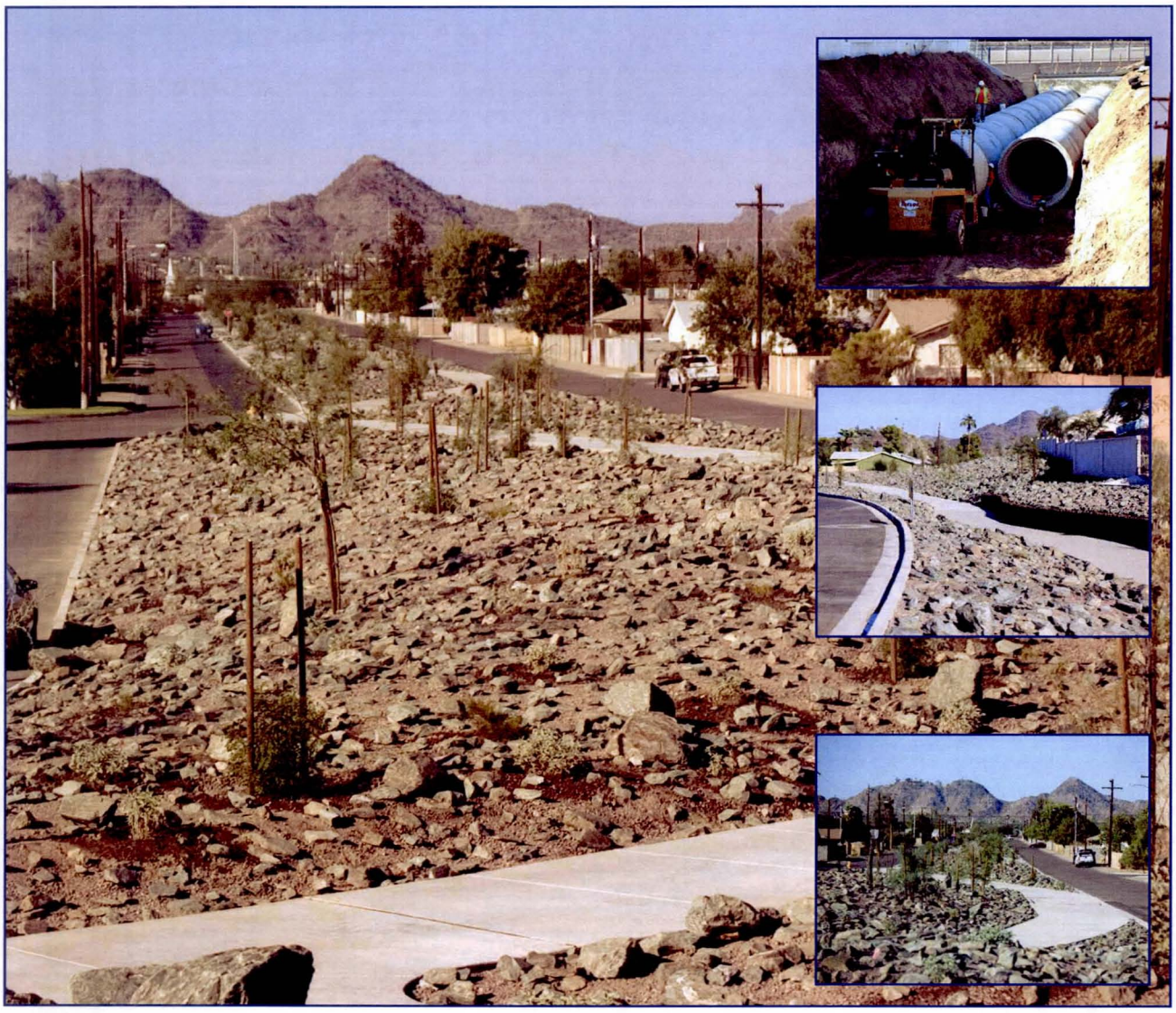
Annual Report
Fiscal Year 2006-2007

Project Highlight:
10th Street Wash Improvements

The District and the City of Phoenix transformed a hazardous, earthen wash channel into a multi-use flood control facility along 10th Street between Alice Avenue and the Arizona Canal Diversion Channel (ACDC) in Phoenix. A system of underground pipes and box culverts replaced the channel to convey the stormwater of a 100-year rainstorm (one percent annual chance) downstream into the ACDC. A landscaped, shared-use path was placed overtop the drain system. The flood control benefit of the project removes 84 homes and commercial properties from a floodplain while enhancing the quality of life for area residents. The new tree-lined pathway creates an aesthetically pleasing environment to reduce crime and blight.



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Board of Directors

Per Arizona Revised Statute 48-3602, the Flood Control District is governed by a five-member Board of Directors that also serves as the Board of Supervisors for Maricopa County. The Board of Directors exercises all the powers and duties as ordinarily exercised by governing bodies in the acquisition and operation of property, contracting, and regulatory functions. Board members elect a new chairman each year:

- Fulton Brock, Chairman, District 1
- Don Stapley, District 2
- Andrew Kunasek, District 3
- Max Wilson, District 4
- Mary Rose Wilcox, District 5

Flood Control Advisory Board

The Flood Control Advisory Board (FCAB) advises the Board of Directors on flood control, floodplain management, drainage and related matters. The FCAB reviews the District's planning studies, projects and operations/maintenance activities, and recommends to the Board of Directors an annual budget, including the five-year Capital Improvement Program (CIP).

