



Annex O Southgate Recreation and Park District

O.1 Introduction

This Annex details the hazard mitigation planning elements specific to the Southgate Recreation and Park District (Southgate RPD), a previously participating jurisdiction to the Sacramento County Local Hazard Mitigation Plan (LHMP) Update. This Annex is not intended to be a standalone document, but appends to and supplements the information contained in the Base Plan document. As such, all sections of the Base Plan, including the planning process and other procedural requirements apply to and were met by the Southgate Recreation and Park District. This Annex provides additional information specific to Southgate RPD, with a focus on providing additional details on the planning process, risk assessment, and mitigation strategy for this District.

O.2 Planning Process

As described above, the District followed the planning process detailed in Section 3 of the Base Plan. In addition to providing representation on the Sacramento County Hazard Mitigation Planning Committee (HMPC), Southgate RPD formulated its own internal planning team to support the broader planning process requirements. Internal planning participants, their positions, and how they participated in the planning process are shown in Table O-1. Additional details on plan participation and Southgate RPD representatives are included in Appendix A.

Table O-1 Southgate RPD Planning Team

Name	Position/Title	How Participated
Juanita Cano	Temporary Planner I	Collected Data, Drafted Text
Paula Hansen	Administration Manager	Provided Data, Reviewed draft documents
Scott Hokama	Parks Manager	Provided information on impacts to District
Vincent King	Planner II	Attended Meetings, Reviewed draft document
Shalini Singh-Martin	Planner I	Attended Meetings
Erick Jones	Planner II	Reviewed draft document

Source: Southgate RPD

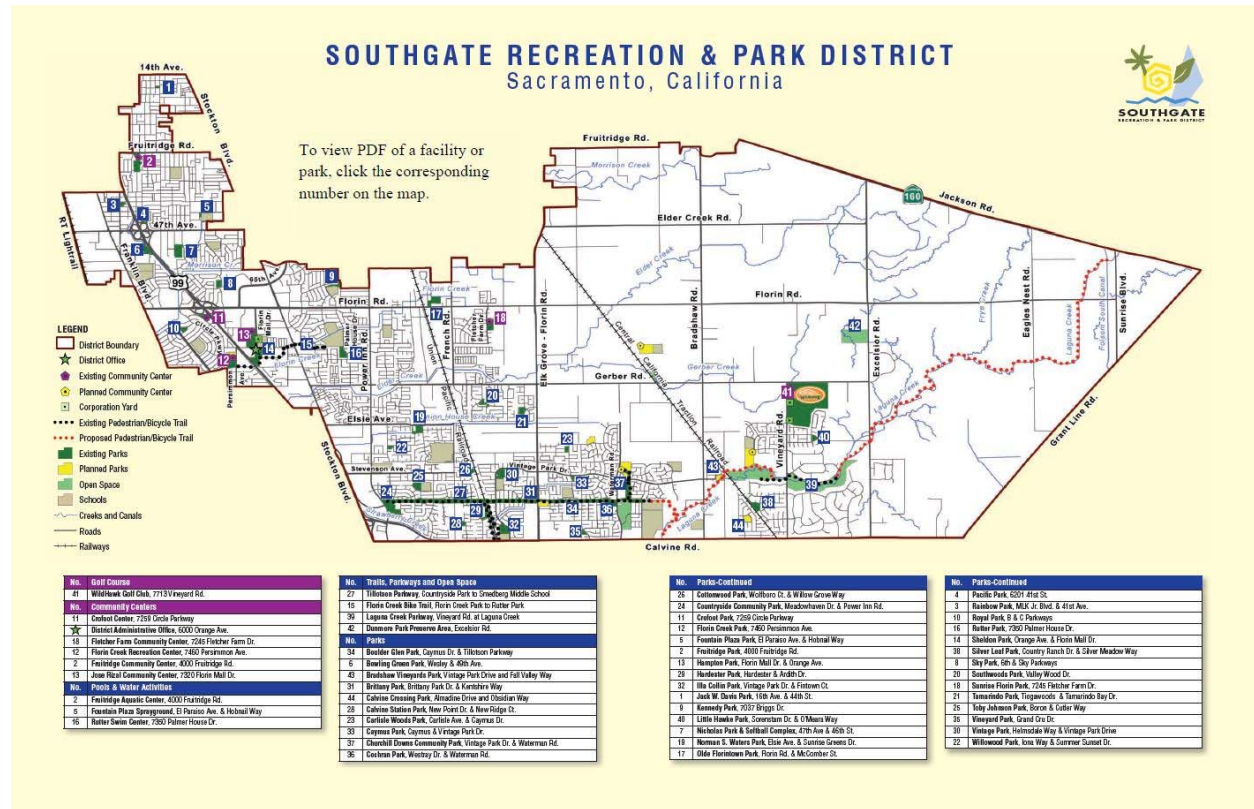
O.2.1. Coordination with Other District Planning Efforts

Coordination with other District planning efforts is paramount to the successful implementation of this plan. This Section provides information on how the District integrated the previously-approved 2011 Plan into existing planning mechanisms and programs. Southgate RPD did not incorporate the 2011 LHMP into any planning mechanism since 2011 as no hazard specific planning has been done since that time.

O.3 Community Profile

The community profile for Southgate RPD is detailed in the following sections. Figure O-1 displays a map and the location of Southgate RPD boundaries within Sacramento County. The District lies east of Sacramento, south of Rancho Cordova and north of Elk Grove. The District’s eastern boundary extends to Grant Line Road.

