

July 15, 2008

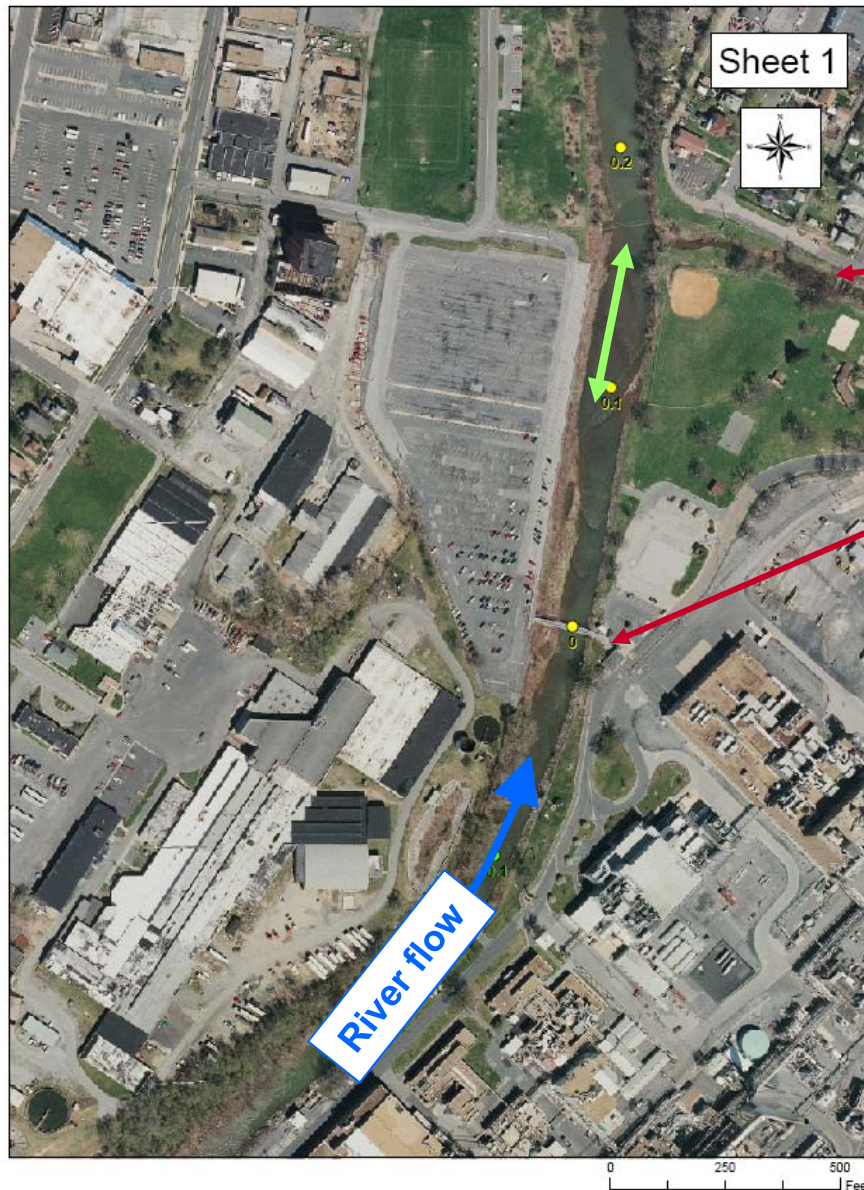
South River Bank Restoration Pilot

South River Science Team
July 15, 2008



The miracles of science™

South River Restoration Pilot upstream of Rockfish Run



Rockfish Run

Invista
Footbridge

Pilot Site ~500 feet bank length

- Evidence of bank erosion,
- Bank Soil Hg concentrations above background,
- Layout allows easy access
- Adjacent land is used intermittently
- Property ownership

South River Restoration Pilot upstream of Rockfish Run



Pilot Study

Primary Objective:

Assess the efficacy and feasibility of conventional bank stabilization

- to improve fish habitat and
- to isolate mercury-containing bank soils from the South River aquatic system.

