

CLARK COUNTY, NV

REGIONAL FLOOD CONTROL DISTRICT
ANNUAL REPORT
2011 | 2012





Flamingo Wash

VISION

Premier regional agency providing a community safe from the devastation of floods while protecting the surface water environment.

MISSION

To improve the protection of life and property for existing residents, future residents and visitors from the impacts of flooding while also protecting the environment.

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DISTRICT MESSAGE

Southern Nevada continues to show signs of economic recovery. In the 2010-11 fiscal year the District saw our sales tax revenues increase more than five percent from original estimates. This funding has allowed the District to make substantial progress in its mission to protect homes and business in Southern Nevada from the risk of flooding by building and maintaining flood control projects.

This past year, we completed 11 projects totaling more than \$101 million. Additionally there are 22 projects under construction, or about to start construction, totaling more than \$115 million. These projects represent a substantial investment in our local economy. Not only will more of the community see less risk of flooding, but approximately 1,370 jobs will also be sustained through the District's construction program.

Since 1986, we've completed 90 detention basins and 573 miles of channel and underground storm drain. This investment helps protect Southern Nevada residents and visitors from the impacts of flooding. To date, we are a little more than 70 percent complete with the master plan.

In the coming years, a major project for the District will be improvement of the Las Vegas Wash, Sloan Channel to Cedar Avenue. The wash is located in the City of Las Vegas and Clark County and a segment of the project runs through the Desert Rose Golf Course. In November 2011, a revised flood hazard map was published by the Federal Emergency Management Agency. This revised map identified more than 1,700 homes and businesses as being in a Special Flood Hazard Area. In June 2012, the District's board approved a resolution to set aside \$35 million in funding to improve the Las Vegas Wash. The goal is to complete the project within five years and remove the Special Flood Hazard Area designation.

Over the past fiscal year the District's accomplishments have been made possible through the Board's regional perspective and the tremendous work performed by member agency staff, District staff and our private sector partners. Together, we remain committed to reducing the flood risk, in not only our existing community, but also for future generations.


Lawrence L. Brown III
 Chairman
 Clark County Commissioner


Gale Wm. Fraser, II, P.E.
 General Manager / Chief Engineer



General Manager Gale Fraser, and Board Chairman, Commissioner Larry Brown at the 2012 Flood Safety News Conference.

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BOARD OF DIRECTORS

The Clark County Regional Flood Control District is governed by a Board of Directors consisting of eight members. The Board serves as a policy-making body and employs a General Manager/Chief Engineer to serve as executive officer.



The Board of Directors meets on the second Thursday of each month in the Clark County Commission Chambers.

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AUTHORITY OF THE DISTRICT

The Nevada Legislature authorized the creation of the District in 1985 to develop a coordinated and comprehensive Master Plan to solve flooding problems, to regulate land use in flood hazard areas, to fund and coordinate the construction of flood control facilities, and to develop and contribute to the funding of a maintenance program for Master Plan flood control facilities. The District also provides public education regarding flood dangers and monitors rainfall and flow data during storms, disseminating information to appropriate public works and safety crews. The service area for the District includes Clark County and the incorporated areas of Boulder City, Henderson, Las Vegas, Mesquite and North Las Vegas.

The District is governed by a Board of Directors comprised of the same membership as the Regional Transportation Commission, except that each board/commission elects its own officers. The Board includes two representatives from both Clark County and the City of Las Vegas and one representative from Boulder City, Henderson, Mesquite and North Las Vegas. Public meetings are generally held on the second Thursday of the month, at which time the Board acts on policy and other flood control matters.

The Board annually elects a chairman and a vice-chairman from among its members. The General Manager/Chief Engineer is responsible for surveying, investigating, reporting and estimating the extent of flood control problems and for presenting flood control recommendations to the Board.

The Regional Flood Control District is a distinct local governmental agency. The District contracts with Clark County for various legal and administrative services provided by departments such as the Comptroller, District Attorney, General Services, Human Resources, Information Systems and Treasurer.

AS OF JUNE 2012



Lawrence L. Brown III
Chairman
Commissioner,
Clark County



Robert L. Eliason
Vice Chairman
Councilman, City of
North Las Vegas



Chris Giunchigliani
Commissioner
Clark County



Craig Hafen
Councilman
City of Mesquite



Debra March
Councilwoman
City of Henderson



Steven D. Ross
Councilman
City of Las Vegas



Dr. Lois Tarkanian
Councilwoman
City of Las Vegas



Roger Tobler
Mayor
City of Boulder City

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ADVISORY COMMITTEES

Citizens Advisory Committee

The Citizens Advisory Committee (CAC) is comprised of one citizen appointed by each city council and county commission included in the District and one citizen appointed by each Board Member. The CAC, per state law, was created to represent public interest and to advise the Board on various matters.

Members of the CAC (June 2012)

TOP ROW:

Ron Newell, Clark County
 Larry Nelson, Vice-Chairman, Henderson
 M.J. Harvey, Chairman, Clark County
 Nelson Stone, North Las Vegas
 Dr. Nachman Kataczinsky, Las Vegas
 Calvin Black, Henderson

SEATED ROW:

Terrence P. Kane, Las Vegas
 Tim Clifford, Boulder City
 Ryan Wheeler, Mesquite
 Jim Beneda, Boulder City

NOT SHOWN:

Jennifer L. Taylor, Clark County
 Paul Henderson, Mesquite
 Dwayne Kurr, North Las Vegas
 Linda Young, Las Vegas



Technical Advisory Committee

The Regional Flood Control District Board is advised on technical matters, per state law, by a Technical Advisory Committee (TAC), the representation of which mirrors that of the Board of Directors. The current members include local public works directors, city engineers or planning directors. The General Manager/Chief Engineer (serving as the Executive Director of the Committee) and a representative of the Citizens Advisory Committee are both non-voting members of the TAC.

Members of the TAC (June 2012)

IN PHOTO:

*Randall DeVaul,
 Deputy Director of Engineering,
 North Las Vegas

*Robert Herr,
 Assistant Public Works
 Director, Henderson

*Joe Yatson,
 Manager, Design Engineering
 Division, Clark County

David Bowers,
 City Engineer,
 Las Vegas

Kurt Sawyer,
 Development Services Director,
 Mesquite

Scott P. Hansen, Chairman,
 Public Works Director,
 Boulder City

NOT SHOWN: BOULDER CITY

*Jim Keane,
 City Engineer

CLARK COUNTY

Denis Cederburg,
 Vice-Chairman
 Public Works Director

Ebrahim Juma,
 Environmental Assistant
 Planning Manager, Water
 Quality, Research and
 Technical Services (DAQEM)

*Joseph Leedy,
 Principal Planner (DAQEM)

*Robert Thompson,
 Deputy Director,
 Public Works

HENDERSON

Robert Murnane,
 Public Works Director

LAS VEGAS

Jorge A. Cervantes,
 Public Works Director

*Randy Fultz,
 Assistant City Engineer

*Oh-Sang Kwon,
 Engineering Project Manager

MESQUITE

*Mike Callahan,
 Internal Services Director

*Richard Secrist,
 Principal Planner

NORTH LAS VEGAS

Dr. Qiong Liu,
 Public Works Director

*Thomas Brady,
 Manager, Engineering Planning

*Jennifer Doody,
 Development and Flood
 Control Supervisor



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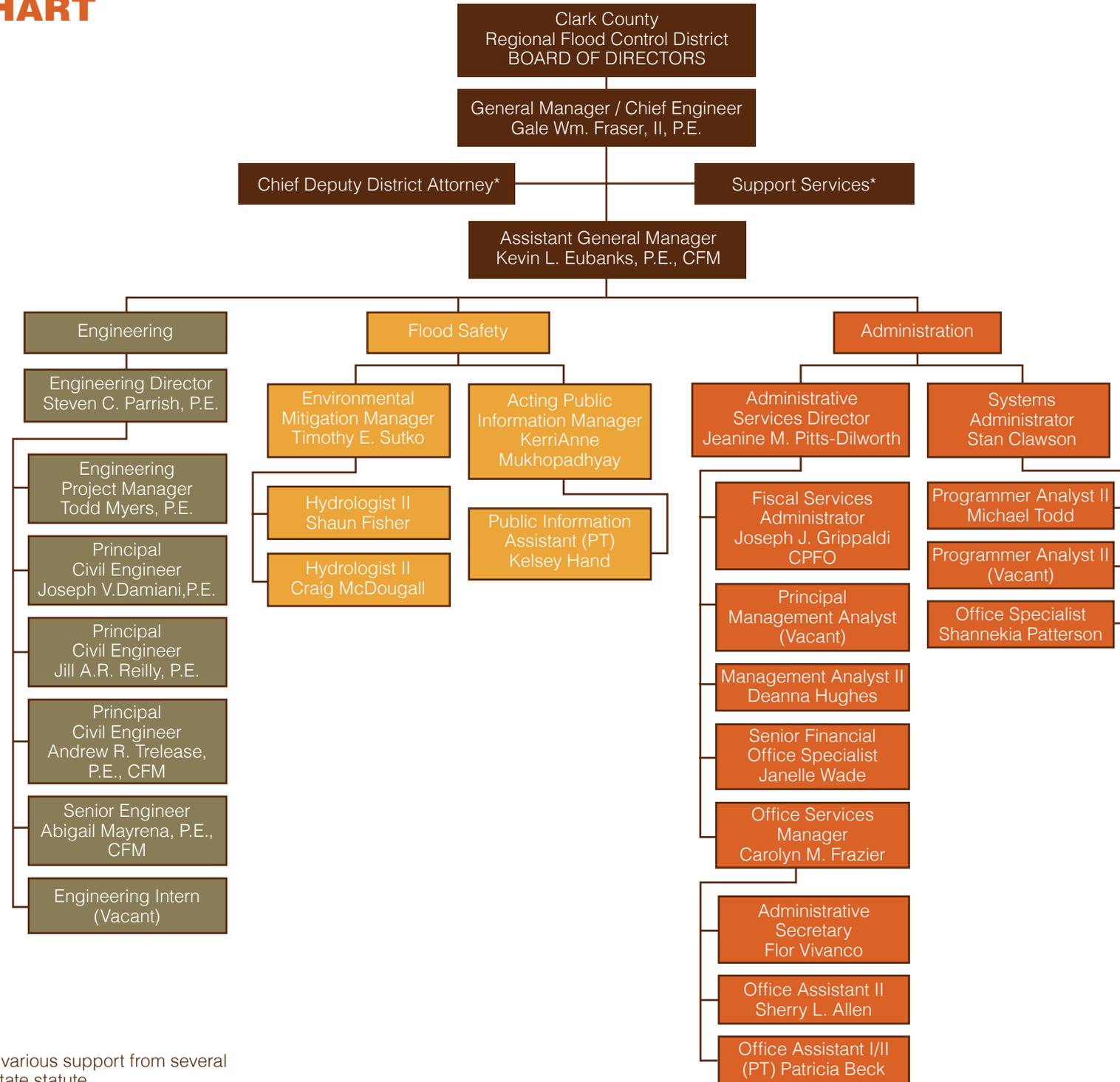
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*Alternates



REGIONAL FLOOD CONTROL DISTRICT ORGANIZATION CHART

P.E. - Principal Engineer
 CFM - Certified Floodplain Manager
 CPFO - Certified Public Finance Officer



*The Regional Flood Control District receives various support from several Clark County departments as authorized by state statute.

