA) Health and Safety Training for Hazardous Waste Site Operations (updated yearly with an 8-hour refresher)

PUBLICATIONS

Harwood, R.A., Meriney, M., Mertz, E., Dodge, L.J., Lakhwala, F., Srirangam, R., October 2013, "Remediation of Chlorinated Ethenes in Fractured Bedrock: A Site Redevelopment Case Study", Proceedings of the 29th Annual International Conference on Soils, Sediments, Water, and Energy, Amherst, Massachusetts.

Harwood, R.A., Meriney, M., Mertz, E., Dodge, L.J., Lakhwala, F., Srirangam, R., June 2013, "Remediation of Chlorinated Ethenes in Fractured Bedrock: A Site Redevelopment Case Study", Proceedings of the Second International Symposium on Bioremediation and Sustainable Environmental Technologies, Jacksonville, Florida.

Carney, Cindy K. and M. J. Meriney. 1988. "Sedimentology and Early Diagenesis of the Upper Mississippian Maxville Limestone," Society of Economic Paleontologists and Mineralogists Midyear Meeting, Columbus, Ohio.

**MATTHEW J. MAURO, LSRP
PROJECT DIRECTOR**

EDUCATION

B.S., Environmental Policy, Institutions and Behavior, 1997; Rutgers University, New Brunswick, New Jersey

PROFESSIONAL AFFILIATIONS

Licensed Site Remediation Professional, State of New Jersey, License No. 575022
New Jersey Certified Underground Storage Tank (UST) Subsurface and Closure

SUMMARY OF EXPERIENCE

Mr. Mauro has over 22 years experience with a wide range of diverse environmental site investigation and remediation projects for both the public and private sectors. He has extensive experience in the design and implementation of Preliminary Assessments (PA), Site Investigation (SI), Remedial Investigation (RI), Environmental Impact Statements (EIS), and Phase I and Phase II Environmental Site Assessments (ESA). Mr. Mauro is highly experienced in a variety of field activities, including the collection of soil and groundwater samples and installation of monitoring wells using various drilling and direct push methodologies, implementation of various types of insitu and exsitu remediation technologies, and management of small and large-scale remediation and UST removal projects. Mr. Mauro has over five years of experience in planning and implementing LBP and asbestos investigations and surveys and his analytical background includes four years as an analytical chemist and field technician under the direct supervision of the USEPA.

REPRESENTATIVE EXPERIENCE

2007 to Present

**Excel Environmental Resources, Inc., North Brunswick, New Jersey
Project Director**

Mr. Mauro is responsible for a variety of technical and field activities, including project management, subcontractor oversight, and Remedial Action (RA) design. Mr. Mauro is responsible for the management of the Hazardous Discharge Site Remediation Fund (HDSRF) Grant Program Sites which includes the performance of PA, SI, and RI activities for municipal clients, including daily management of existing projects and fine-tuning and implementation of the HDSRF Program growth and development. Mr. Mauro also conducts large, complex site investigation and remediation projects, including investigations in support of redevelopment, Brownfields, and UST closure projects.

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PROJECT DIRECTOR

2000 to 2007

MATRIX New World Engineering, Inc.
Project Scientist/Project Manager

Mr. Mauro's responsibilities included planning and directing soil, surface water, groundwater, and bedrock investigations for environmental projects and oversight of UST and Aboveground Storage Tank (AST) decommissioning and system modification activities, tank tightness (pressure) testing, and tank system evaluations in accordance with federal, state, and local regulations. Investigations performed involved numerous environmental characterization studies relative to hazardous waste screenings, PA, SI, RI, EIS, and remediation activities, and UST/AST investigations. Mr. Mauro was also responsible for planning and implementing of LBP and asbestos investigations and surveys for schools, private entities, and city and state agencies including visual inspection and sampling of Asbestos Containing Material (ACM) and LBP, development of asbestos and lead removal specifications, daily monitoring of contractors' work efforts, construction quality assurance, and documentation of field work.

1997 to 2000

Lockheed Martin: US Environmental Protection Agency – Region 2, Research Engineering Analytical Contract (REAC) and Emergency Response Team (ERT)
Analytical Chemist/Field Technician/Quality Assurance (QA)/Quality Control (QC)

As an analytical chemist and laboratory coordinator, Mr. Mauro was responsible for the preparation of organic and inorganic samples for analysis, laboratory certification and maintenance, screening and analytical analysis for pesticides and polychlorinated biphenyls (PCB), staff management and training, data validation using USEPA Contract Laboratory Procedures (CLP), QA/QC procedures, and laboratory logistics. Mr. Mauro's responsibilities also included performance of SI and RI activities at Superfund sites throughout New Jersey and New York.

- **United States Department of Housing and Urban Development (HUD), New Jersey, Pennsylvania, Delaware, and New York State:** Responsibilities included review of all Phase I, II, and III investigations and reports; inspection of UST and AST systems and review of all tank system permits, registration forms, and tank tightness (pressure) testing documentation; verification of environmental acceptability and completeness of all submitted properties in accordance with HUD, American Society for Testing and Materials (ASTM), federal, state, and local regulations; site inspections; and implementation and maintenance of environmental data resources.
- **County of Middlesex, On-Call Contract for Environmental Services, Middlesex, New Jersey:** The project involved quarterly groundwater monitoring at numerous County of Middlesex facilities. In addition, the project performance of PA, SI, and RI activities, remediation design and implementation, oversight of UST and AST

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decommissioning activities, tank tightness testing, and modifications to tank systems, Ground Penetrating Radar (GPR) studies, and waste classifications studies.

- **County of Union, Underground Storage Tank Management Program, County of Union, New Jersey:** The UST/AST management program involved the decommissioning, upgrade, or replacement of over 70 USTs at 28 facilities throughout the County of Union. In addition, the project performance of PA, SI, and RI activities, remediation design and implementation, oversight of UST and AST decommissioning activities, tank tightness testing, and modifications to tank systems, GPR studies, and waste classifications studies.
- **NJ Transit, Access to the Regions Core Project, New York/New Jersey:** Mr. Mauro was responsible for the preparation of hazardous materials sections of the Environmental Assessment/EIS for this project which will expand Trans-Hudson rail service to Midtown Manhattan. Work under this contract included the identification of areas of environmental concern in buildings and/or properties to be acquired (due diligence), impacted, and/or demolished; identification and delineation of the extent of areas of contaminated and hazardous materials; management (handling, transportation and disposal) of contaminated materials during construction (soil, groundwater, surface water, sediment, ballast, asbestos, lead-based paint, construction debris); and preparation of appropriate environmental documents (National Environmental Policy Act - NEPA), contract documents (plans and specifications), and permits for construction.
- **Metropolitan Transit Authority/Long Island Rail Road (MTA/LIRR), Grand Central Terminal Exterior Rehabilitation, New York, New York:** Mr. Mauro assisted in hazardous materials investigation and testing of materials, including asbestos and LBP, that may be impacted during the rehabilitation of the exterior of Grand Central Terminal, including interior light court roofs, light court windows, skylights, façade walls, ornamental metal paneling, exterior doors and air wells. As part of this work, previous inspection and survey reports were reviewed and existing data utilized in the investigation. Reports on the findings of the investigations, together with abatement/management plans and cost estimates, were prepared.
- **United States Military Academy (USMA), On-Call Contract for Environmental Services, West Point, New York:** This project involved inspection and oversight of the installation, decommissioning, and tank tightness (pressure) testing of UST and AST systems, the performance of environmental investigations, the removal and disposal of contaminated soil, subsurface remediation using Enhanced Fluid Recovery (EFR), and report preparation for numerous sites at the USMA and the former Stewart Army Sub-Post in New York State. Responsibilities also included the preparation and submission of written reports to the USMA and New York State Department of Environmental Conservation (NYSDEC).
- **New Jersey Schools Construction Corporation (NJSCC), Elizabeth, New Jersey:** Mr. Mauro's work for the site feasibility evaluation for the Elizabeth Academic High

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School included asbestos and lead-based paint surveys at the existing facility, geotechnical investigations, and the performance of a preliminary assessment/site investigation in accordance with the New Jersey Department of Environmental Protection (NJDEP) Technical Requirements for Site Remediation.

- **NJSCC, Paterson Public School Nos. 4 and 28, City of Paterson, New Jersey:** Mr. Mauro was responsible for environmental surveys of both buildings in anticipation of the construction of additions to the existing schools, upgrades, alterations and improvements to the building and grounds. Services provided included the preparation of preliminary assessment and limited site investigation in accordance with the NJDEP Technical Requirements for Site Remediation; wetlands investigation and preparation of a letter of interpretation; a comprehensive asbestos, LBP, PCB, and mercury containing materials survey of all buildings on site; drinking water sampling; preparation of an Executive Order 215 (EO-215) Report; and a geotechnical investigation.
- **NJSCC, William Brown and Boylan Street Schools, Newark, New Jersey:** Mr. Mauro was involved in the hazardous materials, asbestos and lead-based paint surveys for multiple structures and residences included within the scope of work to expand both schools. He conducted X-Ray Fluorescence technology testing in general accordance with the HUD guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing for hazardous materials that may have been present in areas to be impacted as part of this work, including, but not limited to PCBs, radioactive exit lights, mold and mildews, and stained soil. He also prepared Protective Action Evaluator for Chemical Emergencies (PAECE) Reports.
- **US Naval Air Engineering Station (NAES), Lakehurst, New Jersey:** Mr. Mauro was responsible for performing the weekly maintenance and monitoring of soil vapor remediation systems and submitting a monthly written report. For the groundwater treatment system, around-the-clock monitoring, daily maintenance and monitoring were performed. In addition, groundwater samples were collected from 94 monitoring wells semi-annually for laboratory analysis to monitor the effectiveness of the groundwater treatment systems. Monthly operation and monitoring reports were submitted to NAES for each of the groundwater treatment systems, including two additional reports to document the semi-annual monitoring. Mr. Mauro was also responsible for the modification of Health and Safety Plans (HASP), sampling plans, Quality Assurance Plans (QAP), and quality/waste management plans for both the soil vapor remediation systems and the groundwater treatment systems, as required.
- **MTA/LIRR, East Side Access Project, Grand Central Terminal and Arch Street Yards, New York, New York:** Mr. Mauro's responsibilities included the preparation of site-specific Sampling and Analysis Plans (SAP) for the collection of environmental data for the eventual management of contaminated materials (soil, ballast, timber ties, asbestos, LBP, sediments, surface water and groundwater) at the Arch Street Yard and Maintenance Facility and Grand Central Terminal (Madison Yard and East Yard). They

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also included the completion of visual inspections, sampling execution, contractor oversight for LBP sampling, finalized results, and report preparation.