The FCAB consists of seven members. Five of the seven members are appointed by the Board of Directors for five-year terms. The final two members are ex officio representatives from Salt River Project and the City of Phoenix. FCAB members also serve the District as members of the Floodplain Review Board and Board of Hearing Review.

- DeWayne Justice, Chairman, District 4
- Melvin Martin, Vice Chairman, District 5
- Hemant Patel, Secretary, District 3
- Scott Ward, District 1
- Kent Cooper, District 2
- Ray Acuña, Ex Officio, City of Phoenix
- Paul Cherrington, Ex Officio, Salt River Project

Engineering

The Engineering Division manages projects and programs in structure design, hydrology and hydraulics (quantity, depth and flow of stormwater), engineering applications development, river mechanics, flood warning systems, mapping/surveying, sand and gravel mining regulation, and water quality.

- Completed the "Drainage Policies and Standards Manual for Maricopa County," adopted by the Maricopa County Board of Supervisors on April 24, 2007
- Worked on a pilot program for Rapid Floodplain Delineation using RFD program tool
- Performed 135 reviews related to erosion and sedimentation issues
- Held training for HEC-6T, WMS and DDMSW
- Flood Warning Branch:
  - Participated in the annual flood exercise on May 15, 2007
  - Published the annual ALERT Report in three volumes (Precipitation, Surface Water and Weather)
  - Installed four new ALERT stations, including two weather stations
  - Made 1,399 visits to ALERT stations for maintenance, repairs and calibrations
  - Completed a flood response plan for Cave Creek
- Engineering Library used by 764 non-staff customers

Planning and Project Management

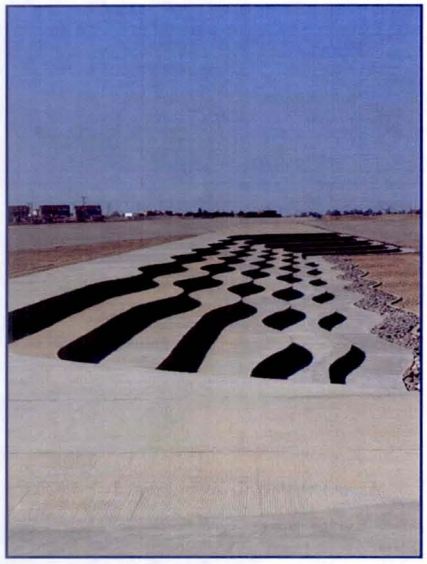
The District's Capital Improvement Program—its primary mechanism for mitigating existing regional flood hazards—accounted for 62% of its total Fiscal Year 2007 expenditures. Total expenditures consisted of $2.4 million in design costs, $8.3 million in rights-of-way acquisitions, $40.9 million in construction costs and $2.0 million in internal labor charges.

