Report of the

EIGHTY-FIFTH ARIZONA TOWN HALL

"ARIZONA'S WATER FUTURE: CHALLENGES AND OPPORTUNITIES"

Grand Canyon, Arizona October 31 – November 3, 2004

Arizona Town Hall addressed water issues in 1964, 1977, 1985 and 1997. The background report for the 1964 Town Hall quoted a 1963 U.S. Geological Survey Water Supply Paper that is as true of Arizona in 2004 as it was in 1963:

"Arizona's water problem is grave. The beautiful scenery, fine climate and fertile soil, like those of other southwestern states, have combined to entice an even larger number of people to settle there, and water demands have grown accordingly."

Since 1964, an alphabet soup of projects and entities have become reality—ADEQ, ADWR, AMA, CAP, CAWCD and GMA, just to name a few. However, the problem remains; current Arizonans, and the millions more who will join us in the future, live in an arid region and need water.

Continuing its commitment to address water issues, and recognizing the challenges and opportunities facing Arizona now and in the future, Arizona Town Hall again turns its eyes to water. The Eighty-fifth Arizona Town Hall welcomed 177 participants to the South Rim of the Grand Canyon on October 31-November 3, 2004 for three days of debate on "Arizona's Water Future: Challenges and Opportunities."

Community leaders, experts and residents from throughout the state gathered to address the issues and seek consensus. The following conclusions and recommendations represent areas of consensus reached by the participants. While not all of the Town Hall participants agree with each of these conclusions and recommendations, this report reflects the significant degree of consensus achieved at the Eighty-fifth Arizona Town Hall.

Expectations and Goals

Arizonans expect a safe and reliable water supply to support Arizona's diverse and increasing population, sustain our varied economic interests and preserve our wonderful quality of life now and for future generations. Arizonans demand certainty that water will be available to support both consumptive and non-consumptive uses including when they turn on the tap, open irrigation pipes, visit recreation areas and to sustain natural habitats.

To meet these expectations, participants identified research, data collection, education, strategic planning, conservation, environmental protection and increased coordination as goals. Through statewide

leadership and local control, Arizona must address regional concerns while improving water quantity and quality. Regardless of our expectations and goals, water is going to become more expensive.

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Current Challenges

Although Arizona and other Colorado River basin states are suffering from a drought, many Arizonans do not understand the critical nature of Arizona's water challenges. In the short term, all Arizonans must be educated about the severity of the issue, supply limitations and potential solutions. In essence, Arizonans need to become water literate.

Other short-term challenges include drought response, voluntary water transfers and cooperation between public and private entities, tribal communities, basin states and Mexico to protect and restore aquifers. Many of these issues also are long-term challenges.

To avoid crisis management, Arizona must engage in long-term planning based on good science and data collection that should be made widely available throughout the state. A statewide water assessment plan, taking into consideration regional needs, must be implemented by state and local policymakers. The statewide drought plan should be finalized, adopted and implemented by the state and

To avoid crisis management, Arizona must engage in long-term planning based on good science and data collection that should be made widely available throughout the state. local policymakers by the end of 2006. Planners also must evaluate what levels of population can be sustained by available water supplies. Further research and development of new technologies should be part of the long-term strategy to improve water supplies.

Continuing efforts to reduce uncertainty requires resolving water rights disputes, identifying supplies and uses and estimating

population growth. Such efforts are necessary to develop and implement both long and short-term goals. Arizona now must address both short and long-term challenges.

Water Supplies

Sustainability of water supplies should be the primary goal of the state. Participants generally accepted the background report's working definition of sustainability as "the ability of current generations to meet their needs without compromising the ability of future generations to meet their needs." However, the measurement and implementation of "sustainability" varies by region.

Safe yield, which is a subset of sustainability, is defined as a long-term balance between the annual withdrawal and recharge of groundwater. This basin-wide concept may not address localized areas of groundwater overdraft. Safe yield is an appropriate goal for the AMAs where it applies, but may not be suitable for all areas. Management goals should reflect local conditions.

...the collection and dissemination of information about water supplies and demand is a statewide concern and must be improved, particularly in non-AMA areas. ...ADWR should be responsible for such research and communication and coordinate long-range, statewide water planning.

Past predictions of water supply and demand have been inadequate at best. Participants strongly agreed that the collection and dissemination of information about water supplies and demand is a statewide concern and must be improved, particularly in non-AMA areas. The Arizona Department of Water Resources (ADWR) should be

responsible for such research and communication and coordinate long-range, statewide water planning. Adequate and sustained funding must be provided for such activities.