Pilot Concept

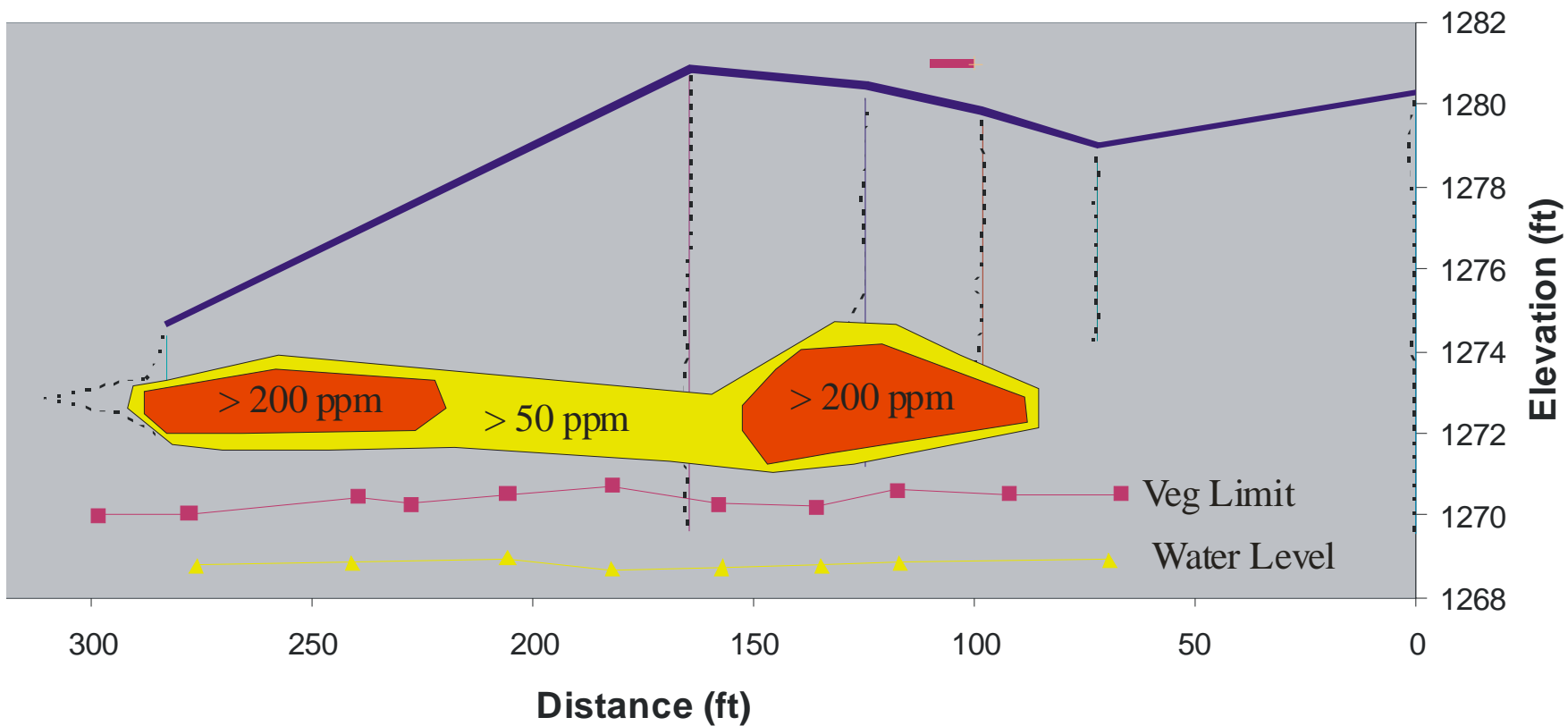


▲ ABOVE, PLAN VIEW SHOWING AREA OF
BANK STABILIZATION TREATMENT

SITE LOCATION PLAN VIEW

Contour Map of Mercury Concentrations in Soils Sampled from the Riverside of the Bank (Pizzuto Dec-Jan 2008)