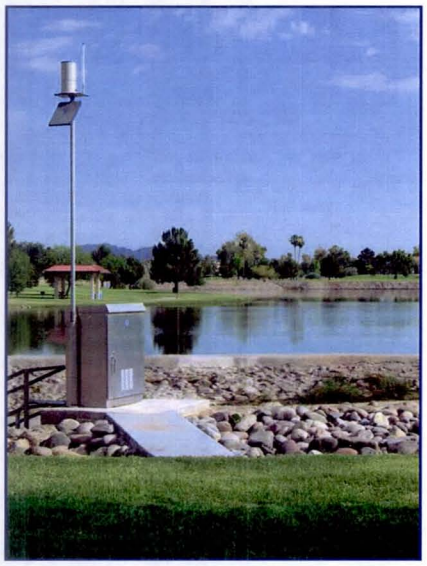
Construction projects completed or substantially completed included:

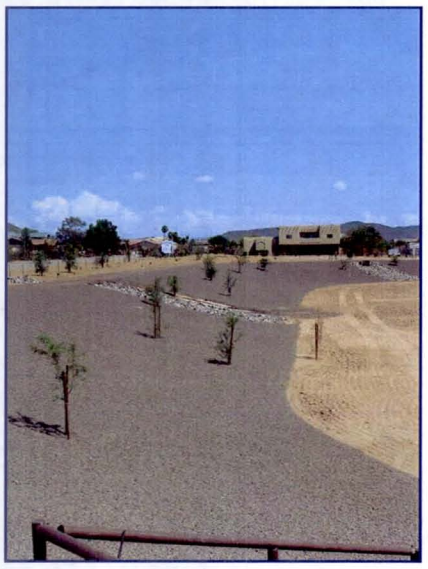
- The Laveen Area Conveyance Channel, a regional six-mile-long flood control channel and basin;
- Repair and structural improvements to the Skunk Creek Low Flow Channel project;
- The Ellsworth Channel project, conveying 100-year flows to the East Maricopa Floodway;
- The first (northern) phase of construction of the North Inlet Channel to White Tanks Flood Retarding Structure No.3;
- Improvements to the 10th Street Wash, from Alice Avenue to the Arizona Canal Diversion Channel, providing a 100-year level of protection;
- The Bethany Home Outfall Channel project (Reaches B and C), a conveyance channel and basin system in the Maryvale and Glendale areas providing a 100-year level of flood protection; and
- The 26th Avenue and Verde Lane Basin project, a detention basin and storm drains providing a 10-year level of protection.

The District and its project partners achieved significant design completion on:

- The Wickenburg Downtown Flooding Hazard Mitigation Project, a series of channel and levee improvements to Sol's Wash and a tributary, Hospital Wash;
- The Durango Regional Conveyance Channel and Basin (Phase I) project;







- The McDowell Road Basin and Storm Drain project in the vicinity of McDowell Road and Hawes Road;
- The 83rd Avenue and Pinnacle Peak Drainage Improvement project; and
- The White Tanks Flood Retarding Structure No.3 North Inlet Channel (South Phase) project, designing the second reach of an inlet to the associated dam.

Floodplain delineations were completed for: Tempe Canal; Moon Valley Wash; Camp Creek Tributaries; Wittmann (Phase 2); Cline Creek Tributaries; Lower Painted Rock Watershed (Zone A Study, Phases 1 and 2); and Sentinel Watershed (Zone A).

Dam rehabilitation planning efforts were conducted on White Tanks Flood Retarding Structure No.4, McMicken Dam and Buckeye Flood Retarding Structure No.1, and earth fissure investigations were ongoing on Powerline Flood Retarding Structure.