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ABOUT OUR REGION

Clark County, Nevada, is the nation's 15th largest county - larger than the state of New Jersey. Population estimates for 2011 show Clark County with nearly two million residents. While visitor volume has declined, the area continues to be a prime destination for tourists and conventioners with nearly 39 million people visiting the area in 2011, according to the Las Vegas Convention and Visitors Authority. Another 16.5 million people have vacationed in Clark County through May 2012.

The approximate 8,000 square miles of Clark County include communities from Laughlin in the south to Mesquite in the north. Surrounded by mountains and canyons, the Las Vegas Valley has prime areas for recreation including snow skiing on Mount Charleston, and hiking and biking in the hills of Red Rock Canyon. Though Las Vegas is a desert, the mountains and the canyons are often dusted in snow in the winter.



North and South Environmental Enhancement Areas at Floyd Lamb Park

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MONITORING THE WEATHER

The District, in cooperation with the U.S. Geological Survey (USGS) and the National Weather Service (NWS), began implementing a Flood Threat Recognition System (FTRS) throughout the Clark County area in 1987. The system includes a network of strategically located field stations that automatically report data from more than 410 meteorological sensors in real-time to computerized base stations operated by each of the cooperating agencies. While more than 75 percent of the FTRS field stations are located in the Las Vegas Valley, other gages installed in Laughlin, Searchlight, Jean, Primm, Goodsprings, Mesquite, Bunkerville, Moapa Valley, Coyote Springs, CalNevAri and Indian Springs allow emergency responders to monitor weather conditions throughout Clark County.

The District expanded the size of the FTRS field sensor network during this fiscal year, installing three water level stations as well as one weather station. In addition, two established stations that had been temporarily decommissioned to accommodate construction activities were re-installed. The total number of field stations in operation at the end of the fiscal year was 187. Of this total, 38 stations collect temperature, humidity and wind data in addition to rainfall data, and 105 stations collect rainfall and water level information. The remaining 44 stations report only rainfall data. Eight of the field stations are maintained by the USGS under the terms of a joint funding agreement with the District. The District staff maintains the remaining 179 stations as well as five radio repeater sites that allow data from the outlying areas to be transmitted into the Las Vegas Valley.

The FTRS provides valuable information on water levels, rainfall and other meteorological parameters. Humidity sensors alert NWS forecasters when summer monsoonal moisture is sufficient to trigger thunderstorms. Information on wind speed and direction helps the NWS track severe storms in the Clark County area and issue more timely, site-specific weather statements than were previously possible. The District's fully automated base station notifies staff, both in and out of the District's offices, of potentially dangerous situations, and staff can assess the potential for flooding and alert public works and other emergency response personnel.

The information provided by this system helps emergency response agencies more effectively direct their limited resources. The District maintains an FTP site to provide local governments and staff access to the FTRS. The District also provides the public and the media with access to the FTRS data through their website (www.regionalflood.org). Both historic and current rain and weather data collected from any of the District's field stations can be accessed from the District's website.



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Clark County is home to nearly two million residents who enjoy an average of more than 300 days of sunshine a year.

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HISTORY OF FLOODING IN CLARK COUNTY

The desert southwest is an environment of extremes. Typically thought of as a dry and hot region, the area often experiences intense rainfall and subsequent flash floods. Recorded reports of flooding in Clark County date back more than 100 years. In a special report entitled "History of Flooding, Clark County, Nevada 1905-1975," the U.S. Soil Conservation Service documented 184 different flooding events that resulted in damages to private property and public facilities. Since 1960, the area has experienced at least 11 floods that resulted in more than a million dollars in property damage. In that same period, 31 lives were lost in 21 separate flash flood events.

While floods can and have occurred in almost every month of the year, the most damaging storms typically occur between July and September. During these hot summer months, moist unstable air, usually from the Gulf of Mexico or Gulf of California, is rapidly forced upward by hot air currents. The dynamics of this process often result in spectacular displays of lightning in the desert sky. Too often, they also cause severe thunderstorms with intense rainfall on steep mountain slopes and armored desert surfaces. The rainwater runs off rapidly and concentrates in the urbanized areas at lower elevations.

Most residents and visitors are unaware of the flood potential or never see flooding occur until it is too late. Aside from the tremendous property damage and deaths related to flooding, Clark County residents experience inconveniences caused by impassable or difficult-to-travel roads. Support services such as police, fire and ambulance are sometimes delayed in responding to victims of life-threatening incidents.

Flood events can also adversely impact the local economy through loss of business at commercial establishments due to decreased access. Furthermore, flooding in the Las Vegas Valley can become national news and deter tourists from visiting the area.

The average rainfall in the Las Vegas Valley is 4.49 inches and this amount is nearly equally divided between summer and winter rainy seasons. During FY 2011-12, the official rainfall total reported by the National Weather Service for Las Vegas was 2.33 inches.



In July of 1975, the Las Vegas Sun reported the torrential downpour that flooded the Las Vegas Strip.

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The historic flood of 1975 made front-page headlines with pictures of cars washed on-top of each other in casino parking lots.





KEEPING THE COMMUNITY INFORMED

The District's Public Information Program focuses on educating the public about the dangers of flash flooding and informing the community about the progress of flood control in Clark County. The program also works to educate the community about stormwater quality and how residents can help improve the quality of urban runoff and rainwater draining to Lake Mead.

Several programs are ongoing to keep information about drainage improvements and flood safety in mind throughout the year. Following is a summary of some of those activities:

- The Board of Directors designated July as "Flash Flood Awareness Month" and held a news conference on July 2nd, kicking off Flash Flood Season. The event was covered by all major news media and helped increase public awareness of a heightened potential for flash floods during the summer months. The local news media are very supportive of the District's efforts to communicate flood safety information and are strong community partners. The media's attendance at the news conference resulted in more than 35 minutes of news coverage.
- The District made students aware of the dangers of playing in floodwater and drainage facilities. This past school year, District staff made classroom presentations at 44 elementary schools speaking to approximately 4,745 students. In addition, the District mailed curriculum materials and a school DVD to 790 students at teachers' requests.
- The District also conducted a Flood Safety Advertising Campaign between July and September when heavy rain and flash flooding are more likely to occur. The campaign used billboards, radio, television and print media and online banners to inform residents about the dangers of flooding. Creative artwork, featuring personalized license plate messages, grabs motorists' attention in a lighthearted yet serious way.
- The District held a License Plate Billboard Contest to allow residents to create their own flood safety slogan. This summer, the District received 2,046 entries in English and 251 entries in Spanish. The winners were 2DP2TRY and ENUN2X3, which translated, means "in a second" or "in an instant." The winning slogans were posted on billboards throughout flash flood season.
- The District continued with production of The Flood Channel, a 30 minute informational television program airing on two local government access stations, Cox Cable channels 2 and 4. Each episode informs the public about construction progress, flood safety and environmental issues.



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ENHANCING INFORMATION SYSTEMS

The District's website (www.regionalflood.org) is designed to provide information to the public about the District, current and historical rainfall data, flood control projects and facilities, 100-year flood zone status, public outreach, and flood emergency information.

The District continued to provide leading-edge Geographic Information Systems (GIS) technologies to both staff and the public. The District's GIS staff maintained Digital Flood Insurance Rate Map (DFIRM) data and flood control facility data, which was provided to the Clark County's GIS central data repository for use by other entities, agencies and customers. This data was also utilized in the District's web and desktop applications. Staff also responded to custom map requests.

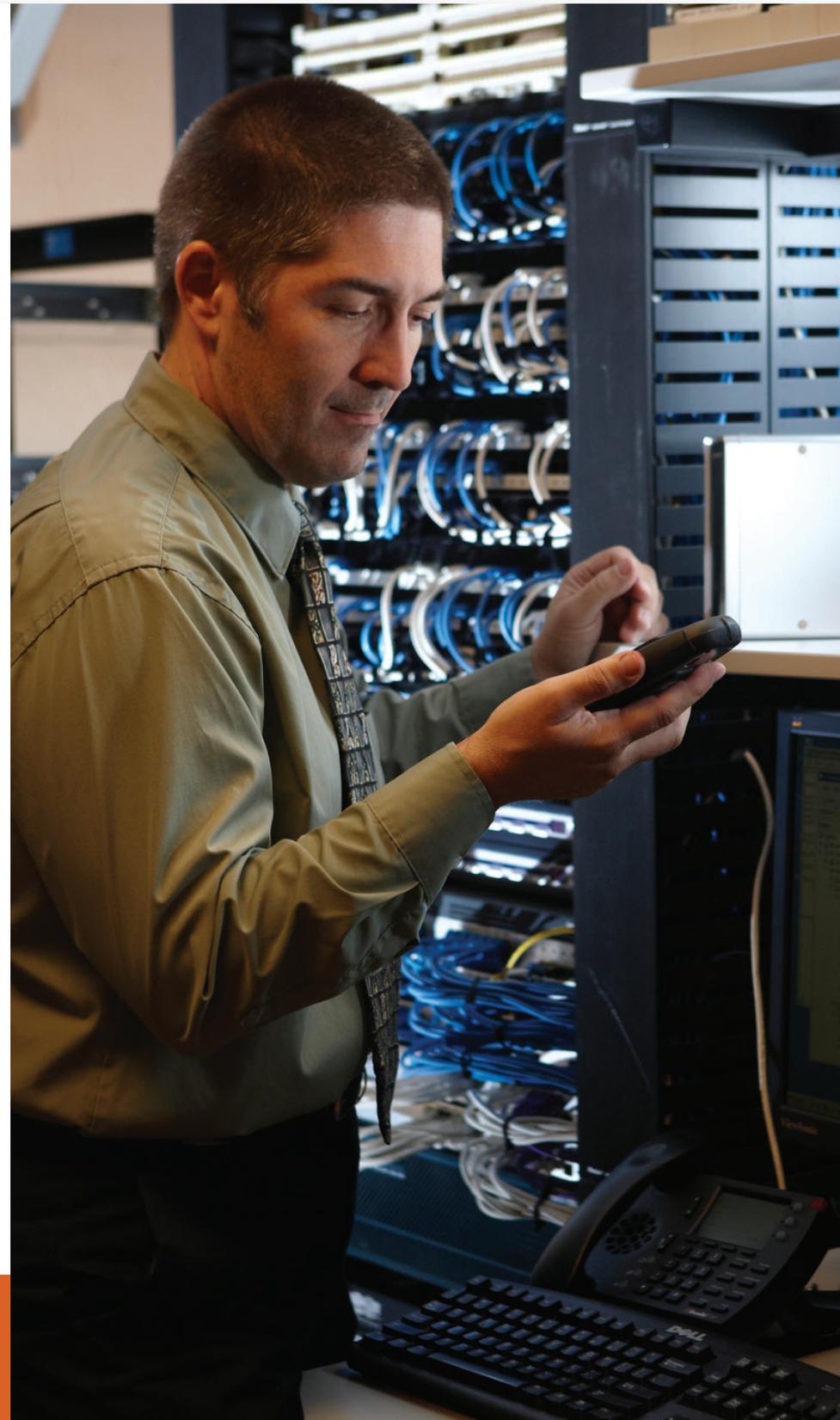
During the past year, the Information Technology (IT) staff completed major steps toward integrating decision support tools and web-based applications into staff work processes and offering external customers web-based tools to enhance usability and efficiency. Among the highlights were:

- Enhancement of the District Document Management System through database maintenance, developing new document retrieval techniques, and elimination of storage of documents through digital conversion
- Improvement of the FloodView desktop application with the completion of the FloodView Editor

Future IT projects include completing hardware modernization and the Microsoft Exchange 2010 rollout and on-going enhancements to Enterprise Resource Planning (ERP) integration with Clark County.