- **New Jersey Economic Development Authority (NJEDA), Newark Public Schools, Life Safety Improvements, Newark, New Jersey:** Mr. Mauro was responsible for hazardous materials, lead, and asbestos surveys completed for 14 Newark public schools. The project required visual inspection and development of sampling plans, sampling execution, finalized results, reports, and abatement specifications. The inspection included surveys in accordance with Asbestos Hazard Emergency Response Act (AHERA) guidelines and HUD protocol all within a short turn-around time.
- **Dormitory Authority of the State of New York, Fashion Institute of Technology, New York, New York:** Mr. Mauro's work for the LBP and asbestos survey at the 15-story former American Book Bindery facility, which was proposed to be converted into dormitory space, included a survey of the building, sampling implementation, finalized results, report preparation, and abatement cost estimates.
- **NJ Transit, New Jersey Turnpike (NJTP) Grand Street Extension, Jersey City, New Jersey:** Mr. Mauro's responsibilities included subsurface soil and groundwater investigations to identify potential areas of concern prior to pier installation, coordination of sub-contractors, and the preparation and submission of a written report to NJ Transit.
- **USMA, Mollusk Investigation, West Point, New York:** Mr. Mauro was Matrix's primary diver for this project involving field surveying and collection of freshwater mollusks for five primary watersheds on the 16,000-acre military reservation. The investigation was performed using both shallow water survey techniques and deepwater diving surveys. Several species and habitat types were identified, collected and reported to the USMA and New York State Museum for environmental documentation.
- **US Army Corp of Engineers (USACE), Integrated Environmental Assessment and Ecosystem Restoration, Spring Creek, Queens, New York:** This project encompassed the Hazardous, Toxic, Radioactive Waste (HTRW) environmental assessment, Beneficial Use Determination (BUD), and remediation phase of the 26-acre site. Mr. Mauro's responsibilities included coordination and management of sub-contractors, the execution of field operations, and the preparation and submission of written reports. Field operations included delineation of Resource Conservation and Recovery Act (RCRA) metal-contaminated soil for disposal and site characterization of soil for beneficial use placement of cut materials from targeted restoration areas.
- **USACE, Integrated Environmental Assessment and Ecosystem Restoration, Jamaica Bay, Brooklyn, New York:** This project encompassed the HTRW environmental assessment and remediation phase of the Yellowbar and Elder's Point Island restoration. Mr. Mauro's responsibilities included coordination and management of sub-contractors, the execution of field operations, and the preparation and submission of written reports. Field operations included supervision of barge drilling activities,

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Global Positioning System (GPS) navigation, and environmental, agronomic and geotechnical soil logging and sample collection.

- **USACE, Integrated Environmental Assessment and Ecosystem Restoration, Brooklyn Union Gas (BUG) Site, Staten Island, New York:** This project encompassed the HTRW environmental assessment and remediation phase of the 10-acre site. Mr. Mauro's responsibilities included coordination and management of sub-contractors, the execution of field operations, and the preparation and submission of written reports. Field operations included troll data collection of creek parameters and coordination and planning of soil remediation.
- **Verizon Wireless, Environmental Services, New Jersey Statewide:** Mr. Mauro was responsible for providing professional environmental services for development, design, and construction of wireless communications facilities located throughout the State of New Jersey. Services included preparation of Phase I ESAs, NEPA Checklists prepared in accordance with the National Environmental Policy Act of 1969, and environmental impact statements.
- **NJ Transit, Northern Bus Maintenance Facility, Clifton, New Jersey:** Mr. Mauro was responsible for the preliminary assessment and site investigation of contaminated soil, groundwater, and bedrock at this bus facility. These responsibilities included installation of groundwater and bedrock monitoring wells, subsurface soil delineations, an asbestos and lead survey, evaluation and quality assurance/quality control of the data collected, coordination and management of sub-contractors, and the preparation and submission of a written report to NJ Transit.
- **USACE, Develop and Monitor Blasting Impacts to Fin Fish in Area 5 of the Kill Van Kull, New York:** This project involved the collection of blast monitoring data during the deepening of the navigational channel of the Kill Van Kull and Newark Bay. The blast monitoring data was needed as a condition of a water quality permit issued by the NJDEP to assess the impact of blasting rock to resident and migratory fish. Mr. Mauro's responsibilities included the construction of pressure transducer monitor supports, deployment of underwater pressure transducers in relation to the blast location, obtaining GPS data, and the collection of fish immediately after a blast to observe in-situ impacts to fish.
- **Essex County Resource Recovery Facility (ECRRF), Newark, New Jersey:** Mr. Mauro was responsible for the operational noise survey and truckload and ash sampling program in accordance with the NJDEP facility waste and operational permit. These responsibilities included a day and night time survey of various high noise areas within ECRRF and along the facility's residential and commercial property perimeter, sampling and inspection of inbound waste haulers from New Jersey and New York, sampling of ash, and permit compliance report preparation for ECRRF and NJDEP.

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- **Township of Maplewood, New Jersey:** Mr. Mauro was responsible for UST investigation and decommissioning activities associated with township facilities, parks, and public works garages, including the development and execution of environmental SIs, RIs, and monitoring programs. He was also responsible for developing Request for Proposal (RFP) scopes for environmental services needed by the township. He developed and implemented RIs to delineate the vertical and horizontal extent of soil and groundwater contamination at numerous sites in the township. The RIs involved a variety of techniques including, but not limited to, Geoprobings, test pitting, GPR, groundwater sampling, and laboratory analysis.
- **City of Clifton, New Jersey:** Mr. Mauro was responsible for UST investigation and decommissioning activities associated with township facilities and public works garages, including the development and execution of environmental SIs, RIs, and monitoring programs. He developed and implemented RIs to delineate the vertical and horizontal extent of soil and groundwater contamination at the City's Department of Public Works Garage and Police Station. The RIs involved a variety of techniques including, but not limited to, Geoprobings, groundwater sampling, and laboratory analysis.

PROFESSIONAL TRAINING

- 40-Hour Occupational Safety and Health Administration (OSHA) Hazardous Waste Safety and Health Operations, 1997
- 8-Hour OSHA Refresher Training for Hazardous Waste Operations
- 8-Hour Site Supervisor Training for Hazardous Waste Operations
- USEPA Certified Basic UST Tank Inspector
- First Aid/CPR – National Safety Council
- Confined Space Entry – National Environmental Trainers (NET)
- Understanding Mold Contamination in the Indoor Environment – EMSL Analytical, Inc.
- Community Noise Enforcement Certification – Rutgers University
- Practical Applications in Hydrogeology – Rutgers University
- Advanced Technologies for Natural Attenuation – Regenesys
- Advanced Open Water SCUBA Certification – Professional Association of Diving Instructors (PADI)

TIMOTHY R. NOVY
SR. REMEDIATION SITE MANAGER

EDUCATION

B.A., Environmental Studies, 1998; Ramapo College, Mahwah, New Jersey

SUMMARY OF EXPERIENCE

Mr. Novy has more than 21 years of experience with a broad range of environmental investigation and remediation projects, including on site construction supervision of large scale complex soil and groundwater remedial action projects, bid specifications, subcontractor solicitation and bid evaluation, and cost estimating for investigation and remediation projects. He also has extensive field experience in high-hazard and emergency response situations. He has conducted more than 300 confined-space entries and has assisted or supervised the cleanup of oil and chemical spills on land and water, many of which required work in USEPA personal protection Levels B and C. Mr. Novy has supervised soil excavation, aboveground tank demolition, remediation and engineering construction activities, and underground storage tank removal projects, including contractor coordination, supervision, and offloading of waste by rail, barge, and truck. His field experience also includes soil and groundwater sampling, test pit excavation, soil borings, well installation, site inspections, subsurface and waste characterization, and equipment maintenance. Mr. Novy is a trained Amtrak, Con Edison, and PSE&G “contractor” with additional training in various chemicals, utilities, and a wide variety of air monitoring equipment.

REPRESENTATIVE EXPERIENCE

2001 to Present

Excel Environmental Resources, Inc., North Brunswick, New Jersey
Sr. Remediation Site Manager

Mr. Novy is responsible for a variety of field and technical activities, including project management, subcontractor oversight, health and safety supervision, and soil and groundwater sampling. His responsibilities also include providing technical support for environmental compliance and remediation projects, preparation of technical reports and correspondence, proposal preparation, and cost estimation. Key experience includes:

- Construction and Field Supervisor for multiple phases of a soil and groundwater remediation and redevelopment project at the Kings Plaza Shopping Center Site in Brooklyn, New York. This several-year remediation project included bid specification preparation and management of bidding process, onsite construction management, aboveground and underground storage tank removal, building and concrete pad demolition, soil and groundwater remediation including excavation of highly-impacted soil and open excavation recovery of free-phase product and groundwater, and preparation of project documents.