Figure O-1 Southgate Recreation and Park District Map



O.3.1. District Overview, History and Background

Southgate Recreation and Park District is an independent special district established in 1956 under the Public Resources Code. The District provides park and recreation services to 100,000 taxpayers in the rapidly urbanizing southeast area of Sacramento County, California. The District is managed by an elected five-member Board of Directors.

For over fifty years Southgate Recreation & Park District has been acquiring and developing parks and recreational facilities. The District encompasses a 52-square mile area of unincorporated South Sacramento County. In this area, the District currently maintains 47 parks, 6 community centers, 2 aquatic facilities and numerous landscape corridors and nature preserves. The District’s primary goal and its public charge is to provide recreation and park services to the 120,000 residents it serves. The District employs professional management and staff who manage the diverse services and facilities for the South Sacramento community.

Over the next twenty years we expect to add approximately 500 acres of park land and green space as new subdivision development occurs. Our strong tradition of Parks, Programs & Partnerships will continue to guide us, enabling us to continue serving the park and recreation needs of our socially, economically and culturally diverse community.

O.4 Hazard Identification

Southgate RPD's planning team identified the hazards that affect the District and summarized their geographic extent, probability of future occurrences, potential magnitude/severity, and significance specific to Southgate RPD (see Table O-2).

Table O-2 Southgate RPD—Hazard Identification

Hazard	Geographic Extent	Probability of Future Occurrences	Magnitude/Severity	Significance
Agricultural Hazards	Limited	Unlikely	Limited	Low
Bird Strike	Limited	Unlikely	Negligible	Low
Climate Change	Limited	Unlikely	Limited	Low
Dam Failure	Extensive	Occasional	Critical	Low
Drought and Water Shortage	Limited	Unlikely	Negligible	Medium
Earthquake	Limited	Unlikely	Limited	Low
Earthquake: Liquefaction	Limited	Occasional	Limited	Low
Flood: 100/200/500-year	Limited	Occasional	Limited	Medium
Flood: Localized Stormwater Flooding	Limited	Unlikely	Negligible	Low
Landslides	Significant	Occasional	Limited	High
Levee Failure	Limited	Occasional	Negligible	High
River/Stream/Creek Bank Erosion	Limited	Likely	Negligible	Low
Severe Weather: Extreme Temperatures – Cold/Freeze	Extensive	Occasional	Limited	Low
Severe Weather: Extreme Temperatures – Heat	Extensive	Highly Likely	Critical	Medium
Severe Weather: Fog	Significant	Likely	Limited	Low
Severe Weather: Heavy Rains and Storms (Thunderstorms, Hail, and Lightning)	Extensive	Highly Likely	Catastrophic	Medium
Severe Weather: Wind and Tornadoes	Limited	Unlikely	Limited	Low
Subsidence	Limited	Unlikely	Negligible	Low
Volcano	Limited	Unlikely	Negligible	Low
Wildfire:(Burn Area/Smoke)	Significant	Occasional	Negligible	Low
Geographic Extent Limited: Less than 10% of planning area Significant: 10-50% of planning area Extensive: 50-100% of planning area		Magnitude/Severity Catastrophic —More than 50 percent of property severely damaged; shutdown of facilities for more than 30 days; and/or multiple deaths Critical —25-50 percent of property severely damaged; shutdown of facilities for at least two weeks; and/or injuries and/or illnesses result in permanent disability Limited —10-25 percent of property severely damaged; shutdown of facilities for more than a week; and/or injuries/illnesses treatable do not result in permanent disability Negligible —Less than 10 percent of property severely damaged, shutdown of facilities and services for less than 24 hours; and/or injuries/illnesses treatable with first aid		
Probability of Future Occurrences Highly Likely: Near 100% chance of occurrence in next year, or happens every year. Likely: Between 10 and 100% chance of occurrence in next year, or has a recurrence interval of 10 years or less. Occasional: Between 1 and 10% chance of occurrence in the next year, or has a recurrence interval of 11 to 100 years. Unlikely: Less than 1% chance of occurrence in next 100 years, or has a recurrence interval of greater than every 100 years.		Significance Low: minimal potential impact Medium: moderate potential impact High: widespread potential impact		

O.5 Hazard Profile and Vulnerability Assessment

The intent of this section is to profile Southgate RPD's hazards and assess the District's vulnerability separate from that of the Planning Area as a whole, which has already been assessed in Sections 4.2 and 4.3 Hazard Profiles and Vulnerability Assessment in the main plan. The hazard profiles in the main plan discuss overall impacts to the Planning Area and describes the hazard problem description, hazard extent, magnitude/severity, previous occurrences of hazard events and the likelihood of future occurrences. Hazard profile information specific to Southgate RPD is included in this Annex. This vulnerability assessment analyzes the property, population, critical facilities, and other assets at risk to hazards ranked of medium or high significance specific to the District. For more information about how hazards affect the County as a whole, see Chapter 4 Risk Assessment in the main plan.

O.5.1. Hazard Profiles

Each hazard vulnerability assessment in Section O.5.3, includes a description as to how the hazard affects the Southgate RPD and information on past occurrences. The intent of these section is to provide jurisdictional specific information on hazards and further describe how the hazards and risks differ across the Planning Area.

O.5.2. Vulnerability Assessment

This section identifies Southgate RPD's assets at risk, including values at risk, critical facilities and infrastructure, economic assets, natural resources, historic and cultural resources, and growth and development trends.

