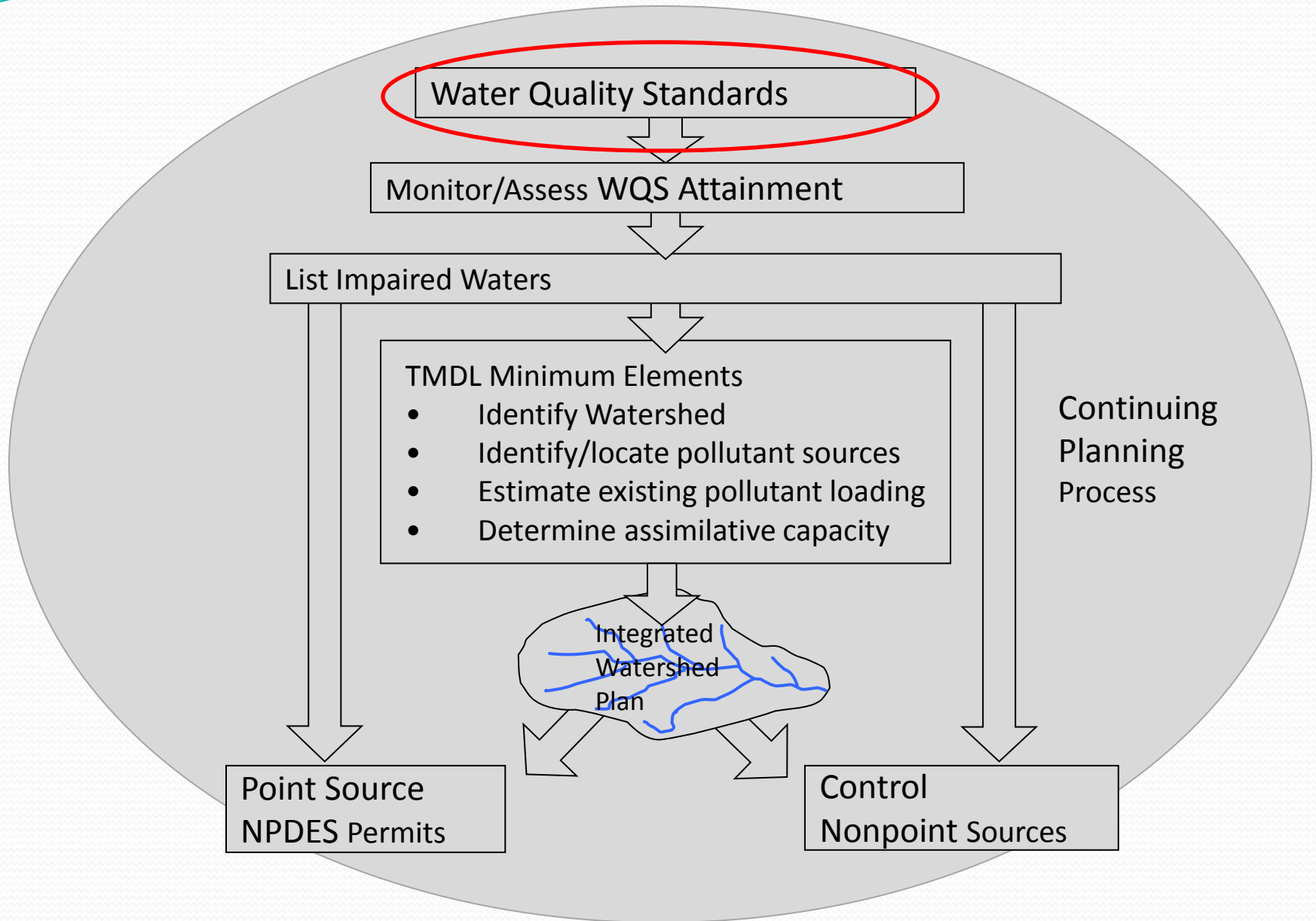


# Impaired Waters

## the 303(d) Listing Process and TMDLs

Bioassessments as narrative water quality standards

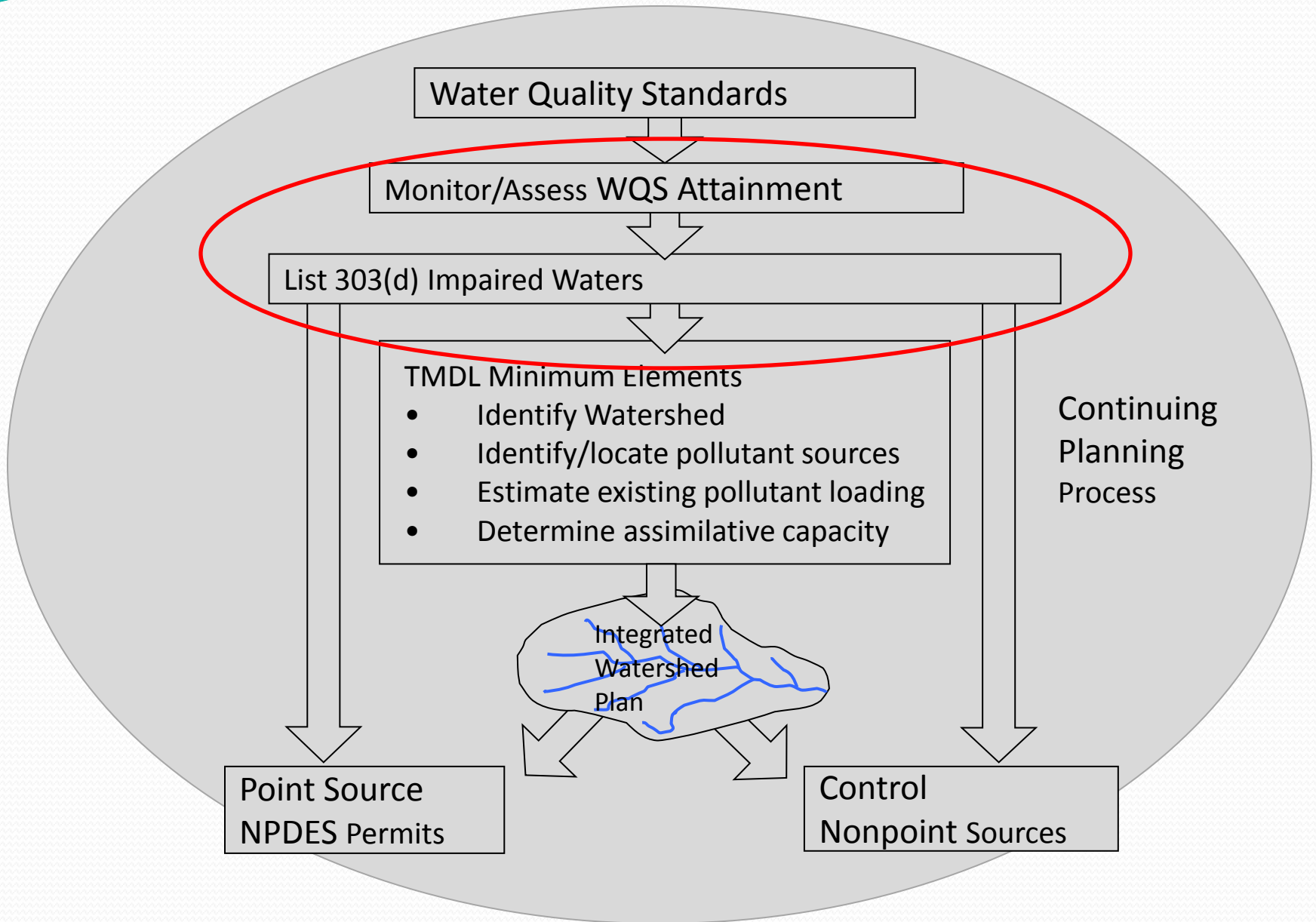
# Clean Water Act Framework



# Water Quality Standards

- Criteria designed to protect Uses
  - Numeric
    - magnitude
    - duration
    - frequency
  - Narrative
- Uses
  - Aquatic life
  - Primary contact recreation
- Antidegradation

