Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasives.

Bank stabilization (e.g., bank regrading, stone toe protection) following remediation. Localized installation of living crib wall.
Figure 11b

KATHERINE STREET PENINSULA SOUTHERN SHORELINE
RECOMMENDED RESTORATION ALTERNATIVE
BUFFALO RIVER, NY

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Proposed Bank Stabilization Area
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Riparian Zone
- Footprint - Remedy 5

Enhance riparian community by minimizing invasive species.

Expand EV bed.

Expand SAV bed.

Katherine St. Peninsula

New York

Buffalo
BUFFALO COLOR PENINSULA SHORELINE
RECOMMENDED RESTORATION ALTERNATIVE
BUFFALO RIVER, NY

Expand existing SAV beds if substrate and clarity allow.

Expand existing EV beds if substrate allows.

Restore riparian vegetation by planting native shrubs.
UPSTREAM RIVERBEND RECOMMENDED RESTORATION ALTERNATIVE
BUFFALO RIVER, NY

Evaluate opportunities to pull back river bank to expand shallow aquatic habitat.

Establish riparian vegetation through the project area.

Legend
- Habitual Restoration Project Area
- Navigation Channel
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed Riparian Zone
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Littoral Bench
- Footprint - Remedy 5

New York
Buffalo
Evaluate opportunities to pull back river bank to expand shallow aquatic habitat.

Establish riparian vegetation throughout the project area.

Evaluate opportunities to add subaquatic substrates between sheetpile wall and navigation channel.

Downstream Riverbend Recommended Restoration Alternative
Buffalo River, NY

Legend
- Habitat Restoration Project Area
- Navigation Channel
- Bathymetry: Index
- Bathymetry: Intermediate
- Elevation: Index
- Elevation: Intermediate
- Existing Emergent Vegetation
- Existing Submerged Aquatic Vegetation
- Proposed Riparian Zone
- Proposed EV Zone
- Proposed SAV Zone
- Proposed Littoral Bench
- Footprint - Remedy 5

New York

Figure 13b

Monday, October 5, 2009 12:31:23 PM