TIMOTHY R. NOVY
SR. REMEDIATION SITE MANAGER

- Construction and Field Supervisor for multiple phases of a Brownfield remediation and redevelopment project at the Former APA Transport Site in North Bergen, New Jersey. This several-year remediation project included bid specification preparation and management of bidding process, onsite construction management, underground storage tank removal, building, pool, and concrete pad demolition, asbestos abatement, soil and groundwater remediation including excavation of highly-impacted soil and open excavation recovery of free-phase product and groundwater, and preparation of project documents.
- Construction and Field Supervisor for multiple phases of a Brownfield remediation and redevelopment project at the Former Warehouse and Office Complex in Garfield, New Jersey. This several-year remediation project included bid specification preparation and management of bidding process, onsite construction management, underground storage tank removal, building, and concrete pad demolition, soil and groundwater remediation including excavation of highly-impacted soil and open excavation recovery of free-phase product and groundwater, and preparation of project documents.
- Construction and Field Supervisor for multiple phases of a Brownfield remediation and redevelopment projects at the Former Apollo Dye House and the Former Paperboard Specialties, Inc. Sites in Paterson, New Jersey. These several-year remediation projects included bid specification preparation and management of bidding process, onsite construction management, underground storage tank removal, building, and concrete pad demolition, asbestos abatement, soil and groundwater remediation including excavation of highly-impacted soil and open excavation recovery of free-phase product and groundwater, and preparation of project documents.
- Construction and Field Supervisor for implementation of an \$11 million remediation project at the Military Ocean Terminal Bayonne (MOTBY) site in Bayonne, New Jersey. This four-year remediation project included excavation of PCB-impacted soil “hot spots” and restoration of all excavated areas, construction of Engineering Controls in the form of asphalt and soil caps at multiple locations across the 652-acre peninsula, and Closure of a 26-acre Solid Waste landfill in accordance with a Landfill Closure Plan prepared by Excel. The landfill closure included construction of a permeable soil cap.
- Field Supervisor for an approximately \$2 million site-wide remedial action conducted by Excel at the Former Standard Tank Cleaning site on behalf of the City of Bayonne. Excel obtained funding for performance of the remediation from the New Jersey Redevelopment Authority’s Brownfields Redevelopment Initiative. The remedial action included decontamination and demolition of several large-capacity above ground storage units, settling tanks, boilers, separation tanks, and a vacuum filtration unit, removal of three 10,000-gallon underground storage tanks as well as all associated piping, excavation of approximately 10,000 cubic yards of highly contaminated soil, open-excavation recovery of free phase product and contaminated groundwater, and onsite treatment and reinjection of treated groundwater.

TIMOTHY R. NOVY
SR. REMEDIATION SITE MANAGER

Mr. Novy managed the daily operations of all onsite personnel, including Excel's onsite professionals and multiple contractors during the aboved referenced projects. He was also involved in coordination with the Clients, competitive public bidding process for selection of remediation contractors, Remedial Action reporting, and work scope, schedule, and budget.

1999 to 2001

Clean Harbors, Inc. Edison, New Jersey
Environmental Senior Field Technician

- Responsible for providing a wide range of hazardous waste disposal management services, including site remediation (drum, tank and soil removal), on-site lab-packaging, 24 hour emergency response, facility and equipment decontamination, and on-site field services.
- Responsible for the supervision and direction of field personnel to complete assigned jobs. Assured that all work was completed per the contract agreement.
- Trained in various chemicals, equipment, air monitoring devices, field services, utilities, confined space entry and rescue.

1998 to 1999

Accredited Laboratories, Inc. Carteret, New Jersey
Organic Chemical Extractor

- Responsible for executing and documenting test results for the following tests on soil, sludge, oil, aqueous, and wipe samples: BNA, BN, TCCLP, TCLP PEST, DRO, 18 Hour Continuous, PCB and Herbicide.
- Responsible for florisil and acid cleanup of contaminated samples, producing surrogates, and formulating various chemical mixtures required for proper sample analysis.
- Responsible for proper decontamination of equipment to insure validity of test results.

PROFESSIONAL TRAINING

- 40-Hour OSHA Health and Safety Training for Hazardous Waste Operations and Emergency Response (updated yearly with an 8-hour refresher)
- 30-Hour OSHA Health and Safety Training in Construction Safety and Health
- 10-Hour OSHA Health and Safety Training in Construction Safety and Health
- 8-Hour OSHA Site Supervisor
- Confined Space Entry Training
- Confined Space Rescue Training
- First Aid and CPR

Attachment B

Select Case Histories

Former Paperboard Specialties Site

PATERSON, NEW JERSEY

Today, the Former Paperboard Specialties Site is a superb example of the rebirth underway in Paterson—thanks in large part to creative solutions by EXCEL Environmental Resources, Inc.

(EXCEL). From the 1940's until the early 1990's, manufacturing of paper products took place at the Site. The City foreclosed upon it after operations ceased and it was abandoned by the owners. Soil and groundwater at the property was contaminated by No. 6 fuel oil from underground storage tanks and there was Site-wide soil contamination associated with Historic Fill.

The City retained EXCEL to evaluate data previously generated by others to determine if the property could be remediated and redeveloped in a reasonable timeframe and at a reasonable cost. To offset the cost of soil and groundwater cleanup, EXCEL worked with the City to obtain grant funds to cover the entire cost of asbestos abatement, building demolition, and the majority of the soil and groundwater remediation.

Following building demolition and the No. 6 oil cleanup, the City was able to sell the property to a local developer that retained EXCEL to manage the environmental components of the redevelopment, including construction management related to the capping of contaminated Historic Fill. The Site was capped using various components of a 40,000 square foot retail shopping center as Engineering Controls. EXCEL also prepared a Deed Notice and obtained a Brownfield Redevelopment Agreement application for reimbursement of up to 75% of the costs associated with these final cleanup activities.

Project Overview

- EXCEL assisted the City in obtaining grant funds from the State to demolish all Site buildings, including asbestos abatement, in order to access the areas in need of additional delineation and remediation.

- EXCEL proceeded on an expedited basis to complete soil and groundwater delineation and prepare a Remedial Action Work Plan for removal of grossly-impacted soil that was the source of free-phase No. 6 fuel oil in the soil, the underlying weathered bedrock, and on groundwater.

- The cleanup involved challenging excavation activities that were expertly managed by EXCEL's Remediation Division resulting in removal of the former tanks and

oil-saturated soil that was the source of the free-phase product on groundwater. Segregation/sampling of excavated soil enabled reuse of non-impacted soil as backfill at a cost savings of more than \$100,000.

- Free-phase fuel oil was recovered from the open excavations resulting in complete eradication of free-phase product. Groundwater was treated and re-injected onsite under a Permit-By-Rule.

continued ➤



■ EXCEL prepared a Remedial Action Report indicating that no additional soil or groundwater cleanup was required. NJDEP approved the Report on an expedited basis which enabled the City to meet their timeline for auctioning the property.

■ A developer acquired the property and retained EXCEL to assist

them with capping the Site-wide Historic Fill using their 40,000 square foot retail development as Engineering Controls. Excel also prepared a Deed Notice, obtained a Brownfield Redevelopment Agreement, managed the onsite handling/reuse and capping of Historic Fill during construction, and prepared the final reports.

Key Components of EXCEL's Work Scope

- Asbestos Abatement and demolition of all buildings.
- Completion of soil and groundwater delineation and preparation of an efficient and effective Remedial Action Work Plan.
- Excavation/offsite disposal of grossly-impacted soil coupled with open excavation recovery of groundwater and free-phase No. 6 fuel oil during excavation.
- Preparation of a Remedial Action Report for the oil-impacted soil and free-phase product remediation that resulted in NJDEP approval on an expedited basis which enabled the City to meet its timeline for auctioning the property.

■ Assisting the developer in obtaining a Brownfield Redevelopment Agreement for reimbursement of up to 75% of the costs associated with managing Historic Fill during

construction, management and onsite reuse of excavated Historic Fill, preparation of the Deed Notice, and final reporting to obtain a No Further Action determination.



Primary Environmental Services Provided by EXCEL

- Grant and Permit Acquisition on behalf of the City
- Demolition and Asbestos Abatement Bid Specification/Management
- Demolition and Asbestos Abatement Construction Management
- Delineation of Soil and Groundwater Quality
- Remedial Action Alternative Evaluation, Cost Estimation/Cost-Benefit Analyses
- Remedial Action Work Plan Preparation
- Remediation of No. 6 Fuel Oil Impacts to Soil and Groundwater
- Negotiations and Consensus-Building with the NJDEP Case Team
- Expediting of Total Project Schedule to Meet Transaction Deadlines
- Brownfield Redevelopment Agreement on behalf of the Developer
- Construction Management
- Project Management
- Deed Notice and Remedial Action Report Preparation

Clients

City of Paterson and
1 Route 20 Associates, LLC



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Former Garfield Warehouse & Office Complex

GARFIELD, NEW JERSEY

The Garfield Warehouse and Office Complex is a textbook example of the Brownfield process breathing new life into a community. The approximately 37-acre Developer-owned property is located adjacent to the Saddle River in Garfield, New Jersey. The Site was initially developed in the early 20th century as a looming facility and later used for warehousing activities associated with an aircraft engine manufacturing plant. After years of operating the property for warehousing, the Developer embarked on an aggressive site-wide retail redevelopment to enhance the utilization of the property. During investigation of the property by prospective retail tenants, it was determined that soil and groundwater at the site were impacted by historic discharges of chlorinated volatile organics (CVOs) resulting in Trichloroethene (TCE) at high concentrations and varying lower concentrations of TCE degradation products, including cis-1,2-Dichloroethene (DCE), and Vinyl Chloride (VC).