Assets at Risk and Critical Facilities

This section considers the District's assets at risk, with a focus on key District assets such as critical facilities, infrastructure, and other District assets and their values. With respect to District assets, the majority of these assets are considered critical facilities as defined for this plan:

Any facility (a structure, infrastructure, equipment or service), that is adversely affected during a hazardous event may result in interruption of services and operations for the District at any time before, during and after the hazard event. A critical facility is classified by the following categories: (1) Essential Services Facilities, (2) At-risk Populations Facilities, and (3) Hazardous Materials Facilities.

Table O-3 lists particular critical facilities and other District assets identified by the Southgate RPD's planning team as important to protect in the event of a disaster. Southgate RPD's physical assets, valued at over \$125 million, consist of the buildings and infrastructure to support the Southgate RPD operations.

Table O-3 Southgate RPD's Critical Facilities, Infrastructure, and Other District Assets

Name of Asset	Facility Type	Address	Replacement Value	Hazard Info
Corporation Yard Bldgs.	Maintenance Shop		\$611,040	Levee Failure, Tornado, Severe Storm
Crofoot Clubhouse	Recreation Center		\$1,215,905	Levee Failure, Tornado, Severe Storm
Florin Creek Recreation Center	Recreation Center		\$1,850,904	Levee Failure, Flood, Tornado, Severe Storm
Fruitridge Aquatic Center	Swim Pool		\$2,153,554	Tornado, Severe Storm
Fruitridge Community Center	Community Center		\$2,132,636	Tornado, Severe Storm
Rizal Community Center	Community Center		\$4,173,730	Levee Failure, Tornado, Severe Storm
Rutter Swim Center	Swim Pool		\$1,945,466	Levee Failure, Tornado, Severe Storm
Vineyard Community Center (Under Construction)	Community Center		\$7,102,050	Tornado, Severe Storm
Vineyard Community Aquatic Center (Under Construction)	Swim Pool		\$4,310,950	Tornado, Severe Storm
Sheldon Headquarters	Office		\$2,539,000	Levee Failure, Tornado, Severe Storm
Fletcher Farm Community Center	Community Center		\$1,045,000	Tornado, Severe Storm
WildHawk Golf Club	Clubhouse		\$1,839,200	Tornado, Severe Storm
WildHawk Golf Club – Cart Barn	Cart Storage		\$2,200,000	Tornado, Severe Storm
WildHawk Golf Club – Maintenance Bldg.	Maintenance Shop		\$600,000	Tornado, Severe Storm
WildHawk Golf Course	Golf Course		\$4,500,000	Drought, Flood, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Gerry Green Head Start Facility	Preschool		\$1,705,858	Tornado Severe Storm
Boulder Glen Park	Park		\$833,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Bowling Green Park	Park		\$2,682,000	Drought, Levee Failure, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Bradshaw Vineyards	Park		\$1,280,000	Drought, Flood, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat

Name of Asset	Facility Type	Address	Replacement Value	Hazard Info
Brittany Park	Park		\$525,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Calvine Crossing Park	Park		\$1,960,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Calvine Station Park	Park		\$1,019,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Carlisle Woods Park	Park		\$1,325,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Caymus Park	Park		\$931,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Churchill Downs Community Park	Park		\$4,278,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Cochran Park	Park		\$2,492,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Cottonwood Park	Park		\$1,655,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Countryside Community Park	Park		\$3,183,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Crofoot Park	Park		\$906,000	Drought, Levee Failure, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Florin Creek Park	Park		\$3,870,000	Drought, Flood, Levee Failure, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Fountain Plaza Park	Park		\$1,378,000	Drought, Levee Failure, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Fruitridge Park	Park		\$3,412,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Hampton Park	Park		\$3,430,000	Drought, Levee Failure, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat

Name of Asset	Facility Type	Address	Replacement Value	Hazard Info
Hardester Park	Park		\$2,204,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Illa Collin Park	Park		\$3,060,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Jack W. Davis Park	Park		\$483,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Kennedy Park	Park		\$1,159,000	Drought, Levee Failure, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Little Hawke Park	Park		\$1,363,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Nicholas Park	Park		\$3,461,000	Drought, Levee Failure, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Norman S. Waters Park	Park		\$2,611,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Olde Florintown Park	Park		\$3,192,000	Drought, Flood, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Pacific Park	Park		\$508,000	Drought, Levee Failure, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Rainbow Park	Park		\$1,408,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Royal Park	Park		\$976,000	Drought, Levee Failure, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Rutter Park	Park		\$2,306,000	Drought, Levee Failure, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Sheldon Park	Park		\$3,822,000	Drought, Flood, Levee Failure, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat

Name of Asset	Facility Type	Address	Replacement Value	Hazard Info
Silver Leaf Park	Park		\$2,063,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Sky Park	Park		\$1,582,000	Drought, Levee Failure, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Southwoods Park	Park		\$1,374,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Sunrise Florin Park	Park		\$2,540,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Tamarindo Park	Park		\$1,543,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Toby Johnson Park	Park		\$2,143,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Vineyard Park	Park		\$618,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Vineyard Creek Park	Park		Future Park	Drought, Flood, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Vineyard Point Park	Park		Future Park	Drought, Flood, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Vineyard Springs Community Park	Park		Future Park	Drought, Flood, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Vintage Park	Park		\$2,960,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
WildHawk West Park	Park		Future Park	Drought, Flood, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Willowood Park	Park		\$1,099,273	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Florin Creek Trail	Ped/Bike Trail		\$950,400	Drought, Flood, Levee Failure, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat