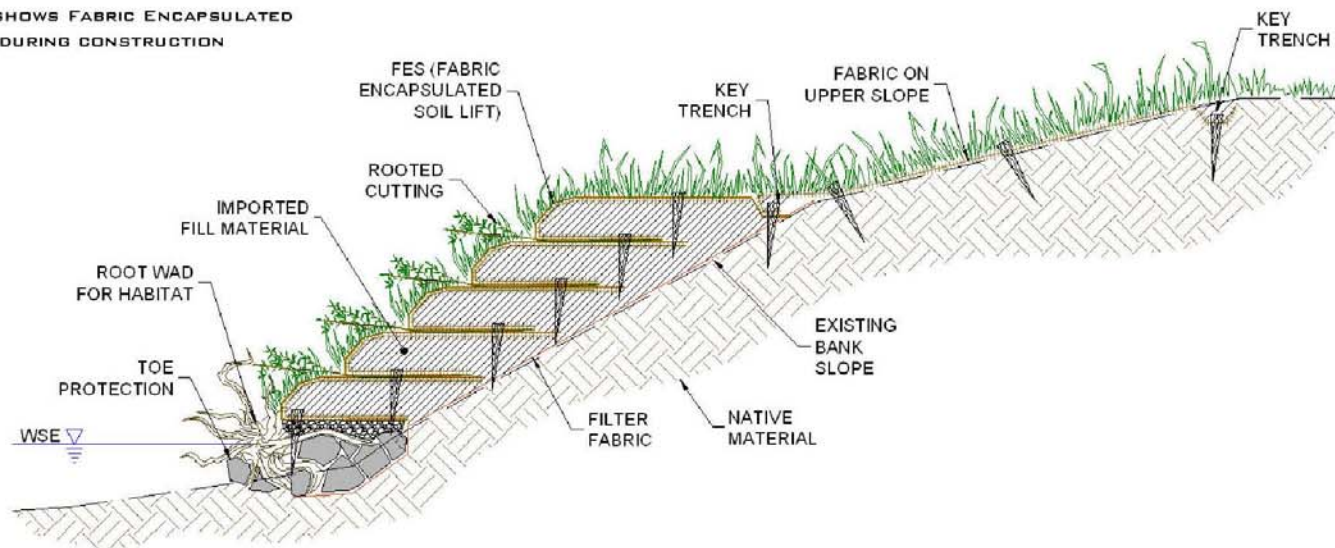
Downstream ← → Upstream



Pilot Concept



▲ ABOVE, SHOWS FABRIC ENCAPSULATED SOILS LIFTS DURING CONSTRUCTION



▲ ABOVE, SHOWS TYPICAL BANK STABILIZATION TREATMENT DETAIL

BANK STABILIZATION TREATMENT

Data Collection and Evaluation

Required Permits List – State, Federal, County, City, Archaeological

Hydrology – GW/SW Interaction

Hydraulics – HEC RAS

✓Habitat Assessments

✓Site drainage

✓Bank soil Hg concentration characterization

Current Core Team

DuPont

- Mike Liberati, Project Director
- Nancy Grosso, Pilot Ldr
- Bill Berti, Tech Res.
- Rich Landis, Tech. Res.
- Ed Lutz, Construction Res.
- Ralph Stahl, Tech Res.

URS

- Bruce Bayne, Project Coord.
- Todd Morrison, Project Mgr.

VA DEQ

- Calvin Jordan

VADGIF

- Larry Mohn

University of Delaware

- Jim Pizzuto

Interfluve

- Greg Koonce
- Bill Norris (Design)

Draft Pilot Schedule

APR 2008	Complete Pre-design Investigation and Information gathering
JUL 2008	Finalize Goals and Objectives through Stakeholder input
AUG 2008	Complete Conceptual Level Design
3Q08	30% Design Level
4Q08	100% Design, Construction Plans, Specs, Permitting
3Q09	Select Contractor and Construct



Hg Profiles – S River

