What Is Silt? What do you call it?

- Silt
- Slime
- Mud
- Sludge
- Mire
- Sediment
- Muck



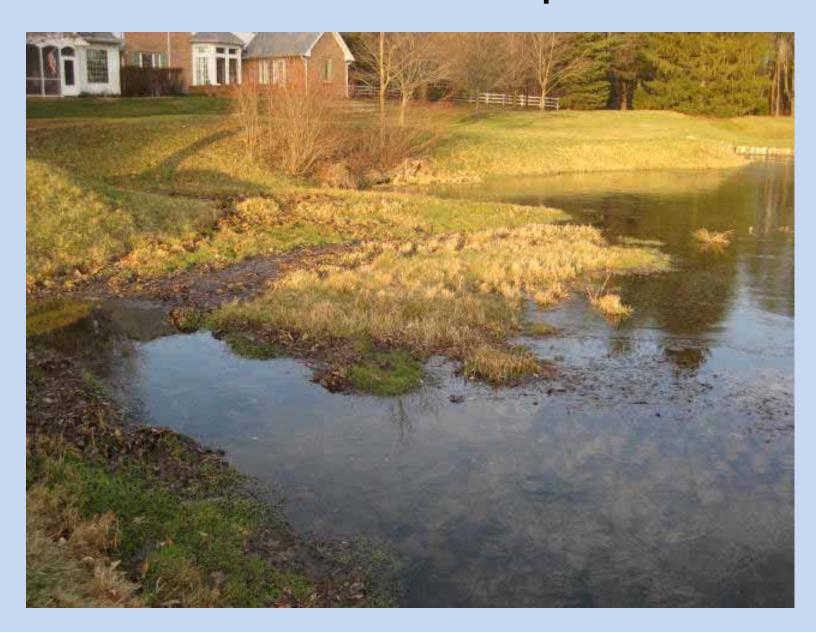
Sediment/Silt From Construction



30 Years of Organic Deposits



Sediment/Silt Deposits





Typical Problems with using ordinary excavation equipment to do <u>maintenance</u> sediment removal from ponds and basins:



- Site Accessibility for Heavy Equipment
- Area Needs to be Dewatered
- Bottom Damage Can Occur if Not

Dewatered When Working in the Blind

- Rainy Weather Stops Work
- Material Removal Messy
- Not Friendly to Aquatic Life

