A & M Engineering and Environmental Services, Inc.
Consulting - Design - Construction - Remediation

Society of American Military Engineers

Spotlight Presentation

Presented by: Tolga M. Ertugrul, P.E.

October 15, 2019
www.aandmengineering.com
Company Overview

• Founded in Tulsa in 1984
• Satellite offices in Oklahoma City, Kansas City and the greater St. Louis area
• 35+ Years of Experience in Environmental Compliance, Consulting, Civil & Environmental Engineering, Construction and Remediation Services

Professional Staff Includes:

• Engineers (Civil, Environmental, Geotechnical & Chemical)
• Geologists & Hydrogeologists
• Environmental Scientists & Specialists
• Health & Safety Specialists
• Construction Engineers, Managers and Supervisors
A & M Engineering and Environmental Services, Inc. (A & M) was founded by Altay Ertugrul, P.E. and Dr. Murray McComas, C.P.G. in 1984.

Altay became sole owner in 1999 allowing A & M to ultimately become family owned.

In keeping with A & M’s long-term succession plan, Tolga Ertugrul transitioned to president in early 2018 following Altay’s passing in 2017.

Tolga is a licensed engineer with competency in civil, environmental, geotechnical and construction engineering, which encompasses all of A & M’s primary service areas.
## Company Overview – Primary Services

<table>
<thead>
<tr>
<th>Environmental Engineering &amp; Management:</th>
<th>Geoenvironmental &amp; Geotechnical Engineering:</th>
<th>Landfills &amp; Impoundments:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groundwater, Water &amp; Wastewater</td>
<td>Construction Quality Assurance (CQA)</td>
<td>RCRA Subtitle C &amp; D</td>
</tr>
<tr>
<td>Contaminated Media (soil, groundwater,</td>
<td>Subsurface Investigations &amp; In-Situ Testing</td>
<td>Industrial Impoundments</td>
</tr>
<tr>
<td>water, and product) Investigations,</td>
<td>Slope Stability Analysis (including of Landfills)</td>
<td>Construction Quality Assurance (CQA)</td>
</tr>
<tr>
<td>Assessments, and Planning including PFAS</td>
<td>Roadway &amp; Paving Design</td>
<td>CCR and Waste Piles Including CKD</td>
</tr>
<tr>
<td>Feasibility Studies</td>
<td>Shallow &amp; Deep Foundation Design</td>
<td>Leachate Collection &amp; Lining Systems</td>
</tr>
<tr>
<td>Remedial Actions, Engineering and Design</td>
<td>Dams &amp; Leves</td>
<td>Detention/Retention Ponds</td>
</tr>
<tr>
<td>Remediation System Implementation and Planning</td>
<td>Vapor Barriers</td>
<td></td>
</tr>
<tr>
<td>Waste Containment Facility Planning and Design</td>
<td>Specialized in-Situ Treatment Technologies</td>
<td></td>
</tr>
<tr>
<td>Facility Decommissioning</td>
<td>Contaminant Transport Modeling</td>
<td></td>
</tr>
<tr>
<td>Inspections &amp; Monitoring</td>
<td>Hydraulic Barriers, Containment Systems, and Seepage</td>
<td></td>
</tr>
<tr>
<td>Industrial and Hazardous Waste Management &amp; Disposal Facilities</td>
<td>Geosynthetics Design including MSE Walls</td>
<td></td>
</tr>
<tr>
<td>Radiological Waste Management</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Company Overview – Primary Services

**Environmental Compliance & Services:**
- Air Quality
- Storm Water (SWP3)
- Spill Prevention (SPCC)
- Wastewater
- Waste
- Health, Safety, Indoor Air Quality
- Due Diligence (Phase I & II)
- Brownfields Redevelopment
- EPCRA & TRI
- USACE Permitting
- Compliance Evaluations & Audits
- NEPA Environmental Assessments
- Asbestos, LBP, Mold Services

**Construction & Remediation Services:**
- Landfills & Impoundments
- Superfund
- Retention/Detention Structures
- Drainage Improvements
- Flood Control & Levee Repairs
- Lagoon Sludge
- Facility Decommissioning
- Soil Remediation
- Water/Wastewater Treatment
- Vacuum Truck Services
- Construction Management
- Horizontal Development
- Grading Plans
- Bioremediation of Soils and Water
Affiliate Companies

Mid-Way Environmental
- Class I Commercial Injection Well for non-hazardous commercial and industrial liquid wastes in Davenport, Oklahoma
- Class II Commercial Injection Well for oil and natural gas related liquid wastes in Stroud, Oklahoma
- Secure and state of the art facility.
- Class I facility is permitted by ODEQ and USEPA