Water Options

Conservation is the most important method to increase the longevity of existing water sources. Conservation requires comprehensive public education beyond slogans and sound bites. Pricing of water, to reflect its long-term cost, recognizing existing contract requirements, is the most effective conservation tool. Consideration should be given to step and block pricing as a tool of conservation. Incentives, not penalties, should be offered to encourage conservation.

Recycling water and efficient use of effluent must be expanded beyond current processes. Although expensive, recycling has proven to be a useful technology. The quality of recycled water should be improved to expand its potential use. Public awareness and education about the safety of water treatments could lead to use of recycled water for human use.

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Existing regulations should be amended or new regulations adopted to allow expanded use of quality recycled water.

Water exchanges within Arizona, including tribal communities, and with other states should be explored. If legal issues regarding water transferability can be resolved, water exchanges or sales from agricultural users could increase water availability to non-agricultural users.

Financial participation with California and Mexico in desalination of sea water should be explored as a means to increase Arizona's share of Colorado River water. While sea desalination technology is improving, the cost and environmental impact may be an obstacle to current use.

Proper watershed management of new water reclamation projects, such as collection of storm water run-off, can utilize and redistribute water supplies. Water banking practices should be improved and expanded.

Arizona must continue developing and testing new technologies to improve efficiency in production and transfer capability and prevent contamination. New technologies and sources also raise new concerns, such as costs, legal issues, environmental impacts and diversion of infrastructure investment.

The viability of the various water options is a product of values, priorities, public perceptions, education and economics.

Water Management

Compared to other states, Arizona effectively manages water, particularly within AMAs. The strength of the AMAs is the flexibility to adapt to the needs of particular localities. The AMAs must recognize that their decisions impact other regions. AMAs should evaluate their procedures in light of balancing population growth and water supplies.

Non-AMA areas should have management tools specific to the needs of each region. In areas outside AMAs, water users, water sources and environmentally sensitive areas have few protections. For example, wildcat subdivisions resulting from lot splitting and exempt wells are significant issues in both AMA and non-AMA areas and make strategic planning problematic. Non-AMA areas should have management tools specific to the needs of each region. Such tools include

the authority to meter wells and report the results, regulate exempt wells, impose water impact fees and authorize local governments to restrict subdivision development to only areas with adequate water supplies in order to insure adequate supplies for new growth and protect existing water users.

While water shortages have prompted many communities to better manage their resources, it is imperative that communities plan for water shortages before they occur.

To avoid crisis management, the ADWR must play a bigger role in water management and be proactive. It should immediately implement a comprehensive water storage and recovery planning process. It must have the necessary funds, staffing and resources to accomplish its goals. ADWR also can encourage conservation and facilitate cooperation between regional management entities.

Management policies should encourage conservation. Where appropriate, market forces should be allowed to reflect the long-term cost of water and promote its efficient use. Management policies should

ensure accurate data collection and information dissemination throughout the state.

A comprehensive water banking system should be further developed. The system must ensure that proper locations are used, a means of recovery is provided, and the quality of the banked water is considered.

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Maximum use of Natural Resource Conservation Districts should be utilized because they are a legal subdivision of state government with locally elected officials. They have been in water conservation activities for more than fifty years.

Balancing Economic and Population Growth

Water needs to be recognized as a key factor in managing growth in both urban and rural areas. Continuing pressure for growth is a fact of life. At some point, the exceptional quality of life enjoyed by Arizonans may be affected unless new populations can pay for the water resources required to support them.

Sound water policy is an important contributor to Arizona's economic vitality. Effective water management and infrastructure investment sustain economic health. Agricultural economies in rural areas depend on available and affordable water.

Arizona should create incentives for more efficient industrial water use.

Active Management Areas

Existing AMAs generally are effective but need some modification. A major concern is the rapid growth of the Central Arizona Groundwater Replenishment District (CAGRD) membership and the District's ability to meet the growing long-term replenishment obligations. Another concern is that

New or amended legislation also is required to empower counties and local entities to address water management issues.

developers are rushing to develop land on untapped aquifers and in non-AMA areas located just outside AMA boundaries.

New or amended legislation also is required to empower counties and local entities to address water management issues such as water adequacy for subdivisions, lot split authority, land use and monitoring of water resources and recording of

statements of adequacy or inadequacy. In addition legislation should be considered to authorize locally initiated and operated regional water authorities for coordinated management of regional water resources.

Environmental and Quality of Life Issues

Water management should be approached in a multi-faceted manner. It should include producing quality water, restoring and sustaining healthy ecosystems and providing recreational uses, while also addressing the needs of agriculture, industry and domestic water users and water providers. These goals will require increased levels of funding to meet higher costs.