# Clean Water Act Framework



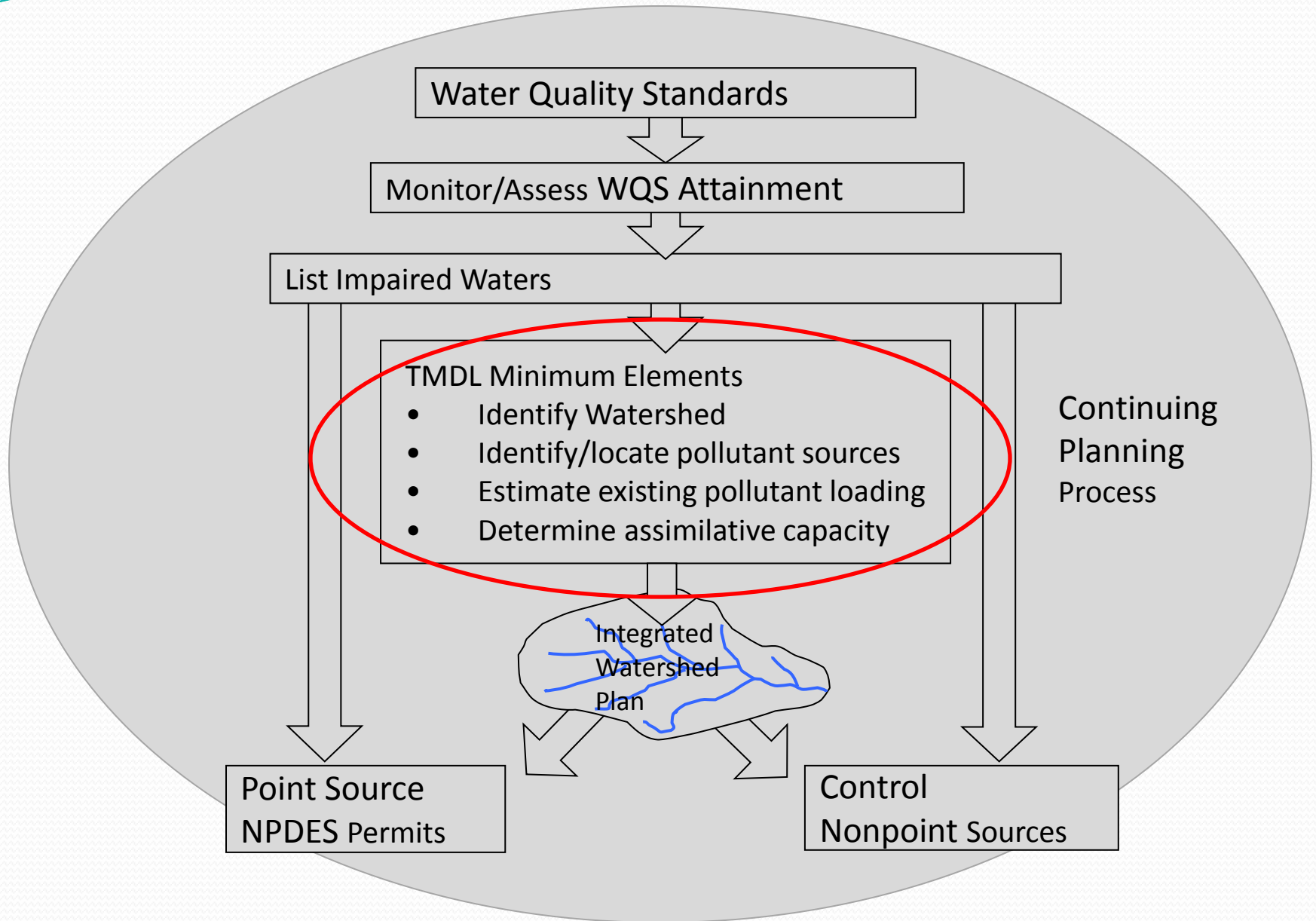
# Integrated Report

- Consists of components of sections 303(d), 305(b) and 314 reporting
- Multi-category listing of all assessed waters
- Category 5 is impaired waters needing a TMDL (the 303(d) list)
- Category 4 is impaired waters not needing a TMDL
- Categories 1 – 3 unimpaired waters

# Monitoring Data - Bioassessment

- state CWA agency for 303(d) Listing
  - Iowa Department of Natural Resources
  - Kansas Department of Health and Environment
  - Missouri Department of Natural Resources
  - Nebraska Department of Environmental Quality
- Data collected under Quality Assurance Project Plan
- Data meets state methodology

