



CAPABILITIES STATEMENT

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Need a quote for a project?

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Interested in a technical presentation about hydrodemolition?

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COMPANY OVERVIEW

FEDERALLY REGISTERED SMALL BUSINESS

Aggregate Technologies is a federally registered small business specializing in HydroDemolition services, water treatment, advanced selective concrete demolition, concrete cutting, concrete removal, and robotic demolition. With a proven track record across industrial, commercial, transportation, and nuclear sectors, we deliver precision, safety, and results on the most demanding projects in the country. We partner with clients through in-depth consultation, drawing on decades of field experience and a strong history of successful project execution in highconsequence regulated environments. We also work in DOE, DOD, and NRC governed facilities.

CORE CAPABILITIES

- HYDRODEMOLITION**
Computer-guided, high-pressure robotic HydroDemolition – vibration-free, no micro-cracks, no rebar damage. Aqua Cutter & Hammelman systems.
- REMOTE OPERATIONS & STANDOFF CONTROL**
Remote-operated robotic systems – equipment controlled from a secure external station, enabling continuous work in controlled or restricted-access zones, limiting personnel entry.
- PRECISION CUTTING & SELECTIVE DEMOLITION**
Advanced selective concrete demolition in controlled, regulated, and confined environments. Wall, wire, and slab sawing to exact tolerances.
- ADVANCED ROBOTIC OPERATIONS**
Brokk robotic demolition for confined spaces and zero-emission environments. Personnel factory-trained and certified in operation and repair.
- PROJECT MANAGEMENT & COMPLIANCE**
End-to-end project management across industrial, commercial, and nuclear sectors. Personnel hold security clearances. Full compliance with DOE, DOD, NRC, OSHA, and EPA.

SERVICES

- HydroDemolition** - Computer-guided, high- pressure robotic concrete removal that captures silica dust at the source - protecting operators from airborne exposure. Robotic execution eliminates personnel risk in hazardous environments, performs significantly faster than mechanical methods, and produces a superior aggregateexposed bonding surface that exceeds mechanical scarification standards.
- Water Treatment** – On-site filtration of hydrodemolition effluent; up to 70% water reclamation; Discharge to pH 6+
- GPR Scanning & Ground Penetrating Radar** - Pre-pour scanning, rebar mapping, utility detection
- Selective Demolition** - Elevated & non-elevated structures, bridges, highways, runways, parking structures
- Robotic Demolition (Brokk)** - Confined space, zero-emission, operator-safe environments
- Core Drilling** - Hydraulic, electric, and air-powered; any diameter and depth
- Wall Sawing** - Precision openings for doors, vents, and windows; electric, hydraulic, or air
- Slab Sawing** - Full-depth and indoor applications; electric for zero-emission environments
- Wire Sawing** - Large-section removal of heavily reinforced concrete; restricted access areas
- Pile Cutting** – Concrete, steel, and metal piles cut to 1/8" tolerance using patented PCM equipment



MARKETS SERVED

- Civil Engineering
- Petrochemical
- Ports, Piers & Wharves
- Mines
- Locks & Dams
- Hospitals & Medical
- Universities & Colleges
- Heavy Industrial
- Railroad & Highway Bridges
- Offshore & Underwater
- Paper & Steel Mills
- Commercial Buildings
- Manufacturing Facilities
- Nuclear

CREDENTIALS & COMPLIANCE

HIGHLY CREDENTIALLED WORKFORCE

All ATI field personnel hold current industry certifications and undergo thorough pre-employment screening including background verification and drug testing, with ongoing randomized drug screenings. Security clearances maintained for DOE, DOD, and NRC-regulated environments.

-  **DOE General Employee Training (GET)**
Certified for unescorted access to Hazard Category 1, 2, and 3 nuclear facilities.
-  **Personnel Security Clearances**
Active clearances and clearance-eligible personnel through DCSA/NBIS.
- OSHA 10/30 Certified Operators
- TWIC Certified Operators
- MSHA Certified
- Brokk Certified Operators
- CSDA 101/201 — Saw Cutting & Drilling
- HASC — Confined Space, Scaffold, Lifts
- AquaJet Certified Operators & Trainers
- ISNET, Avetta, DISA, High Wire

CREDENTIALS & COMPLIANCE

ACTIVE CONTRACT — NUCLEAR SECTOR

U.S. DOE NUCLEAR FACILITY EXPANSION PROJECT

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CLIENT: ConfidentialPrime **VALUE:** Undisclosed **SERVICE:** HydroDemolition **TIMELINE:** ACTIVE — Ongoing

Regulatory Environment: U.S. Department of Energy nuclear facility — among the most stringently regulated environments in the United States. All work performed in full conformance with DOE Order 414.1, applicable NRC standards, and site-specific radiological and environmental control plans. This active engagement demonstrates Aggregate Technologies' verified capability to execute high-consequence HydroDemolition within nuclear construction programs.

HOUSTON SHIP CHANNEL

\$6.3M

Ship Channel Contractors | 2022–2024

Scope: Wire sawing of four structural columns (60'x40' each, exceeding 140 ft in height) disassembled due to standard rebar spacing. Scope included foundation repair, hydro blasting of a 5-ft-thick foundation slab, and deployment of the ATI Water Treatment System — effluent treated to pH 6 with 70% water reclamation.

DUKE ENERGY DAM — UNDERWATER HYDRODEMOLITION

\$300k

Mainstream Diving | 2022–2023

South Carolina Scope: Underwater HydroDemolition along a precise 30° bevel on the dam face to accommodate new gate installation. Executed using high-pressure water jet technology — structural integrity preserved throughout with minimal debris impact.

CHINO MINES — SAG MILL HYDRODEMOLITION

\$1.6M

Freeport McMoRan | 2023–2024

Scope: HydroDemolition of SAG mill units during a scheduled plant shutdown — approximately 300 cubic yards of material removed. High-pressure water jet methodology minimized airborne dust and debris while protecting adjacent infrastructure.







MDACC DENTAL CENTER — FULL STRUCTURAL DEMOLITION

\$156k

AAR | 2020

Scope: Complete demolition of a three-story structure utilizing Brokk robotic equipment — systematic removal of roof and all floor assemblies with controlled precision.

DIFFERENTIATORS

-  **UNPARALLELED INDUSTRY EXPERTISE**
Decades of field experience delivering precision concrete demolition on the most technically complex and heavily regulated projects in the country.
-  **CUTTING-EDGE TECHNOLOGY**
Proprietary methods and tools for precision concrete removal, selective demolition, and water capture. The most advanced equipment available HydroDemolition robotics (Aqua Cutter, Hammelman) and Brokk systems.
-  **HIGHLY CREDENTIALLED WORKFORCE**
OSHA, CSDA, TWIC, MSHA, AquaJet, Brokk, and HASC certifications held across the field team. Security clearances maintained for DOE, DOD, and NRC operations.
-  **ACTIVE NUCLEAR SECTOR TRACK RECORD**
Currently engaged under an active contract at a U.S. DOE nuclear facility — demonstrating verified performance in one of the most regulated nuclear environments in the United States.
-  **REGULATORY RIGOR & SAFETY LEADERSHIP**
Full conformance with NRC, DOT, OSHA, EPA, and DOE standards on every project. A consistent record of meeting and exceeding regulatory benchmarks across all operating environments.
-  **REMOTE OPERATIONS & STANDOFF CONTROL**
Remote-operated robotic systems — equipment controlled from a secure external station, enabling continuous work in controlled or restricted-access zones, limiting personnel entry.