Quality of life and healthy natural environments are mutually dependent, not mutually exclusive. Comprehensive, multi-use watershed planning is essential to assure a sustainable water supply for human use while maintaining a healthy natural environment such as preserving the natural flow in our remaining river systems, including the Verde, San Pedro and Upper Gila Rivers. In-stream groundwater recharge programs can concurrently support riparian preservation and recreational areas.

To improve watershed health, Arizona must manage the vegetation in watersheds to decrease non-native plants. Ongoing forest management, including reduction of forest and woodland tree densities and restoring grasslands, will improve watershed health and provide recharge for our communities, recreation and wildlife. Riparian areas need to be protected and, where feasible, restored using

appropriate tools such as the well setback recommendations of the Governor's Water Management Commission. Consideration should be given to existing uses in watershed areas.

Federal, state and local governments should improve inter-agency communication and coordination of goals and activities. They also must work together to implement and enforce environmental regulations and protections. Additional funding and support should be developed for existing programs, including programs based on the Endangered Species Act – Section 10, such as the Lower Colorado River Multi-Species Conservation Program and the Arizona Water Protection Fund.

Citizen participation in policymaking must be encouraged to develop trust and identify common ground between groups. Communication and mediation, not litigation, are most effective for resolution.

Colorado River Water

Arizona's allocation of water from the Colorado River is critical to the state's current and future economic vitality. Because of the junior status of the CAP and other Arizona post-1968 contractors

Arizona must defend its current water rights.... Negotiations between states should include establishment of shortage criteria. among the recipients of water in the Lower Basin, improving their priorities requires unified and significant, but not impossible, efforts.

Arizona must defend its current water rights, while at the same time work to maintain good relations with its sister river basin states. The current drought has necessitated more dialogue between the

states. Negotiations between states should include establishment of shortage criteria.

Arizona's agricultural users are particularly concerned about Arizona's current priority. Agricultural water users and other post-1968 contractors are concerned about the priority of their water rights because they will be the first to lose water if shortages occur in the Lower Basin.

Storage reservoirs along the Colorado River, such as Lake Powell, should continue. Operation of the Yuma desalination plant is the responsibility of the federal government and is critical to the resolving of delivery of water to Mexico while protecting environmental values. Utilization should be expedited, recognizing the need to maintain adequate flows to the Cienega consistent with U. S. treaty obligations. The 1964 Arizona Town Hall stated that "no solution should be suggested or implemented that would result in any water in the Colorado River entering Mexico which is not chargeable to Mexico's treaty allocation." Forty years later, 100,000 acre feet per year of water is being removed from storage, delivered to Mexico, and not charged to the Mexican treaty obligation. Operation of the Yuma desalination plant would preserve this water and keep delivering to Mexico within the treaty obligation.

The water quality of the Colorado River continues to be a major concern for all users.

Native American Water Claims

Native American water claim settlements present great opportunities for collaboration between non-tribal communities and tribes on water and non-water related issues, but challenges remain. The resulting certainty of allocations and supplies will allow policymakers to move forward with planning.

The tribal communities in Arizona have a tremendous economic opportunity as a result of the settlements, including leasing water rights to municipalities, developing their own agricultural interests and/or using their rights in other ways. Inter-governmental collaboration about infrastructure development and water exchanges should occur.

The stakeholders in the settlement of Native American claims are commended for their remarkable achievements. Remaining Native American water claims should be resolved as quickly as possible through negotiation and not costly litigation.

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Fluctuating Water Supplies

Arizona must prepare for the variability of water supplies. Collaboration about the effect of fluctuating water supplies should involve all levels of government and should include all stakeholders. However, the state, through ADWR, should take the lead in strategic planning. ADWR should collect and disseminate necessary information, establish guidelines and monitor activities to address the fluctuations. Drought contingency planning should be a top priority, and all providers and communities should be required to have drought contingency plans.

Local entities need to have the tools necessary to develop comprehensive watershed plans and to enforce their implementation. Coordination with state agencies, such as the Arizona Corporation Commission (ACC), Arizona Department of Environmental Quality (ADEQ), ADWR and other agencies should occur.

Private water companies should be given greater flexibility to adjust pricing to reflect the long-term cost of water, to pay for additional planning, to develop appropriate infrastructure investment and to promote conservation. Pricing flexibility and clearly established drought mitigation criteria are necessary.

Flood plain management should be an integrated component of land use plans, with a focus on ensuring natural flows, encouraging recharge and protecting riparian habitats in addition to the primary purpose of protecting homes, businesses and farmlands. In some areas of the state, water logging is a greater concern than shortages, and these areas could be a source of supply. Expanding the portfolio of water options will reduce, but not eliminate, the impact of fluctuating supplies. Town Hall believes that water banking is a beneficial use and therefore, recommends that water banking continue through entities such as the Arizona Water Banking Authority.

