ALLU Group is proud to present;
“ The ALLU Solution to Meeting Jobsite challenges”

Mass Stabilization (SS) - Remediation
S/S - Mass Stabilization. Dry soil or slurry mixing

- Civil Engineering:
  - Ground Improvement for Construction/Building
  - Solidification/Stabilization Treatment

- Environmental:
  - Contaminated Sites
  - Remediation
  - Waste Management
ALLU PMX, Power Mixer

- Maximum Torque per Drum 8500 ft/lb
- Drum drive 2 x hydraulic motor
- Operational Depth up to 23 ft
- For 25 - 60 ton excavator
- Powered by the excavator’s 3rd valve hydraulics
- Equipped with drum RPM sensor (100 rpm max)
- Equipped with temperature sensor
Sites where Allu is commonly used

Dredge Material Areas
Wood Preserving Sites
Herbicide and Pesticide Sites
Oil Refinery Sludge Lagoons
Manufactured Gas Plants
Poor Sediment sites
Metal Refining, Smelting, Plating, Recycling
Residual Ash
Landfill grounds
Sites where Allu is commonly used

- Harbor and shipping areas
- Housing & building site developments
- Highway paths and road junctions
- Industrial sites
- High speed railways
- Sports fields/recreation areas
- Residential/business construction sites
- Easement & vacuation roadways
- Railroad right of ways
- LNG & oil storage facilities along waterways (2)
S/S agents commonly used through ALLU improvement & remediation of soft and contaminated soils

Portland cement, Clay, Cement kiln dust
Fly ash, Quicklime, hydrated lime
Lime kiln dust, Slag, Organoclay®
EnviroBlend, Bentonite, Activated carbon
Silicate, Phosphate, Sulfate Cement
Powdered or Slurry proprietary mixtures
Screen crush pulverize blend
ALLU Power Mixer & Pressure Feeder
Soil Remediation - Ground Solidification Tool

Pressure Feeder

Power Mixer
ALLU PF, TRACK DRIVEN BINDER FEEDING UNIT

- Engine and compressor
- Control box
- Tank
- Scales
- Tracks
- Dust control filter (Optional)

Hydraulically operated process valves use line pressure as power to operate to accurately control pressure & flow.
DAC = Data Acquisition Controller

- ALLU DAC.2 controls the stabilization process.

- Includes:
  - Reporting program
  - ALLU-control devices
  - ALLU-control logic

Record keeping & Efficient use of binder material applied Matters!
for quality control purposes
DAC system provides;
numerical reports
graphical reports

ALL NECESSARY REPORTS AUTOMATICALLY
Clear advantages for use of Allu S/S System

Record and Proof of mixing matters

• Adherence to Mix Design

• Complete Area Treatment

• Thoroughness of Mixing
  • (time and rotation)

• QA/QC for Client and Regulators

ALLU’s Integrated System:

• Utilization of GPS locating mixing head, within 2 cm.

• In-Cab Display Guides Operator
  • Time/revolution

• Binder material delivered directly to treated block

• Data recorded for QA/QC

mass stabilization project binder/additives can represent **50% or more of the total project cost**

Locating and metering of binder avoids under-dose and overdose.

Use of dry binders in wet materials conserves drying capacity of binders.
Ashtabula Harbor, Ohio

Dredge and S/S treat 120,000 cu yd (92,000 m³) of contaminated sediment.

Placement of S/S treated dredge into Elkem 5CP Pond, a 9-acre former settling pond. Additional material needed to facilitate closure of pond.

Atlantic Wood Industries

creosote- and pentachlorophenol-impacted soil

Solidification of Ashtabula OH Harbor

Binder added dry 20% by weight.
UCS goals range from 1,000 psf to 1,500 psf (0.05 to 0.07 MPa).
Unconsolidated shear strength goal of 1,250 psf (0.08 MPa).
Mixing depths variable - 5 - 20 ft.

• Solidification of existing contents 153,000 m³

Attleboro, Mass Cadmium Contaminated job

One Step Ahead

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Worldwide Support

Chuck Wilk, Environmental Scientist, Manager of Mass Stabilization and Remediation Applications.

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ALLU Stabilisation System for strengthening soft soils