The public is encouraged to visit the website as enhancements are continually being made. Educational materials for children and teachers can also be found on the District's website as part of the School Outreach Program.

The District continues to provide leading edge Geographic Information Systems (GIS).



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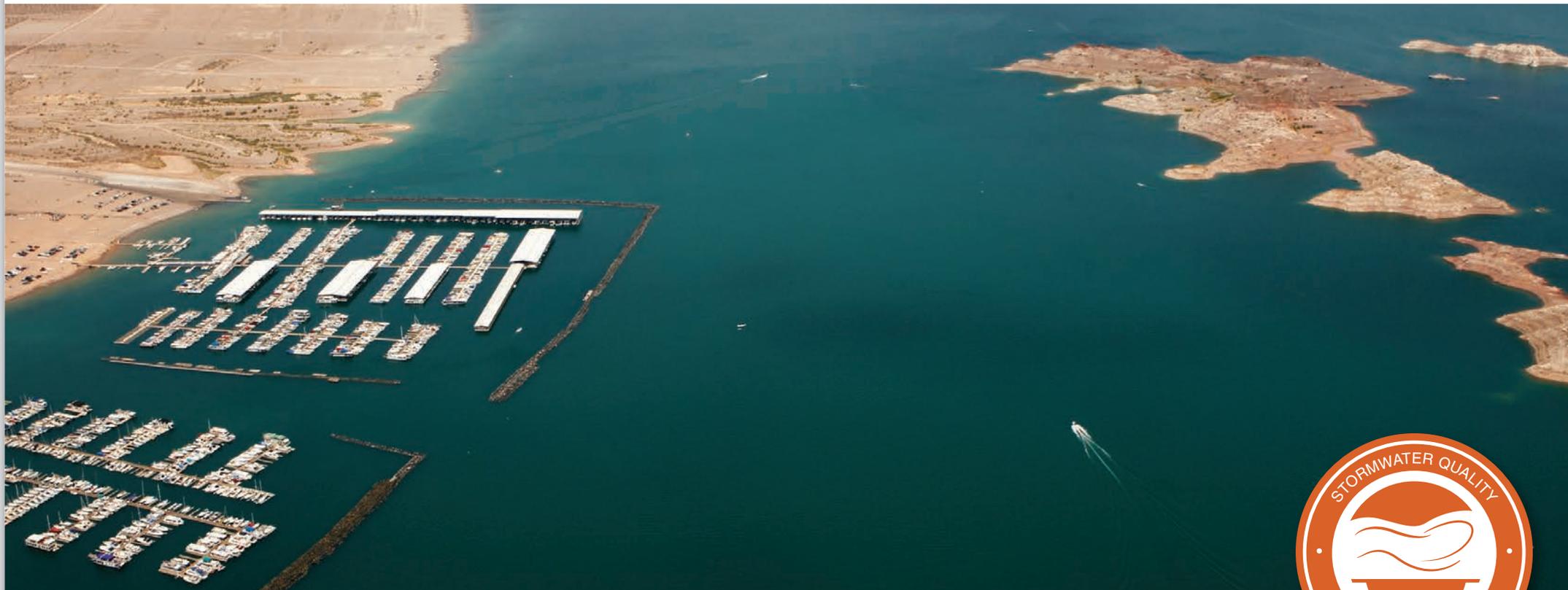


KEEPING OUR WATERS CLEAN

In accordance with the Federal Water Pollution Control Act, the Clark County Regional Flood Control District, as lead agency, has been operating under a National Pollutant Discharge Elimination System (NPDES) permit with the various city and county agencies since December 1990. The permit, which has a five year duration, was most recently renewed in February 2010. It outlines a schedule of monitoring requirements and best management practices designed to protect the quality of surface waters in the Las Vegas Valley.

This past year, the District continued implementation of a Storm Water Management Plan (SWMP) that was adopted in November 2011. The SWMP plan identifies specific program areas that must be addressed. The newest program presented in the SWMP deals with mitigation of impacts to stormwater quality associated with new development. These new programs are being developed with the intent to be sensible and effective in Las Vegas' unique arid environment and focus on regional solutions that employ the existing and future detention basins. Final program development will be completed by November 2012 with full implementation by November 2013.

Two detention basin stormwater quality modification projects were presented for construction funding this year. They include Angel Park and Pioneer Detention Basins. Equestrian Detention Basin stormwater modification project is also in design and programmed for construction in the coming year. These modifications will slow down smaller storm flows and allow sediments and pollutants to settle out, keeping them out of the downstream environment. Regular maintenance will remove accumulated sediments and dispose of them properly.



Lake Mead is the primary source of drinking water for residents in the Las Vegas Valley.



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KEEPING OUR WATERS CLEAN (CONTINUED)

The current construction site inspection program continues, unchanged from previous years with the goal to reduce sediment and construction pollutants entering the storm drain system. Training sessions are held twice annually for local construction companies to aid in their compliance with the program.

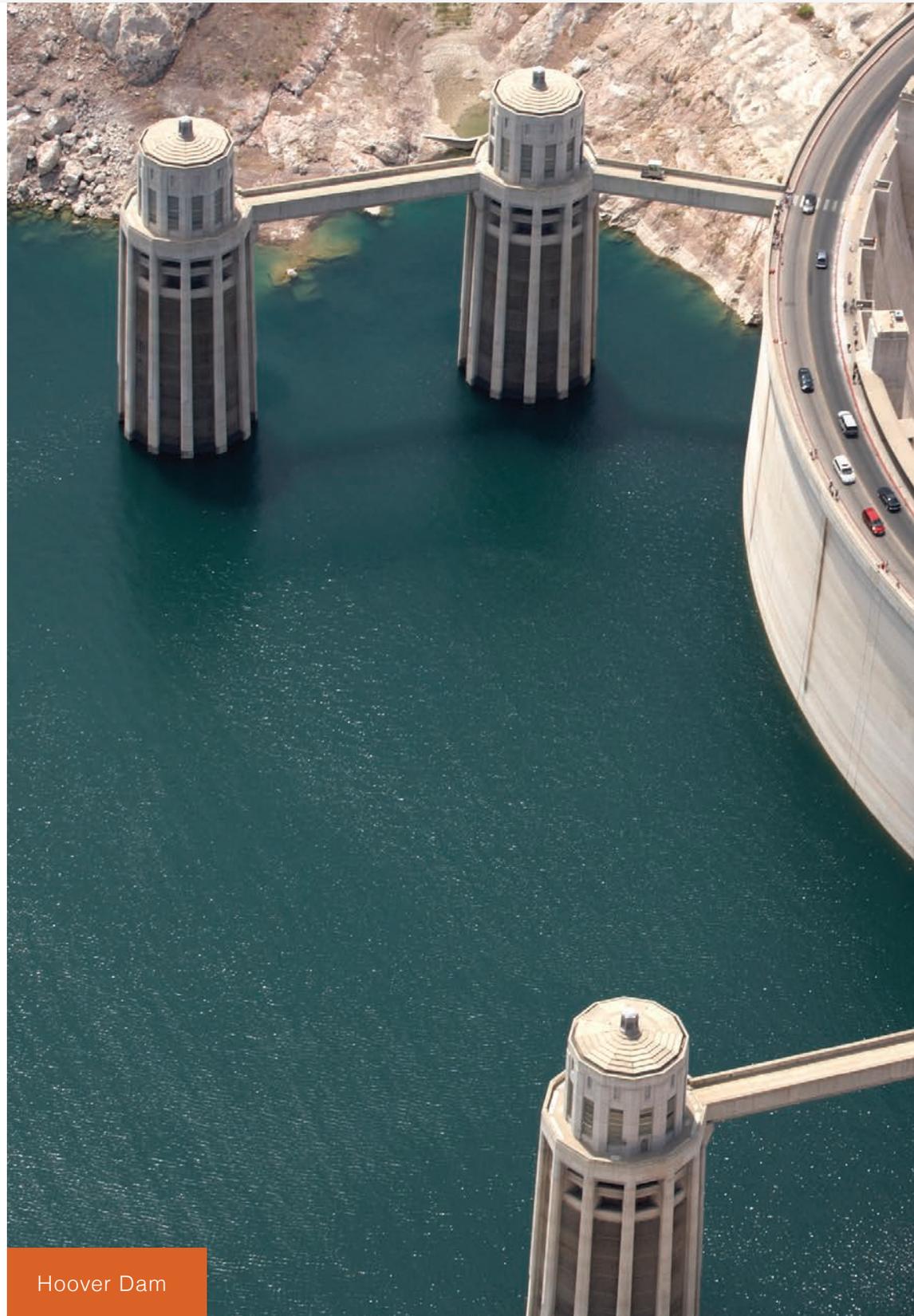
The District is also an active member of the Lake Mead Water Quality Forum, the Las Vegas Wash Coordination Committee and participates on the Las Vegas Valley Watershed Advisory Committee. Annual reports of NPDES compliance activities are available on the District's website at www.regionalflood.org.

Additional information useful to the general public in the reduction of stormwater pollution is available at www.lvstormwater.com. The site provides information about stormwater quality, describes proper use and disposal of household chemicals and fertilizers and educates the community about how to improve the quality of urban runoff that travels untreated to Lake Mead. Similar information is distributed at several community events throughout the year.

Residents can also help reduce the impact of pollutants on the environment. By notifying the District, or the local government entities about improper disposal of chemicals and pollutants, corrective action can be taken by the appropriate agency. Clogged storm drains and washes, littered with debris, may also cause pollution and flooding problems. In the case of severely clogged drop inlets/storm drains, residents should notify the city or county jurisdiction where the drain is located. Residents can also notify the District at (702) 685-0000 and staff will direct the information to the appropriate entity.

The District continues to develop public service announcements (PSA) that focus on the importance of not polluting our desert environment. These commercials point out behaviors residents can change to help protect Lake Mead, our drinking water source.

Commercials are placed as paid advertising in the spring and fall with the four major television networks to reinforce the importance of not dumping trash, reporting clogged storm drains, fertilizing properly, disposing of pet waste and using commercial car washes. The District staff is also available to give presentations to groups interested in environmental topics associated with flood control.



Hoover Dam

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Upper Flamingo Detention Basin



FLOODPLAIN MANAGEMENT

Master Planning

Master Plans include descriptions of the proposed flood control facilities, cost estimates and suggested phasing. Typical facilities are detention basins, channels, bridges and storm drains. Master Plans for all areas of Clark County are updated every five years. A Master Plan Update for the Muddy River was adopted in February 2011. The next areas scheduled for master plan updates are Bunkerville and Mesquite in August 2012. Work began in fiscal year 2011-12. The elements of a comprehensive floodplain management program include environmental and flood insurance regulations, the Community Rating System, land development reviews, floodplain mapping and drainage standards. The following sections briefly describe each of these categories being utilized by the entities and the District, as well as the milestones accomplished in fiscal year 2010-11.