The conversion of agricultural water use to municipal and industrial use is a continuing trend, but consideration should be given to policies designed to preserve a significant measure of agricultural use. Such use can act as a buffer — providing increased water resources in times of critical shortage.

Water Conservation

Although Arizona has made progress in water conservation compared to other states, more must be done to create a culture of conservation. Societal values must adjust to desert and arid region realities.

Conservation should be a duty of all water users

Conservation should be a duty of all water users regardless of water availability.

regardless of water availability. Mandatory use restrictions and other conservation measures may be necessary in times of water shortage.

A statewide water conservation framework should be put into place, with local communities developing specific conservation plans. Plans should take into consideration the various economic interests in each region, for example tourism and agricultural uses. Local water policymakers should develop baseline conservation goals, measure progress and establish trigger mechanisms to implement mandatory practices if voluntary conservation is not adequate.

General access to water must remain affordable. Alternative pricing structures should be explored and developed to allow basic access and discourage waste. Institutional barriers, such as certain inflexible ACC policies, currently undermine such efforts.

Education programs for all Arizonans are critical to create a statewide conservation ethic and encourage participation in conservation activities. Arizona should take a national leadership role in developing and implementing a new K-12 conservation curriculum that is aligned to state educational standards.

Financial incentives for conservation should be offered for low water use landscape modifications and installations, conservation easements and new technologies. Policymakers should evaluate existing water subsidies and not reward wasteful practices.

Current Resources

A number of effective programs and institutions, staffed with talented people, exist to address Arizona's water needs. However, these resources are inadequate to resolve Arizona's current and future challenges.

ADWR must play a central leadership and advocacy role. The Agency's statewide mission should be expanded and strengthened in the areas of policy development, planning and data collection. ADWR's strategic plan should be implemented by local policymakers on a regional basis. Town Hall recommends that a primary objective in any planning process is for ADWR to collect comprehensive

... a primary objective in any planning process is for ADWR to collect comprehensive hydrological data on all Arizona water resources, including water quality in conjunction with ADEQ, and disseminate such information throughout the state.

hydrological data on all Arizona water resources, including water quality in conjunction with ADEQ, and disseminate such information throughout the state. It also should lead in the statewide conservation campaign. Town Hall recognizes that ADWR is significantly under-funded and understaffed.

Non-AMA communities need ADWR to serve a central research and coordination

function to provide accurate assessment data on water supplies and demand.

Town Hall recommends that additional dedicated funding be provided to ADWR to fulfill its mission. In addition to increased general budget appropriations, new funding mechanisms should be explored.

Town Hall commends the establishment of the virtual "water university" that, working with the public and private sectors, brings together the resources of Arizona State University, Northern Arizona University and the University of Arizona. Collaborative efforts also should include community colleges and other educational institutions.

New Infrastructure

Existing infrastructure should be improved and maintained. Additional physical infrastructure required to assure adequate quality and water delivery include the following: pipelines, storage facilities,

the means to deposit and recover recharged water and recover storm-water, more and improved water treatment and transfer facilities, and additional monitoring equipment.

Proper funding is necessary for physical infrastructure. The cost of any new infrastructure should be evaluated in light of its anticipated benefits. Cost analysis should include anticipated future maintenance costs.

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New Information and Planning Resources

While significant information and planning resources exist in AMAs, there are major data gaps regarding non-AMAs and all wells. There is a need for improved collaboration among the various holders of available information. Public officials often lack necessary information to make effective water management decisions. Local officials often lack funding for travel to training or the ability to bring the expertise to their community for education of those in leadership roles. Arizona's virtual water university concept is an example of positive collaboration and accessibility to information and expertise.

In order to plan effectively, more information about population growth, statewide water plan assessment, supply and demand, the nature and quality of resources must be obtained. Additionally, ADWR needs to complete more studies and provide more information to users and planners. Regular monitoring activities also must improve.

Funding

Water management policies and information needs deserve to be among the very highest priorities for state funding. Arizonans should participate in funding water management strategies necessary to secure Arizona's water future. Costs caused by growth should be funded by growth. Costs of ADWR and programs that have wide benefits should be broadly funded. Funding options include:

- Bonding;
- Exempt well fees;
- Federal programs such as Water 2025;
- Surcharges;

- Permit and impact fees;
- Private sector donations coupled with tax credits or deductions;
- Property taxes; and
- User taxes.

The primary recommendation from this Town Hall is that dedicated and secure funding sources be created to finance Arizona's critical water management, planning and infrastructure needs. Without such secure funding, the other recommendations of this report are not achievable.