Name of Asset	Facility Type	Address	Replacement Value	Hazard Info
Tillotson Parkway	Ped/Bike Trail		\$5,552,000	Drought, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat
Laguna Creek Parkway	Ped/Bike Trail		\$938,572	Drought, Flood, Insects/Pests, Severe Storms, Tornadoes, Extreme Heat, Wildfire

Source: Southgate RPD

Natural Resources

The Southgate Recreation & Park District has a variety of natural resources of value to the community:

- Laguna Creek Parkway (125.5 acres)
- Bradshaw Vineyards Open Space Preserve (3.08 Acres)
- Elder Creek Open Space Preserve (15.29 acres)
- Gerber Creek Open Space Preserve (4.93 acres)
- Kingsbridge Open Space Preserve (29.36 acres)
- Dunmore Park Preserve (32.87 acres)
- Gene Andal Park Preserve (Sacramento County)
- Various mitigation banks and conservancies also identified as the Vernal Pool Prairie Preserve not owned by Southgate

Historic and Cultural Resources

There are no nationally recognized landmarks but there are still a few scattered pre-world war II buildings along Florin Rd. The area previously known as Florin was a flourishing Japanese community of Issei and Nisei immigrant farmers. One of those buildings includes Florin East Grammer School which became a segregated school for kids of oriental decent in 1923 and is now owned by the County of Sacramento and operated by Southgate RPD under a lease agreement.

Growth and Development Trends

Growth within the Southgate RPD has increased. Planning areas such as the Vineyard Springs Comprehensive Plan, North Vineyard Station Specific Plan, Florin Vineyard Community Plan, Old Florin Town Special Planning Area, and the West Jackson Highway Master Plan accommodate new growth in the Southgate RPD.

Development since the 2011 Plan

The Southgate RPD has seen an increase in their service area population since the 2011 plan. Specifically, this includes:

- Population has increased from 110,000 in 2011 to over 123,000 residents.
- A Southgate RPD Support Facility is under construction and is expected to be completed early 2017. The project will include an approximate 6,500 sq. ft. building. This project will be included into the

master plan for the development of the entire Churchill Downs North Community Park site. The project also includes a Community Center & Aquatic Center.

- Florin Creek Park was expanded and converted into a multi-use basin to provide good control for areas within the 100-year flood plain of Florin Creek and improve recreational benefits at the park site. A parcel on Orange Avenue was purchased for future park land or open space. Jack Davis Park, Hampton Park, and Fruitridge Park gained additional acreage due to acquisition of new parkland and will be expanded.

Southgate RPD implemented several development projects since 2011 increasing the numbers and capacity of District assets. New development tracked by totals and hazard risk areas are shown in Table O-4. All development in the identified hazard areas, including the 1% annual chance floodplains, areas protected by levees, and high wildfire risk areas, were completed in accordance with all current and applicable development codes and standards and should be adequately protected. Thus, with the exception of more people recreating in District areas potentially exposed to natural hazards, this growth should not cause a significant change in vulnerability of the District to identified priority hazards.

Table O-4 Southgate RPD Total Development Since 2011

Asset Type	Year Built	Outside of Known Hazard Area	1% Annual Chance Flood	Area Protected by Levee	Wildfire Risk Area ¹	Other
Florin Creek Park Multi-Use Basin	2016		X	X		
Vineyard Community Center	2016\17	X				
Vineyard Aquatic Center	2016\17	X				
Vineyard Support Facility	2016\17	X				
Vineyard Point Park	2016\17		X			
WildHawk Estates West	2016\17		X			
Total						

Source: Southgate RPD

¹Moderate or higher wildfire risk area

O.5.3. Vulnerability to Specific Hazards

This section provides the vulnerability assessment, including any quantifiable loss estimates, for those hazards identified above in Table O-2 as high or medium significance hazards. Impacts of past events and vulnerability of the Southgate RPD to specific hazards are further discussed below (see Section 4.1 Hazard Identification in the Base Plan for more detailed information about these hazards and their impacts on the Sacramento County Planning Area). Methodologies for calculating loss estimates are the similar to those described in Section 4.3 of the Base Plan and are based on data provided by the District as described further below. In general, the most vulnerable structures are those located within the floodplain or within levee and dam inundation areas, such as older facilities that may be constructed with unreinforced masonry and buildings built prior to the introduction of modern building codes. Buildings that contain electronic or electrically operated equipment are also vulnerable to flood inundation.

In general, the most vulnerable District assets include the levees and supporting structures that the District owns.

An estimate of the vulnerability of the Southgate RPD to each identified priority hazard, in addition to the estimate of probability of future occurrence, is provided in each of the hazard-specific sections that follow. Vulnerability is measured in general, qualitative terms and is a summary of the potential impact based on past occurrences, spatial extent, and damage and casualty potential. It is categorized into the following classifications:

- **Extremely Low**—The occurrence and potential cost of damage to life and property is very minimal to nonexistent.
- **Low**—Minimal potential impact. The occurrence and potential cost of damage to life and property is minimal.
- **Medium**—Moderate potential impact. This ranking carries a moderate threat level to the general population and/or built environment. Here the potential damage is more isolated and less costly than a more widespread disaster.
- **High**—Widespread potential impact. This ranking carries a high threat to the general population and/or built environment. The potential for damage is widespread. Hazards in this category may have occurred in the past.
- **Extremely High**—Very widespread with catastrophic impact.