The Developer retained EXCEL to evaluate data previously generated by others and to complete the investigation in order to determine whether the property could be remediated and redeveloped in a reasonable timeframe and at a reasonable cost. The Developer had specific timelines that had to be met before building construction could proceed therefore the remediation of CVOs in soil and groundwater had to be completed on an expedited basis and with a high probability of success.

Following demolition of the abandoned buildings, EXCEL completed soil and groundwater investigation/remediation, including removal of underground storage tanks, excavation and offsite disposal of CVO-impacted soil that was the source of shallow groundwater impacts, and selection, design, and implementation of an in-situ groundwater remedial action through aerobic co-metabolism via injection of CL-Out[®], a consortium of *Pseudomonas sp.* In addition, the remedial action included the capping of Site-wide Historic Fill using various components of the retail shopping center as Engineering Controls under a Deed Notice. Today, the site has been successfully redeveloped as a large retail shopping center.

Project Overview

- A Private Developer retained EXCEL to conduct site-wide remediation in preparation of redevelopment.
- EXCEL conducted a Preliminary Assessment (PA)/Site Investigation (SI)/ Remedial Investigation (RI) to characterize site-wide Areas of Concern (AOCs).
- EXCEL prepared a Memorandum of Agreement (MOA) between the Developer and the New Jersey Department of Environmental Protection (NJDEP) and a Remedial Action Workplan (RAWP) with the NJDEP.
- After building demolition and disposal of building debris and concrete, EXCEL removed two 5,000 gallon UST's and associated oil-impacted soil from within the footprint of the building.

- Excavation conducted to remediate 1800 CY of CVO-impacted soil that was the source of shallow groundwater impacts at the Site.

- Selected, designed, and implemented an in-situ groundwater remedial action through aerobic co-metabolism via injection of CL-Out[®], a consortium of *Pseudomonas sp.*, that re-

continued



sulted in the reduction of CVOC concentrations in groundwater to allow redevelopment to proceed.

■ Remedial action also included the reuse of approximately 36,000 CY of building concrete and pumping and onsite treatment of more than 33,000 gallons of groundwater.

■ EXCEL provided oversight for the design and construction of Engineering Controls as part of the planned redevelopment construction.

■ EXCEL prepared Remedial Action Reports (RAR) for soil and groundwater to document the building demolition, UST removal, excavation and disposal of impacted soil, in-situ remediation of CVOCs, and post-remediation soil and groundwater quality conditions.

Key Components of EXCEL's Work Scope

■ Completion of site-wide PA/SI/RI and preparation of report.

■ Preparation of a MOA and Remedial Action Work Plan that was approved by NJDEP within three weeks.

■ Following excavation of approximately 1,800 CY of CVOC-impacted soil, CVOC concentrations in groundwater were reduced by 50%.

■ In-situ remediation of groundwater through the injection of CL-Out®, a consortium of *Pseudomonas sp* that resulted in the reduction of CVOC concentrations via aerobic co-metabolism.

Client

Private Developer

■ Microbial plate counts and quantitative Polymerase Chain Reaction (PCR) testing confirmed that *Dehalococcoides ethenogenes* and other anaerobic dehalogenators were thriving alongside the *Pseudomonas sp.* organisms thus enhancing the CVOC degradation.

■ Post-injection groundwater analytical results confirmed a 50% to 75% further reduction with target levels being achieved and redevelopment construction able to proceed.

■ Oversight for the installation of Engineering Controls using the concrete slab and/or asphalt pavement and imported

topsoil associated with the new development and preparation of the necessary Deed Notice documents for submission to NJDEP.

■ Preparation of Final Remedial Action Reports for soil and groundwater.

Primary Environmental Services Provided by EXCEL

■ Bid specification preparation and management of bidding process

■ Demolition and Remediation budgetary estimates

■ MOA Preparation and Negotiation

■ Preparation of a Remedial Action Workplan

■ Remediation Work Scope Development

■ Interaction and Negotiation with the NJDEP

■ Remediation Construction Management

■ Groundwater Remediation Through In-Situ Bioaugmentation

■ Project Management

■ Preparation of Project Documents, including Work Plans, Reports, and Permit Applications

■ Preparation of Deed Notice and CEA



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The Military Ocean Terminal Bayonne (MOTBY)

BAYONNE, NEW JERSEY

The Former Military Ocean Terminal Bayonne (MOTBY) is an approximately 600-acre peninsula that extends into the Lower New York Harbor and has breathtaking views of lower Manhattan and the Statue of Liberty. When the U.S. Army decided to close the base in the 1990's under the Base Realignment and Closure Act (BRAC), the Bayonne Local Redevelopment Authority (BLRA) was established so that the property could be transferred to the City for Brownfields redevelopment.

Project Overview

■ On behalf of the BLRA, EXCEL Environmental Resources, Inc. (EXCEL) prepared a comprehensive Remedial Action Work Plan (RAWP) for the remediation despite the fact that there were only three weeks allocated in the schedule to prepare and submit the document to the New Jersey Department of Environmental Protection (NJDEP) so that the property transfer could be completed within the Army's required timeframes.

■ EXCEL completed the RAWP on schedule, the Army and the NJDEP approved it, and MOTBY was subsequently transferred to the BLRA, resulting in the first BRAC transfer completed by the Army in the Nation.

■ The MOTBY property transfer is unique because the Army also transferred the responsibility for implementation of the remediation, including capping and closure of a 26-acre Landfill, to the BLRA thus enabling the BLRA to proceed with redevelopment on a parallel track with the remediation.

■ The BLRA selected EXCEL to provide the environmental consulting, engineering, and construction management for all phases of the \$11,000,000 remediation.

■ The BLRA renamed the site "The Peninsula at Bayonne Harbor" as site-wide redevelopment activities were initiated.

■ EXCEL's seamless integration of the remediation into the redevelopment planning for this prime waterfront property has helped

make MOTBY a true Brownfields success story.

Key Components of EXCEL's Work Scope

■ Implementation of pre-remedial design Field Investigation to complete delineation of areas where Engineering Controls in the form of soil or asphalt caps will be constructed.

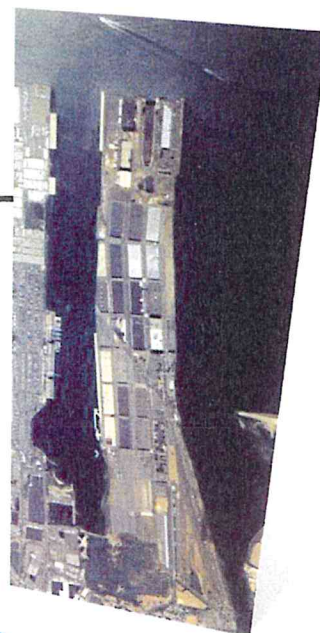
■ Engineering design of the caps, including a permeable soil cap for a 26-acre Landfill, and preparation of a final design package for NJDEP approval, including a Landfill Closure/Post-Closure Care/Financial Plan.

■ Bid Specification preparation and management of the public bidding and contractor procurement process for all five phases of the remediation.

■ Acquisition of Waterfront Development and Freshwater Wetlands GP-4 Permits and preparation of a Soil Erosion and Sediment Control Plan.

■ Preparation and NJDEP negotiation of an innovative Wetlands Mitigation Plan for wetlands disrupted by Engineering Control construction.

continued 



 **EXCEL**
Environmental
Resources, Inc.

■ Onsite Construction Management, including supervision of remediation contractors and coordination of site logistics to ensure remediation activities do not interfere with ongoing tenant activities.

■ Overall Project Management to ensure technical quality and regulatory compliance, strict adherence to the Remediation Schedule, and effective management and control of project costs.

■ Evaluation and interpretation of groundwater and soil analytical data generated during the remediation.

■ Preparation of Quarterly Remedial Action Progress Reports for the Army and NJDEP.

■ Technical consultation to the BLRA and the BLRA's Redevelopment Project Team for effective integration of the remediation into redevelopment planning.

■ Preparation of Remedial Action Reports for each major phase of the multi-year remediation, including detailed Deed Notice documents.