TOWN HALL REPORT COMMITTEE

Scott A. Malm, Attorney; Gust Rosenfeld, P.L.C., Phoenix (*Report Chairman*)

Tracey Bardorf, Gallagher & Kennedy, P.A., Phoenix

Robert Ferrier, Attorney; Law Clerk, Arizona Supreme Court, Phoenix

Sharon Flanagan-Hyde, President, Flanagan-Hyde Solutions, L.L.C., Scottsdale

David Garbarino, Attorney, Mohr, Hackett, Pederson, Blakley & Randolph, P.C., Phoenix

Matthew Meaker, Attorney, Koeller, Nebeker, Carlson & Haluck, L.L.P., Phoenix

PANEL CHAIRS

John Gordon, Superintendent, Cave Creek Unified School District No. 93. Cave Creek

Tara L. Jackson, Attorney, Bonnett, Fairbourn, Friedman & Balint, P.C., Phoenix

Alan R. Kennedy, President, A. R. Kennedy Company; Former Vice Mayor & City Councilmember, Phoenix

John Neibling, Dean of Instruction, Scottsdale Community College, Scottsdale

Cathy Ott, Realtor, Century 21 Highland Realty Co., Kingman

TOWN HALL SPEAKERS

The Honorable Janet Napolitano, Governor of Arizona, Phoenix

Bennett Raley, Assistant Secretary for Water & Science, U. S. Department of the Interior, Washington, D.C.

Pat Mulroy, General Manager, Southern Nevada Water Authority, Las Vegas, Nevada

Dennis Underwood, Vice President, Metropolitan Water District of Southern California, Los Angeles, California

TOWN HALL RESOURCE CONSULTANTS

Marshall Worden, Associate Director, Office of Economic Development; Project Director, Science & Technology Park, University of Arizona, Tucson (*Project Coordinator*)

Kathy Jacobs, Professor, Soils, Water & Environmental Science, Water Resources Research Center, University of Arizona, Tucson

Sharon Megdal, Director, Water Resources Research Center; Professor, Agricultural & Resource Economics, University of Arizona, Tucson

Gary Woodard, Associate Director, NSF Center for Sustainability of Semi-Arid Hydrology & Riparian Areas, University of Arizona, Tucson

PLENARY SESSION PRESIDING CHAIRMAN

Alan E. Maguire, Chairman of the Board, Arizona Town Hall; President, The Maguire Company, Phoenix

LIST OF PARTICIPANTS

Karen Abraham, Vice President, Finance, Blue Cross Blue Shield of Arizona, Phoenix

Scott Alexander, President, Public Policy Associates, L.L.C., Tucson

Cecil Antone, Director, Office of Water Rights, Gila River Indian Community, Chandler

F. R. (Roc) Arnett, President & C.E.O., East Valley Partnership; Ret. Sr. Vice Pres., Marsh USA Inc., Mesa

Lisa A. Atkins, Vice President, Public Policy, Greater Phoenix Leadership; Board Member, Central Arizona Water Conservation Dist., Litchfield Park

William M. Auberle, Director, Engineering Programs, College of Engineering & Natural Sciences, Northern Arizona University, Flagstaff

Roger S. Bailey, Utilities Director, City of Glendale

Alejandro Barcenas, Director, Santa Cruz Active Management Area, Arizona Dept. of Water Resources, Nogales

Geoffrey S. Barnard, President, The Arboretum at Flagstaff

Loyd Barnett, Ret. Forester & Hydrologist, U.S. Forest Service; Chair, Verde Watershed Association, Sedona

Robert Berger, Grants Program Manager, Nina Mason Pulliam Charitable Trust, Phoenix

Gary Bohnee, Chief of Staff, Governor's Office, Gila River Indian Community, Sacaton

Harlan Bohnee, Chairman of the Board, Gila River Indian Irrigation and Drainage District, Sacaton

Timothy R. Bray, President, Southwest Community Resources, Inc., Scottsdale

John O. Breninger, Ret. Engineer, Hughes Aircraft Co., Jet Propulsion Lab, Pine

Barbara Brewer, Mayor; Owner, Swiss Beauty Connection and Brewer Enterprises, Payson

John Brock, Coordinator, Sustainable Technologies, Agribusiness & Resources Research Center; Professor, Dept. of Applied Biological Sciences, A.S.U. East, Mesa

Naomi I. Bryant, Financial Consultant & Writer, Fountain Hills

Ken Buchanan, Assistant Pinal County Manager, Florence

Tom Buschatzke, Water Advisor, City of Phoenix

Jean Calhoun, Director, External Affairs, The Nature Conservancy, Phoenix

Sam Campana, Vice President & Executive Director, Audubon Arizona; Former Mayor, Scottsdale