Drought and Water Shortage

Likelihood of Future Occurrence—Occasional

Vulnerability—High

Hazard Profile and Problem Description

Drought would impact all of the vegetation of the parks and open space areas within the District and could potentially result in closure of aquatic facilities. Restrictions on water use would severely impact the maintenance of the parks, landscape corridors, aquatic facilities, and the golf course.

Past Occurrences

Recent drought conditions have had a significant impact on operations. There were four years of below average rainfall. In January, 2014 the Governor of California declared a State of Emergency projecting that 2014 would be the driest on record and asked Californians to conserve at least 20%. May, 2015 the State Water Resource Control Board required a 25% reduction in water use. The Southgate RPD reduced water consumption and irrigation to meet the requirements. The parks, golf course and landscape corridors were more dry than usual. The Southgate RPD owns and maintains over 12,000 trees. Because of the severe drought hundreds of trees died and were removed.

Vulnerability to Drought

The vulnerability is high because of the type of facilities the Southgate RPD owns and maintains which require lots of water in order to maintain them green, usable, and viable for recreational use by the community.

Assets/Critical Facilities at Risk

All park sites, parkways and landscape corridor vegetation; open space vegetation and wetlands; WildHawk Golf Club course; Fruitridge and Rutter aquatic centers.

Future Development

Future park development and maintenance practices have been changed in order to minimize water usage.

Flood: 100/200/500-year

Likelihood of Future Occurrence—Occasional

Vulnerability—Medium

Hazard Profile and Problem Description

Flooding risks along Morrison Creek, Elder Creek, Gerber Creek, Florin Creek, and Laguna Creek could potentially impact several District facilities. Potential damages from flooding and flood debris would impact trees and landscaping of the parks, open spaces and the WildHawk golf course. Flood damage to park site structures and buildings could also occur.

Past Occurrences

The District Planning team noted that there have not been any flooding occurrences in that past 5 years.

Vulnerability to Flood

The western urbanized area of the Southgate RPD has historically been vulnerable to flooding from high water events in the Sacramento-San Joaquin Delta as well as high flows on Morrison Creek, Florin Creek, Elder Creek, and Gerber Creek.

Assets/Critical Facilities at Risk

WildHawk Golf Club, Florin Creek Recreation Center and Park, Florin Creek Trail, Laguna Creek Parkway Open Space and Trail, Bradshaw Vineyards Park and Open Space Preserve.

Natural Resources

Natural resources at risk in the District to flood include:

- Laguna Creek Parkway
- Bradshaw Vineyards Open Space Preserve
- Elder Creek Open Space Preserve
- Gerber Creek Open Space Preserve

Historic and Cultural Resources

None.

Future Development

Future developme at risk to flood includes Vineyard Creek Park, Vineyard Point Community Park, Wildhawk West Park and any proposed multi-use trails that go in along the Elder Creek, Gerber Creek, Laguna Creek, and Florin Creek.

Levee Failure

Likelihood of Future Occurrence—Occasional

Vulnerability—High

Hazard Profile and Problem Description

According to the California Department of Water Resources Levee Flood Protection Zone maps, levee failure would significantly impact the western portion of the District. Potential damages from flooding and flood debris would impact trees and landscaping of the parks. Flood damage to park site structures, equipment within the corporation yard and buildings could also occur.

Past Occurrences

The District Planning Team noted that there have not been any levee failures in the past 5 years.

Vulnerability to Levee Failure

Assets/Critical Facilities at Risk

Pacific Park, Bowling Green Park, Sky Park, Fountain Plaza Sprayground, Crofoot Park, Crofoot Clubhouse, Hampton Park, Rizal Community Center, Sheldon Park, Sheldon Headquarters, Florin Creek Park, Florin Creek Recreation Center, Florin Creek Trail, Corporation Yard, Kennedy Park, Rutter Park, and Rutter Swim Center.

Natural Resources at Risk

None.

Historic and Cultural Resources at Risk

None.

Future Development

The District Planning Team noted no future development at risk to levee failure.

Severe Weather: Extreme Temperatures – Heat

Likelihood of Future Occurrence–Highly Likely

Vulnerability–Medium

Hazard Profile and Problem Description

Extreme Heat could potentially impact parks maintenance workers, recreational programs participants, WildHawk Golf Club customers, and vegetation. Poor air quality also resulting from extreme heat would impact any recreational programs held outdoors, WildHawk Golf customers and parks maintenance workers. Rolling blackouts due to extreme heat would also impact district facilities.

Extreme heat impacts air quality on Spare the Air Days. Outdoor programs can be suspended or cancelled. Extreme heat also intensifies the need to water park sites, parkways and landscape corridors, and can also affect the ability to do outdoor work for maintenance staff. Extreme heat also aggravates the drought situation that is already affecting the amount of water available for watering.

Past Occurrences

The District Planning Team noted no extreme heat events in the past 5 years.

Vulnerability to Extreme Heat

Assets/Critical Facilities at Risk

Parks, landscape corridors, and open space vegetation; outdoor recreational programs; WildHawk Golf Club and park maintenance employees.

Future Development

Any future parks, landscape corridors, open space vegetation, and all outdoor activities are at risk.

Severe Weather: Heavy Rain and Storms

Likelihood of Future Occurrence–Highly Likely

Vulnerability–Medium

Hazard Profile and Problem Description

Severe storms could potentially impact park structures, shade shelters and vegetation. In January 2009, a severe storm resulted in extensive damage and loss of trees throughout the District. Severe storms could also impact building structure features such as roofing and windows.