Stroud and Davenport, OK

RTT Solutions
- SDVO Small Business
- Remediation
- Horizontal Construction

Tulsa, OK

Lincoln Transportation
- Liquid Waste Trucking Services for oil and natural gas related needs as well as commercial and industrial applications
- Manages equipment yard for A & M’s fleet of heavy construction equipment
- Full mechanic garage equipped to service and repair A & M, Lincoln and Mohawk equipment and vehicles

Stroud, OK

Mohawk Drilling, Inc.
- Environmental, Geotechnical, and Mineral Exploration Drilling Services
- Soil boring, rock coring, and sampling
- Wells for monitoring, piezometer measurements, vapor extraction, and air sparging
- Well development, sampling, and abandonment
- Packer testing and inclinometer

Tulsa, OK
Company Profile

- 40-50 total employees depending on construction needs
- Approximately 25 technical staff members
- Typically 40-60% of our total revenue is generated from construction
- 50-70% of our total revenue is generated from local, state and federal contracts depending on the year
- Over 40% of our technical services revenue is backlogged year to year
- Our largest active contract is a 5 year, $35m Superfund project for EPA involving Residential Mine Waste Remediation in Washington County, Missouri
- We have either performed work for and/or are in teaming agreements with many of the sustaining members of this post
- Nearly all our engineers and geologists have been or are currently involved in some form of construction support, management and/or construction quality assurance.
Differentiators

Comprehensive Technical and Construction Services Business

- We recruit, staff, educate and mentor our technical professionals with the fundamental aim of successfully executing complex, multidisciplinary projects
- We can design, construct or we can design-build in virtually all our service areas, especially those involving earth moving
- We are consistently competitive on bids for remediation and heavy civil construction projects and ultimately perform in a highly successful or exceptional manner
- We are “smart” contractors due to our use of technology accelerators and blend of technical staff and seasoned managers, superintendents and operators

Experience / Company History

- Diverse past-experience in private and government sectors
- Strong reputation for executing with quality and timeliness

Commitment, Cash-Flow and Bonding Capacity

- We invest in our people and give them the tools they need to succeed
- We have sufficient cash-flow and financial resources to able to execute large construction projects
- We typically self-bond our largest projects with liquid assets
Remediation Highlights

Washington County, MO
Superfund Site – Residential Property Mine Waste Remediation
Client: Region 7 EPA

- 982 Properties
- $35 Mil
- 10% Complete
- More landowners signing up (positive work environment)
Remediation Highlights

Tar Creek Superfund Site
Client: ODEQ
- Investigations
- Design & CQA for residential remediation
- Contract Documents

Oronogo-Duenweg Superfund Site
Client: US EPA Region 7
- Completed Ahead of Schedule and to the Satisfaction of the Property Owners
- Remedial Action of the removal of 2.7 million CY of contaminated soil and chat in Newton County Missouri
Levees and Dams Highlights

Assessment of Dam Foundation Conditions for Three High Hazard Dams

- Potential Failure Mode Analysis
- Remote Sensing
- Geologic Mapping
- Movement Monitoring
- Geophysical Surveys

City of Tulsa Flood Damage Response
Client: City of Tulsa

- Emergency Permitting
- Bank Stabilization Design
- CQA
Cumberland Levee Phase II Repairs

Contractors for the U.S. Army Corps of Engineers Tulsa District use heavy equipment to move tons of dirt while working on phase II of the Cumberland Levee Repair project along the Washita River, 12 miles east of Madill, Oklahoma. The levees were overtopped and breached June 21, 2015, during a record flood event brought on by historic amounts of rainfall across Oklahoma.

TULSA DISTRICT DELIVERS THE PROGRAM ON CUMBERLAND LEVEE REPAIR PROJECT

BY PRESTON CHASTEEN, Tulsa District
Several Recent or Ongoing Relevant Projects

- OMES Civil, Geotechnical, Environmental, and Construction Management IDC’s
- GRDA – CCR Landfill Engineering & Embankment Design and CQA
- Real Alloy Residuals Landfill – Haul Road Relocation Design-Build and New Cell Design
- Groundwater Remediation of Chlorinated Solvents in western Arkansas and Stillwater
- Mead and Hunt/Mason and Hanger Joint Venture - Subsurface Exploration and Geotechnical Report for the Proposed Bulkhead Storage Building, Broken Bow Dam
- HDR - Subsurface Investigation and Stability Analysis of Hazardous Waste Landfill Retaining Walls at Tinker Air Force Base
- Mid-Way Environmental Services – Design, permitting, and construction of Class I nonhazardous commercial injection well facility plus ongoing environmental, civil and operational services
Thank You!

SAME Tulsa Post and Members that we are Teaming with!
Points of Contact

John Roberts, P.E. (Government Programs Manager)
JRoberts@aandmengineering.com

Tolga Ertugrul, P.E. (President)
Tolga@aandmengineering.com

A & M Engineering and Environmental Services, Inc.
10010 East 16th Street
Tulsa, Oklahoma 74128
Website: www.aandmengineering.com
Phone: (918) 665-6575