A Residual Waste Partnership for Enhancement of the Environment

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Our Company

- Subsidiary of American Water Works Co. Inc.
- Roots date back to early 1800s, Incorporated in 1904
- Largest regulated water and wastewater service provider in PA
- Serving approximately 2.2 million people in 36 counties
- More than 1,000 employees
- Customer base:
  - 638,000 water customers
    - 92% residential
    - 7% commercial
    - 1% industrial/other
  - 17,000 wastewater customers
An Award-Winning Program

• 36 surface water treatment plants
• 31 plants beneficially use WTP residuals
• >95% beneficially used, on dry-weight basis
• Uses: topsoil amendment, agricultural land application, tree nursery, mine reclamation
• 2000 Governor’s Award for Environmental Excellence
Advancing Our Program

• Unique local opportunity

• Partnership with a local non-profit

• Triple bottom line
  ▪ Social (jobs, recreation)
  ▪ Economic (jobs, lower costs)
  ▪ Environmental (reclamation, saves landfill space)
Watres Water Treatment Plant

- Serves 25,000 customers in Wilkes-Barre, PA
- Rated 16 MGD, Average Day 7.6 MGD
- Reservoir source with conventional treatment (alum, lime, KMnO4, PAC)
- Lamella settlers & drying beds
- 1,500 wet tons/year
Residuals Management History

• Pre-2005: Residuals trucked to landfill @ $60/ton

• 2005-2011: Residuals land applied on MD farm fields @ $55/ton

• Beneficial use, but costs still high!
Partnership with Earth Conservancy

• Non-profit, founded in 1992

• Mission: reclaim land and watersheds impacted by pre-regulatory mining in Luzerne County

• Operate yard waste composting operation

• Supplement yard waste compost with WTP residuals

• April 2011 – DEP co-product determination approval
Hanover Township Culm Pile
Residuals Mixed with Yard Compost
Reclaimed Area
Recreation

- Recreation fields post-reclamation – used by youth soccer team
Jobs

Earth Conservancy Properties
Hanover Twp., Luzerne County PA
Route 29 - Exit 1 from I-81 exit 164

Hanover Industrial Estates

Parcel Numbers
1. Huber I, Commercial, 3+/- acres, KOZ
2. Huber II, Commercial, 11+/- acres, KOZ
3. Huber III, Industrial, 80+/- acres, KOZ
4. Huber IV, Industrial, 80+/- acres, KEOZ
Cost Savings

$55/ton

- $25/ton

$30/ton

x

1,500 ton

$45,000/year
WNEP News Story