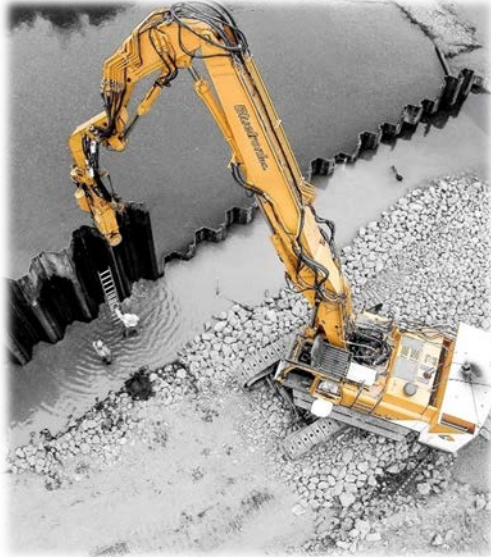


# BLUE IRON



## Flood & Storm Water Emergency Scope of Services

### EMERGENCY CONTACTS:

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## Flood & Storm Water Scope of Services

Blue Iron is a full service General Engineering Contractor and is the US leading provider of sheet pile installation utilizing **Vibration & Percussive free methods**. The ability to install sheet pile without the use of Vibration is critical within levee systems to eliminate liquefaction which could potentially cause further damage to the integrity of the system. The full scope of services Blue Iron is readily equipped to provide in the event of an emergency include but not limited to:

- ✓ Sheet Pile Installation utilizing Giken Silent Piler
- ✓ All types of Sheeting ~ Shoring ~ Bracing
- ✓ Earthen Embankments
  - Placement & compaction of engineered fill
  - Placement of rock & rip rap
- ✓ Pumping/Dewatering/Unwatering

### Additional Factors:

- ✓ Centrally located in West Sacramento and can access the Bay Area & Central Valley within hours
- ✓ Extensive fleet of Equipment
  - Giken Silent Pilers – Vibration & Percussive Free
  - ABI Mobil Ram & Hanging Vibros
  - Excavators
  - Loaders
- ✓ Inventory of Interlocking Sheet pile available to be loaded on a truck in minutes.

### CALIFORNIA AQUADUCT - EMERGENCY SEEPAGE REPAIR

- 1. Project Title & Location:** Emergency Seepage Repair Los Banos, CA
- 2. Reference:** Department of Water Resources
- 3. Reference POC:** Armando Lopez, Project Manager, 916-216-4459
- 4. Description:** Installed 1,000 LF of 60’ long sheet
- 5. Repair:** Blue Iron installed sheet pile utilizing the Giken Silent Piler along the California aquaduct to remediate a seepage thru the levee. Previous repair attempts included placing engineered fill and rock all without remediating the seep. After the sheet pile was installed they were able to stop pumping water as the sheet pile successfully cut off the seepage.



### STATEN ISLAND - EMERGENCY SEEPAGE REPAIR

- 1. Project Title & Location:** Staten Island
- 2. Reference:** Galindo Construction
- 3. Reference POC:** Ron Galindo 916-997-2735
- 4. Description:** Installation of 100 LF of 40 ft sheet pile
- 5. Repair:** Blue Iron was called and responded with equipment and materials within 24 hours to the call to install sheet pile due to a seepage in the levee threatening California crops. We were able to work multiple shifts to cut off the leakage thru the levee and successful save the area from a massive costs due to damage that would have been caused had the levee breached.



### MERIDIAN EMERGENCY DRAINAGE COLLAPSE

- 1. Project Title & Location:** Meridian, MS
- 2. Reference:** Hemphill Construction
- 3. Reference POC:** Tim Temple VP 601-932-2060
- 4. Description:** Installation of 200LF of 60ft long sheet pile
- 5. Repair:** Blue Iron was hired under an emergency response contract to Hemphill Construction under direction of the City of Biloxi, MS to install 200LF of steel sheeting. A large corrugated metal drain pipe had collapsed in very close proximity to an existing restaurant. The Press-In method was used because vibration would have caused the unstable slope to collapse. The sheeting was installed in 4 days over the Thanksgiving Holiday.



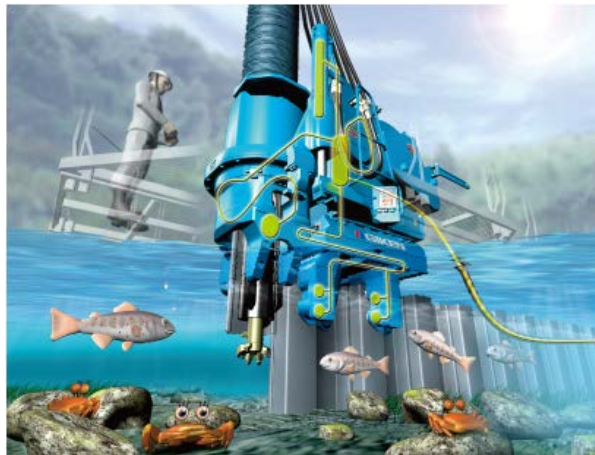
### LONDON AVENUE CANAL – SEEPAGE REMEDIATION

- 1. Project Title & Location:** London Avenue Canal
- 2. Reference:** US Army Corps of Engineers
- 3. Reference POC:** Chuck Brannon 504-862-2263
- 4. Description:** Installation of 14,000LF of steel sheeting for cutoff
- 5. Repair:** Blue Iron installed sheet pile utilizing Vibration Free methods directly adjacent to the existing floodwall to minimize seepage concerns along the floodwall. The sheet piles were driven thru dense sands and buried tree stumps without to provide water cut off.





- **The Press-In Difference** - The Giken Silent Piler is a unique sheet pile installation machine that utilizes hydraulic forces to install and remove sheet pile. Unlike conventional pile driving, this system is free from vibrations and excessive noise.
  - The press-in method reduces ground disturbances and voids created by other pile driving methods, eliminating damage to nearby structures.
  - This technology provides the capability to install sheet pile in sensitive areas where excessive vibration and noise would negatively impact nearby occupants, underground infrastructure & levees, or wildlife.
  - The small footprint of the equipment allows installation of sheet pile in locations where space is limited or access is unavailable for conventional equipment.



### Press-in Principle

- Press-in Force
- Press-in Resistance
- Lifting Force
- Reaction Force