Past Occurrences

The District Planning Team noted that there has not been major damage from severe weather in the past 5 years.

Vulnerability to Heavy Rains

Assets/Critical Facilities at Risk

Parks, landscape corridors, and open space vegetation; park site play structures and shelters; all building structures and WildHawk Golf Club course.

Future Development

All future developments of buildings, parks, parkways, trails, and open spaces can be at risk for heavy rains.

O.6 Capability Assessment

Capabilities are the programs and policies currently in use to reduce hazard impacts or that could be used to implement hazard mitigation activities. This capability assessment is divided into five sections: regulatory mitigation capabilities, administrative and technical mitigation capabilities, fiscal mitigation capabilities, mitigation education, outreach, and partnerships, and other mitigation efforts.

O.6.1. Regulatory Mitigation Capabilities

Table O-5 lists regulatory mitigation capabilities, including planning and land management tools, typically used by local jurisdictions to implement hazard mitigation activities and indicates those that are in place in the Southgate RPD.

Table O-5 Southgate RPD's Regulatory Mitigation Capabilities

Plans	Y/N Year	Does the plan/program address hazards? Does the plan identify projects to include in the mitigation strategy? Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan	N	
Capital Improvements Plan	N	
Economic Development Plan	N	
Local Emergency Operations Plan	N	
Continuity of Operations Plan	N	
Transportation Plan	N	
Stormwater Management Plan/Program	N	
Engineering Studies for Streams	N	
Community Wildfire Protection Plan	N	
Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)		

Building Code, Permitting, and Inspections	Y/N	Are codes adequately enforced?
Building Code	N	Version/Year:
Building Code Effectiveness Grading Schedule (BCEGS) Score	N	Score:
Fire department ISO rating:	N	Rating:
Site plan review requirements	Y	District standards and specifications reviewed and updated on a regular basis
Land Use Planning and Ordinances	Y/N	Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?
Zoning ordinance	N	
Subdivision ordinance	N	
Floodplain ordinance	N	
Natural hazard specific ordinance (stormwater, steep slope, wildfire)	N	
Flood insurance rate maps	N	
Elevation Certificates	N	
Acquisition of land for open space and public recreation uses	N	
Erosion or sediment control program	N	
Other	Y	District Policy Manual
How can these capabilities be expanded and improved to reduce risk?		

Source: Southgate RPD

O.6.2. Administrative/Technical Mitigation Capabilities

Table O-6 identifies the department(s) responsible for activities related to mitigation and loss prevention for Southgate RPD.

Table O-6 Southgate RPD's Administrative and Technical Mitigation Capabilities

Administration	Y/N	Describe capability Is coordination effective?
Planning Commission	N	
Mitigation Planning Committee	N	
Maintenance programs to reduce risk (e.g., tree trimming, clearing drainage systems)	Y	The District has maintenance crews.
Mutual aid agreements	N	
Other		

Staff	Y/N FT/PT	Is staffing adequate to enforce regulations? Is staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official	N	
Floodplain Administrator	N	
Emergency Manager	N	
Community Planner	N	
Civil Engineer	N	
GIS Coordinator	Y	
Other	Y	Parks Manager
Technical		
Warning systems/services (Reverse 911, outdoor warning signals)	N	
Hazard data and information	N	
Grant writing	Y	
Hazus analysis	N	
Other		
How can these capabilities be expanded and improved to reduce risk?		

Source: Southgate RPD

O.6.3. Fiscal Mitigation Capabilities

Table O-7 identifies financial tools or resources that the Southgate RPD could potentially use to help fund mitigation activities.

Table O-7 Southgate RPD's Fiscal Mitigation Capabilities

Funding Resource	Access/ Eligibility (Y/N)	Has the funding resource been used in past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital improvements project funding	Y	
Authority to levy taxes for specific purposes	N	
Fees for water, sewer, gas, or electric services	N	
Impact fees for new development	Y	
Storm water utility fee	N	
Incur debt through general obligation bonds and/or special tax bonds	Y	
Incur debt through private activities	Y	
Community Development Block Grant	Y	
Other federal funding programs		

Funding Resource	Access/ Eligibility (Y/N)	Has the funding resource been used in past and for what type of activities? Could the resource be used to fund future mitigation actions?
State funding programs		
Other		Assessment Districts
How can these capabilities be expanded and improved to reduce risk?		

Source: Southgate RPD

O.6.4. Mitigation Education, Outreach, and Partnerships

Table O-8 identifies education and outreach programs and methods already in place that could be/or are used to implement mitigation activities and communicate hazard-related information.

Table O-8 Southgate RPD’s Mitigation Education, Outreach, and Partnerships

Program/Organization	Yes/No	Describe program/organization and how relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc.	N	
Ongoing public education or information program (e.g., responsible water use, fire safety, household preparedness, environmental education)	N	
Natural disaster or safety related school programs	N	
StormReady certification	N	
Firewise Communities certification	N	
Public-private partnership initiatives addressing disaster-related issues	N	
Other		
How can these capabilities be expanded and improved to reduce risk?		

O.6.5. Other Mitigation Efforts

The District works with both the County Department of Water Resources (DWR) and SAFCA related to creek and stream drainage issues as well as stormwater detention. The District currently has several joint-use detention basins planned with DWR that are either on District park sites or adjacent to them. These basins provide the County with adequate basins for storm water detention but at the same time during non-storm periods that land can be used for passive and active recreational purposes.

