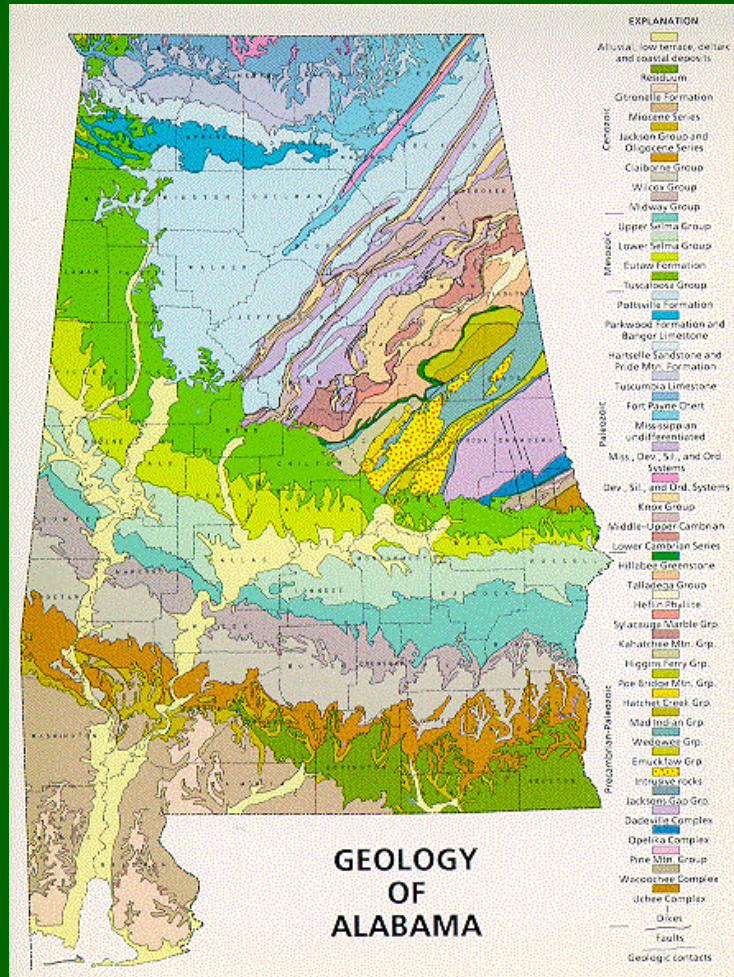


THE ALABAMA DISTRICT PROGRAM REVIEW FY 2002



Cahaba River

DISTRICT OVERVIEW



- KEY WATER ISSUES IN ALABAMA
- STAFF STRENGTHS AND WEAKNESSES
- BUDGET (Cooperators, Federal, Other Federal Agencies)
- TRENDS IN PROGRAMS (Cooperators, Federal, Other Federal Agencies)

KEY WATER ISSUES

- Water Availability (AL-GA-FL Water Wars)
- Watershed Assessment – Water Quality Studies associated with Non-point Source Pollution (including sedimentation)
- TMDLs (Total Daily Maximum Loads)
- Flood Mapping
- NPL - Superfund Sites
- Brownfield Sites
- Groundwater monitoring and modeling
- Mercury – Gulf of Mexico
- PCBs - Anniston

STAFF STRENGTHS

- relatively small District – family like atmosphere
- dedicated staff - willing to go the extra mile
- staff gaining experience with project management and accounting
- staff gaining experience with project development working with new potential cooperators (EPA, ASTDR, AEMA, FEMA, City of Montgomery, Tuskegee University, Auburn Water & Sewer, Ft. Payne Water & Sewer, Oxford Water & Sewer, etc.)

STAFF WEAKNESSES

- do not have a local Systems Administrator
- do not have a Web-Master
- project accounting

BUDGET

Cooperators

•	AL Dept. of Conservation (SW)	\$13,850
•	City of Mobile	
	JB Converse Lake	\$279,300
	Three Mile Creek	\$285,400
•	Jefferson County Commission	
	SW	\$289,600
	QW	\$108,000
•	AL Dept. of Transportation	
	Bridge Sites – Flood Studies	\$190,000
	Simulation of Flooding – Pea River	\$47,000
•	Town of Parrish (SW)	\$15,100
•	City of Tuscaloosa (SW)	\$56,500
•	AL Dept. Environmental Management (SW)	\$358,200
•	City of Huntsville (SW)	\$160,000
•	City of Montgomery (SW)	\$13,900