Fulfilling Environmental Regulations

Throughout its history, the District has nurtured its relationships with the Bureau of Land Management, United States Fish and Wildlife Service, U.S. Army Corps of Engineers, and other resource management agencies. The District continues to assist local governments in their efforts to obtain rights-of-way and environmental permits from regulatory agencies. The Clean Water Act requires a federal permit for the deposition of fill material in “waters of the United States.” Fill material includes channel armoring, (e.g. concrete and riprap) as well as detention basin embankment materials. Permits for projects which include these types of activities often require some form of mitigation to compensate for adverse impacts to the “waters of the United States.” Identifying acceptable mitigation projects is one of the biggest challenges currently facing the District. We continue to work with the regulatory and permitting agencies to identify mitigation projects and sites so that construction of drainage facilities, that protect life and property, can move forward without delays.

Flood Insurance is available to every homeowner, renter and business owner whether you live in a flood zone or not. Make sure to ask your insurance agent.

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FLOODPLAIN MANAGEMENT (CONTINUED)

Regulatory Program

The National Flood Insurance Program (NFIP), administered by the Federal Emergency Management Agency (FEMA), has established rules and requirements to address the diverse issues that encompass flood insurance and flood hazard mitigation. Clark County and the incorporated communities within the county have adopted the Uniform Regulations for the Control of Drainage in accordance with state statutes. These regulations are designed to protect the health, safety and welfare of residents within the community from the hazards associated with flooding. The regulations provide the minimum regulatory control necessary to:

- 1) Promote comprehensive floodplain management
- 2) Require safe flood-prone area development
- 3) Foster sound development policies and construction procedures
- 4) Reduce stormwater runoff damage to public and private property

By meeting and exceeding the NFIP requirements, the regulations ensure all residents of Clark County and incorporated areas are eligible for flood insurance that is available from the federal government. Additionally, all participating communities are eligible for a higher federal match for disaster assistance in the event of a flood.

The Community Rating System

Initiated in 1990, the Community Rating System (CRS) reduces flood insurance premiums to reflect those community activities that are above and beyond the NFIP's minimum standards. The objective of the CRS is to reward insured residents for their community's extra efforts in floodplain management, as well as to provide an incentive for new flood protection activities.

Nationwide, of the nearly 20,100 communities participating in the NFIP, roughly 1,049 community flood management programs are recognized by CRS verification audits. In a cooperative effort with the District, Clark County, the City of Henderson, the City of Las Vegas, the City of Mesquite and the City of North Las Vegas were among the communities whose residents realize a 15 to 20 percent reduction in flood insurance premiums as a result of these audits.

These entities received credit for the District's public information programs, maintenance activities, re-mapping efforts and the Flood Threat Recognition System. In addition, the District's Master Plan, Hydrologic Criteria and Drainage Design Manual, and the Uniform Regulations for the Control of Drainage serve as the foundation of a higher regulatory standard that has been recognized by CRS auditors as one of the most comprehensive in the nation.



Gowan Outfall - Lone Mountain Branch
(Rancho Dr to Decatur Blvd)

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FLOODPLAIN MANAGEMENT (CONTINUED)

Land Development Reviews

The District performs land development reviews to ensure compliance with the Uniform Regulations for the Control of Drainage and the District's Hydrologic Criteria and Drainage Design Manual, both adopted pursuant to state statutes. The entities are responsible for the review and approval of all drainage plans and studies within their boundaries. The entities must submit development proposals to the District for review if the development impacts the implementation of the Master Plan or lies within a Special Flood Hazard Area. In accordance with the District's Policies and Procedures, staff will commence review once the entity approval is obtained for the pending studies.

This past year, the District received 60 studies and 77 addenda related to the development of private properties deemed to have regional flood control significance. Reviews by the District resulted in the issuance of 60 concurrence letters and 8 related comment letters.

Floodplain Mapping

All six local governments in Clark County are currently participating in the Federal Emergency Management Agency's (FEMA) National Flood Insurance Program (NFIP). In participating communities, all residents are eligible for federally subsidized flood insurance whether they live in a flood zone or not. In order to participate in the NFIP, communities must adopt flood hazard maps prepared by FEMA and floodplain regulations in compliance with FEMA's minimum requirements. It is the District's objective to reduce flood hazards by implementing the Flood Control Master Plan. As part of the District's ongoing effort to improve the accuracy of FEMA's flood insurance rate maps and take credit for completed flood control facilities, restudy of flood hazard areas is required. Many areas have already been restudied resulting in the removal of approximately 51.5 square miles or 32,900 acres from identified 100-year flood zones. Several restudies were accepted by FEMA this past year. They include the Las Vegas Wash from I-15 to Lake Las Vegas, Rancho-US 95-Gowan Road, and the Muddy River at Logandale. The results of these restudies were published by FEMA on November 16, 2011. Assessment of flood hazards with the latest technologies in these restudies will result in establishment of new areas subject to flooding and mandatory insurance requirements. The District has and will continue to expend every effort to inform affected home owners of the new regulatory requirements they will face and give them information to help keep their insurance premiums as low as possible. We will also be working to implement the Master Plan facilities to eventually remove these new flood hazard areas as quickly as revenues permit.

The November 2011 maps also reflect work completed this year to recertify three levee systems as meeting FEMA standards so their flood hazard mitigation affects can continue to be reflected on the flood hazard maps. These levees include diversion levees at Moccasin Road, Range Wash to North Las Vegas Detention Basin, and the Equestrian Detention Basin. Work also began to restudy the Abbott and Pulsipher Washes in Mesquite. Detention basins on these watercourses have been constructed, reducing flood hazards downstream. The studies were submitted early in fiscal year 2011-12. The District will continue to work closely with the entities and FEMA to further the restudy efforts. In fact, Clark County and the entities were issued one of the first state-of-the-art Digital Flood Insurance Rate Maps (DFIRM) in the nation in fiscal year 2002-03. This has made it possible to make detailed flood hazard information available to the public on the District's website (www.regionalflood.org).

Drainage Standards

The District and the entities have adopted the Hydrologic Criteria and Drainage Design Manual (Manual) that presents drainage standards and criteria for the Clark County area. It provides uniformity in drainage planning and design within the District's service area, improves the urban environment, and provides a sound basis for the expenditure of future private, public and regional monies. The Manual is used by governmental designers and reviewers and consulting engineers. The Manual was originally adopted in 1990 and updated in 1999 to provide more clarity and address advances in state-of-the-art hydrologic and hydraulic techniques.



Flamingo Boulder Highway North,
Sahara Ave to Flamingo Wash

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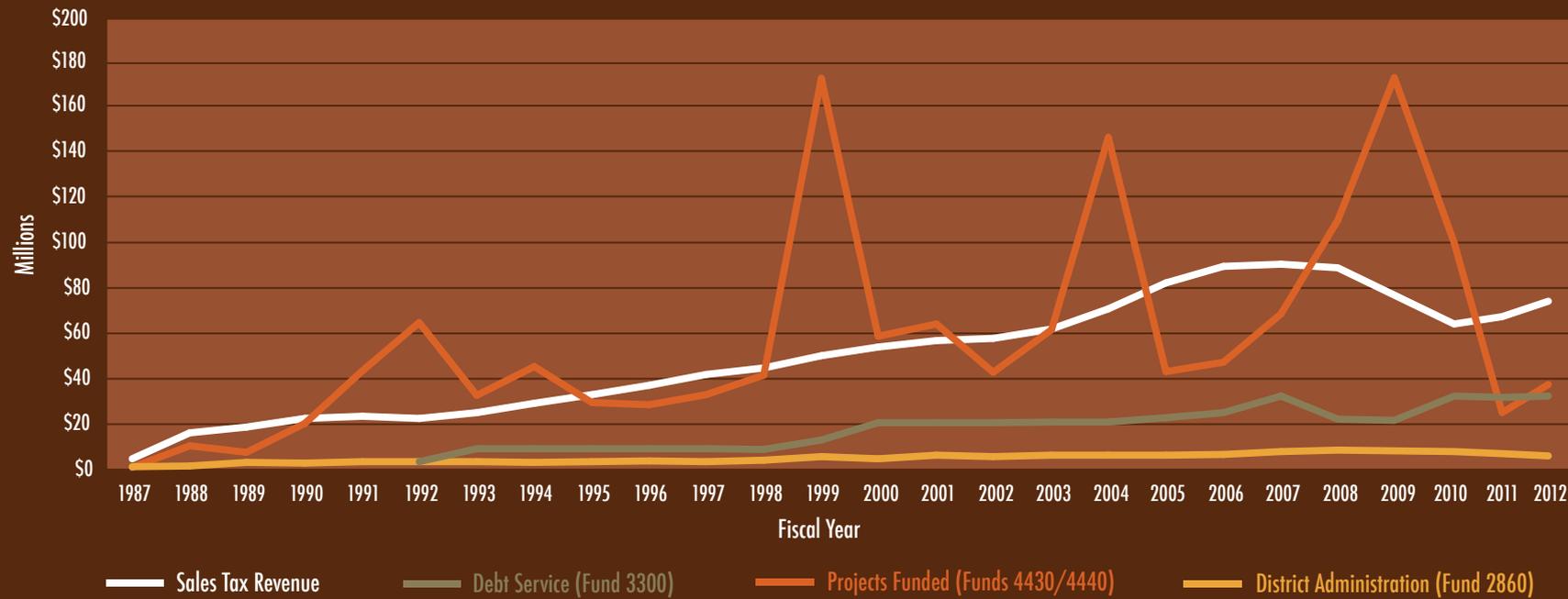


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Two detention basins were built adjacent to Floyd Lamb Park at Tule Springs called the North and South Environmental Enhancement Areas. The basins include recreational amenities paid for by SNPLMA.





DEMONSTRATING FISCAL INTEGRITY

In the primary election of 1986, Clark County voters approved a one-quarter of one percent sales tax increase to fund flood control improvements. The sales tax increase became effective in March 1987, and the first sales tax revenues were received in May 1987. Sales tax revenue for fiscal year 2011-12 totaled \$75.1 million, bringing total revenues derived from sales tax since 1987 to \$1.29 billion.

After three years of declining sales tax revenue, the economy is beginning to modestly improve, and sales tax revenue has increased for the second consecutive year. Next fiscal year, 2012-13, sales tax revenues are projected to be \$77.4 million, which is 3.1 percent more than last year's revenues. More than 90 percent of sales tax revenue continues to be used to build and maintain flood control projects and pay for the associated debt service. The remainder, 10 percent of sales tax revenue, is used to pay for salaries and benefits, professional consulting contracts, and other administrative costs. During fiscal year 2011-12, the District expended approximately \$138.2 million for flood control projects, debt service, and flood control maintenance and \$5.4 million for administrative costs. Since inception, the District has overseen the design and construction of approximately \$1.66 billion in flood control improvements throughout Clark County.