# Clean Water Act Framework



# Elements of a TMDL

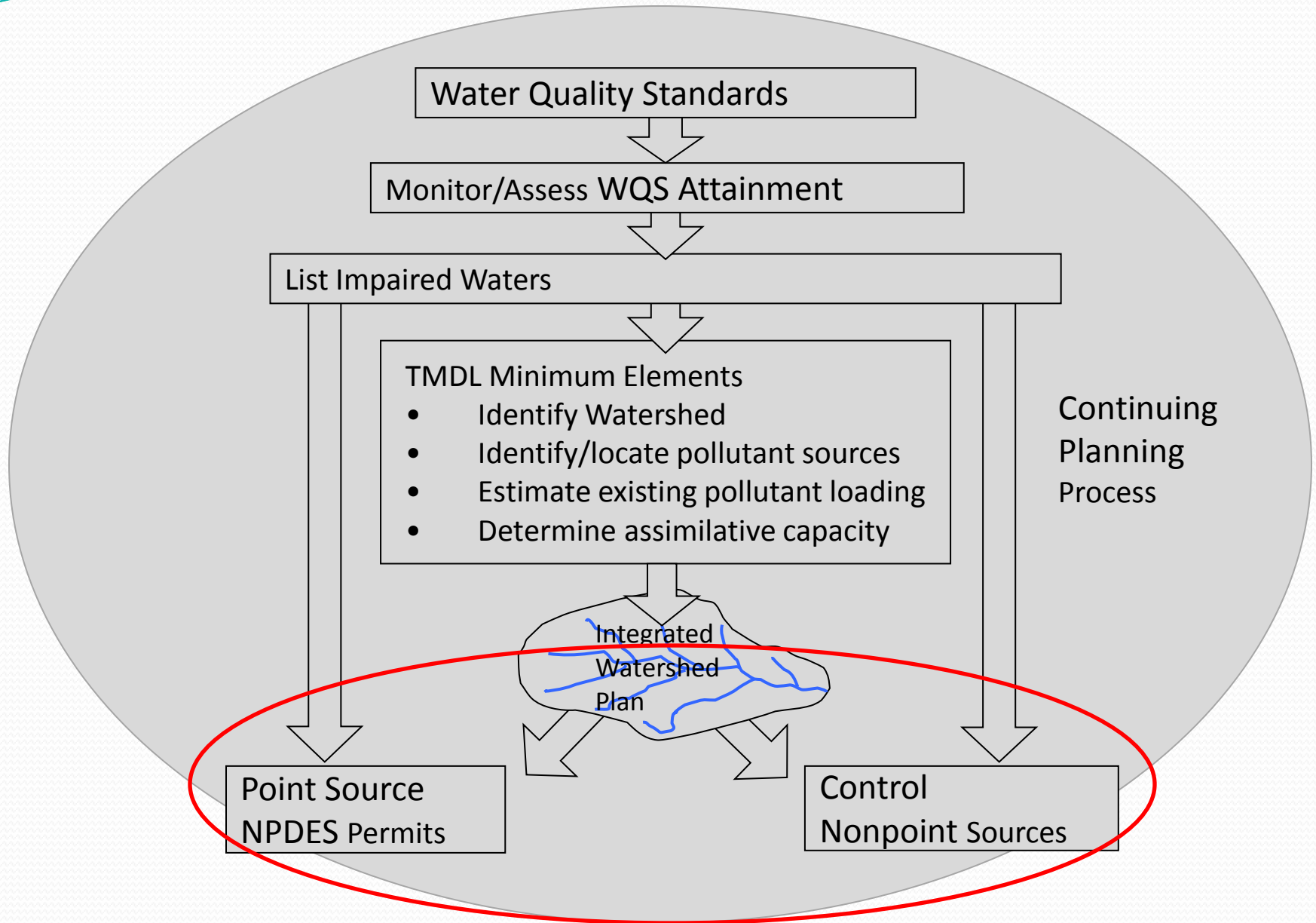
- The impairment
- Loading capacity
- Sources identification
- Allocation
- Margin of safety (MOS)
- Seasonal variations
- Reasonable assurance
- Public involvement



# After EPA Approves TMDLs...

- State watershed plans implement TMDLs
  - Demonstrates TMDL likely to be implemented
  - Eligible for sec. 319 funding
- Permits may be issued based on default allocations; within some specified time of TMDL approval
- Changes to allocations of individual sources within default LA or WLA must be documented in watershed plan

# Clean Water Act Framework



# Questions?

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