

INVESTIGATION / REMEDIATION / BROWNFIELDS

Representative Project Experience

KEY

<p>Contaminants CVOC = Chlorinated Volatile Organic Compounds VOC = Volatile Organic Compounds SVOC = Semi-Volatile Organic Compounds PCB = Polychlorinated Biphenyls Metals = Heavy Metals</p>	<p>Scope of Work RI/FS = Remedial Investigation / Feasibility Study P1 = Phase I Environmental Site Assessment P2 = Phase II Environmental Site Investigation BA = Brownfield Assessment DA = Delineation Assessment RA = Risk Assessment RWP/CAP = Remedial Workplan / Corrective Action Plan Phyto = Phytoremediation PH = Petroleum Hydrocarbons RD = Remedial Design SR = Soil Removal AS/SVE = Air Sparge/Soil Vapor Extraction HVDPE = High Vacuum Dual Phase Extraction CT = Chemical Treatment</p>
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Client	Genuine Parts
Facility Type	Former Auto Parts Manufacturing Facility
Contaminants of Concern	CVOC, SVOC, Metals
Impacted Media	Soil, Groundwater, Sediment, Surface Water, Buried Waste and Drums
Regulatory Program	VRP
Scope of Work	RI/FS, Removal Action, Remediation System Installation and Operation, Geophysical surveys, Human Health and Ecological Risk Assessments
Project Description	KERAMIDA removed over 10,000 tons of contaminated soil and buried wastes, and conducted human health and ecological risk assessments. KERAMIDA also installed/started an air sparge/SVE remediation system, and implemented phytoremediation. An off-site chlorinated solvent plume required a risk assessment with fate and transport modeling and an exposure prevention remedy.

Client	International Electronic Manufacturer
Facility Type	Former Munitions Manufacturing Facility (60+ acre site)
Contaminants of Concern	VOC, SVOC, PCB, Metals, UXO, NORM
Impacted Media	Soil, Groundwater, Sediment, Buried Waste and Drums
Regulatory Program	IDEM VRP
Scope of Work	Project Director for RI/FS, UXO Characterization and Removal, Radiation Surveys, Geophysical Surveys, Ecological Assessment
Project Description	KERAMIDA completed the complex RI/FS within 6 months. The environmental concerns included buried ordnance and drums, radioactive fill materials, PCBs, chlorinated solvents, and petroleum products.

Client	TERF Board (Board consists of elected officials – Mayors & County Commissioners)
Facility Type	Superfund Site, 70-acre Landfill
Contaminants of Concern	Metals, Inorganics, Organics
Impacted Media	Soil, Groundwater, Sediment
Regulatory Program	Superfund
Scope of Work	Oversight of RI/FS, Remedial Design, and Remedy Construction
Project Description	KERAMIDA achieved record-time agreements with IDEM and U.S. EPA and completed the remedy in record-time as well. The remedy included building a cap, collecting and managing leachate and gas, building wetlands, and long-term monitoring of two aquifers. The remedial construction was completed and the operation & maintenance is on-going.

Client	City of Indianapolis
Facility Type	Trucking Facilities, Gas Station, Car Repair Facilities
Contaminants of Concern	CVOC, Petroleum
Impacted Media	Soil, Groundwater
Regulatory Program	Brownfields
Scope of Work	P1, P2, Remedial Evaluations, RA
Project Description	KERAMIDA proposed and implemented an innovative strategy under the Brownfields Program. KERAMIDA performed a Risk Assessment for Exposure Prevention Remedy in a Wellhead Protection Area. IDEM issued the first Brownfields "Comfort Letter", which KERAMIDA drafted in collaboration with the City's Attorneys, at the request of IDEM.

Client	City of Indianapolis
Facility Type	Cement Block Manufacturing
Contaminants of Concern	Metals, SVOC, VOC, Petroleum
Impacted Media	Soil, Groundwater
Regulatory Program	Brownfields LUST
Scope of Work	P1, P2, DA, UST Closure
Project Description	This was the first Brownfield Cooperation Project for the EPA's Brownfield Field Team. KERAMIDA worked with, and supervised, EPA's crew. KERAMIDA also did independent work at the Site. Reuse provided restaurants and commercial space to the neighborhood.