Traditional Sediment Removal



Traditional Sediment Removal

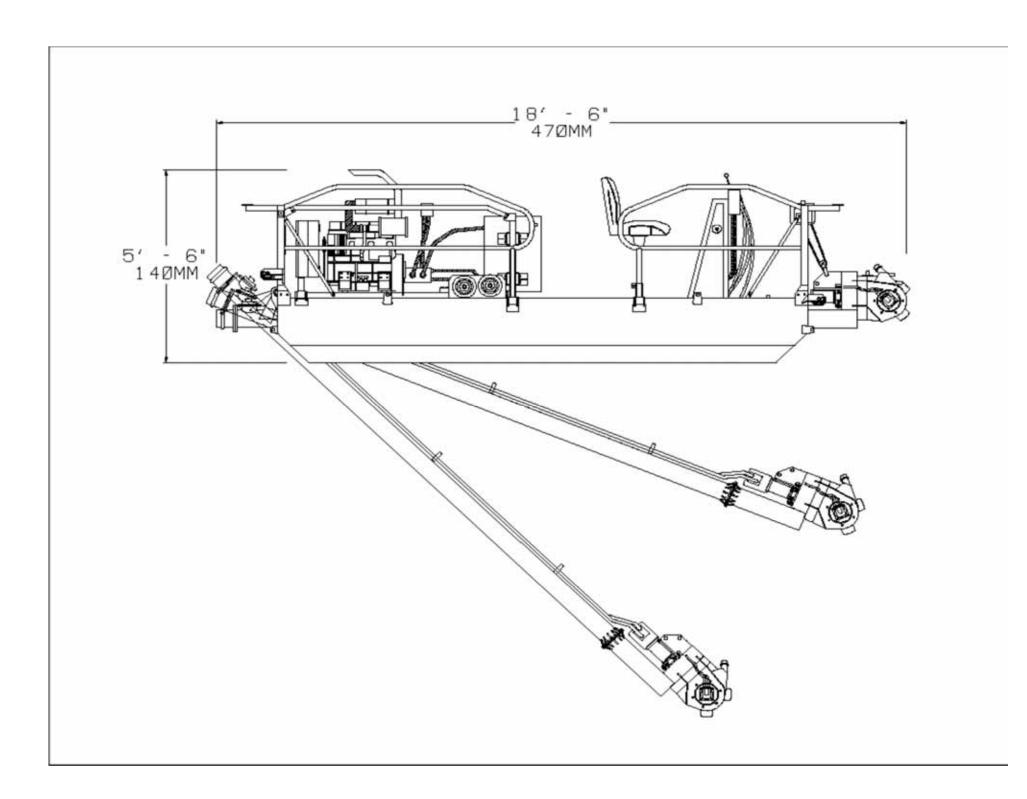






Sediment Removal For Maintenance of:

- Lakes, Ponds, Reservoirs
- Coves & Inlets
- PVC, Rubber or Clay Lined Ponds
- Canals & Channels
- Marinas & Docks
- Golf Course Ponds





