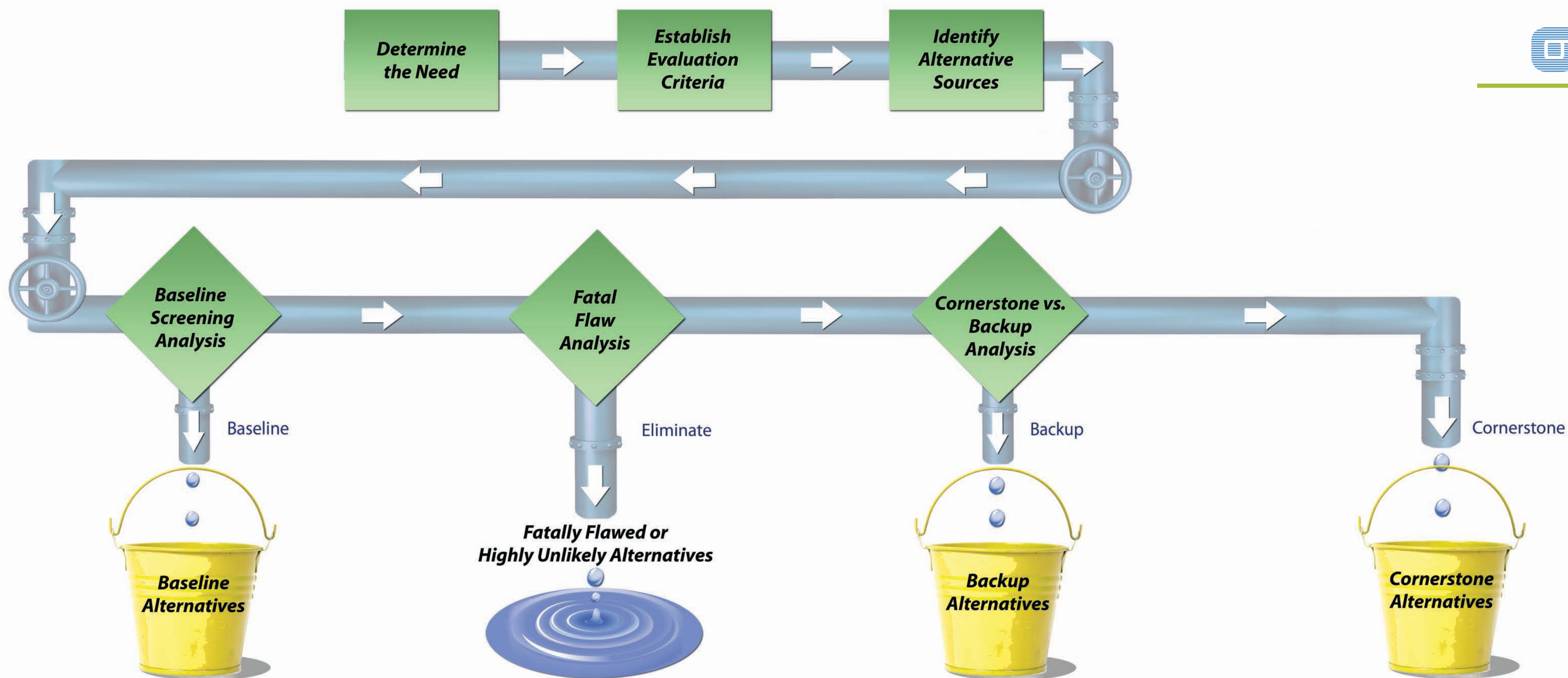




Tennessee Duck River Development Agency

Alternatives Analysis



- Water Efficiency Measures
- Regional Drought Management Plan
- Optimize Releases from Normandy Reservoir

- Reduce Irrigation Withdrawals
- Upgrade Existing Columbia City Dam to Allow Releases
- Utilize Groundwater Sources
- Construct Water Intake for Maury County at River Mile 163
- Construct Fountain Creek Reservoir and Pipe Raw Water to Columbia WTP
- Construct Fountain Creek Reservoir with Downstream Release
- Construct Pipeline from Tennessee River to Columbia WTP
- Construct Pipeline from Tims Ford Reservoir
- Purchase Water from Nearby Systems
- Pump Treated Wastewater from Columbia WWTP to Below Columbia Dam
- Construct Water Intake near Williamsport and Pump Back to Columbia Dam Pool
- Construct Infrastructure to Return Treated Wastewater from Tullahoma WWTP to Normandy Reservoir

- Increase Normandy Reservoir Release to Meet Columbia Constraint Without Raising Dam or Pool Levels and Improve DRUC Intake
- Modify River Constraints to Preserve Storage in Normandy Reservoir
- Utilize Quarries
- Convey Arnold Cooling Water to Normandy Reservoir

- Raise Normandy Reservoir Winter/Spring Pool Level without Raising Dam / Modify Normandy Reservoir Flood Rule Curve to Meet Columbia Constraint
- Raise Normandy Dam (Increase Winter/Spring Pool and Retain Summer/Fall Pool Level)
- Monsanto Lake (Existing Offstream Storage Reservoir)
- Construct Water Intake near Williamsport and Pump Back to Columbia WTP