BUDGET

Cooperators (continued)

•	Coffee County Commission (SW)	\$13,900
•	Calhoun County (SW)	\$13,900
•	City of Anniston (Cold Water Springs)	\$38,800
•	AL Dept. Economic & Community Affairs (SW)	\$150,000
	Sumter County (SW)	\$13,900
•	Town of Blountsville (SW)	\$18,600
•	Baldwin County (SW)	\$21,000
•	Town of Courtland (SW)	\$15,800
•	Dallas County Commission (SW)	\$2,000
•	City of Thomasville (SW)	\$13,900
•	City of Hoover (SW)	\$17,500
•	Town of Goodwater (SW)	\$2,000

BUDGET

Cooperators (continued)

•	City of Brewton (SW)	\$59,000
•	Springville Water Department (SW)	\$2,000
•	Garden City (SW)	\$1,500
•	City of Vestavia Hills (SW)	\$12,500
•	City of Oakman (SW)	\$2,000
•	Marengo County (SW)	\$2,900
•	City of Century, FL (SW)	\$41,700
•	City of Auburn, AL (SW)	\$51,875
•	City of Oxford, AL (SW)	\$58,300
•	City of Fort. Payne, AL (SW)	\$54,800
TOTAL		\$2,408,100

BUDGET

Federal

•	CBR – SW	\$132,500
•	CBR – GW	\$2,868
•	Discretionary	\$24,615
•	Acid Rain	\$6,800
•	Mobile River NAWQA	<u>\$900,000</u>
	*TOTAL	\$1,066,783

*Does not include Facilities @ \$114,040

BUDGET

Other Federal Agency

•	Alabama Power	\$75,400
•	Dept of the Army	\$25,560
	Anniston Army Depot (tied to Cold Water Springs)	
•	US Army Corp of Engineers	\$5,500
	Nashville, TN (SW)	
•	US Army Corp of Engineers	\$91,700
	Mobile, AL (Village & Valley Creek)	
•	US Army Corp Of Engineers	\$31,000
	Walter F. George Dam	
•	US Army Corp of Engineers	\$288,400
	Mobile, AL (SW)	(\$70.0K carry-over)
•	Working Capitol Fund	<u>\$34,231</u>
	TOTAL	\$621,791

Projects that dropped out from FY-01

- City of Florence – KEY CAVE \$130,000
- ACT gages (4) – Corp of Engineers (Mobile) \$50,000
- TN River Bridge Site Study - ALDOT \$69,200
- Sediment Stations – Corp of Engineers (Mobile) \$24,900