Mini Dredge Solution





Easily Accessible to Confined Area



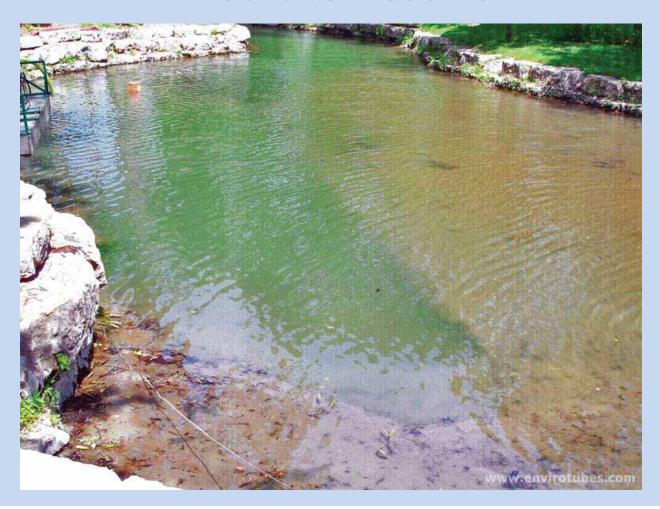


No Need for Dewatering Lake or Pond





Immediate Results





Fish Remain in Lake

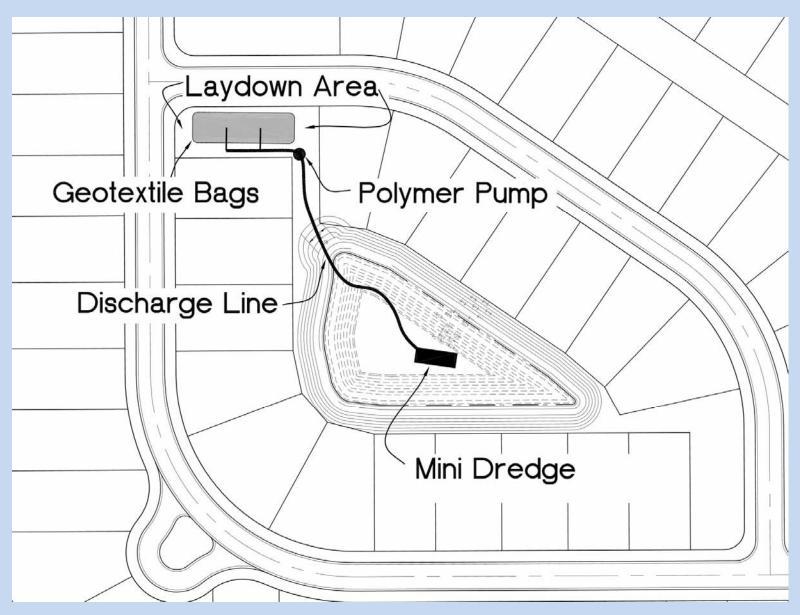




Sediment Containment



Typical Layout



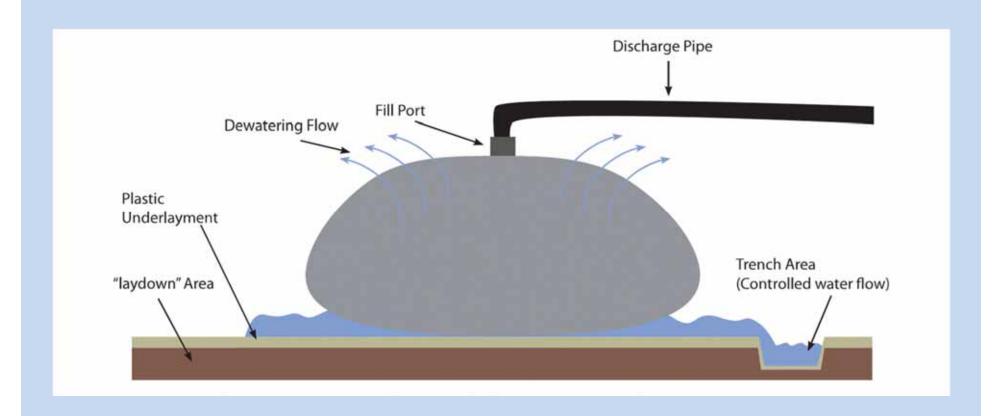
Polymers

- Many different types
- Classified by the Affect on Partial Charge, Molecular Weight or

Molecular Configuration

- Charges Cationic, Anionic and Non-Ionic
- High, Middle, or Low Molecular Weight
- Organic or Metallic
- Matched to the type of Material to be Removed
- Typically 1-30 mg/l
- ► Allows for a 2 to 1 5 to 1 reduction in material