Primary Environmental Services Provided by EXCEL

- RAWP Preparation
- Interaction and Negotiation with the NJDEP
- Interaction and Negotiation with U.S. Army Representatives
- Remedial Investigation of Soil and Groundwater Quality
- Design of Engineering Controls, including Engineered Soil and Asphalt Caps
- Landfill Closure and Capping Design
- Preparation of Engineering Bid Specifications
- Management of the Public Bidding and Contractor Selection Processes
- Acquisition of Environmental Permits
- Preparation of an Innovative Wetlands Mitigation Plan
- Construction Management
- Remediation Project Management
- Environmental Engineering Support and Strategic Technical Consulting During Redevelopment Planning
- Preparation of Project Reports

Client

The Bayonne Local Redevelopment Authority



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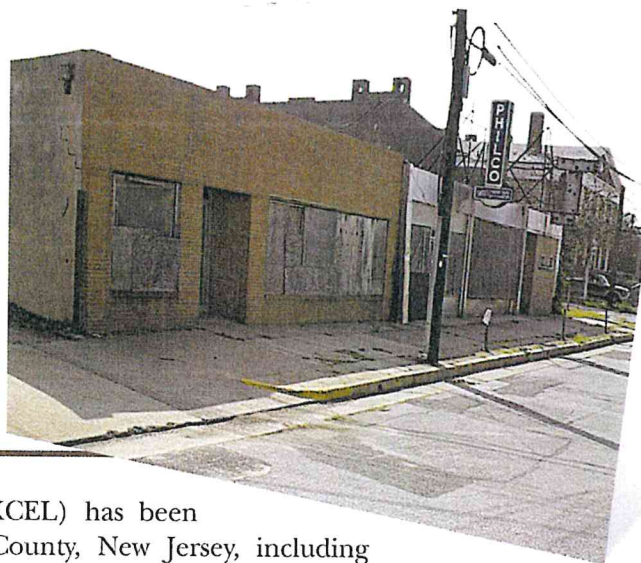
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Brownfields Site Investigations – Salem County, New Jersey

**INCLUDING,
TOWNSHIP OF CARNEYS POINT,
BOROUGH OF PENNS GROVE,
QUINTON TOWNSHIP, AND
SALEM CITY**



EXCEL Environmental Resources, Inc. (EXCEL) has been retained by several municipalities in Salem County, New Jersey, including Township of Carneys Point, the Borough of Penns Grove, Quinton Township, and Salem City, to provide overall management and technical consulting for numerous under-utilized properties that are targeted for redevelopment but have known or potential environmental impacts associated with historic industrial and/or commercial operations. On behalf of each of these Salem County municipalities, EXCEL has applied for and received multiple grants from the New Jersey Department of Environmental Protection (NJDEP) Hazardous Discharge Site Remediation Fund (HDSRF) Program to conduct the Preliminary Assessment (PA) and Site Investigation (SI) necessary to assess the actual environmental condition of each property.

EXCEL has worked with each municipality to successfully navigate through the process of grant acquisition, PA/SI implementation, NJDEP coordination, data evaluation and interpretation, and evaluation of remedial action alternatives and costs so that the redevelopment potential of each property could be accurately assessed. Several projects have or will expand into the Remedial Investigation (RI) phase of work so that actual environmental impacts can be more accurately quantified and redevelopment plans can be evaluated for successful future reuse of these Brownfields properties.

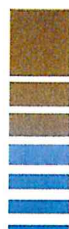
Project Overview

- HDSRF grants were used to conduct PA and SI activities at these properties in support of the municipality's overall redevelopment plans.
- The PA and SI phases of work were conducted to satisfy the minimum requirements of the NJDEP Technical Requirements for Site Remediation, including identification of areas of environmental concern.
- For each project, EXCEL conducted the work utilizing HDSRF grant funds with no out-of-pocket expenditures by the municipality.
- Utilizing the results of the PA/SI, EXCEL evaluated the actual environmental condition of each property and worked with each municipality to determine if they were eligible for additional HDSRF grant funds to conduct

an RI in the event that additional investigation was warranted.

- As appropriate, EXCEL worked with the municipalities to evaluate estimated ranges of remediation costs based on multiple redevelopment scenarios that were consistent with redevelopment plans and feasible land uses.
- In cases where additional grant funding and/or other financial assistance was available, EXCEL worked with the municipality to identify and obtain additional funding.

continued

 **EXCEL**
Environmental
Resources, Inc.

■ EXCEL is also working with each municipality in evaluating remediation and redevelopment alternatives and assisting with preparation of information packages and conceptual plans for discussion with third-party redevelopers.

Key Components of EXCEL's Work Scope

- Preparation of the HDSRF applications and acquisition of the grants, including filing of all necessary paperwork with the NJDEP and the Economic Development Authority (EDA).
- Performance of effective and efficient PA and SI work scopes designed to satisfy minimum NJDEP requirements and target the site characterization data necessary to enable an accurate assessment of the environmental condition and potential risk, if any, associated with redevelopment of the property.
- Based on the findings of the PA, designed and implemented the SI scope of work as necessary to characterize soil and/or groundwater quality at each site.
- Depending upon the site, the SI work scopes included geophysical surveys, performance of soil borings, excavation of test pits, installation of well points and/or monitoring wells, and sampling and analysis of soil and groundwater, as necessary to efficiently characterize site conditions.
- These data were then used by EXCEL to develop conclusions and recommendations regarding the need to conduct any additional SI or RI activities and, as appropriate, to evaluate feasible remedial action alternatives to address any soil or groundwater contamination.
- In an effort to offset the cost of remediation, the evaluation of remedial action alternatives included, where appropriate, integration of

Engineering Controls in the form of future buildings, asphalt paved parking lots, landscaped areas, etc. that may be associated with redevelopment plans for the property into the remediation work scope.

Primary Environmental Services Provided by EXCEL

- Preparation and Acquisition of HDSRF Grants
- Implementation of multiple Preliminary Assessments, often on a parallel schedule to maximize cost-efficiency and expedite the schedule of completion
- Implementation of multiple Site Investigations, often on a parallel schedule to maximize cost-efficiency and expedite the schedule of completion
- Implementation of focused Remedial Investigation to quantify actual impacts to soil and/or groundwater
- Performance of focused and realistic Remedial Action Alternatives Analyses aimed at integration of redevelopment plans into remediation
- Preparation of accurate Remediation Cost Estimates
- Interaction and Negotiation with the NJDEP
- Preparation of Project Documents, including Work Plans and Reports
- Project Management

Clients

- Township of Carneys Point
- Borough of Penns Grove
- Quinton Township
- Salem City



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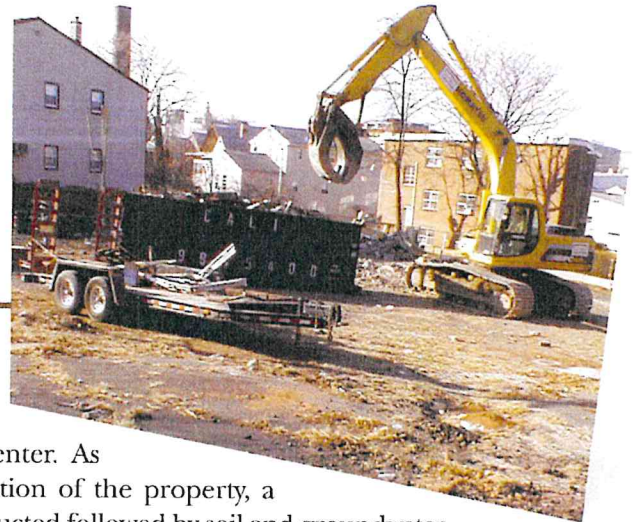
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Town of Kearny Community Police Center Project

KEARNY, NEW JERSEY



This former gasoline station property was targeted by the Town of Kearny as a potential location for construction of a Community Police Center. As part of the Town's due diligence prior to acquisition of the property, a focused Phase I environmental assessment was conducted followed by soil and groundwater sampling that indicated that both soil and groundwater were impacted by gasoline. Acquisition of the property stalled and the Town re-evaluated its options. Since there were Tax Liens on the property, the Town exercised control over the property and proceeded to obtain a grant under the New Jersey Department of Environmental Protection (NJDEP) Hazardous Discharge Site Remediation Fund (HDSRF) Program for performance of a Preliminary Assessment (PA) and Site Investigation (SI).

The PA/SI confirmed an impact to soil and groundwater. EXCEL Environmental Resources, Inc. (EXCEL) was retained to complete the investigation of soil and groundwater and design an effective remediation work scope that could be integrated into the Town's redevelopment plans for the property within the timeframes necessary for the Town to achieve their target schedule for construction. EXCEL completed the investigation and remediation that enabled the Town to build the Community Police Center and the property is now beneficially re-used while final compliance activities are completed. A true Brownfields success story!

Project Overview

- The Town of Kearny accessed the HDSRF Program to conduct the PA/SI, the results of which confirmed that both soil and groundwater had been impacted by historic discharges of gasoline.
- EXCEL obtained additional HDSRF grant funds to complete the delineation of impacted soil and groundwater as part of a Remedial Investigation (RI).
- Based on the results of the SI and RI, EXCEL estimated soil and groundwater remediation costs, and the Town of Kearny reactivated its intentions to acquire the property for construction of the Community Police Center.
- The Town of Kearny subsequently entered into a purchase agreement with the property owner and acquired the site in 1999.
- In late 1999 and early 2000, EXCEL developed and implemented an accelerated plan to

complete the RI and evaluate remedial action alternatives so that the soil remediation could proceed as a precursor to site redevelopment.

- The soil remediation work scope included "hot spot" excavation and offsite disposal of gasoline-impacted soil that was the source of the ongoing impact to groundwater.

- The Town of Kearny obtained financial assistance from the New Jersey Department of Community Affairs (DCA) for demolition of the on-site building and preparation of the site for redevelopment.

continued



■ With the soil remediation complete and NJDEP approval in hand, the Town initiated construction of the Community Police Center and an adjacent parking lot in the Summer of 2000 and the facility was completed in the Spring of 2001.

■ With NJDEP approval, natural attenuation of residual concentrations of gasoline-derived contaminants in groundwater is being monitored and concentrations have been decreasing over time since completion of the soil remediation.

■ Groundwater quality monitoring is nearing completion and final NJDEP approval of a Classification Exception Area (CEA) for case closure is anticipated shortly.