O.7 Mitigation Strategy

O.7.1. Mitigation Goals and Objectives

Southgate RPD adopts the hazard mitigation goals and objectives developed by the HMPC and described in Chapter 5 Mitigation Strategy.

O.7.2. Mitigation Actions

The planning team for Southgate RPD identified and prioritized the following mitigation actions based on the risk assessment. Background information and information on how each action will be implemented and administered, such as ideas for implementation, responsible office, potential funding, estimated cost, and timeline are also included.

Action 1. Drought Mitigation Actions/Drought Contingency Plan

Hazards Addressed: Drought and Water Shortage

Goals Addressed: 1, 2, 3, 4

Issue/Background: In 2015 California entered its fourth year of a record-breaking drought creating an extremely parched landscape. Governor Jerry Brown declared a drought State of Emergency in January 2015 and imposed strict conservation measures statewide. Gov. Jerry Brown demanded a 25 percent cut in urban water usage due to a severe drought affecting much of California and the West.

Project Description: Southgate RPD identifying water-saving measures and taking steps to use water more efficiently. Hope this helps, let me know if you need additional information.

Other Alternatives: Institute minimum reductions

Existing Planning Mechanism(s) through which Action Will Be Implemented: The Southgate RPD will continue with the implemented state mandated water conservation regulations. The Southgate RPD stopped watering by ET (evapo-transportation, i.e irrigating based on weather data). Also, with new parks and landscape development the District is "specing" drought tolerant vegetation, less turf areas, less water using sprinkler systems (i.e. netafim, subterranean drip system, internet based controllers, and MP rotators.) All of which promote water conservation.

Responsible Office/Partners: Southgate RPD – Park Maintenance Dept.

Project Priority: High

Cost Estimate: TBD

Benefits (Losses Avoided): Potential Fines

Potential Funding: Unknown

Timeline: Ongoing

Action 2. Flood Mitigation Actions/Land Acquisition

Hazards Addressed: Flood: 100/200/500-year

Goals Addressed: 1, 2, 3, 4

Issue/Background: Areas to the West of Southgate RPD have historically been vulnerable to flooding from high water flows on Morrison Creek, Florin Creek, and Elder Creek.

Project Description: Park lands within the North Vineyard Station Specific Plan area have been designated in locations adjacent to Elder Creek, Gerber Creek and Laguna Creek. The park sites will have storm water detentions basins with water quality treatment functions, and trail facilities. In addition there is also a proposed park with an integrated multi-use storm water detention basin with soccer fields adjacent to Laguna Creek within the Vineyard Springs Comprehensive Plan area. In 2016 Florin Creek Park was expanded and converted to a multi-use basin for recreational use. The basin will provide flood control for areas within the 100-year flood plain of Florin Creek and improve recreational benefits at the park site. Southgate RPD continues to pursue the acquisition of open space land when it makes geographic and economic sense and proves beneficial to Southgate RPD's long term acquisition goals.

Other Alternatives: Do nothing

Existing Planning Mechanism(s) through which Action Will Be Implemented: As new development comes along Southgate RPD will continue to pursue the acquisition of open space, and parkland, and seek joint-use opportunities with partner agencies.

Responsible Office/Partners: SAFCA, Southgate RPD, City of Sacramento, County of Sacramento, FEMA, Corps of Engineers, State Department of Water Resources

Project Priority: Medium

Cost Estimate: Unknown

Benefits (Losses Avoided): Potential flooding in urbanized areas.

Potential Funding: TBD

Timeline: Continuous

Action 3. Conservation Easements

Hazards Addressed: Protect open space and preserve critical habitat.

Goals Addressed: 1, 2, 3, 4

Issue/Background: Development has encroached into agricultural lands, and wetlands are being lost. Southgate RPD is making an effort to acquire those lands that are considered to contain rare wildlife habitat in order to limit certain types of uses or prevent development from taking place by protecting the land for future generations.

Project Description: Southgate RPD is in the process of acquiring property within the North Vineyard Station Specific Plan – Elder Creek and Gerber Creek open space preserve area associated with current subdivision developments and as required by the U.S. Army Corps of Engineers. A conservation easement will be granted over each portion of the Preserve. The conservation easement will run with the land and protect the Preserve as wetland and wildlife habitat in perpetuity, subject to the long term management responsibilities of Southgate RPD and drainage maintenance responsibilities of Water Resources for the purpose of flood control maintenance. Wildlife Heritage Foundation will hold the Conservation Easement over the Preserve areas. Southgate RPD will manage and maintain the preserve as outlined in the Open Space Preserve Operations and Management Plan for the North Vineyard Station Specific Plan – Elder and Gerber Creek.

Other Alternatives: Reduce General Plan open space requirements and increase developable land.

Existing Planning Mechanism(s) through which Action Will Be Implemented: As new development comes along Southgate RPD will continue to pursue the acquisition of open space, and parkland, and seek joint-use opportunities with partner agencies.

Responsible Office/Partners: Southgate RPD, Corps of Engineers, Sacramento County

Project Priority: Low

Cost Estimate: Unknown

Benefits (Losses Avoided): Provide permanent guarantee that the land will not be developed.