Operations and Maintenance

Regular inspections and scheduled maintenance of the District flood control facilities were completed during the year. The Operations and Maintenance Division (O&M) also supported the Structures Management Branch in providing urgent maintenance at the McMicken Dam emergency spillway approach. Vegetation in the dam reservoir was restricting the discharge capacity of the emergency spillway. O&M removed 80 acres of woody vegetation from the spillway approach. Employees made suggestions to dispose of the vegetation using an air-curtain burner that reduced pollutants in the air, and saved time and money hauling the material to a landfill. The area was vegetated with native grass and shrubs to prevent blown dust and soil erosion.

O&M provides both emergency response and storm monitoring services during a flood emergency or storm event. When an emergency exists, crews are dispatched to monitor the functions of the structures and operate outflow devices to control the release of storm water. This fiscal year O&M took part in a multi-jurisdictional flood exercise. The exercise helps agencies to test the flow of information to and from field crews.

Regulatory

By enforcing the federal, state and local rules regarding development in areas where flooding may occur, the Division can prevent adverse effects to the environment, and safeguard the lives and property of county residents. Regulatory functions include floodplain management, floodplain use permits, code/regulation enforcement, and floodplain map information.

- County and community permits processed: 802 applications; $120,179 in fees collected
- Inspections and enforcement: 1,699 inspections for county permits completed; 78 violation cases opened
- December 20, 2006: Revisions to the Floodplain Regulations of Maricopa County and new Fee Schedule
- Cooperated with the state National Flood Insurance Program (NFIP) Coordinator for Community Assistance Visits

2007 Financial Highlights

Preliminary and Unaudited

Revenue Collection Status

	Full Year Revised Budget	Collections Full Year	Collections Remaining	Percent Remaining
Property Taxes	$65,099,622	$64,957,692	$141,930	$0.2%
Licenses & Permits	1,571,000	2,341,904	(770,904)	-49.1%
Partnership Reimbursements	13,622,000	13,012,336	609,664	4.5%
Payments in Lieu	185,213	199,735	(14,522)	-7.8%
Interest Earnings	882,750	1,528,665	(645,915)	-73.2%
Miscellaneous Revenue	5,375,000	5,534,660	(159,660)	-3.0%
	$86,735,585	**$87,574,991**	**$(839,406)**	

Operating Budget – Financial Comparative

	Full Year Budget	Full Year Actual	Funds Remaining
Payroll	$15,793,682	$12,918,696	$2,874,986
Transfers	(1,181,002)	887,367	(2,068,369)
Supplies	1,594,303	1,457,798	136,505
Outside Services	16,220,072	14,920,392	1,299,680
Non-Labor Transfers	(24,380)	3,920	(28,300)
Capital Acquisitions	1,611,365	1,443,981	167,384
Debt Service	182,765	180,203	2,562
	$34,196,805	**$31,812,355**	**$2,384,450**

Capital Improvement Program

	Full Year Budget	Full Year Actual	Funds Remaining
Force Account Payroll	$2,090,000	$1,990,433	$99,567
Land Acquisition	9,191,000	8,643,303	547,697
Construction	48,719,000	43,014,126	5,704,874
	$60,000,000	**$53,647,862**	**$6,352,138**

Beginning/Ending Fund Balance Reserves

	Operating Fund	CIP Fund	Total Fund Reserve
Beginning Fund Balance	$10,820,543	$19,293,817	$30,114,360
Total Revenue Collected	87,574,991	0	87,574,991
Operating Transfers to CIP Fund	(55,128,752)	0	(55,128,752)
Funds Transferred to CIP		55,128,752	55,128,752
Total Funds Available	**$43,266,782**	**$74,422,569**	**$117,689,351**
Less:			
Operating Expenditures	$31,678,648	$0	$0
CIP Expenditures	0	53,647,862	0
Ending Fund Balance	**$11,588,134**	**$20,774,707**	**$32,362,841**