Thomas Carter, Vice President, Marketing & Development, Long Mountain Development, Inc.; City Councilmember, Kingman

James M. Cavanaugh, Mayor; Owner & Designated Broker, Cavanaugh Realty, Goodyear

Sheldon D. Clark, Vice President, Haley & Aldrich, Inc., Tucson

Marvin Cohen, Attorney, Sacks Tierney, P.A., Scottsdale

Patrick Cook, Student (Pre-Pharmacy); Senate Aide, Associated Students, University of Arizona, Tucson

Paul N. Critchfield, Lifetime Trustee, The Virginia G. Piper Charitable Trust, Paradise Valley

Fred W. Croxen, III, Professor, Geology, Arizona Western College, Yuma

Dannion Cunning, President & C.E.O., Lake Havasu Convention & Visitors Bureau, Lake Havasu City

Ronald C. Curtis, Vice President, The Stockmen's Bank, Sierra Vista

Gilbert Davidson, City Manager, Willcox

Stephen E. Davis, Vice President, Malcolm Pirnie, Inc., Phoenix

Melissa Debnar, Graduate Student (Environmental Resources), Arizona State University East, Mesa

Rand Decker, Professor, Civil Engineering; Special Assistant to Director, Engineering Programs, College of Engineering & Natural Sciences, Northern Arizona University, Flagstaff

Constantine J. Dillon, Superintendent, Horace M. Albright Training Center, National Park Service, Grand Canyon

Betty Drake, City Councilmember; President, Drake & Associates, Scottsdale

Thomas L. Duranceau, City Planning Director, Kingman

Kayla Eckert, Water Resources Planner, U. S. Army Corps of Engineers, Phoenix

Steven Eddy, Student (Geography); Senator, Associated Studies, University of Arizona, Tucson

Michael S. Ellegood, Director, Public Works & Transportation; County Engineer, Maricopa County Dept. of Transportation, Phoenix

Pat Esparza, Investigator, U. S. Investigations Services (USIS), Mesa

Bill Fain, President: Fain Land & Cattle Co.; Owner, Fain Signature Group, Prescott Valley

Dan Field, Town Manager; Attorney, Quartzsite

Jerry Flannery, Deputy Manager, Coconino County, Flagstaff

David Fodor, Student (Political Science & History), Glendale Community College, Phoenix

Chuck Freitas, President, Falcon Pools, Inc., Tucson

Grady Gammage, Jr., Attorney, Gammage & Burnham, P.L.C., Phoenix

William M. Garfield, President, Arizona Water Company, Phoenix

Maureen George, City Attorney; Board Member, Arizona Water Bank, Lake Havasu City

Tim Gibson, Water Resources Analyst, Phelps Dodge Corp., Phoenix

Urban L. Giff, Community Manager, Gila River Indian Community, Sacaton

Robert Giocomo, General Manager, Lakin Milling Co. and Lakin Cattle Co., Avondale

Tony Gioia, Town Councilmember; U. S. Postal Service Employee, Camp Verde

Gerald D. Giss, City Councilmember, Yuma

Marvin F. Glotfelty, Co-Founder & Principal Hydrogeologist, Clear Creek Associates, Scottsdale

John Gordon, Superintendent, Cave Creek Unified School District No. 93, Cave Creek

Patrick Graham, Vice President & State Director, The Nature Conservancy-Arizona, Phoenix

Ronald Green, Mayor; Territory Sales Manager, Corriosion Engineering, Safford

Bill Greenwood, Town Manager, Eagar

Thomas E. Griffin, Owner, Griffin & Associates; Chairman, Mohave County Water Authority, Bullhead City

Herb Guenther, Director, Arizona Dept. of Water Resources, Phoenix

Albert A. Gugenberger, C.E.O., Sun Life Family Health Center, Inc.; City Councilmember, Casa Grande

Philip Halpenny, President, Water Development Corp., Tucson

James Henness, Cotton Farmer, Henness & Henness, Casa Grande

James H. Holt, Area Director, Prescott Active Management Area, Arizona Dept. of Water Resources, Prescott

James Holway, Assistant Director, Arizona Dept. of Water Resources, Phoenix

R. Grant Howard, Ret. Engineer, Phelps Dodge Corp., Duncan

Michael T. Hutchinson, City Manager, Mesa

Ervin Jackson, President, Nalnishii Federation of Labor (Navajo), Farmington, New Mexico

Tara L. Jackson, Attorney, Bonnett, Fairbourn, Friedman & Balint, P.C., Phoenix

Clancy Jayne, Arizona State Representative (Dist. 6), Phoenix

Paul C. Johnson, Associate Vice Pesident, Research; Professor, Civil & Environmental Engineering, Arizona State University, Tempe