Key Components of EXCEL's Work Scope

- Prepared and efficiently implemented the SI and RI Work Scopes.
- Prepared supplemental grant applications for funding of the investigation through the HDSRF and facilitated obtaining financial assistance from the DCA for building demolition and site preparation activities in support of redevelopment.
- Conducted a focused remedial action alternatives analysis and developed an effective and cost-efficient remedial action approach that integrated the remediation scope and schedule into the Town's redevelopment plans for the property.

■ Provided oversight and effective construction management for implementation of the soil remediation to ensure that the work was conducted within budget and on schedule so that the Town's goal for initiating site redevelopment activities was achieved.

- Provided overall technical consultation and project management, including coordination with all contractors and vendors, negotiation on technical and/or regulatory issues with NJDEP, and management of scope, schedule, and budget.



Primary Environmental Services Provided by EXCEL

- Site Investigation
- Remedial Investigation
- Remedial Action Alternatives Analysis
- Remediation Work Scope Development
- Interaction and Negotiation with the NJDEP
- Acquisition of HDSRF grants and assistance with DCA financial aid
- Remediation Construction Management
- Project Management
- Preparation of Project Documents, including Work Plans, Reports, and Permit Applications

Client

Town of Kearny



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McGuire Gardens Housing Complex Hope IV Revitalization Project

CAMDEN, NEW JERSEY

The McGuire Gardens Housing Complex is a low-income, multi-family unit housing development located in the City of Camden that is owned and operated by the Camden Housing Authority. The Camden Housing Authority received financial assistance from the Housing and Urban Development Authority under the Hope IV Program for a site-wide redevelopment of the 22-acre property. Soon after the project was initiated, however, suspect contaminated Historic Fill was encountered. Because the scope of the site-wide redevelopment project included demolition of existing structures, construction of new housing units, and realignment of streets and sub-grade utilities, the potential for contaminated soil posed significant concerns regarding the current and future residential use of the property.

In 1995, the project architects retained EXCEL Environmental Resources, Inc. (EXCEL) to delineate the extent of the Historic Fill. Utilizing innovative investigation techniques, EXCEL completed an expedited investigation and developed a remediation plan that utilized the new multi-family dwellings, asphalt-paved parking lots and streets, concrete sidewalks, and landscaped areas as Engineering Controls, along with a Deed Notice, thus enabling residential use of the 22-acre Site without impacting the construction budget.

Project Overview

■ EXCEL was retained by the project architects, The Sheward Partnership, to conduct a focused Site Investigation (SI) on an expedited schedule to verify soil quality at the Site and define the extent of any contaminated Historic Fill without interfering with the construction schedule;

■ EXCEL designed a soil boring and sampling program using historic geotechnical boring logs to minimize the number of additional borings necessary to satisfy NJDEP requirements for investigation of Historic Fill;

■ EXCEL determined that the contaminated Historic Fill extended across the 22-acre Site. Since it was consistent in composition and analytical quality, visual characterization was used to confirm the vertical extent of the fill

thus saving time and limiting the drilling and laboratory analytical costs associated with the Remedial Investigation (RI);

■ After lateral and vertical delineation was completed, EXCEL was retained by the construction contractor, Michaels Development Corporation, to prepare and implement an effective and cost-efficient Remedial Action Work Plan (RAWP) to allow residential use of the property without removing the sub-grade contaminated soil;

continued 



■ All excavated Historic Fill was reused onsite as sub-grade fill under one or more of the new construction elements and there was no offsite disposal of contaminated soil required thus saving the project hundreds of thousands of dollars in transportation and disposal costs;

■ The RAWP fully integrated the remediation into the Hope IV Revitalization Design by utilizing the new and existing construction elements (i.e. buildings, asphalt pavement, concrete sidewalks, landscaped areas, etc.) as Engineering Controls to effectively cap the 22 acres of contaminated Historic Fill;

■ Instead of providing an onsite Construction Manager during the entire two-year project, EXCEL trained Michaels Development Corporation's OSHA-certified supervisor and work crew to properly handle and manage the excavated Historic Fill thus significantly reducing the cost of environmental compliance.

Key Components of EXCEL's Work Scope

■ Prepared a SI and RI work scope designed to effectively and cost-efficiently verify soil quality and complete lateral and vertical delineation of the contaminated Historic Fill across the 22-acre Site on an expedited basis;

■ Visually characterized the Historic Fill to complete vertical delineation thus saving time and money by reducing the number of soil samples for laboratory analysis;

■ Reused all excavated contaminated soil as sub-grade fill in lieu of offsite transportation and disposal thus saving the project hundreds of thousands of dollars in transportation and disposal costs;

■ Utilized the new and existing multi-unit residential dwellings, buildings, asphalt-paved parking lots and streets, landscaped areas, etc. as Engineering Controls with a site-wide Deed Notice as the final remediation for soil at the Site;

■ Trained the construction crews and provided overall Project Management to ensure strict adherence to the remediation work scope and schedule resulting in completion of the redevelopment project on schedule and within budget.



Primary Environmental Services Provided by EXCEL

- Site and Remedial Investigation
- Integrated Remediation into Redevelopment Plans
- Engineering and Institutional Controls
- Remedial Action Work Plan
- Soil Reuse Plan
- Agency Negotiations and Coordination
- Remediation Training and Construction Management
- Overall Project Management
- Preparation of Project Documents, including Work Plans and Reports

Clients

The Sheward Partnership,
Michaels Development Corporation,
and the Camden Housing Authority



*Solving Environmental Problems
& Creating Redevelopment Opportunities*

111 North Center Drive ■ North Brunswick, NJ 08902

Phone (732) 545-9525 ■ Fax (732) 545-9425

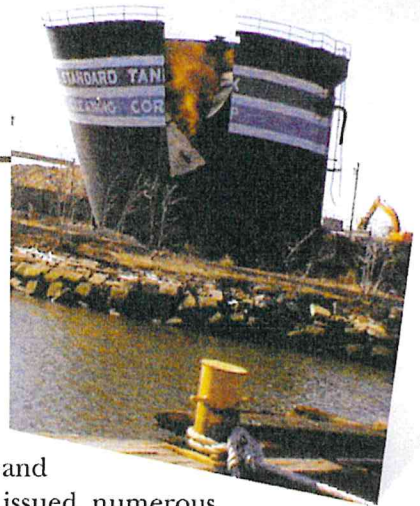
Visit our website at www.excelenv.com

Certified WBE & SBE

The Former Standard Tank Cleaning Services Site

BAYONNE, NEW JERSEY

Located on the Kill Van Kull River in Bayonne, New Jersey, the Former Standard Tank Cleaning Services Site historically operated as a barge and tank cleaning facility that recovered oil from ship ballast water and other sources. Because of repeated environmental violations and the horrendous appearance of structures on the Site, Standard Tank became one of the most widely known contaminated properties in New Jersey. Operations at the Site ceased in 1993 after the New Jersey Department of Environmental Protection (NJDEP) and the United States Environmental Protection Agency (USEPA) issued numerous environmental violations and subsequently denied or revoked all permits for the operation.



The City of Bayonne subsequently foreclosed on the property because the buildings and equipment posed an imminent hazard to the public. Investigation of the Site by the City confirmed that soil and groundwater quality had been adversely impacted by historic operations, however, the Site conditions could not be properly evaluated and the actual source(s) of the contamination could not be confirmed because multi-million gallon-capacity aboveground storage tanks (ASTs) and other equipment prevented access to the underlying soil in the main production areas. EXCEL Environmental Resources, Inc. (EXCEL) was retained by the City of Bayonne to design and implement a site-wide remediation utilizing approximately \$2,000,000 in grants and financial assistance that has prepared this high-profile Brownfields property for redevelopment and beneficial reuse!

Project Overview

■ On behalf of the City of Bayonne, EXCEL obtained grant funding in the amount of \$950,000.00 from the New Jersey Redevelopment Authority (NJRA) under the Brownfields Redevelopment Initiative to conduct an Interim Remedial Action to demolish the ASTs and equipment so that the quality of soil underlying these structures could be investigated and the sources of groundwater contamination could be identified and remediated.

■ Once the ASTs and equipment were demolished and the sources of contamination at the Site were identified, EXCEL then obtained additional funding for the City from the NJRA in the amount of \$1,000,000 to complete the site-wide remediation of contaminated soil and install the sub-grade components of a groundwater recovery system to prepare the Site for redevelopment and beneficial reuse by a third-party developer.

■ Because all of the sub-grade components of the system, including Interception Trenches, recovery wells, piping, and Injection Trenches for disposition of the treated groundwater, were installed as part of the remediation, the ground surface at the Site was re-graded and the Site is ready for redevelopment without the need to conduct any additional subsurface work that would disrupt the final grade.

■ Future buildings, asphalt-paved parking areas, and landscaped areas will serve as Engineering Controls under a site-wide Deed Notice to minimize direct contact with contaminated Historic Fill that will remain at the Site.

continued 

 **EXCEL**
Environmental
Resources, Inc.

Key Components of EXCEL's Work Scope

- Preparation of Bid Specifications and Requests for Proposals (RFPs) to obtain competitive bids for performance of all phases of the Interim and Site-Wide Remedial Action to select qualified, competitively priced contractors for cost-efficient implementation of the work.
- Construction Management of the Interim and Site-Wide Remedial Action.
- Decontamination and demolition of large-capacity ASTs ranging in size from 75,000 to 6,000,000-gallons in capacity, demolition of associated concrete pads, and removal of associated piping as necessary to access underlying, contaminated soil for excavation.
- Closure of three 10,000-gallon gasoline underground storage tanks and all associated piping.
- Excavation of more than 15,000 tons of soil heavily impacted with oil that was the source of more than 6 feet of free-phase petroleum product on the water table as well as dissolved-phase groundwater contamination.
- Open-excavation recovery of contaminated groundwater and free-phase oil with onsite treatment and re-injection of the treated groundwater.
- Design and installation of a sub-grade Interception Trench and recovery well system that will be operated during and after site redevelopment.