Cross Section of Bag











Industrial Application



Clean Water Returns to Waterway



Clean Water Returns to Waterway



Silt Volume Reduction

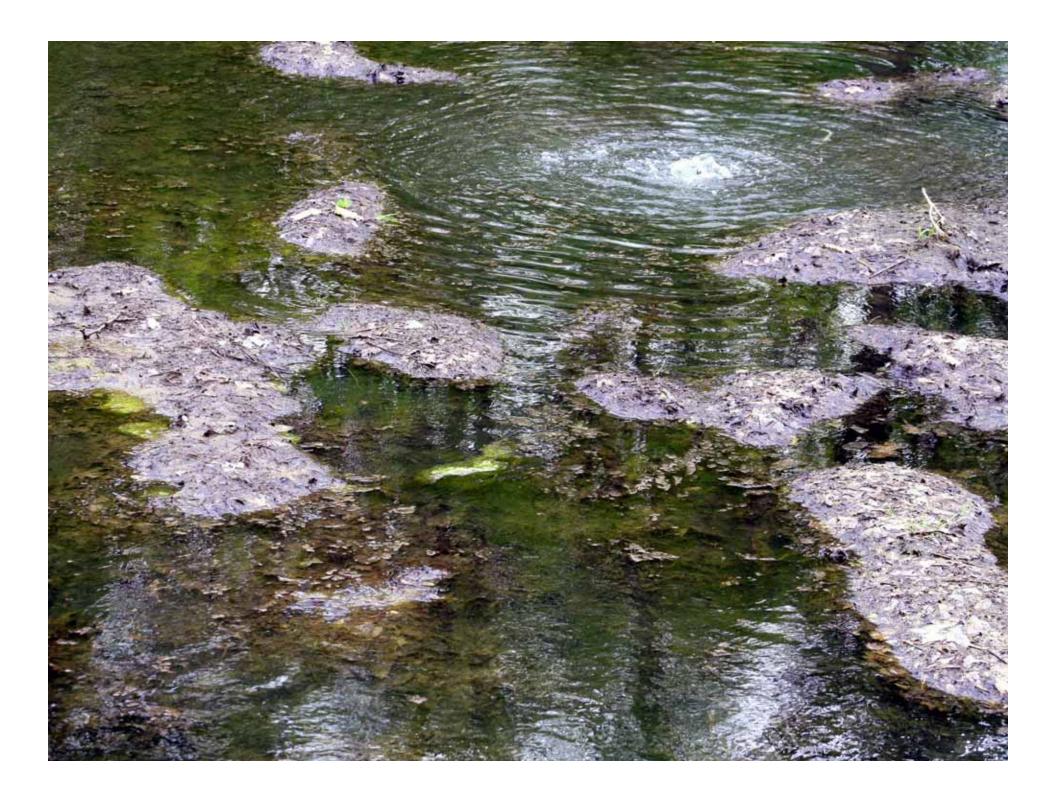


Consolidated Material Removal





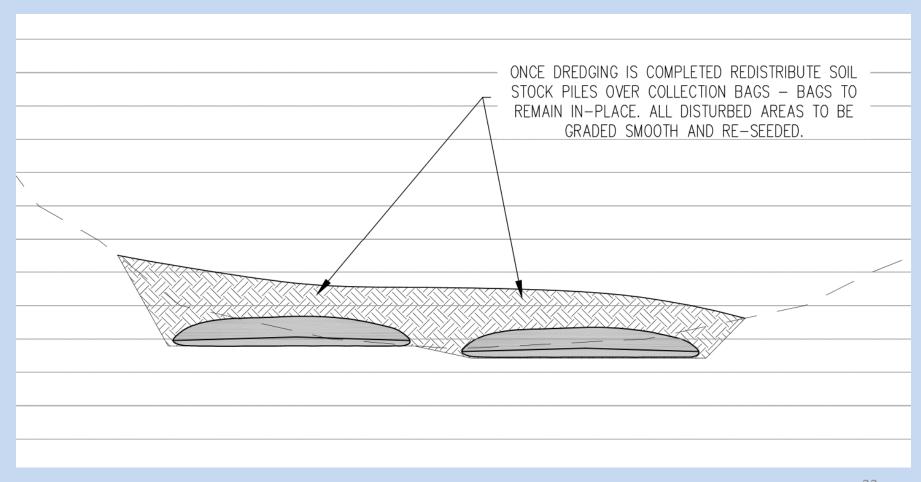


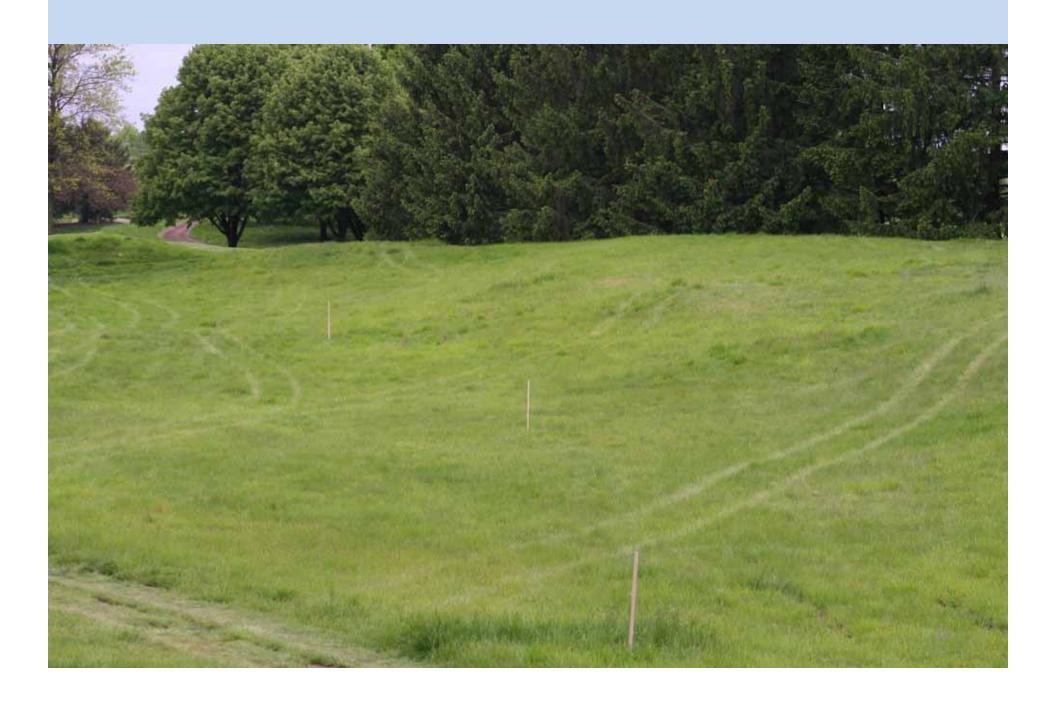


Onsite Use of Material