Alan R. Kennedy, President, A. R. Kennedy Company; Former Vice Mayor & City Councilmember, Phoenix

Michael Kennedy, Attorney; Founding Ptr., Gallagher & Kennedy, Phoenix

Roger Klingler, Assistant City Manager, Scottsdale

Yvonne Knaack, Owner/Agent, State Farm Insurance Agency, Glendale

Norman L. Knox, Owner & Ptr., 4K Farms; Norman L. Knox Ranch, Chandler

Karl Kohlhoff, National Technical Director-Water, HDR Engineering-Architecture, Gilbert

Steve Koski, Mill Manager, Phelps Dodge Bagdad Inc., Bagdad

Michael Leonard, General Manager, Roosevelt Water Conservation District, Higley

Rod Lewis, Attorney; General Counsel, Gila River Indian Community, Sacaton

Caroline Lobo, Architect; Associate, The Orcutt/Winslow Partnership, Phoenix

Barbara Lockwood, EHS Initiatives Manager & Sr. Policy Advisor, Arizona Public Service Co., Phoenix

F. Mack Luckie, Executive Director, Yuma Metropolitan Planning Organization; Ret. Col., U.S.M.C., Yuma

Gayle Mabery, Town Manager, Clarkdale

Anita MacFarlane, Retired Registered Nurse; Former Mayor, Sedona

Rita P. Maguire, President & C.E.O., ThinkAz - Arizona Center for Public Policy; Former Dir., Az. Dept. of Water Resources, Phoenix

Roger S. Manning, Executive Director, Arizona Municipal Water Users Association, Phoenix

Don P. Manthe, Chief Environmental & Civil Engineer, StanleyEngineering, Phoenix

Douglas D. Mason, General Mangaer, San Carlos Irrigation & Drainage District, Coolidge

Lance K. Mason, Project Manager, Severn Trent Services, Inc., Environmental Services Group, Chandler

Claude Mattox, City Councilmember; Vice President & Associate Broker, National Western Vistas Real Estate, Phoenix

Robert McNichols, Real Estate Developer, Daedalus Real Estate Advisors, L.L.C., Phoenix

Walter W. (Bill) Meek, President, Arizona Utility Investors Association, Phoenix

Mandy Roberts Metzger, Operations Team, The Diablo Trust; Consultant, Flagstaff

Benjamin H. Miller, Manager, Real Estate Investments, Miller Bros., L.L.C, Sedona

Robert Mitchell, Ret. Teacher; Former Mayor, Casa Grande

David Modeer, Director, Water Dept., City of Tucson

Richard N. Morrison, Rector, Episcopal Church of the Epiphany; Attorney, Flagstaff

Irval Mortensen, Attorney, Mortensen Law Office, Safford

Richard P. Narcia, Governor, Gila River Indian Community, Sacaton

John Neibling, Dean of Instruction, Scottsdale Community College, Scottsdale

Michael C. Nelson, Settlement Judge/Mediator, Phoenix

David M. Newlin, Town Manager, Duncan

Wade Noble, Attorney, Noble Law Office, Yuma

Thomas C. O'Halleran, Arizona State Representative (Dist. 1), Sedona

David Olney, Site Development Manager, Public Affairs Dept., Intel Corp., Chandler

John Olsen, Partner, Olsen's Grain, Prescott

Paul R. Orme, Attorney; President, Paul R. Orme, P.C., Mayer

Cathy Ott, Realtor, Century 21 Highland Realty Co., Kingman

Stephen A. Owens, Director, Az. Dept. of Environmental Quality; Attorney, Phoenix

Melissa Patafio, Student (American Indian Studies), Scottsdale Community College, Cave Creek

Mike Pearce, Attorney; Director, Fennemore Craig, P.C., Phoenix

Dick Powell, Owner, Powell Feed & Supply, Inc.; City Councilmember, Casa Grande

Janet Quackenbush, Realtor, Coldwell Banker McCarty Realty, Show Low

Ingo Radicke, General Manager, Cable One, Globe

F. Ronald Rayner, Partner, A Tumbling T Ranches; President, Farmers Gin, Inc., Goodyear

George Renner, Owner, Renner's Realty & Insurance; President, Central Arizona Water Conservation Dist. Board, Glendale

David Rhoades, Manager, Resource Management, Phelps Dodge Morenci Inc., Morenci

John J. (Jay) Rhodes, III, Attorney; Special Counsel, Hunton & Williams (Consultant to CAP), Washington, D.C.