- Overall Project Management to ensure strict adherence to the Remediation work scope, schedule, and costs as necessary to complete all phases of the work within the budget established by the NJRA grants.

Primary Environmental Services Provided by EXCEL

- Preparation of the NJRA Brownfields Redevelopment Initiative Grant Applications and Negotiation of Financial Assistance Packages
- Remedial Action Alternatives Analysis and Cost Estimation
- Remedial Action Work Plan Preparation
- Bid Specification Preparation and Management of Public Bidding Process
- Remediation Construction Management and Overall Project Management
- Aboveground Storage Tank, Equipment, Building, and Concrete Pad Demolition
- Underground Storage Tank Closure
- Excavation and Offsite Disposal of Contaminated Soil
- Open-Excavation Recovery and Onsite Treatment and Re-Injection of Groundwater under a Permit-by-Rule
- Groundwater Recovery and Treatment System Design
- Preparation of Project Documents, including Work Plans, Permit Applications, and Reports

Client

The Bayonne
Economic Development Corporation and
Local Redevelopment Authority



*Solving Environmental Problems
& Creating Redevelopment Opportunities*

111 North Center Drive ■ North Brunswick, NJ 08902

Phone (732) 545-9525 ■ Fax (732) 545-9425

Visit our website at www.excelenv.com

Certified WBE & SBE

Attachment C

Licenses & Certifications



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Certifies That

EXCEL ENVIRONMENTAL RESOURCES INC
111 N CENTER DR
North Brunswick, NJ 08902

*Having duly met the requirements of the
Underground Storage Tank Certification Program
N.J.S.A. 58:10A-24.1-8*

Is hereby approved to perform the following services:

SUBSURFACE EVALUATION

04/30/2021
EXPIRATION DATE

US00675
CERTIFICATION NUMBER

TO BE CONSPICUOUSLY DISPLAYED AT THE FACILITY



State of New Jersey

DEPARTMENT OF TRANSPORTATION
P.O. Box 600
Trenton, New Jersey 08625-0600

PHILIP D. MURPHY
Governor

DIANE GUTIERREZ-SCACCETTI
Commissioner

SHEILA Y. OLIVER
Lt. Governor

April 17, 2020

Lawra Dodge
EXCEL ENVIRONMENTAL RESOURCES INC
111 NORTH CENTER DRIVE
NORTH BRUNSWICK, NJ 08902

RE: Renewal of DBE Certification – Anniversary Date: Annually on April 17
Dear Dodge:

We are pleased to inform you that your firm has been found eligible to continue as a Disadvantaged Business Enterprise (DBE) by the New Jersey Department of Transportation on behalf of the New Jersey Unified Certified Program (NJUCP).

Your certification status with the NJUCP will remain in effect as long as your firm continues to meet the DBE program's eligibility requirements outlined in U.S. Department of Transportation, Code of Federal Regulations Title 49 CFR Part 26. However, on an annual basis, you must submit the "No Change Affidavit" and supporting documents.

Additionally, if any time during the year there is a change in your firm, it is your obligation to notify this agency, in writing, within (30) days. Changes include, but are not limited to: ownership, and /or control, officers, directors, management, key personnel, scope of work performed, daily operations, ongoing business relationships with other firms or individuals, or the physical location of your firm. Failure to do so may result in the removal of your DBE Certification in accordance with §26.83(j) and §26.109(c).

The following table lists the North American Industry Classification System (NAICS) code(s) and description(s) that have been assigned to your business in accordance with the service(s) it render(s).

NAICS: Specialty Description

NAICS 541620: ENVIRONMENTAL CONSULTING SERVICES
NAICS 562910: REMEDIATION SERVICES

Your firm will be listed in the NJUCP Directory which can be accessed at <https://njucp.dbesystem.com>.

If you have any questions regarding your DBE certification, you may email NJDOT's Disadvantaged and Small Business Program Unit at DOT.DBESBEPPrograms@dot.nj.gov or call (609) 963-2051.

Sincerely,

Lydia Harper, Supervisor
Disadvantaged and Small Business Program Unit
Division of Civil Rights & Affirmative Action



State of New Jersey

PHIL MURPHY
Governor

DEPARTMENT OF THE TREASURY
DIVISION OF REVENUE & ENTERPRISE SERVICES
P.O. BOX 026

SHEILA OLIVER
Lt. Governor

TRENTON, NJ 08625-034
PHONE: 609-292-2146 FAX: 609-984-6679

ELIZABETH MAHER MUOIO
State Treasurer

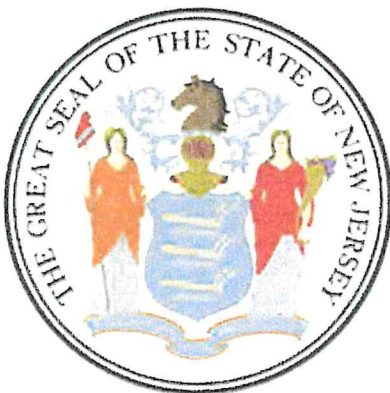
APPROVED

under the
Small Business Set-Aside Act

This certificate acknowledges EXCEL ENVIRONMENTAL RESOURCES, INC. as a Category 2 approved Small Business (SBE) that has met the criteria established by N.J.A.C. 17:13 and/or 17:14..

This registration will remain in effect for three years. Annually the business must submit, not more than 60 days prior to the anniversary of the registration notice, an annual verification statement in which it shall attest that there is no change in the ownership, revenue eligibility or control of that business.

If the business fails to submit the annual verification statement by the anniversary date, the SBE registration will lapse and the business SBE status will be revoked in the New Jersey Selective Assistance Vendor information (NJSAVI) database that lists registered Small businesses. If the business seeks to be registered again, it will have to reapply and complete a new application



Peter Lowicki
Deputy Director

Issued: 8/6/2020
Certification Number: A0118-92

Expiration: 8/6/2023



State of New Jersey

PHIL MURPHY
Governor

DEPARTMENT OF THE TREASURY
DIVISION OF REVENUE & ENTERPRISE SERVICES
P.O. BOX 026

SHEILA OLIVER
Lt. Governor

TRENTON, NJ 08625-034
PHONE: 609-292-2146 FAX: 609-984-6679

ELIZABETH MAHER MUOIO
State Treasurer

APPROVED

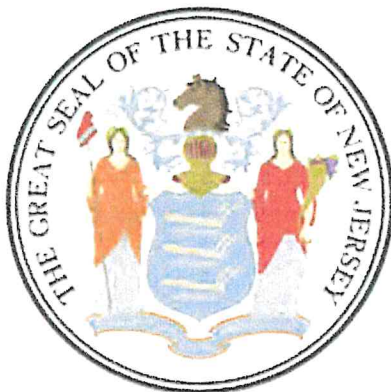
under the

Small Business Set-Aside Act and Minority and Women Certification Program

This certificate acknowledges EXCEL ENVIRONMENTAL RESOURCES, INC. is a WBE owned and controlled company, which has met the criteria established by N.J.A.C. 17:46..

This registration will remain in effect for three years. Annually the business must submit, not more than 60 days prior to the anniversary of the certification approval, an annual verification statement in which it shall attest that there is no change in the ownership, control or any other factor of the business affecting eligibility for certification as a minority or women-owned business.

If the business fails to submit the annual verification statement by the anniversary date, the certification will lapse and the business will be removed from the SAVI that lists certified minority and women-owned businesses. If the business seeks to be certified again, it will have to reapply and pay the \$100 application fee. In this case, a new application must be submitted prior to the expiration date of this certification.



Peter Lowicki
Deputy Director

Issued: 9/14/2020
Certification Number: A0118-91

Expiration: 9/14/2023

THE PORT AUTHORITY OF NY & NJ

John Degnan
Chairman

Patrick J. Foye
Executive Director

***Excel Environmental
Resources, Inc.***

This certificate acknowledges that the above-named firm is certified as a Woman-owned Business Enterprise.

Certification Date: April 12, 2016
Re-Evaluation Date: April 12, 2021

Lash Green

Lash Green, Director
Office of Business Diversity and Civil Rights



WOMEN'S BUSINESS ENTERPRISE
NATIONAL COUNCIL

JOIN FORCES. SUCCEED TOGETHER.

hereby grants

National Women's Business Enterprise Certification

to

EXCEL ENVIRONMENTAL RESOURCES INC

who has successfully met WBENC's standards as a Women's Business Enterprise (WBE).
This certification affirms the business is woman-owned, operated and controlled and is valid through the date herein.

Certification Granted: August 5, 2015

Expiration Date: August 5, 2021

WBENC National Certification Number: 2005127204

WBENC National WBE Certification was processed and validated by Women President's Educational Organization - NY, a WBENC Regional Partner Organization.

Marsha Firestone, Ph.D.

