Nine Elements of Watershed Protection Plans

1. Identify the sources and causes of pollution
2. Estimate the necessary load reductions
3. Describe Point Source and Non-Point source management measures
4. Assess the technical and financial assistance needed
5. Design an informational/educational component
6. Develop a schedule of implementation
7. Set interim measurable milestones for progress
8. Establish criteria to determine load reductions
9. Create a monitoring component

Element 1: Identify Causes of Concern

• Point Source Pollution
  – Wastewater Treatment Plant Discharges
  – Industrial Discharges
  – Confined Animal Feeding Operations (CAFO)
• Non-Point Source Pollution
  – Stormwater
  – Agricultural Run-off
  – Sediment
  – Nutrients
  – Toxic chemicals

Element 2: Estimate Load Reductions

Load Reductions based on:
• SWAT model outputs
• Effectiveness of Best Management Practices (BMP) tied to land use and changes

Element 3: Nonpoint Source Management

Best Management Practices Implementation
• Structural
• Behavioral
Element 3: Point Source Management

- Infrastructure upgrades to WWTP's
- Permitting programs
- Stormwater development planning

Element 4: Assess Technical and Financial Assistance Needed

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Element 5: Design Education Component

- Mass Media
- Demonstration sites
- Meetings and workshops
- Ongoing technical assistance
- Citizen monitoring programs
- Training and certification programs

Element 6: Develop a Schedule of Implementation

- Nonpoint source structural improvements
- Point source discharge (based on improved standards)
- Educational programs

Element 7: Set Interim Measurable Goals

Watershed
- Implementation of BMPs
- Reservoir
- Water Quality improvement

Reservoir
- Number of feet of structural BMP's established
- Percentage increase in holding capacity
- Achievement of TCEQ Standards
- 303(d) status

Element 8: Establish Criteria to Determine Load Reductions
Element 9: Create a Monitoring Program

Watershed
- Quarterly Water Quality Monitoring of Strategic Locations

Reservoir
- Quarterly Monitoring of Ambient Water Quality in Cedar Creek Reservoir

Educational
- Behavioral changes resulting from education programs