David C. Roberts, Manager, Water Rights & Contracts, Salt River Project, Phoenix

Orlenda F. Roberts, Assistant Superintendent, Pinal County School Office, Florence

Carl Robie, Cochise County Water Conservation Coordinator, Bisbee

Priscilla Robinson, Ret. Public Affairs Consultant - Water & Environmental Issues; Former Exec. Dir., Southwest Environmental Service, Tucson

Jorge Rodriguez, Program Advisor, Student Life & Leadership, Scottsdale Community College, Scottsdale

Mike Saldivar, General Manager, Arrowhead Country Club, Glendale

Eugene G. Sander, Vice Provost & Dean, College of Agriculture & Life Sciences, University of Arizona, Tucson

Shiela Schmidt, Attorney; Ptr., Jennings, Strouss & Salmon, P.L.C., Phoenix

Kenneth Seasholes, Area Director, Tucson Active Management Area, Arizona Dept. of Water Resources, Tucson

Scott Shill, Cattle & Feedyard Manager, McElhaney Cattle Co., Wellton

Robert L. Shuler, Lobbyist; Principal, FourSquare Group, Phoenix

Pete Shumway, Member, Navajo County Board of Supervisors (Dist. IV), Taylor

Wayne D. Silberschlag, Architect; President, Burlini/Silberschlag, Ltd., Tucson

Stephanie Sklar, Executive Director, Arizona League of Conservation Voters, Phoenix/Tucson

J. Dean Slavens, Mayor; Real Estate Broker, Page

Trevor Smith, Student (Political Science); Vice President, Associated Students, Chandler Gilbert Community College, Phoenix

Gary Spivey, Epidemiologist, Cochise County Health Dept., Bisbee

Jennifer Sprung, Science Educator, Tucson Unified School Dist.; Teacher-in-Residence/Adjunct Faculty, College of Science, University of Arizona, Tucson

Alan J. Stephens, Chief of Staff-Operations, Governor's Office, Phoenix

Dorothy P. Stephens, Retired; Former Thoroughbred Horse Breeder & Racing, Phoenix

Phillip Stika, Regional Vice President, American Golf Corporation, Glendale

Lauren Storer, Student (Honors Program), Scottsdale Community College; Eagle Picher, Inc., Scottsdale

Lee A. Storey, Attorney; Ptr., Moyes Storey, Ltd., Phoenix

Robert B. Strain, Mayor Pro Tem & City Councilmember, Sierra Vista

Mark R. Stratton, General Manager, Metro Water District, Tucson

John F. Sullivan, Associate General Manager, Water Group, Salt River Project, Phoenix

James R. Sweenev, General Manager, Maricopa Water District, Waddell

Larry Tarkowski, Interim Town Manager & Public Works Director, Prescott Valley

Oren Thompson, Board Member, Yavapai Regional Medical Center; Ret. Assoc. Gen. Mgr., Customer, Mkting & Water Svcs., Salt River Project, Prescott

Preston Thymes, Student (Honors Program), Rio Salado College, Glendale

Richard W. Tobin, II, Attorney, Lewis and Roca, Phoenix

Nichole Trushell, Executive Director, Highlands Center for Natural History, Prescott

Deborah Tuck, President, Grand Canyon National Foundation, Flagstaff

Richard S. Walden, President & C.E.O., Farmers Investment Co.; Commissioner, Arizona Power Authority, Sahuarita

Buzz Walker, Public Works Director, Town of Payson

Ron E. Walker, Mohave County Manager, Kingman

Grant Ward, General Manager: Santa Cruz Water & Power Dist. Assn.; Maricopa-Stanfield Irrigation & Drainage Dist.; Electrical Dist. No. 3, Maricopa

John B. Weldon, Jr., Attorney; Ptr., Salmon, Lewis & Weldon, P.L.C., Phoenix

William E. Werner, President, Arizona Chapter, The Wildlife Society; Ret. Aquatic Habitat Coordinator, Az. Game & Fish Dept.; Environmental Program Manager, Az. Dept. of Water Resources, Phoenix

Larry H. Whipple, Farmer; Rancher; Commercial Property Leasing & Contracting; President, Show Low-Pinetop Woodland Irrigation Co., Show Low

Vicki Wilkinson, Rancher; Running W Ranch, Inc., Chino Valley

Mary Williams, Vice President, Human Resources, The Foothills Bank, Yuma

David S. (Sid) Wilson, Jr., General Manager, Central Arizona Project, Phoenix

Robert B. Wilson, Environmental Planner, Central Arizona Association of Governments (CAAG), Superior

Mark Winkleman, State Land Commissioner, Arizona State Land Dept., Phoenix

Jose E. Yepez, Mayor; Shop Manager, Yepez Automotive Repair, Somerton

Elaine Y. Zielinski, Arizona State Director, U. S. Bureau of Land Management, Phoenix