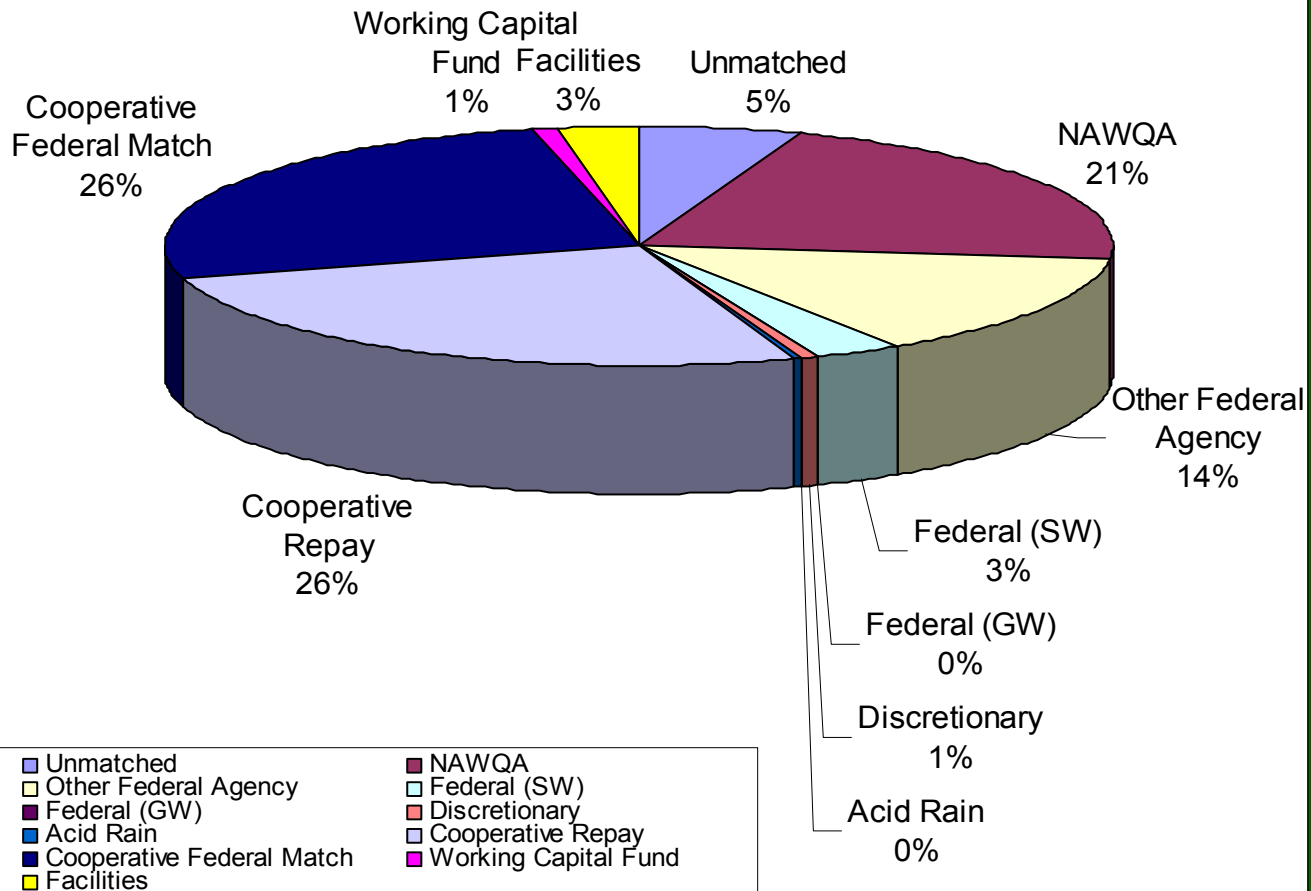
New Projects for FY-02

- Pea River Bridge Site Study - ALDOT \$47,000
- City of Auburn, AL (SW) \$51,875
- City of Oxford, AL (SW) \$58,300
- City of Ft. Payne, AL (SW) \$54,800

BUDGET

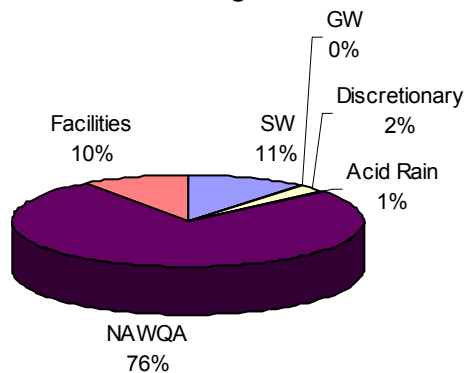
Total = \$4,210,714

SOURCES OF FUNDING 2002

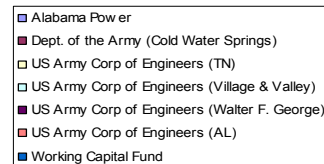
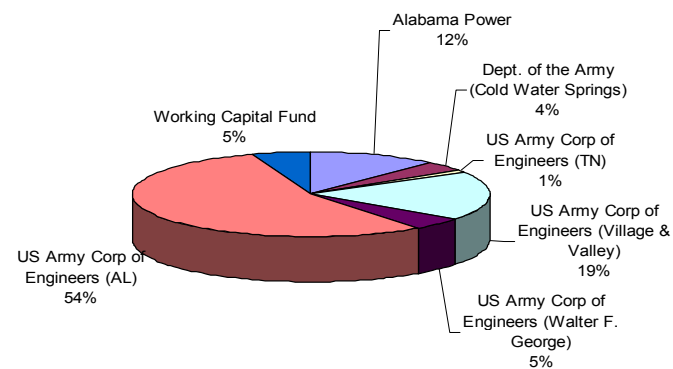


BUDGET (continued)

