

ENVIRONMENTAL SERVICES





DELIVERED
BY **INSPIRED**
EMPLOYEES

BUILD. MAINTAIN. RESTORE. SUSTAIN.

At APTIM, knowledge and experience converge to make us the ideal fit for your build, restoration, maintenance, or compliance projects. We are the smart, safe choice for your environmental compliance needs.

Thinking differently and challenging the norm is our mandate. Every day we plan for the unexpected, and offer strategic and critical insights and deliver new, creative, adaptive solutions.

APTIM is your relentless advocate. We execute your initiatives and protect your resources.

5,000+
EMPLOYEES
WORLDWIDE

OVERVIEW

WE PROVIDE INTEGRATED FIELD SERVICES INCLUDING:

Construction, maintenance, turnaround, and specialty services, supplemented by our full service capability to handle essentially any project – environmental to EPFC.

5,000+

EMPLOYEES WORLDWIDE

1,000

EMPLOYEES IN ENVIRONMENTAL SERVICES

80+

DOMESTIC OFFICES



ENVIRONMENTAL SERVICES OVERVIEW

OUR COMPREHENSIVE ENVIRONMENTAL SERVICES ADD VALUE THROUGHOUT THE PROJECT LIFE CYCLE

PROJECT PLANNING

- ▶ Site selection and due diligence
- ▶ Multi-media
- ▶ Permitting
- ▶ Natural resource studies
- ▶ Marine studies
- ▶ Civil and geotechnical engineering
- ▶ Traffic studies
- ▶ Noise studies
- ▶ FAA notifications

CONSTRUCTION

- ▶ Civil and environmental construction
- ▶ Plant construction
- ▶ Construction management
- ▶ Stormwater management
- ▶ DOT permitting
- ▶ Foundation engineering and dam repair
- ▶ Pre-construction permitting

OPERATIONS

- ▶ Operating permit application
- ▶ Environmental compliance
- ▶ Waste management
- ▶ Maintenance
- ▶ Operation and Maintenance (O&M)
- ▶ Waste treatment and disposal
- ▶ Water treatment
- ▶ Emergency response
- ▶ Hurricane response

PROJECT CLOSURE

- ▶ Remediation
- ▶ Decommissioning
- ▶ Demolition oversight
- ▶ Ship and D&D general capabilities

ENGINEERING DESIGN

- ▶ Architectural
- ▶ Civil
- ▶ Structural
- ▶ Electrical
- ▶ Process



DUE DILIGENCE, SITE ASSESSMENT, REMEDIATION, AND CLOSURE

PHASE I: DUE DILIGENCE

- ▶ Impound and landfill closure
- ▶ Use and operational restrictions
- ▶ Development incentives
- ▶ Baseline site assessments

ASTM PHASE I: DUE DILIGENCE

- ▶ Universal waste
- ▶ Asbestos and lead surveys
- ▶ Site assessments to delineate contaminant nature & extent
- ▶ Groundwater modeling
- ▶ Risk assessments/risk based closure
- ▶ Environmental controls
- ▶ Litigation support
- ▶ Vapor intrusion assessments/modeling
- ▶ Remedial action investigations and planning
- ▶ Feasibility studies
- ▶ In-Situ and Ex-Situ remediation
- ▶ UST/AST closures
- ▶ Range services and munitions response
- ▶ Decontamination and decommissioning of utilities and nuclear facilities
- ▶ GIS and database management
- ▶ Brownfield real estate restoration



REMEDIAL DESIGN

- ▶ In-Situ and Ex-Situ remediation of soils, sludges, organic compounds, and ash - civil/hazardous/toxic/radiological
- ▶ In-Situ and Ex-Situ water treatment of metals and organic compounds
- ▶ Technology development/evaluation

DECOMMISSIONING, DECONTAMINATION, AND DEMOLITION SERVICES

- ▶ Power plants (nuclear, fossil and renewables), ships, and industrial facilities
- ▶ Initial risk based cost estimates for rate base justification
- ▶ Environmental surveys
- ▶ Asbestos, universal waste, Phase I/II
- ▶ Detailed cost estimates including
 - Salvage
 - Transportation
 - Demolition
 - CCR closure
 - Full remediation
- ▶ Engineering assessments for partial and full closure
- ▶ Project and construction management and owners engineer services throughout life-cycle
- ▶ Full detailed engineering for utility system reroutes
- ▶ Demolition and abatement services
- ▶ Remediation construction services
- ▶ Property transfer services