Each year, in conjunction with the development of the Ten-Year Construction Program (TYCP), a ten-year forecast of project funding is developed. The forecast incorporates revenues including sales tax, interest earnings, and debt-financing and expenditures for projects, operations, maintenance, and debt service. This long-range financial plan drives the TYCP project funding schedule including the planning and coordination of upcoming design and construction projects. Although revenues are still 16 percent below their peak from 2007, the District has been able to maximize resources for the TYCP. More than \$113.3 million in resources are available for projects in the first year of the TYCP, and total available resources for the TYCP are estimated to be \$531.6 million, which in addition to sales tax include estimated future debt issues of \$75 million. However, there is no guarantee that future debt will be issued—the District will evaluate whether to issue debt based on economic conditions and progress in project development at the time debt is considered.

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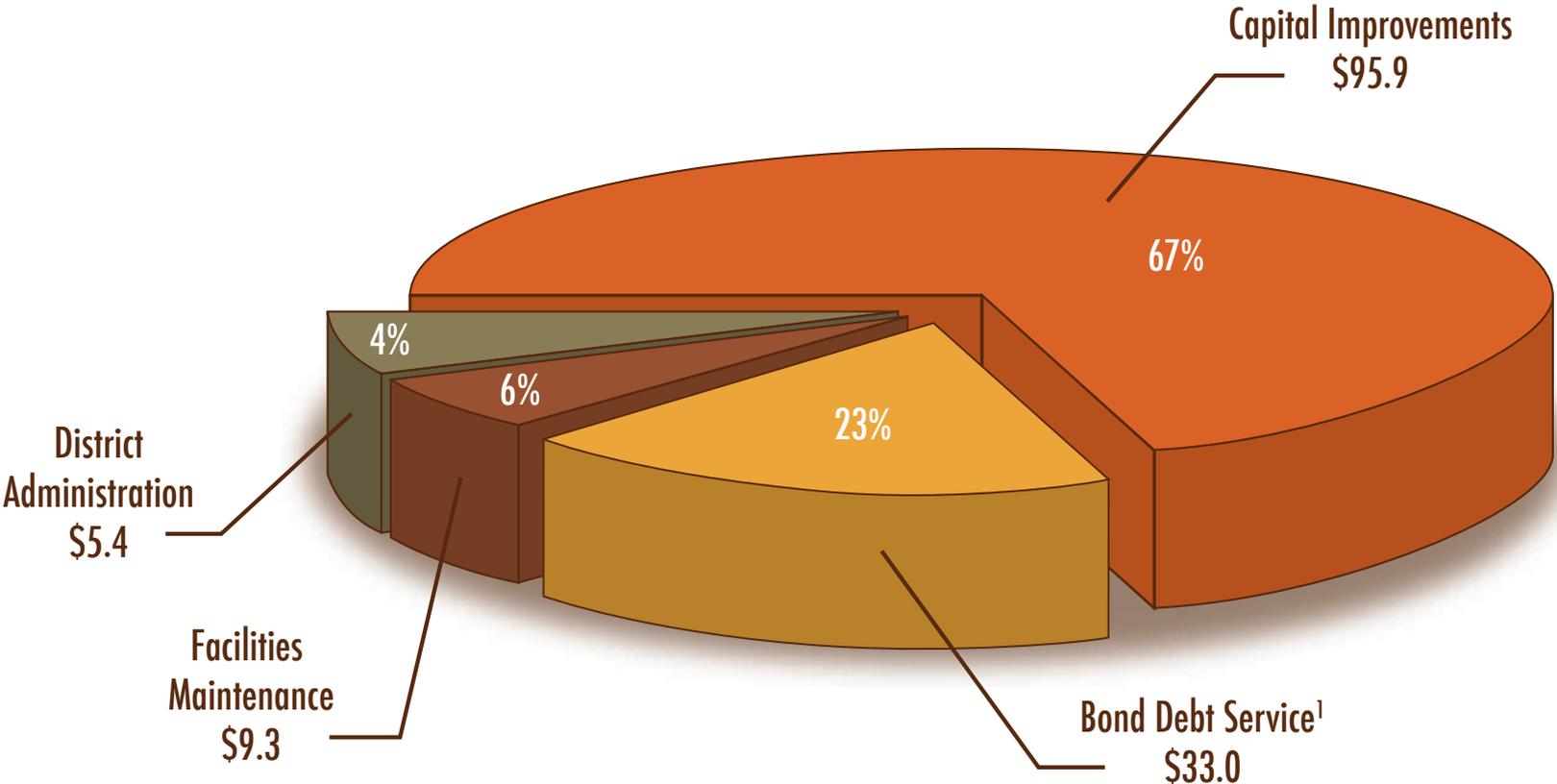
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¹ Bond Debt Service includes the 2006 (\$200 million) General Obligation Flood Control Refunding Bonds, the 2008 (\$50.57 million) General Obligation Flood Control Refunding Bonds, the 2009B General Obligation Flood Control Build America Bonds (\$150 million) and the 2010 (\$29.425 million) General Obligation Flood Control Refunding Bonds that were issued to expedite construction of flood control improvements.





DEMONSTRATING FISCAL INTEGRITY (CONTINUED)

In order to expedite flood control project design and construction, from 1991 to the present, the District has issued a total of \$580 million in general obligations, of which \$404.5 million remains outstanding. These funds have been directly used to pay for flood control projects. Due to the District's and Clark County's excellent credit rating, extremely favorable interest rates have been obtained, which saves the community millions in interest costs. The District has used a blended approach to finance flood control projects including short-term and long-term debt instruments with interest rates that have averaged from less than 1 percent to 6.2 percent.

Current policies and procedures allow the entities to accelerate the construction of projects in the second and third year of the TYCP if certain conditions are met. The potential exists for funding requests to exceed available resources, which creates a competitive environment that drives the entities to expedite project implementation. The District has also been able to work with other governmental jurisdictions and agencies to fund projects in advance of the availability of District resources. The projects are built ahead of schedule and the District pays for the project at a later date by using Entity Advance Funding and Resolution Agreements. Furthermore, the District has successfully negotiated with private developers and other governmental agencies to pay for flood control projects when certain conditions exist.

Some of the advantages of accelerating the construction of flood control projects are: 1) Constructed projects protect life and property; 2) There are cost savings in building projects ahead of schedule because of the deterioration of purchasing power over time due to inflation; and 3) As a result of the current economic state, the District is able to build more due to increased competition which is producing more favorable bids. The District is continuously evaluating opportunities to take advantage of the current situation in order to accelerate the construction of flood control facilities at favorable prices.

Over the past 18 years, the District has been awarded the Distinguished Budget Presentation Award by the Government Finance Officers Association of the United States and Canada. The award represents a significant achievement by the District and reflects the District's commitment to meet the highest principles of governmental budgeting. In order to receive the award, the District has to satisfy nationally recognized guidelines for effective budget presentation.

Annually, the District continues to receive favorable audit opinions that state the District's financial statements are presented fairly in all material respects. This means that independent auditors have reviewed the District's financial statements and are satisfied that the financial statements are materially accurate. These positive opinions advise stakeholders that the District is following proper accounting principles and procedures.

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Red Rock Detention Basin

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT FUNDS

Governmental Funds - Fiscal Year 2011-12
Sources and Uses of Funds Summary In Millions of Dollars (Unaudited¹)

	Operating Fund 2860	Facilities Maintenance Fund 2870	Bond Debt Service Fund 3300	Capital Improvement Funds 4430 / 4440	Total District Funds ¹
Beginning Balance (July 1, 2011)	\$9.1	\$3.1	\$14.0	\$206.4	\$232.6
SOURCES OF FUNDS					
Sales Tax Revenue	75.1	0.0	0.0	0.0	75.1
Build America Bonds Rebate	3.3	0.0	0.0	0.0	3.3
Interest / Other	0.3	0.0	0.1	1.7	2.1
Transfers from Other Funds	30.2	8.0	30.3	58.0	126.5
Total Sources of Funds	108.9	8.0	30.4	59.7	207.0
USES OF FUNDS					
Salaries and Wages	(2.2)	0.0	0.0	0.0	(2.2)
Employee Benefits	(0.8)	0.0	0.0	0.0	(0.8)
Services and Supplies	(2.2)	(9.3)	0.0	0.0	(11.5)
Capital Outlay	(0.2)	0.0	0.0	(95.9)	(96.1)
Principal	0.0	0.0	(10.8)	0.0	(10.8)
Interest	0.0	0.0	(22.2)	0.0	(22.2)
Transfers to Other Funds	(96.3)	0.0	0.0	(30.2)	(126.5)
Total Uses of Funds	(101.7)	(9.3)	(33.0)	(126.1)	(270.1)
Fiscal Year Net Change	7.2	(1.3)	(2.6)	(66.4)	(63.1)
Ending Balance (June 30, 2012)	\$16.3	\$1.8	\$11.4	\$140.0	\$169.5

¹Audited financial statements are expected to be available in November 2012

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MAINTAINING FLOOD CONTROL FACILITIES

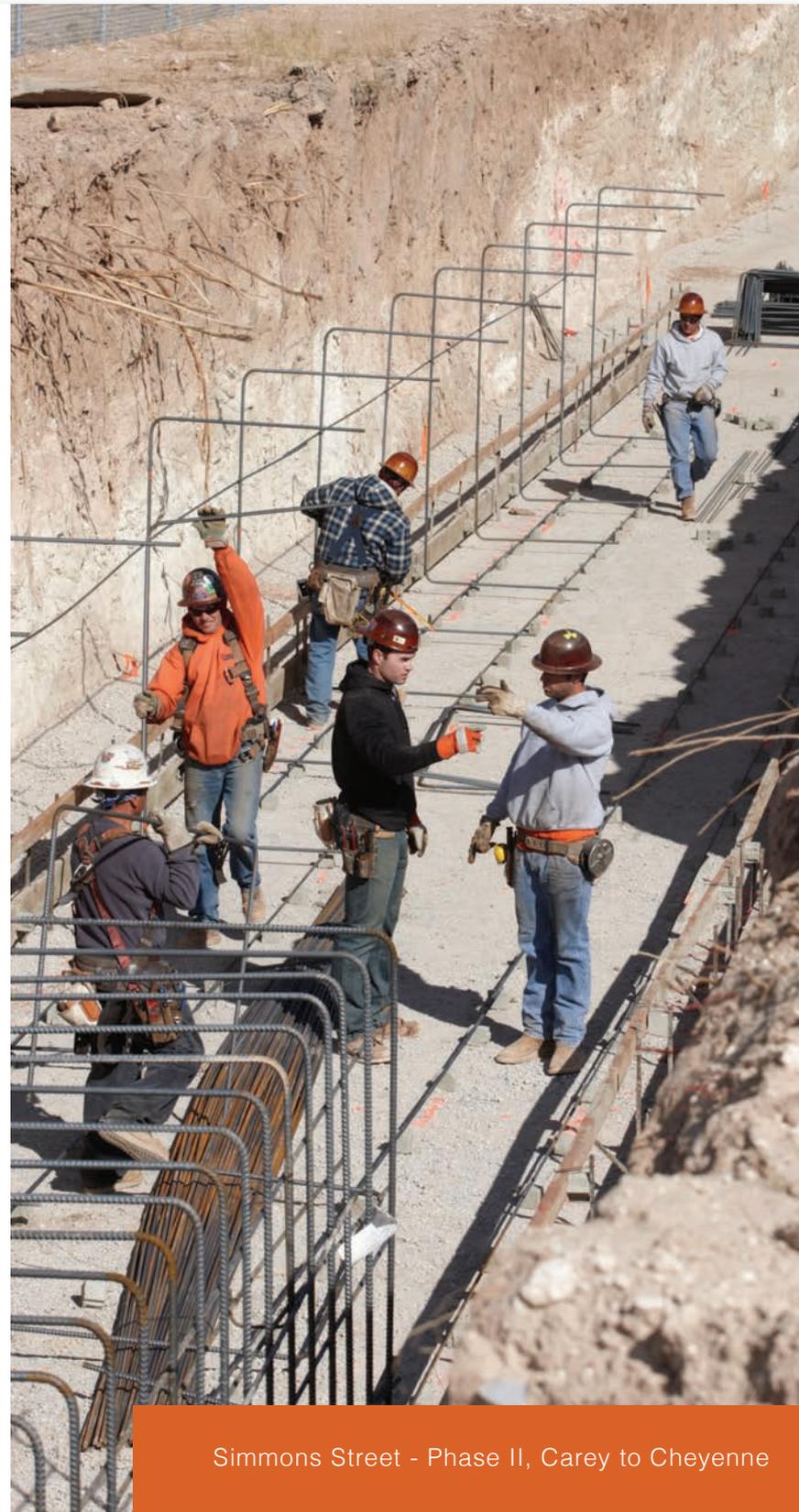
The Board has adopted an Operations and Maintenance Manual to establish performance standards and guidelines for the maintenance of flood control facilities located within the District's service area. Each of the separate entities in Clark County is provided funds by the District to maintain the regional flood control facilities within their respective jurisdictions. The District worked with the entities to develop the fiscal year 2011-12 Maintenance Work Plans and Budgets, which were approved by the Board on June 9, 2011, in the amount of \$9,958,300.