Federal Program

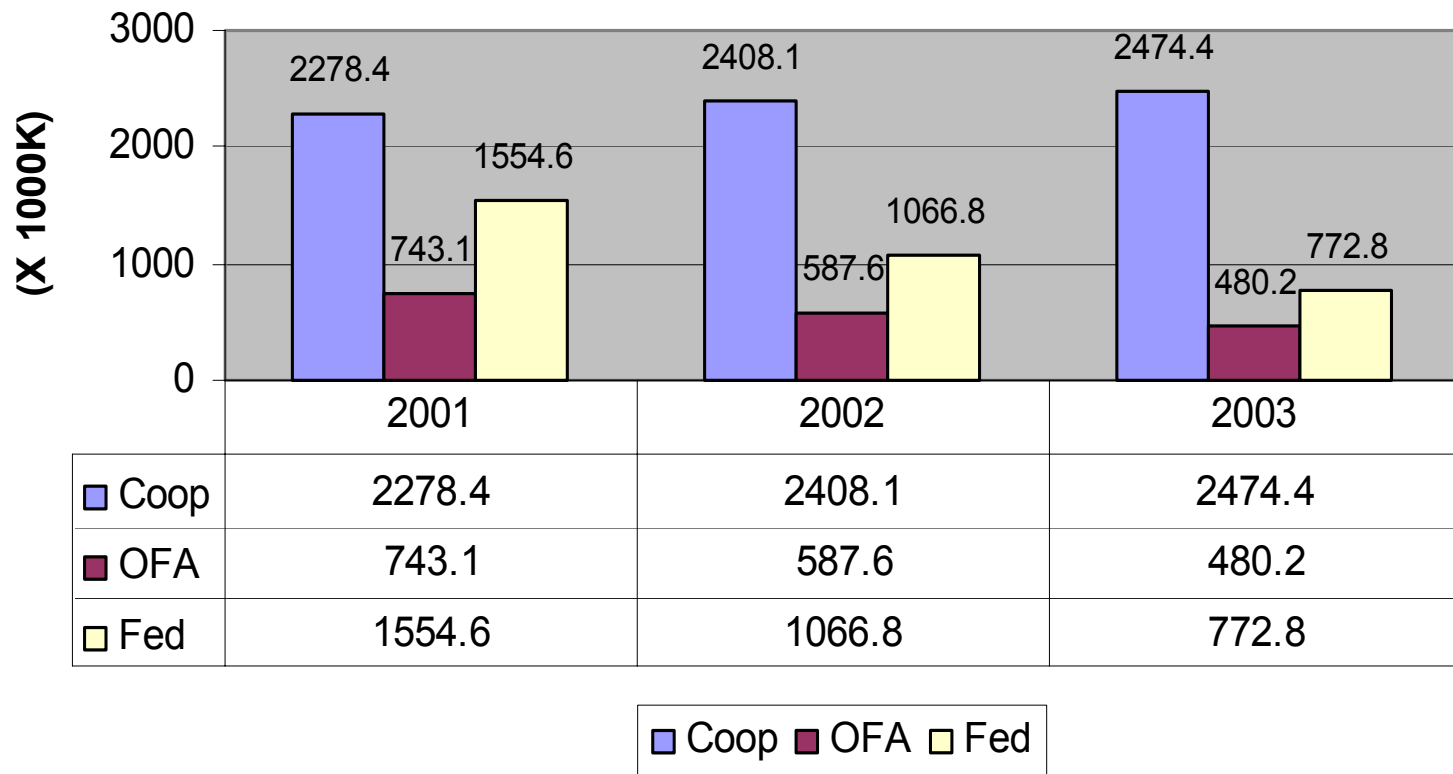


OFA

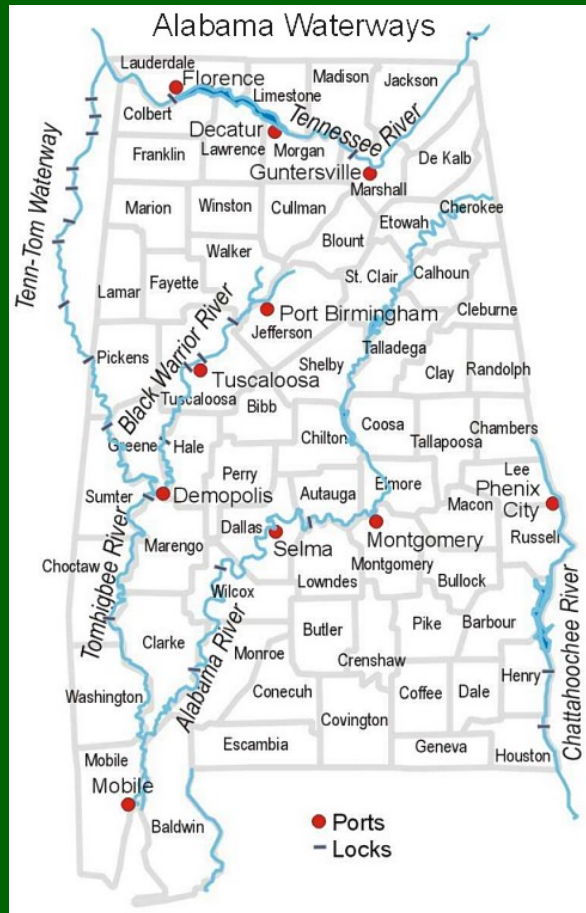


TRENDS IN PROGRAMS (Coop, Federal, OFA)

BUDGET TREND



PROGRAM ISSUES



- DISTRICT PROGRAMS
(strengths and weaknesses)
- STATUS OF FY-02 VS. FY-03

DISTRICT PROGRAMS

Strengths

- Data Section (experienced personnel + top of the line equipment)
- strong Hydraulic Modeling program
- complex Watershed studies (JB Converse Lake, Three Mile Creek, Village & Valley)
- strong capabilities in groundwater studies (limited opportunities)
- strong Safety program
- relationship with cooperators (high % repeat and loyal business)



DISTRICT PROGRAMS

Weaknesses

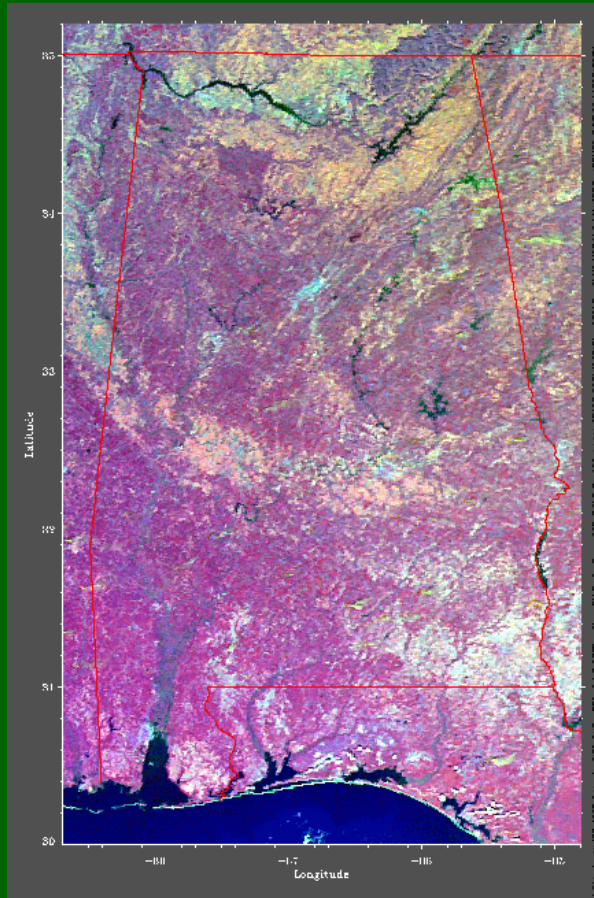
- Groundwater



STATUS OF FY-02 VS. FY-03

- FY-02 budget is doing fairly well
- FY-03 budget is expected to present the AL District with a challenge (-\$148.0K)
 - decrease in NAWQA funds

MANAGEMENT AND ADMINISTRATIVE ISSUES



- REPORTS
- PERSONNEL
- COMPUTER ISSUES AND PLANS
- SAFETY
- SECURITY

REPORTS

Reports and journal articles published and delivered between December 31, 2000 and January 1, 2002)

- Simulations of flooding on the Tennessee River in the vicinity of U.S. Highway 231 near Huntsville, Alabama
- Use of ground-water tracers to evaluate the hydraulic connection between Key cave and the proposed industrial site near Florence, Alabama, 2000 and 2001
- Sedimentation profiles in Lake Tuscaloosa, Alabama, 2000
- Hydrogeologic characterization of the Coldwater Spring recharge area
- Assessment of water quality conditions in J.B. Converse Lake watershed, Mobile County, Alabama: 1990-1998

