BMP Workshop

January 22, 2009 - Stakeholders selected sources that they directed project team and smaller, select group of stakeholders to identify management measures that will address the sources

February 13, 2009 – BMP Workshop held to identify all possible management measures that could address sources

February 13, 2009 to Present - Project team has been evaluating each management measure based on:
- Impact on Water Quality
- Time to implement
- Cost Effectiveness
- Availability of funding

Management Measure Selection

Workshop Participants
- City of Granbury
- AMUD
- Hood County Health Department
- Lee Overstreet
- USDA-NRCS
- Texas AgriLife Research
- Espey Consultants
- BRA staff

Workshop
- EPA requires that all possible management measures be identified and evaluated
- Work Group
  - Brainstormed all possible management measures for each source type selected
    - Lake-wide
    - Area specific
  - Did not consider feasibility when generating management measures list
Lake-wide Management Measures

- Human (septic)
  - Education
  - Conventional application
  - Surface application
  - Regional Collection System
  - Education for home inspectors
  - Annual waste manifest record review for septic haulers

- Pet, Waterfowl, and Wildlife Waste
  - Education
  - Local ordinances prohibiting feeding of wildlife and waterfowl
  - Feral Hog Education Program
  - County wide bounty program for feral hogs
  - Deter roosting by birds under bridges

- Livestock
  - Education
  - Range management/pasture management
  - Alternative water sources
  - Filter strips
  - EQUIP Program

- Nutrient/Pesticide
  - Urban education on fertilizer application
  - Urban education on pesticide application
  - Education on fertilizer types, alternatives and what is best for water quality

Rolling Hills Shores Management Measures

- Human (septic)
  - Package treatment facility
  - Mini-wastewater treatment facility
  - Cluster system
  - Holding tank pump-out record review by Hood County Health Department

- Cattle/Deer Ranching
  - Education
  - Filter strips
    - Game ranch – grass buffer should naturally improve over time as deer feed and reduce brush
  - Alternative water sources
    - May already be present

- Cove Dynamics
  - Dredging
  - Fill
- Property buy-out
### Long Creek Management Measures

- **Human (septic)**
  - Package treatment facility
  - Mini-wastewater treatment facility
  - Cluster system

- **Livestock**
  - Alternative water sources
  - Filter strips
  - Small acreage land owner education
  - Area Conservation Plan

### Oak Trail Shores Management Measures

- **Human (septic)**
  - Gray water education
  - Educational material in Spanish
  - New HOA rules requiring reporting to Hood County Health Department for additions and add-ons based on Comanche Cove/Indian Harbor HOA rules
  - HOA enforce existing restrictions for single family residence only
  - Regional collection system

- **Canal Dynamics**
  - Open up canals to create a u-shape that will allow flow through the system
  - Fill ends of canal to reduce length
  - Re-route drainage from subdivision to create flushing effect in canals

### Sky Harbor Management Measures

- **Human (septic)**
  - Regional collection system
  - Septic education

- **Cove Dynamics**
  - Re-circulation
  - Fountains
  - Catchment basin

### Nassau Bay Management Measures

- **Human (septic)**
  - Regional collection system
  - Septic education
### Waters Edge Management Measures

- No specific management measures
- Lake-wide measures will address subdivision needs
  - Pet, Waterfowl, and Wildlife Waste
  - Nutrient/Pesticide

### Indian Harbor Management Measures

- Human (septic)
  - Regional collection system
  - Septic education
- Cove Dynamics
  - Re-circulation
  - Fountains
  - Catchment basin
- Livestock
  - Education
  - Range management education
  - Area Conservation Plan

### Port Ridglea East Management Measures

- Human (septic)
  - Regional collection system
  - Septic education
  - Septic Maintenance Pump-out Pilot Project
- Cove Dynamics
  - Circulation systems
- Livestock
  - Small acreage land owner education
  - Area Conservation Plan – ranchettes in the area

### Blue Water Shores Management Measures

- Human (septic)
  - Evaluate collection system for leaks
    - Repair if needed
  - Septic education for adjacent communities and Purple K Campground