Marsha Firestone, President & Founder Women
President's Educational Organization - NY



WOMEN PRESIDENTS'
Educational Organization®

NAICS: 541620, 541330, 562910

UNSPSC: 77000000, 77100000, 77101505, 77101700, 77101701, 77101704, 77102000

Center for Women & Enterprise

Great Lakes
Women's
Business
COUNCIL

GREATER
WOMEN'S
BUSINESS
COUNCIL

WOMEN'S
BUSINESS
COUNCIL
SOUTHWEST

WOMEN'S
BUSINESS
DEVELOPMENT
CENTER

WBEA

WBENC EAST
WOMEN'S BUSINESS ENTERPRISE COUNCIL

WBENC FLORIDA
WOMEN'S BUSINESS ENTERPRISE COUNCIL

WBENC OHIO
WOMEN'S BUSINESS ENTERPRISE COUNCIL
OHIO RIVER VALLEY

WBENC PACIFIC
WOMEN'S BUSINESS ENTERPRISE COUNCIL

WBENC SOUTH
WOMEN'S BUSINESS ENTERPRISE COUNCIL

WBENC WEST
WOMEN'S BUSINESS ENTERPRISE COUNCIL



WBE Certificate

Excel Environmental Resources, Inc.

This certificate acknowledges that this company has met the criteria as established by the WBE Program at the NYC Department of Small Business Services and is therefore certified as a Woman-owned Business Enterprise (WBE).

Certificate Number

MWCERT2018-1371

Expires on

4/30/2021

Bill de Blasio

Bill de Blasio, Mayor

Gregg Bishop

Gregg Bishop, Commissioner



State of New Jersey
SITE REMEDIATION PROFESSIONAL LICENSING BOARD

Mail Code 401-06
P.O. Box 420
Trenton, NJ 08625-0420

Tel. 609-292-1250
Fax 609-777-1914
Web: www.nj.gov/lsrpboard

Chris Christie, Governor
Kim Guadagno, Lt. Governor

EXCEL ENVIRONMENTAL RESOURCES INC
LAWRA J DODGE
111 N CENTER DR
NORTH BRUNSWICK, NJ 08902
Permanent License No.: 575217
May 5, 2018

Board Members

Mark J. Pedersen, *Chairman*
Joann Held, *Vice-Chairman*
Jorge Berkowitz
Philip Brilliant
Lawra Dodge
Joseph Fallon
Jeffrey Hoffman
Christopher Motta
Kathi Stetser
Peter Strom
Constantine Tsentas
Ira Whitman

Dear LAWRA J DODGE

The New Jersey Site Remediation Professional Licensing Board is pleased to send you the enclosed updated wallet card which reflects your new license expiration date. The Board is proud of the role it plays in the licensing of LSRPs, and in the advancement of site remediation in New Jersey under the Site Remediation Reform Act.

For more information about Board activities, approved courses and other pertinent matters, please visit our website at www.nj.gov/lsrpboard. Keep in mind that members of the public are invited and encouraged to attend Board meetings which generally occur the first Monday of each month in Trenton, New Jersey. Be sure to check the Board website for details and updates.

Should you have any questions concerning your license, please feel free to contact me at the number above.

Sincerely,

Janine MacGregor
Executive Director

Enclosure



Hereby Certifies:

LAWRA J DODGE

as a LICENSED SITE REMEDIATION PROFESSIONAL
as provided by the
Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.

License #: 575217

Expires: 7/9/2021



State of New Jersey
SITE REMEDIATION PROFESSIONAL LICENSING BOARD

Mail Code 401-06
P.O. Box 420
Trenton, NJ 08625-0420

Tel. 609-292-1250
Fax 609-777-1914
Web: www.nj.gov/lrspboard

Chris Christie, Governor
Kim Guadagno, Lt. Governor

EXCEL ENVIRONMENTAL RESOURCES INC
RONALD A HARWOOD
111 N CENTER DR
NORTH BRUNSWICK, NJ 08902
Permanent License No.: 575016
May 5, 2018

Board Members

Mark J. Pedersen, *Chairman*
Joann Held, *Vice-Chairman*
Jorge Berkowitz
Philip Brilliant
Lawra Dodge
Joseph Fallon
Jeffrey Hoffman
Christopher Motta
Kathi Stetser
Peter Strom
Constantine Tsentas
Ira Whitman

Dear RONALD A HARWOOD

The New Jersey Site Remediation Professional Licensing Board is pleased to send you the enclosed updated wallet card which reflects your new license expiration date. The Board is proud of the role it plays in the licensing of LSRPs, and in the advancement of site remediation in New Jersey under the Site Remediation Reform Act.

For more information about Board activities, approved courses and other pertinent matters, please visit our website at www.nj.gov/lrspboard. Keep in mind that members of the public are invited and encouraged to attend Board meetings which generally occur the first Monday of each month in Trenton, New Jersey. Be sure to check the Board website for details and updates.

Should you have any questions concerning your license, please feel free to contact me at the number above.

Sincerely,

Janine MacGregor
Executive Director

Enclosure



Hereby Certifies:

RONALD A HARWOOD

as a LICENSED SITE REMEDIATION PROFESSIONAL
as provided by the
Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.

License #: 575016

Expires: 7/9/2021



State of New Jersey
SITE REMEDIATION PROFESSIONAL LICENSING BOARD

Mail Code 401-06
P.O. Box 420
Trenton, NJ 08625-0420

Tel. 609-292-1250
Fax 609-777-1914
Web: www.nj.gov/lsrpboard

Chris Christie, Governor
Kim Guadagno, Lt. Governor

EXCEL ENVIRONMENTAL RESOURCES INC

ERIC J MERTZ

111 N CENTER DR

NORTH BRUNSWICK, NJ 08902

Permanent License No.: 575025

May 5, 2018

Board Members

Mark J. Pedersen, *Chairman*
Joann Held, *Vice-Chairman*
Jorge Berkowitz
Philip Brilliant
Lawra Dodge
Joseph Fallon
Jeffrey Hoffman
Christopher Motta
Kathi Stetser
Peter Strom
Constantine Tsentas
Ira Whitman

Dear ERIC J MERTZ

The New Jersey Site Remediation Professional Licensing Board is pleased to send you the enclosed updated wallet card which reflects your new license expiration date. The Board is proud of the role it plays in the licensing of LSRPs, and in the advancement of site remediation in New Jersey under the Site Remediation Reform Act.

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Should you have any questions concerning your license, please feel free to contact me at the number above.

Sincerely,

Janine MacGregor
Executive Director

Enclosure



Hereby Certifies:

ERIC J MERTZ

as a LICENSED SITE REMEDIATION PROFESSIONAL
as provided by the
Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.

License #: 575025

Expires: 7/9/2021



State of New Jersey
SITE REMEDIATION PROFESSIONAL LICENSING BOARD

Mail Code 401-06
P.O. Box 420
Trenton, NJ 08625-0420

Tel. 609-292-1250
Fax 609-777-1914
Web: www.nj.gov/lspbboard

Chris Christie, Governor
Kim Guadagno, Lt. Governor

EXCEL ENVIRONMENTAL RESOURCES INC
MICHAEL J MERINEY
111 N CENTER DR
NORTH BRUNSWICK, NJ 08902
Permanent License No.: 575023
May 5, 2018

Board Members

Mark J. Pedersen, *Chairman*
Joann Held, *Vice-Chairman*
Jorge Berkowitz
Philip Brilliant
Lawra Dodge
Joseph Fallon
Jeffrey Hoffman
Christopher Motta
Kathi Stetser
Peter Strom
Constantine Tsentas
Ira Whitman

Dear MICHAEL J MERINEY

The New Jersey Site Remediation Professional Licensing Board is pleased to send you the enclosed updated wallet card which reflects your new license expiration date. The Board is proud of the role it plays in the licensing of LSRPs, and in the advancement of site remediation in New Jersey under the Site Remediation Reform Act.

For more information about Board activities, approved courses and other pertinent matters, please visit our website at www.nj.gov/lspbboard. Keep in mind that members of the public are invited and encouraged to attend Board meetings which generally occur the first Monday of each month in Trenton, New Jersey. Be sure to check the Board website for details and updates.

Should you have any questions concerning your license, please feel free to contact me at the number above.

Sincerely,

Janine MacGregor
Executive Director

Enclosure



Hereby Certifies:

MICHAEL J MERINEY

as a LICENSED SITE REMEDIATION PROFESSIONAL
as provided by the

Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.

License #: 575023

Expires: 7/9/2021



State of New Jersey
SITE REMEDIATION PROFESSIONAL LICENSING BOARD

401 East State Street
P.O. Box 420
Mail Code 401-06
Trenton, NJ 08625-0420

Tel. 609-292-1250
Fax 609-777-1914
Web: www.nj.gov/lsrcpbboard

Philip D. Murphy, Governor
Sheila Y. Oliver, Lt. Governor

MATTHEW J MAURO
17 TINDALL RD
MIDDLETOWN, NJ 07748
Permanent License No.: 575022
July 1, 2018

Board Members

Mark J. Pedersen, *Chairperson*
Joann Held, *Vice-Chairperson*
Jorge Berkowitz
Philip Brilliant
Lawra Dodge
Jeffrey Hoffman
Christopher Motta
Kathi Stetser
Peter Strom
Constantine Tsentas
Ira Whitman

Dear MATTHEW J MAURO

The New Jersey Site Remediation Professional Licensing Board is pleased to send you the enclosed updated wallet card which reflects your new license expiration date. The Board is proud of the role it plays in the licensing of LSRPs, and in the advancement of site remediation in New Jersey under the Site Remediation Reform Act.

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Should you have any questions concerning your license, please feel free to contact me at the number above.

Sincerely,

Janine MacGregor
Executive Director

Enclosure



Hereby Certifies:

MATTHEW J MAURO

as a LICENSED SITE REMEDIATION PROFESSIONAL
as provided by the

Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.

License #: 575022

Expires: 7/9/2021