Reports and journal articles published and delivered after January 1, 2002

- Investigation of Water Quality and Aquatic-Community Structure in Village and Valley Creeks, City of Birmingham, Jefferson County, Alabama, 2000-01
- Ground-Water Quality Beneath an Urban Residential and Commercial Area, Montgomery, Alabama, 1999-2000
- Organochlorine Compounds and Trace Elements in Fish Tissue and Streambed Sediment in the Mobile River Basin, Alabama, Mississippi, and Georgia, 1998

REPORTS (continued)

Upcoming NAWQA Reports for FY-03

- Environmental setting of the Mobile River Basin (WRIR)
- Nutrients in surface waters of the Mobile River Basin (journal article)
- Trace elements and organic compounds in streambed sediment and aquatic biota from the Mobile River Basin, Alabama , August-November 1998 (WRIR)
- Response of fish, invertebrate, and algal communities to a gradient of urbanization in the Valley and Ridge Physiographic Province of Alabama and Georgia (journal article)
- Biological communities as indicators of stream health in the Dolomite Limestone Valleys, USEPA level IV Subcoregion in the Mobile River Basin, Alabama, Georgia, Tennessee, and Mississippi
- Assessing effects of urban land use: toxicity, hormone effects, and biological communities (journal article)
- Recovery of fish communities from drought conditions in the Ridge and Valley Ecoregion of Alabama and Georgia (journal article)
- Ecological characteristics at selected sites in the Mobile River Basin, 1999-2001 (OFR)
- Occurrence and distribution of nutrients, pesticides and suspended sediment in the Mobile River Basin, Alabama, 1999-2001 (WRIR)
- Ground-water quality beneath agricultural areas in the alluvial floodplain of major rivers of the Mobile River Basin (WRIR)
- Chemical evolution of shallow ground water in the Eutaw Formation (journal article)
- Ground-water quality beneath agricultural and urban land-use areas of the Mobile River Basin (journal article)

PERSONNEL

Total Employees	33
• Professional	16
• Technical	10
• Administrative	2
• Support	5

COMPUTER ISSUES AND PLANS

- Budgeted for GS-9 Systems Administrator
- Will utilize support from Tennessee as a replacement for Georgia support (new AL-SA will be mentored by TN-SA)
- Working Capital Fund Investment Plan
 - Acquisition and installation of general purpose ADP equipment, software, supplies and support equipment and peripherals
 - \$50,000/year set aside since FY-99
 - Last contribution in FY-03
 - Total = \$250,000.00