Client	City of West Lafayette
Facility Type	Department Store / Landfill
Contaminants of Concern	CVOC, Petroleum, Metals
Impacted Media	Soil, Groundwater
Regulatory Program	Voluntary Action
Scope of Work	P1, P2, UST Removal, SR, Asbestos
Project Description	KERAMIDA completed the remediation of soil impacts resulting from leaking USTs during the redevelopment of the former department store/landfill site

Client	City of Garrett
Facility Type	Foundry
Contaminants of Concern	CVOC, Petroleum, Metals, PCB
Impacted Media	Soil, Groundwater
Regulatory Program	Brownfields
Scope of Work	P1, P2/BA, Asbestos Survey
Project Description	State Grant. Plans for Redevelopment. A "Comfort Letter" has been received.

Client	Central Soya
Facility Type	Food Products Manufacturer
Contaminants of Concern	Hexane
Impacted Media	Soil, Groundwater, Sediment
Regulatory Program	VRP
Scope of Work	DA, RWP, Closure Report
Project Description	This project required KERAMIDA to perform the calculation of a site-specific cleanup goal and the modeling of hexane to the adjacent river. The Certificate of Completion was received.

Client	Confidential Client
Facility Type	Old Manufactured Gas Plant
Contaminants of Concern	VOC, SVOC, Metals, Tars, Cyanide, Ammonia
Impacted Media	Soil, Groundwater, Industrial Wastewater
Regulatory Program	Private Action
Scope of Work	P1, P2, DA, RA, RD, CT Decontamination, Asbestos Removal, Demolition, Waste Removal, Site Cleanup
Project Description	KERAMIDA conducted a complete evaluation, decontamination, demolition and cleanup of this large MGP site. KERAMIDA's unique treatment of high benzene wastes allowed a cost-effective disposal.

Client	Tomasco, Inc.
Facility Type	Auto Parts Manufacturing
Contaminants of Concern	CVOC, Petroleum
Impacted Media	Soil, Groundwater
Regulatory Program	Brownfields
Scope of Work	P1, P2/BA
Project Description	A "Comfort Letter" was received. Reuse provided 300 new jobs.

Client	Wayne County
Facility Type	Gray Iron Foundry
Contaminants of Concern	SVOC, Foundry Wastes
Impacted Media	Soil, Groundwater
Regulatory Program	Brownfields
Scope of Work	P1, BA, Asbestos Survey, UST Closure, RA, Foundry Waste Removal
Project Description	KERAMIDA managed the asbestos abatement and foundry waste removal during the demolition of the foundry. KERAMIDA also completed a site-specific risk assessment to confirm that the detected contamination would not pose an unacceptable risk to human health, assuming a jail would be constructed on the property. A "Comfort Letter" was received.

Client	Confidential Client
Facility Type	Various Sites around United States / Truck Maintenance Facilities
Contaminants of Concern	CVOC, Petroleum, Metals
Impacted Media	Soil, Groundwater
Regulatory Program	State VRP, LUST, RCRA at various States
Scope of Work	P1, P2, DA
Project Description	KERAMIDA provides due diligence services for property transactions across the U.S. for this client.

Client	City of Union City
Facility Type	Truck Body Manufacturer
Contaminants of Concern	VOC, SVOC, PCB, Metals
Impacted Media	Soil, Groundwater
Regulatory Program	Brownfields
Scope of Work	P1, P2/BA, Asbestos Survey
Project Description	State Grant. Redevelopment in process. A "Comfort Letter" was received.

Client	Precision Plastics
Facility Type	Manufacturing
Contaminants of Concern	CVOC
Impacted Media	Soil, Groundwater
Regulatory Program	RCRA/VRP
Scope of Work	RWP/CAP
Project Description	IDEM accepted KERAMIDA's unique approach of taking soils through RCRA clean closure, and groundwater through corrective action. A Risk Assessment was used. The Site will eventually receive RCRA closure and a VRP certificate. This was the first site to undergo RCRA/VRP oversight.

Client	Bank One
Facility Type	Gas Station
Contaminants of Concern	Petroleum
Impacted Media	Soil, Groundwater
Regulatory Program	VRP
Scope of Work	P1, P2, DA, RWP, CAP, UST Removal, SR
Project Description	KERAMIDA has to coordinate the remediation with bank operations because the Bank had to remain open during remedial activities.

Client	Confidential Client
Facility Type	Stainless Steel Mill
Contaminants of Concern	CVOC, PH, Metals, Anions
Impacted Media	Soil, Groundwater
Regulatory Program	VRP, RCRA
Scope of Work	DA, RA, RWP
Project Description	KERAMIDA used risk assessment and groundwater modeling to demonstrate the absence of unacceptable risk to human health and ecological receptors. Joint VRP and RCRA oversight.