Flood control facility maintenance was performed using a combination of private contractors and entity maintenance staff. During this year, approximately 573 miles of channel and underground storm drains, of which 130 miles are natural washes, were inspected and/or maintained throughout the service area of the District, along with 90 detention basins.



MAINTENANCE WORK PROGRAM EXPENDITURES

Entity.....	FY 2011-12 (Unaudited)
Boulder City.....	\$158,142
Clark County.....	\$4,817,218
Henderson.....	\$372,653
Las Vegas.....	\$2,050,000
Mesquite.....	\$170,000
North Las Vegas.....	\$1,682,759
TOTAL.....	\$9,250,772



Simmons Street - Phase II, Carey to Cheyenne

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Duck Creek, Mountain Vista to Green Valley. This project was completed in February 2012 for about \$8.5 million. The channel will help safely convey flood water through the area.

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TOTAL PROJECT FUNDING

Through Fiscal Year 2011-12 (\$ Millions)

	Total-to-Date	FY 2011-12
Boulder City	\$24.2	\$10
Clark County ¹	\$743.2	\$24.6
Henderson	\$157.2	\$1.5
Las Vegas	\$420.3	\$21.6
Mesquite ²	\$24	\$0
North Las Vegas	\$288.9	\$17.2
TOTAL FUNDING¹	\$1,657.7	\$74.9

¹Includes federal funding for the Tropicana and Flamingo Washes Project.

²No projects funded in FY 2011-12.

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PROJECTS COMPLETED (DURING FISCAL YEAR 2010-11)

CLARK COUNTY

Blue Diamond Wash Wigwam, UPRR to Rainbow Boulevard	January 2011
Duck Creek, Railroad Detention Basin	February 2011
Flamingo Wash, Desert Inn to Eastern Avenue	December 2011
Las Vegas Boulevard/Serene Avenue Storm Drain, Local Drainage Project.....	June 2011
Lower Blue Diamond Detention Basin	January 2011
Sunrise Avenue Storm Drain, Fogg St. to Clayton St., Local Drainage Project	June 2011
Tunis Avenue and Karvel Street Storm Drain, Local Drainage Project	June 2011
Twain at Pecos - McLeod Storm Drain, Local Drainage Project.....	October 2010

HENDERSON

C-1 Equestrian Tributary	July 2010
Pittman Railroad East Conveyance	December 2010

LAS VEGAS

Las Vegas Wash - Rainbow (Elkhorn Road to Grand Teton Drive).....	March 2011
Elkhorn Springs & Buffalo Storm Drain.....	June 2011
Horse Drive Interchange	December 2010
Oakey - Meadows Storm Drain, Phase I.....	January 2011
Gilmore Ave. - Decatur Blvd. to Thom Blvd. Storm Drain, Local Drainage Project.....	May 2011

CITY OF NORTH LAS VEGAS

Simmons Street Drainage Improvements - Gowan Outfall	June 2011
Tropical Parkway Channel East	June 2011

PROJECTS COMPLETED (DURING FISCAL YEAR 2011-12)

BOULDER CITY

Yucca Debris Basin, Collection and Outfall	January 2012
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CLARK COUNTY

Duck Creek, Mountain Vista Street to Green Valley Parkway	February 2012
Duck Creek, Robindale to I-215	March 2012
Flamingo Wash, Nellis Boulevard to I-515	June 2012
Lower Blue Diamond Detention Basin Collector Channel, Construction (Resolution No. 04-4).....	June 2012
Lower Flamingo Detention Basin.....	June 2012
Tropicana North Branch Detention Basin	August 2011



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LAS VEGAS

Gowan Outfall - Lone Mountain Branch (Rancho Drive to Decatur Boulevard)	June 2012
Langtry Channel - Bonanza Road to Washington Avenue (DESIGNED WITH MWP)	November 2011
Las Vegas Wash - Decatur & Elkhorn, CC 215	May 2012
North and South Environmental Enhancement Areas - Floyd Lamb Park	April 2012
Oakey - Meadows Storm Drain, Phase IIA	June 2012

MESQUITE

Town Wash Conveyance, I-15 to Virgin River	July 2011
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PROJECTS FUNDED FOR CONSTRUCTION (AS OF JUNE 30, 2012)

BOULDER CITY

ESTIMATED COMPLETION DATE

North Railroad Conveyance	September 2013
Bootleg Canyon Detention Basin, Phase II	March 2014

CLARK COUNTY

Annie Oakley Drive at Rawhide Channel Storm Drain, Local Drainage Project	December 2012
Carey Avenue Storm Drain, Local Drainage Project	April 2012
Flamingo - Boulder Highway North, Sahara Avenue to Flamingo Wash	March 2013
Flamingo Diversion - South Buffalo Branch, Flamingo Wash to Sunset Road	March 2013
Olive Street Storm Drain, US-95 to Palm Street, Local Drainage Project	January 2013
Orchard Detention Basin	November 2013
Outlying Areas - Muddy River Cooper Street Bridge	October 2013
Tropicana Wash at Swenson Street	September 2013

HENDERSON

NV Energy Relocation, Equestrian Tributary, Phase I	November 2012
Pioneer Detention Basin Expansion and Inflow	August 2013
Pittman Wash, UPRR to Santiago, Phase I	August 2012
Pittman Wash, UPRR to Santiago, Phase II	February 2014

LAS VEGAS

Concord Street Storm Drain, Local Drainage Project	July 2013
Oakey Drain - Cahlan to Barnard	January 2013
Oakey Meadows Storm Drain - Phase IIB	March 2013
Vegas Drive Storm Drain - Rancho to Shadow Mountain	August 2013

CITY OF NORTH LAS VEGAS

Freeway Channel - Owens Avenue to Miller Avenue, Phase II	May 2013
Las Vegas Wash Main Branch, Lake Mead Boulevard to Las Vegas Boulevard	July 2013
Las Vegas Wash - Las Vegas Boulevard to Cheyenne Avenue	March 2013
Simmons Street - Phase II, Carey to Cheyenne	November 2012



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PROJECTS SCHEDULED FOR WORK (DURING FISCAL YEAR 2012-13)

BOULDER CITY

	ESTIMATED COMPLETION DATE
Buchanan, El Camino, and Gingerwood Crossings, Design	October 2012
Buchanan Blvd., Phase III Improvements, Construction (EFS).....	February 2014
Hemenway System, Phase II Improvements, Design	June 2013
Hemenway System, Phase II Improvements, Construction	September 2014

CLARK COUNTY

Blue Diamond Wash Railroad, Right-of-Way	June 2013
F-4 Patrick Lane/Ft. Apache Road Lateral, Design	April 2013
F-4 Patrick Lane/Ft. Apache Road Lateral, Construction	June 2014
Flamingo Diversion - Rainbow Branch, Design	January 2013
Flamingo Diversion - Rainbow Branch - Russell to Sunset, Construction	April 2014
Flamingo Wash, Industrial Road to Hotel Rio Drive, Design.....	May 2013
Flamingo Wash, Industrial Road to Hotel Rio Drive, Construction.....	August 2014
Las Vegas Wash, Sloan Channel to Cedar Avenue, Design	June 2014
Las Vegas Wash, Sloan Channel to Cedar Avenue, Construction	January 2017
Orchard Collector - Charleston to Linden, Construction	August 2014
Outlying Areas - Muddy River West Levee - Moapa Valley, Design	July 2016
Outlying Areas - Fairgrounds Detention Basin, Design	June 2013
Outlying Areas - Fairgrounds Detention Basin, Construction	September 2014
Outlying Areas - Goodsprings - Phase I, Design	October 2013
Outlying Areas - Goodsprings - Phase I, Right-of-Way and Construction.....	January 2015
Outlying Areas - Hiko Detention Basin Expansion, Construction	June 2016
Outlying Areas - Laughlin - SR 163 to Casino Drive, Design.....	April 2013
Outlying Areas - Laughlin - SR 163 to Casino Drive, Construction.....	July 2014
Outlying Areas - Muddy River Logandale Levee, Design	April 2013
Outlying Areas - Muddy River Logandale Levee, Construction	July 2014
Outlying Areas - Rainbow Canyon Boulevard Bridge, Construction	June 2016
Outlying Areas - Searchlight - South, Encinitas St. Storm Drain, Design	February 2013
Outlying Areas - Searchlight - South, Encinitas St. Storm Drain, Construction	May 2014
Toiyabe Street Storm Drain, Local Drainage Project, Construction	March 2014
Tropicana Avenue Conveyance - Las Vegas Wash to Mountain Vista, Design	August 2013
Tropicana Avenue Conveyance - Las Vegas Wash to Morris, Construction.....	November 2014
Tropicana Avenue Conveyance - Morris to Mountain Vista, Design.....	August 2013
Upper Duck, Central Duck, Lower Blue Diamond, & Bird Springs Detention Basin, Design and Right-of-Way	June 2013
Wagon Trail Channel - Sunset to Teco, Right-of-Way	June 2014
Washington/Hollywood Street Storm Drain, Local Drainage Project, Construction.....	March 2014
Windmill Wash Detention Basin Expansion, Design	May 2013
Windmill Wash Detention Basin Expansion, Construction	August 2014