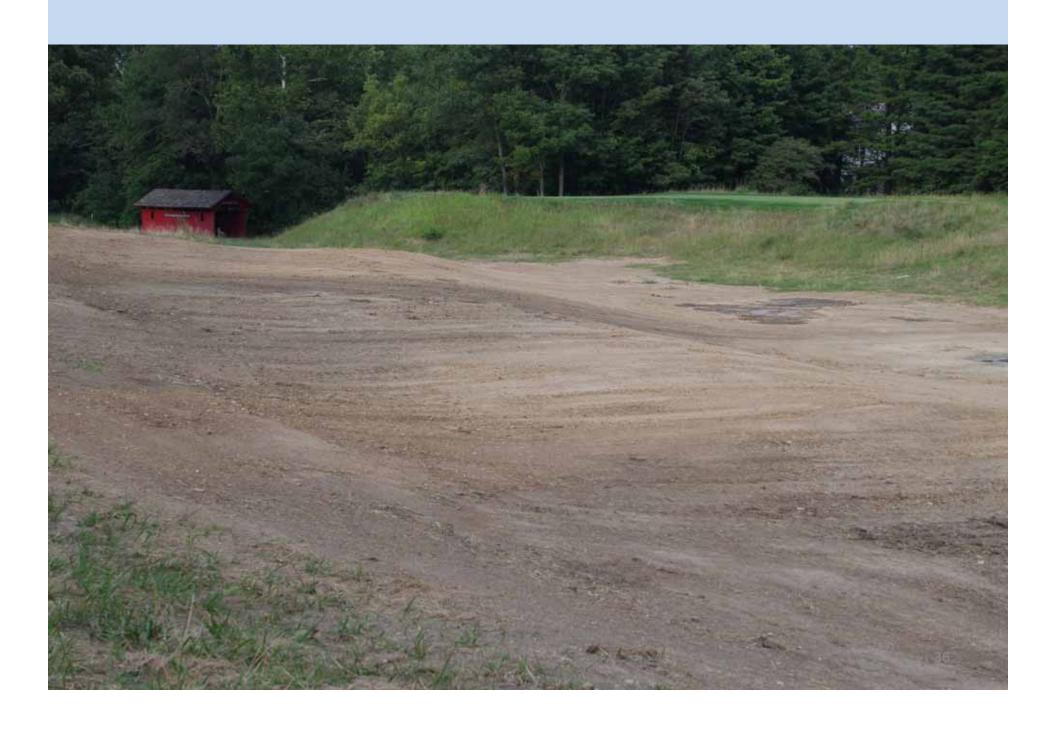


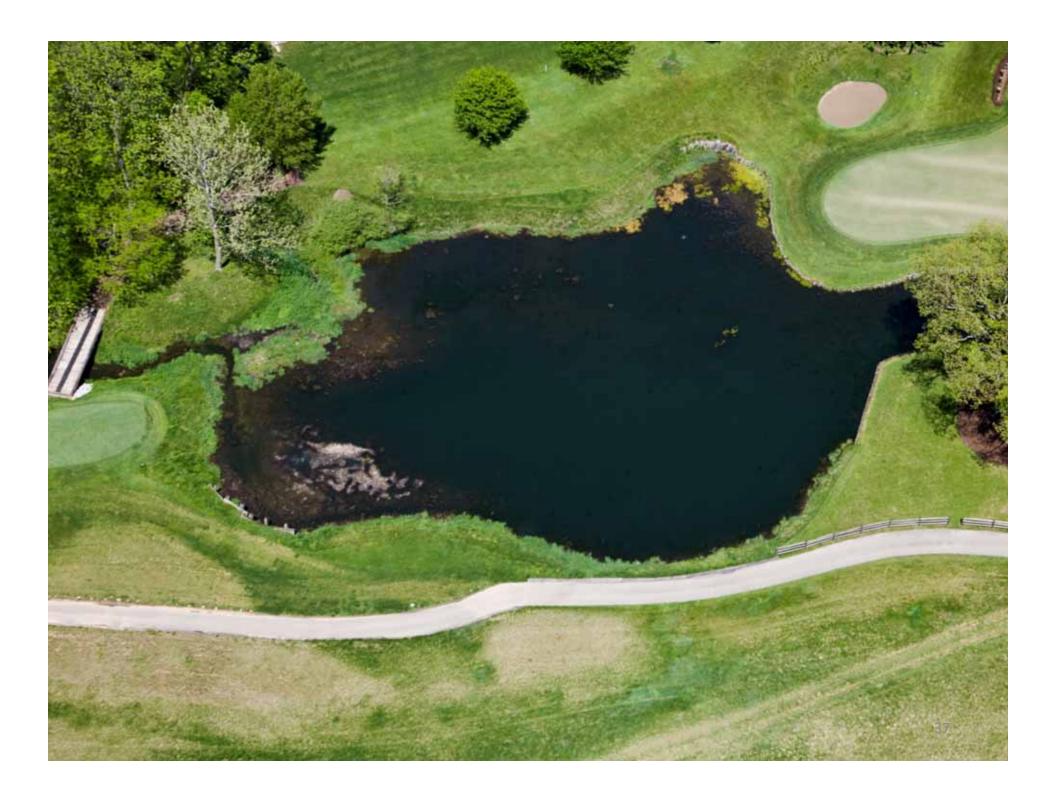
In Place Silt Disposal









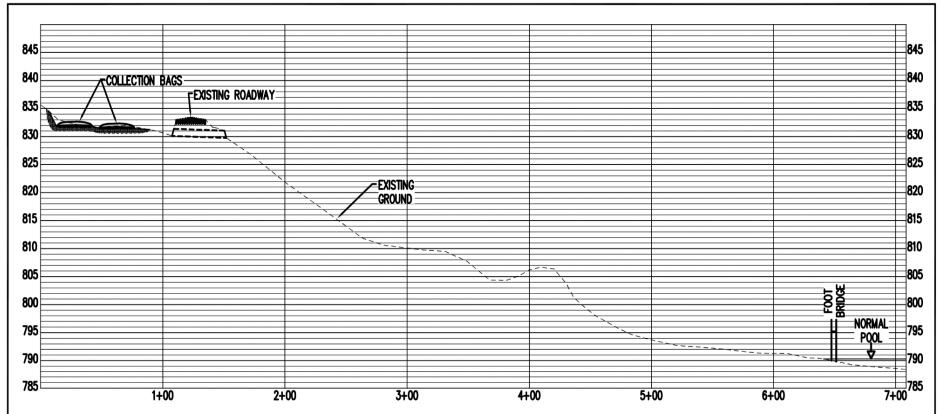




Reservoir Project



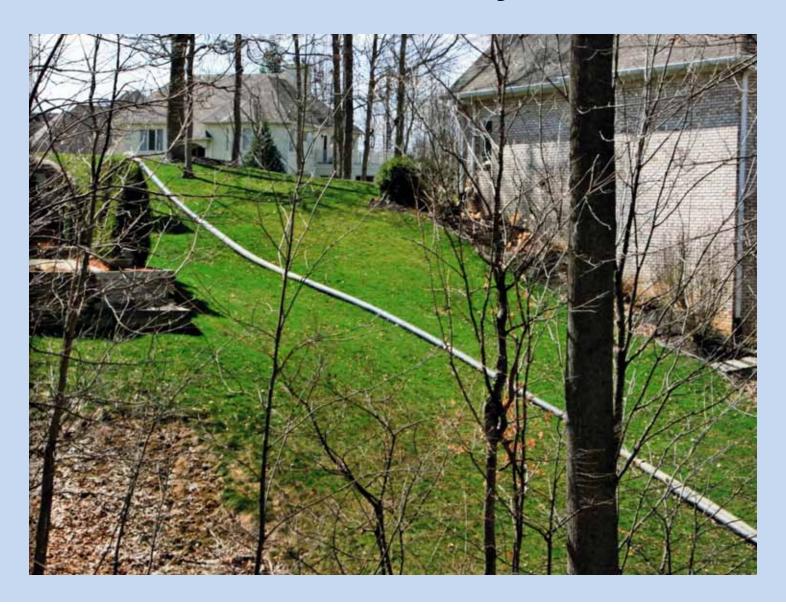
Reservoir Project



Profile of Dredge Pump Line from Collection Bag Location to Normal Pool 650+' Long and 40+' of Elevation Change



Reservoir Project







Ohio River Landing Project



Water Return





Benefits of Mini Dredge System



- Accessibility / Versatility
- Minimal Restoration
- No Dewatering of Lake or Pond
- Immediate Results
- Sediment Containment & Reduction In Volume
- Maintains Water Quality
- More Environmentally Friendly
- Reduction in Carbon Footprint