ENVIRONMENTAL PLANNING AND PERMITTING

- ▶ Federal, state, and local permitting
- ▶ Development of permit matrix
- ▶ Integrated permit schedules
- ▶ Title V air permitting
- ▶ Air dispersion modeling
- ▶ Baseline environmental studies
- ▶ Storm water design
- ▶ Water and waste management
- ▶ Compliance assurance





CIVIL AND ENVIRONMENTAL ENGINEERING SERVICES

- ▶ Site development
- ▶ Storm water modeling
- ▶ Road design
- ▶ Rail design
- ▶ Marine design
- ▶ Landfill design and construction for CCR ash, tailings, and municipal waste
- ▶ Underground utilities
- ▶ Owners engineer services

CIVIL AND EARTHWORK CONSTRUCTION

- ▶ Civil engineering design
- ▶ Grading, excavation and site preparation
- ▶ Utility installation
- ▶ Site infrastructure including bridges and roadways
- ▶ Foundation construction including pile driving, sheeting, shoring, and cofferdams
- ▶ Cast-in-place and structural concrete
- ▶ Deep trenching





GEOTECHNICAL ENGINEERING SERVICES

- ▶ Geotechnical subsurface investigations (CPT and soil testing borings)
- ▶ Shallow and deep foundation design
- ▶ Excavation support systems for soil and rock
- ▶ Slope stability and seepage analysis
- ▶ Geotechnical engineering support
- ▶ Ground improvement (physical and chemical)
- ▶ Storm protection features
- ▶ Geotechnical instrumentation
- ▶ Construction observation
- ▶ Specialized geotechnical construction
- ▶ Dam safety analysis



MARINE TERMINAL AND DESIGN AND ENGINEERING

- ▶ Feasibility studies, terminal planning, design, and engineering
- ▶ Planning, estimating, and preliminary engineering
- ▶ Existing facility assessments
- ▶ Structures and building design





WATER MANAGEMENT SERVICES

- ▶ Wastewater/storm water management
 - ▶ Services construction, industrial or MS4 programs
 - ▶ Applicability determination
 - ▶ Permitting
 - ▶ Engineering design and controls/BMPS
 - ▶ Storm water pollution prevention plan (SWPPP)/Operation and Maintenance manuals
 - ▶ Treatment system design
 - ▶ O&M
 - ▶ Monitoring and sampling
 - ▶ Reporting
 - ▶ Training
- ▶ Drinking water
- ▶ Spill prevention, control, and countermeasure plans
- ▶ Sustainability
 - ▶ Water consumption assessments
 - ▶ Beneficial reuse

AIR QUALITY SERVICES

- ▶ Air/GHG emissions inventories
- ▶ Toxic release inventories
- ▶ Mobile source air quality impact studies
- ▶ Air dispersion modeling
- ▶ Pre-construction permitting
- ▶ Title V permitting
- ▶ Air toxics modeling and analysis
- ▶ Control technology evaluations
- ▶ Emission monitoring and reporting
- ▶ Risk management plan (RMP)
- ▶ Process safety management (PSM) audits
- ▶ Ambient monitoring
- ▶ Leak detection and repair (LDAR)
- ▶ Regulatory analysis





MULTI-MEDIA COMPLIANCE AUDITING SERVICES

- ▶ HSE compliance (federal, state & local)
- ▶ Environmental management systems
 - ISO 14001/ EPA compliance-based EMS
 - H&S management systems/BSI 1800
 - OSHA VPP Star
- ▶ Recycling facilities and TSDF audits
- ▶ Audit protocol development
- ▶ Utilize standard compliance/management system auditing protocols
- ▶ Application of hand-held devices for field assessments linked/uploaded to database

INDUSTRIAL HEALTH & SAFETY

- ▶ Industrial hygiene
 - Worker assessments
 - Toxicological assessments
- ▶ Indoor air quality
 - Sick building analysis
 - Mold assessments and remediation
 - Asbestos assessments, lead paint assessments, and remediation support
- ▶ Training
 - HSE multi-media
 - Emergency response
 - Computer based learning





BUILD. MAINTAIN. RESTORE. SUSTAIN.

We deliver extraordinary results by merging inspired innovation with an empowered workforce.

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Expect the Extraordinary.

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