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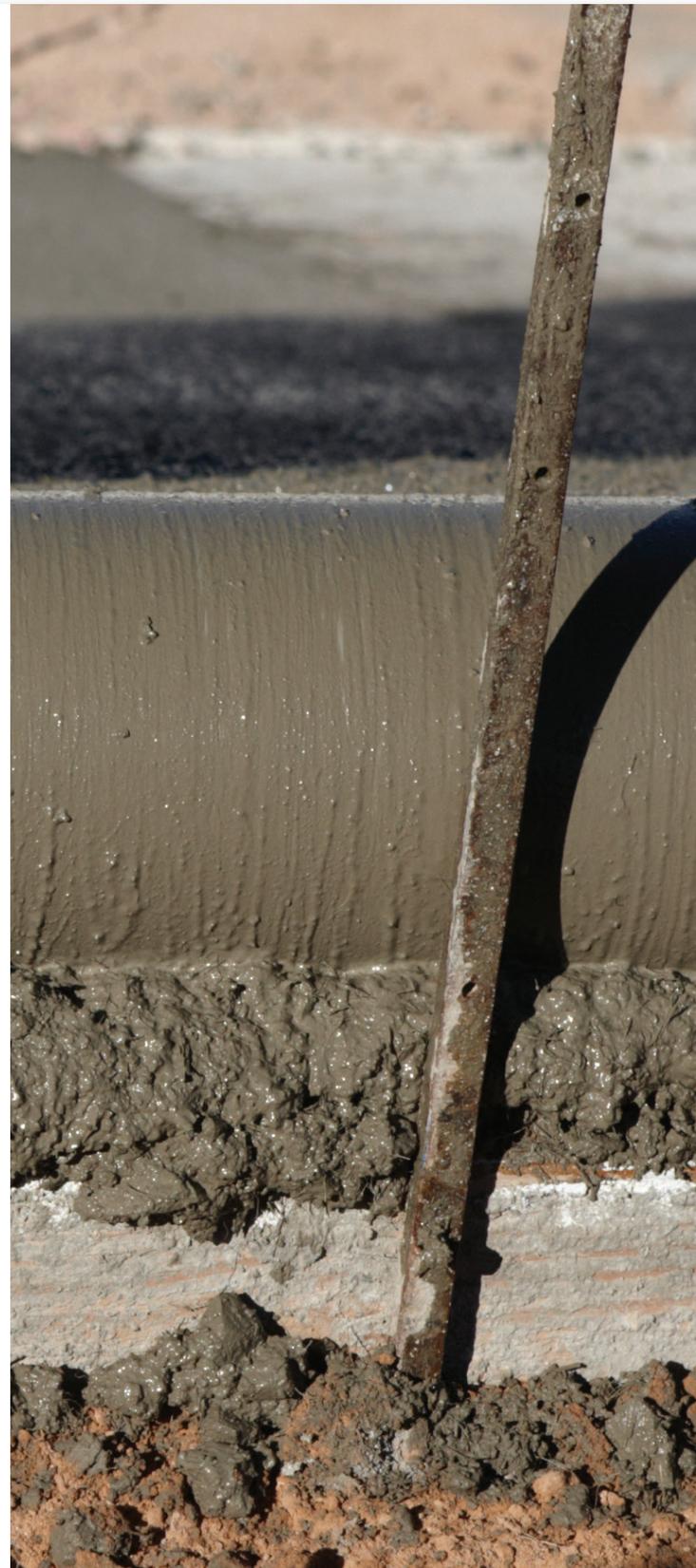
HENDERSON

ESTIMATED COMPLETION DATE

Anthem Parkway Channel, Horizon Ridge to Sienna Heights, Design	April 2013
Anthem Parkway Channel - Horizon Ridge to Sienna Heights, Construction.....	July 2014
Center Street Storm Drain, Design	October 2013
Duck Creek at Sunset to Sandhill, Design.....	April 2013
Duck Creek - Sunset to Sandhill, Construction.....	July 2014
Equestrian Tributary Phase II, Design	December 2012
Equestrian Tributary, Phase II, Construction	March 2014
Horizon Ridge Debris Basin & Outfall at Sumner Ranch Road, Design.....	April 2013
Horizon Ridge, Debris Basin & Outfall at Sumner Ranch Road, Construction.....	July 2014
Equestrian Detention Basin Expansion, Design	December 2012
Equestrian Detention Basin Expansion, Construction	March 2014
C-1, Four Kids Wash - Lake Mead to Eagle Rock, Design.....	June 2013
Four Kids Wash - Lake Mead to Eagle Rock, Construction	September 2014
Pittman Burns, Sunset to Galleria, Design	February 2013
Pittman Burns, Galleria to Boulder Highway, Construction	May 2014
Pittman North Detention Basin Outfall, Right-of-Way	June 2016
Pittman Wash, Duck Creek at I-515, Design	May 2013
Pittman Wash Duck Creek at I-515, Construction	May 2016
Pittman West Horizon - Palm Hills, Design	June 2013
Pittman West Horizon - Palm Hills, Construction	September 2014
Racetrack Channel - Drake to Burkholder, Design.....	April 2013
Racetrack Channel - Drake to Burkholder, Construction	July 2014
Whitney Wash Channel, Design	August 2013

LAS VEGAS

Angel Park North - Detention Basin, Design	October 2012
Angel Park Detention Basin Expansion, Construction	January 2014
Ann Road Channel West - Rainbow Boulevard, Design.....	November 2012
Ann Road Channel West - Rainbow Boulevard, Construction, (EFS).....	February 2014
Boulder Highway Sahara Avenue, Mojave Road to Boulder Highway, Design	August 2013
Flamingo Wash, Boulder Highway North - Main Street, Design	March 2013
Flamingo - Boulder Highway North, Main Street, Construction.....	June 2014
Freeway Channel - Washington, MLK to Rancho Drive, Design.....	April 2013
Freeway Channel - Washington, MLK to Rancho Drive, Construction.....	July 2014
Las Vegas Wash, Grand Teton, Mountain Spa Drive to Durango Drive, Design	February 2013
LVW - Grand Teton, Mountain Spa to Durango Drive, Construction, (EFS).....	May 2014
Las Vegas Wash - Sloan Channel to Cedar Avenue, Design.....	June 2014
Rancho Road System - Elkhorn, Fort Apache to Grand Canyon, Design	March 2013



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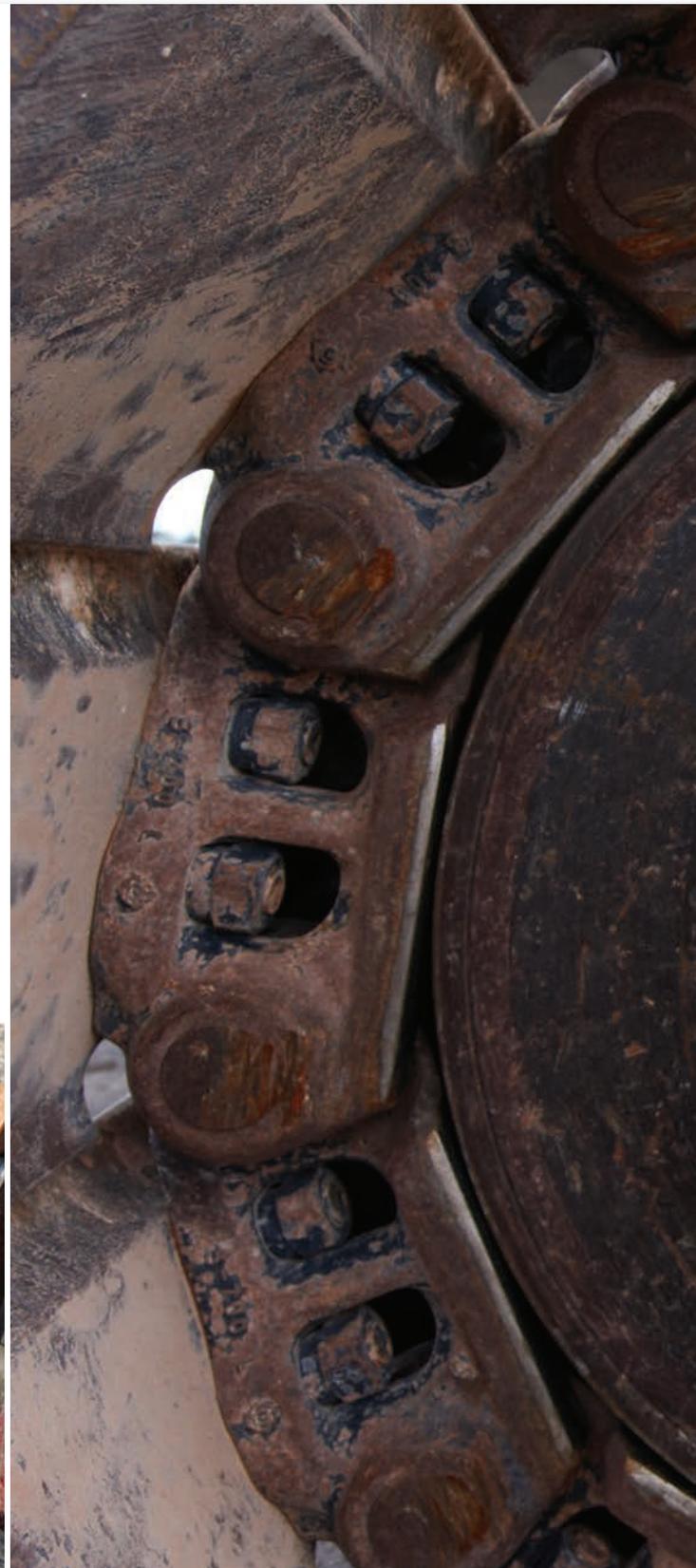
LAS VEGAS (CONTINUED)

ESTIMATED COMPLETION DATE

Rancho Road System - Fort Apache to Grand Canyon, Construction	June 2014
Rancho System - Beltway to Elkhorn, Design.....	February 2013
Rancho Road System - Beltway to Echelon Point, Construction	May 2014
Rancho System - Echelon Point to Elkhorn, Construction	May 2014

CITY OF NORTH LAS VEGAS

Ann Road Channel East - ULVW to Fifth Street, Design.....	February 2013
Ann Road Channel East, Las Vegas Wash to Fifth Street, Right-of-Way.....	February 2013
Ann Road Channel East, Las Vegas Wash to Fifth Street, Construction	May 2014
Centennial Collector, Design	February 2014
Centennial Collector, Right-of-Way	February 2014
Centennial Collector, Construction	May 2015
Colton Channel, Design.....	April 2013
Colton Channel, I-15 to Fifth Street, Construction.....	July 2014
Brooks Channel, Design.....	March 2013
Brooks Channel, Right-of-Way	March 2013
Brooks Channel, Construction.....	June 2014
Fifth Street Collector - Centennial to Deer Springs, Design	March 2014
Fifth Street Collector - Centennial to Deer Springs, Right-of-Way	March 2014
Fifth Street Collector - Centennial to Deer Springs, Construction	June 2015
Las Vegas Wash - N Channel, Cheyenne to Gowan, Design and Right-of-Way	April 2014
Las Vegas Wash - N Channel, Cheyenne to Gowan, Construction.....	July 2015