SAFETY



OUR NUMBER 1 PRIORITY

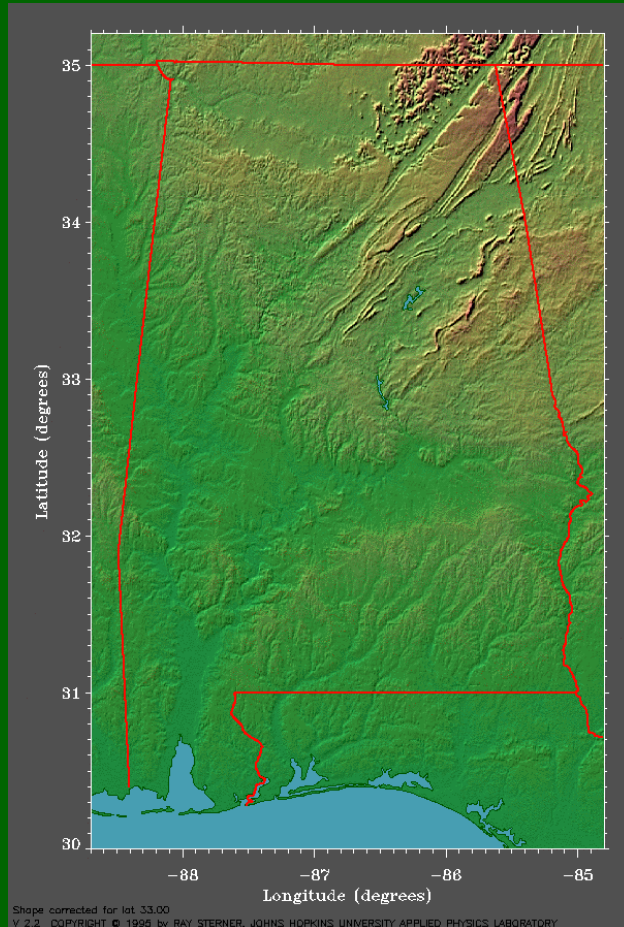
SAFETY

- Safety Review conducted by Roger Rumenik during July 2001. All findings have been responded to and remediated.
- Safety Training completed for entire District during August 1, 2001
(SPR/First Aid, defensive driving, hazardous communication, traffic control plan, traffic control equipment, swift water rescue, fall protection, confined space entry)
- Site specific traffic control plans have been prepared for all SW and QW stations. New and up-to-date equipment for all SW and QW field trips have been purchased and distributed to proper personnel
- Gaging station inspections have been completed and the hazards elimination log has been updated to reflect needed repairs.
- Laboratory, office, and vehicle inspections have been completed.
- JHAs for all SW, GW, and most QW sites have been prepared.
- An immunizations program has been developed and presented to employees.
- All hazardous wastes from Field office has been properly disposed of.
- All hazardous wastes from District office is scheduled for proper disposal.

SECURITY

- Park Place (District Office in Montgomery) is currently secured. key coded locks with and doorbells have been installed.
- Stewart Building (Field Office in Tuscaloosa) – GSA lease expires this September. The AL District intends to relocate the Field Office to another GSA leased facility. Security will be provided with new lease.

FUTURE VIABILITY OF DISTRICT PROGRAM AND ACTIVITIES



- FUTURE PROGRAMS
- FUTURE OPERATIONAL ISSUES
- SHARED RESOURCES
- INSIGHTS
- VISION
- GETTING THERE
- QUESTIONS?

FUTURE PROGRAMS

- Simulation of Flooding of Catoma Creek, Montgomery, AL
- Updating Flood Maps using LIDAR elevation mapping
- Crest-stage gage network along the Gulf Coast
- Groundwater elevation network
- Capital City Plume (NPL caliber site), Montgomery, AL
- Coliseum Boulevard Plume, Montgomery, AL
- Middle and Lower Tallapoosa watershed assessment
- Low-Flow
- Water quality assessment of tributaries to Henry Neely Lake
- Bathymetric map of Lake Tuscaloosa
- Surficial sediment and sediment core for PCBs, Anniston, AL
- EPA Gulf of Mexico Program
- Mercury Task Force – Gulf of Mexico

FUTURE OPERATIONAL ISSUES

- After NAWQA? – District Reorganization

SHARED RESOURCES

- Tennessee District Chief mentoring new AL District Chief
- Tennessee Administrative Officer-staff mentoring new AL-AO and admin staff
- Computer Support from Georgia and Tennessee
- Illustrator Support from various Districts (Puerto Rico, Tennessee)
- GIS and mapping support from various Districts (Tennessee, North Carolina)
- Temporary employee details to other District (Mississippi, South Carolina, North Carolina, Florida)

INSIGHTS

AL is a “hard sale” because:

- several federal, state, local, and private entities are competing for same type of work (funding stays in-house)

ADECA

AL Assoc. of SW & C Districts

AL Agricultural Ext. System

Alabama Forestry Commission

AL Water Watch

Geological Survey of Alabama

Information Services Division

Northwest AL RC & D

Mid-South RC & D

Wiregrass RC & D

SWCC

ADEM

AL Dept. of Ag and Industries

AL Dept. of Cons. & Nat. Resources

AL Dept. of Public Health

Clean Water Partnership

Housing & Urban Development

CAWACO RC & D

Tennessee Valley RC & D

Coosa Valley RC & D

ALA-TOM TC & D/Gulf Coast RC & D

Tennessee Valley Authority

USDA – NRCS – Watershed Science Institute

U.S. Corp of Engineers

U.S. Fish & Wildlife Serv

U.S. Forest Service

USDA Farm Serv

USDA - NRCS

CH2MHill

Malcolm Pirnie

TetraTech

others

VISION

- To become a leader in AL in all earth science related matters
- To be needed and sought after for advice and project related matters (ask USGS)

GETTING THERE

- Increase support staff – hire System Administrator, Webmaster
- Develop Outreach Program (visit schools, sponsor educational events, etc.)
- Attend more meetings (Clean Water Partnership meetings, Environmental Institute, ADEM, ADECA, etc.)
- More presentations at professional meetings
- Become less dependent on other Districts for work that can reasonably be done in house
- Develop better relationships with “competitors” (promote complimenting their programs instead of competing with them)
- Improved Website
- Annual Data Report on CD

QUESTIONS ?



Gunter



Yates Dam



Roland-Cooper



Perry Lake
Haddock



Paul Grist



Cahaba