Potential Funding: TBD

Timeline: Ongoing

Action 4. Multi-jurisdictional Cooperation within Watersheds

Hazards Addressed: Flood: Localized Stormwater Flooding, Flood: 100/200/500-year, Severe Weather: Heavy Rains and Storms

Goals Addressed: 1, 2, 3, 4

Issue/Background: The Sacramento Area Flood Control Agency is proposing to construct flood control improvements at Florin Creek Park that will provide a minimum 100-year level of flood protection to residents in the Parkway Estates area. Once completed, these improvements, combined with improvements the U.S. Army Corps of Engineers is constructing along Florin Creek, will provide a higher level of flood protection and financial relief to over 450 property owners paying high-cost flood insurance.

Project Description: Southgate RPD has participated with SAFCA “Sacramento Area Flood Control Agency” to construct a multi-use basin at Florin Creek Park to provide flood control for areas within the 100-year flood plain of Florin Creek. The improvements included the reconstruction of a paved trail along the Florin Creek channel that connects Sheldon Park and Florin Creek Park. The U.S. Army Corps of Engineers proposed the construction of improvements to the creek in conjunction with SAFCA, the State Department of Water Resources, City of Sacramento and County of Sacramento.

Other Alternatives: Do nothing

Existing Planning Mechanism(s) through which Action Will Be Implemented: As new development comes along Southgate RPD will continue to pursue the acquisition of open space, and parkland, and seek joint-use opportunities with partner agencies.

Responsible Office/Partners: SAFCA, FEMA, City of Sacramento, County of Sacramento, Southgate RPD

Project Priority: Medium

Cost Estimate: Unknown

Benefits (Losses Avoided): Better flood control and improved recreational benefits at Florin Creek park.

Potential Funding: TBD

Timeline: January 2017

Action 5. Storm Water Management Practices – Implement Storm Water Management Practices as identified in Stormwater Quality Design Manual

Hazards Addressed: Flood: Localized Stormwater Flooding, Flood: 100/200/500-year, Severe Weather: Heavy Rains and Storms

Goals Addressed: 1, 2, 3, 4

Issue/Background: Heavy rains and severe storms occur during the fall, winter and spring. The heavy storms can cause flooding as well as extensive localized drainage issues. There is a lot of growth in some areas of Southgate RPD and if not planned accordingly there may be a lack of adequate drainage systems.

Project Description: Southgate RPD works collaboratively with the Sacramento County Department of Water Resources (DWR) to plan and design joint-use facilities that will provide both storm water management and recreation use to Southgate RPD residents. These types of projects keep creek drainage corridors in their natural state and provide storm water detention basins with compatible recreational uses such as trails and sports fields. These types of projects help improve the storm water quality and drainage capacity in our neighborhoods while at the same time providing additional recreation opportunities in the community. An example of these joint-use facilities includes the Laguna Creek Parkway open space which has preserved a 130 acre portion of the 100 year flood plain of Laguna Creek while providing a multi-use

trail and open space corridor for residents to enjoy. A similar joint-use open space corridor is planned for the Elder and Gerber Creek drainage corridors that traverse Southgate RPD. The Southgate RPD is also in the process of designing two storm water detention projects with the County DWR that will accommodate soccer fields within the basin areas.

Other Alternatives: Do nothing

Existing Planning Mechanism(s) through which Action Will Be Implemented: As new development comes along Southgate RPD will continue to pursue the acquisition of open space, and parkland, and seek joint-use opportunities with partner agencies.

Responsible Office/Partners: Sacramento County Department of Water Resources (DWR), Southgate RPD

Project Priority: Medium

Cost Estimate: Unknown

Benefits (Losses Avoided): Flooding in mitigated in new areas and adds protection to existing areas.

Potential Funding: Unknown

Timeline: Ongoing

Action 6. Severe Weather: Heavy Rains and Storms Mitigation Actions/Tree Management

Hazards Addressed: Severe Weather: Heavy Rains and Storms

Issue/Background: Heavy rains and storms have caused trees to fall over especially when the ground becomes very saturated and the tree is weak or diseased. In past years many trees have died from the drought and will need to be removed before a big rain storm comes through and causes them to fall over or create a major hazard.

Goals Addressed: 1, 2, 3, 4

Project Description: In 2012 the Southgate RPD received a grant from the Urban Forestry Program Entitled, “An Urban Forest for Every City”. This Program Grant funded the development and implementation of a management plan for our urban forest which determined reasonable maintenance goals and set a standard maintenance cycle to help the District proactively manage our forest in a way that reflects the values of our community within a set budget. The grant was used to conduct a tree inventory as the first step in better understanding the needs and distribution of its trees and the value of its forest asset. A consulting arborist and certified tree risk assessor provided an inventory of all the trees in the parks, parkways, open space and landscape corridors in the Southgate RPD. The inventory noted the location, species, size, health, and potential for infrastructure conflicts and hazards for each tree on Southgate RPD owned property as well as noting empty planting locations. High risk trees were identified and most have

been removed. Southgate RPD is still in the process of developing an Urban Forest Management Plan that aims to identify actions that will support a healthy and regenerative urban forest.

Other Alternatives: Do nothing

Existing Planning Mechanism(s) through which Action Will Be Implemented:

- Southgate RPD – Maintenance Dept.
- GIS inventory
- Planting trees with Sac Tree Foundation
- Implementing the Urban Forest Management Plan

Responsible Office/Partners: Southgate RPD

Project Priority: Medium

Cost Estimate: Unknown

Benefits (Losses Avoided): Those trees identified in poor condition can be removed in a timely manner to avoid a hazardous and dangerous situation at a later time.

Potential Funding: Unknown

Timeline: Ongoing