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REGIONAL FLOOD CONTROL DISTRICT MEMBERSHIPS

ALERT User's Group • American Meteorological Society • American Public Works Association • American Society of Civil Engineers • Arizona Floodplain Management Association • Association of State Dam Safety Officials • Association of State Floodplain Managers • City-County Communications and Marketing Association • Construction Managers Association of America • Floodplain Management Association • Government Finance Officers Association • International Association of Business Communicators • Las Vegas Valley Watershed Advisory Committee • National Association of Flood and Storm Water Management Agencies • National Association of Government Communicators • National Hydrologic Warning Council • National Society of Professional Engineers • Nevada Development Authority • Nevada Hazard Mitigation Planning Committee • Nevada Taxpayers Association • Public Relations Society of America • Southern Nevada Home Builders Association • State of Nevada Entity Technical Alliance • UNLV Civil and Environmental Engineering and Construction Department Advisory Board

SPECIAL DISTRICT RECOGNITION

2011 PUBLIC RELATIONS SOCIETY OF AMERICA PINNACLE AWARDS

- 2nd place Award of Excellence for the "Don't Trash Clark County – Pet Waste" PSA

2012 GOVERNMENT FINANCE OFFICERS ASSOCIATION (GFOA)

- Distinguished Budget Presentation Award for the District's Fiscal Year 2011-12 Budget and Financial Plan



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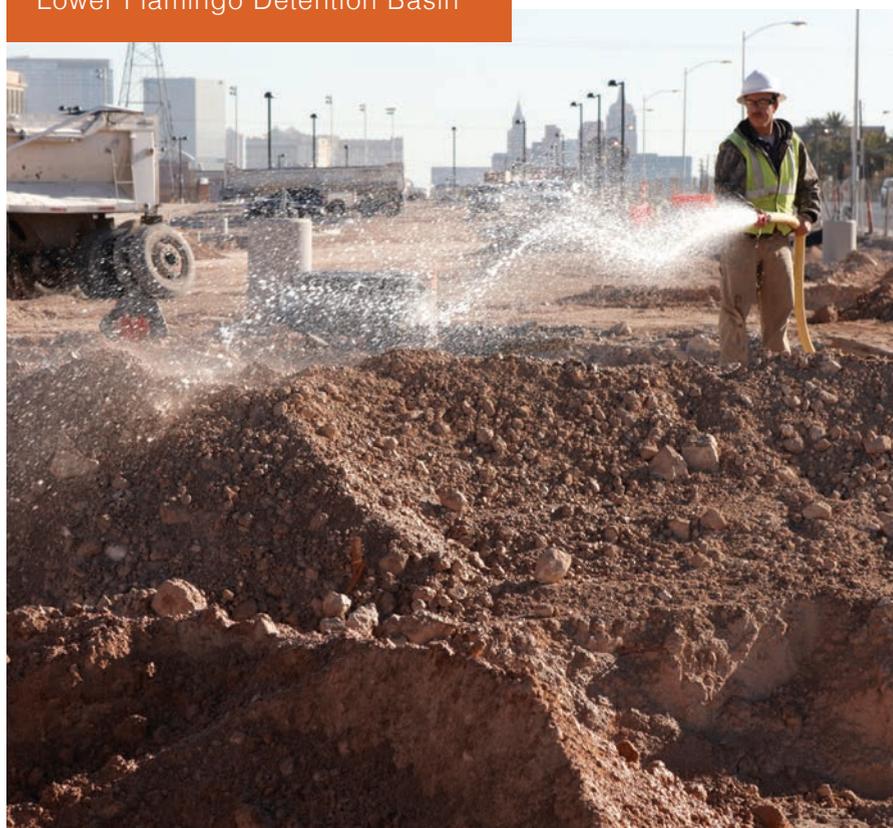




Gowan Outfall



Lower Flamingo Detention Basin



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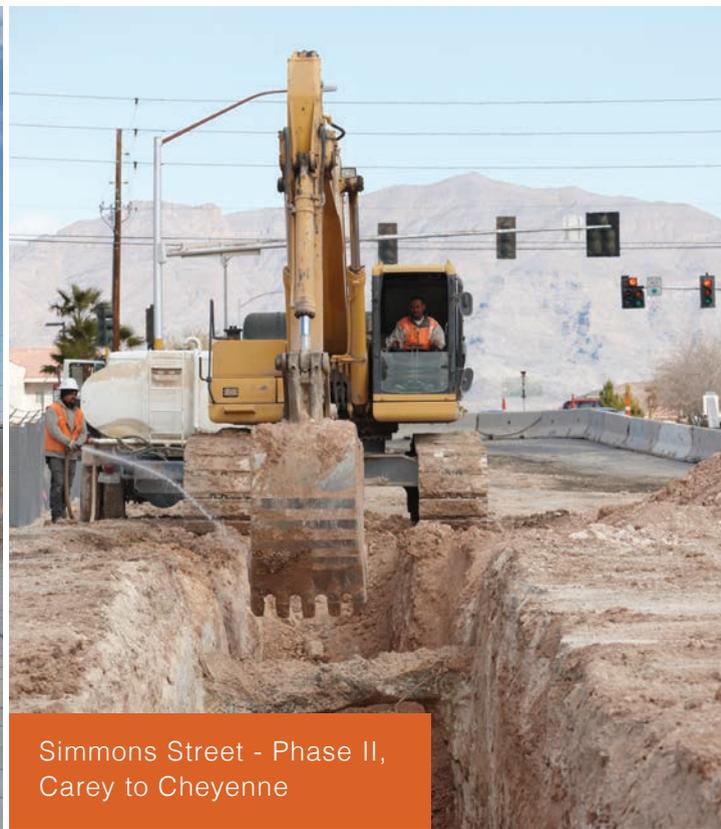




Oakey Drain - Cahlan to Barnard



Northern Beltway at Decatur



Simmons Street - Phase II, Carey to Cheyenne

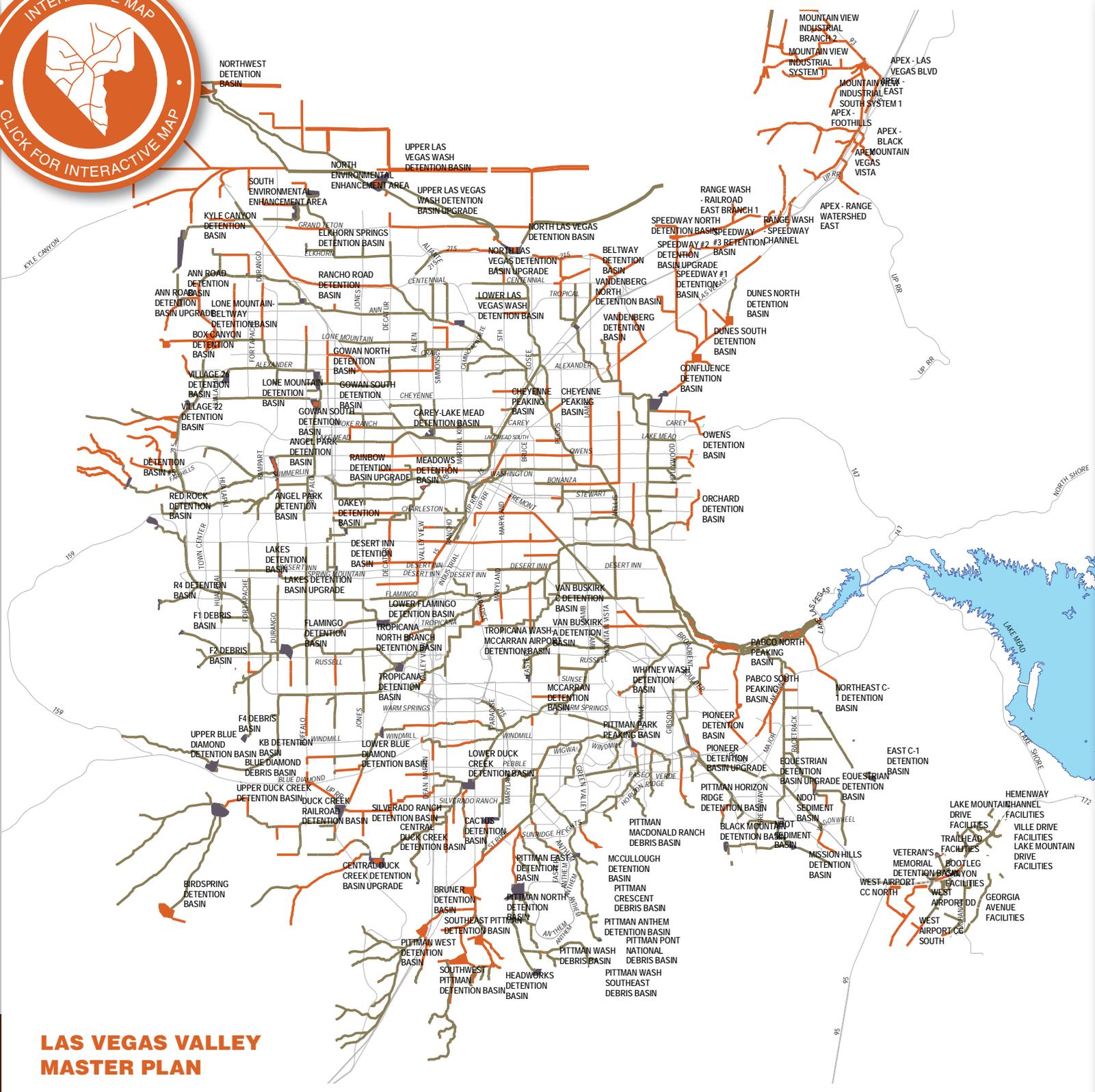


Duck Creek, Mountain Vista to Green Valley Parkway

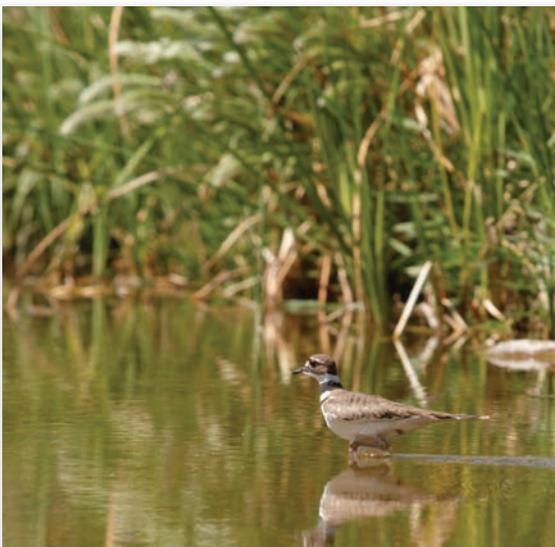
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**LAS VEGAS VALLEY
MASTER PLAN**



LEGEND

Conveyances	Basins
Completed	Basins
Proposed	Basins

Service Area
Includes all of Clark County



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REGIONAL FLOOD
CONTROL DISTRICT



WWW.REGIONALFLOOD.ORG

600 South Grand Central Parkway, Suite 300
Las Vegas, NV 89106-4511

Monday – Friday 8am to 5pm
702.685.0000

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