

Appendices



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appendix A Master Plan Projects Action Grid

MASTER PLAN PROJECTS ACTION GRID					Plan Elements						Project Concepts							
Reach 1					Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't.	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)														
R1.01	ANGELES NATIONAL FOREST	FISHERMAN'S TRAIL ABOVE COGSWELL DAM	The Fly Fishers Club of Orange County (FFCOC) has proposed establishing a recreational easement (Trail) across or around the LADPW facility at Cogswell Dam allowing access to the upper West Fork of the San Gabriel River. Pedestrian access to the River was blocked by completion of Cogswell Dam in 1934. Project implementation will require close coordination with LADPW and the U.S. Forest Service. Access to the West Fork of the San Gabriel River above Cogswell Dam now requires a very long hike through the mountains from the area near Mt. Wilson. A trail around Cogswell Reservoir would involve access through LADPW and USFS controlled property. An alternative route would require a new trail around either the north or south side of the reservoir. The Project's scope could be expanded to include access across or around Cogswell Dam, which was recently closed by LADPW due to increased security considerations. This recent closure cut off access to the existing Devil's Canyon trail, the San Gabriel Wilderness area and the stream in Devil's Canyon. The Fisherman's Trail project might be able to provide access to both the West Fork and to the existing Forest Service trail into Devil's Canyon.	Fly Fishers Club of Orange Co. (FFCOC); US Forest Service (USFS)		●	○					○	○	○				
R1.02	ANGELES NATIONAL FOREST	SEDIMENT MANAGEMENT PLAN (COGSWELL RESERVOIR)	Under the Sediment Management Plan, Cogswell Dam will be cleaned out about every 10 years, by means of mechanical excavation. NEPA and CEQA reviews for the Sediment Management Plan were concluded in 1997 and 1998, respectively.	County of Los Angeles Dept. of Public Works (LADPW)	○	○		●	●								●	
R1.03	SAN GABRIEL RIVER - WEST FORK / ANF	LONG TERM MANAGEMENT PLAN: WEST FORK SAN GABRIEL RIVER	This plan, developed in 1989 by the West Fork Working Group (WFWG), addresses management of the West Fork, including Cogswell Reservoir. The WFWG includes the USDA Forest Service, County of Los Angeles Department of Public Works (LADPW), California Department of Fish and Game, California Trout, Incorporated, Main San Gabriel Basin Watermaster, San Gabriel Valley Protective Association, and the San Gabriel Water Committee. Six objectives of the Plan include flood control, dam safety, water rights, fisheries optimization, recreation and land use management.	West Fork Working Group	○	●	○					○					●	
R1.04	ANGELES NF	FOREST MASTER PLAN UPDATE	The four southern National Forests including Angeles, San Bernardino, Los Padres and Cleveland, are updating their Master Plans. The Forest Plans address issues of resource management, recreational access issues, habitat and other concerns of forest stakeholders.	USFS	●	●	●	●	●	●	○	○	○	○		○	●	
R1.05	ANGELES NF	OFF-HIGHWAY VEHICLE AREA IMPROVEMENTS	Near the eastern edge of the Headwaters Reach, just above its confluence with the East Fork, is a large, flat river bottom area that is a favorite spot with off-highway vehicle users. The Azusa Canyon Off-Roaders Association (ACORA) is proposing improvements to existing stream crossings and habitat restoration for the Santa Ana sucker to minimize impacts from off-road vehicle use, while providing selected amenities for the benefit of off-highway enthusiasts and other river visitors.	Azusa Canyon Off-Roaders Assoc. (ACORA), California Off-Road Vehicle Association (CORVA), USFS	○	●	○	○	○		○	●	○					
R1.06	SAN GABRIEL RIVER WATERSHED	SAN GABRIEL RIVER WATERSHED MANAGEMENT PLAN ABOVE WHITTIER NARROWS	This planning study by the San Gabriel Mountains Regional Conservancy (SGMRC) is funded by Proposition 13. The project will develop land use-based recommendations that address water quality and supply, habitat, recreation and open space, and land and water stewardship opportunities. The "Think River! Youth Watershed Conference" is an outgrowth of this project. Within the Angeles National Forest, the focus will be on the heavily used areas of Highway 39 and the North and East Forks of the San Gabriel River. In the lower urbanized sub-watersheds of San Jose and Walnut Creeks, the focus will be on water quality, education, stewardship, habitat linkages and open space.	San Gabriel Mountains Regional Conservancy (SGMRC)	●	●	●	●	●	○	○	○	○	○	○	○	○	●
R1.07	ANGELES NF	SAN GABRIEL WATERSHED HABITAT RESTORATION ASSESSMENT PROJECT	This study will augment the San Gabriel River Watershed Management Plan (R1.06) by mapping and assessing current habitat conditions in the San Gabriel River Watershed. It will also evaluate the opportunities and constraints for habitat restoration along urban corridors, undeveloped areas, and protected open spaces in a manner that will also protect other resources such as water quality. Attention will be given to potential wildlife corridor improvement opportunities and protection of regional species biodiversity.	SGMRC	●	●	●	●	●	●	○	○	○	○		○	●	

○ = Potential Opportunity ● = Definite Opportunity

MASTER PLAN PROJECTS ACTION GRID							Plan Elements						Project Concepts							
Reach 2							Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't.	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)																
R2.01	ANGELES NF	BLACK-FLY VECTOR RESEARCH	On behalf of the FFCOC, a funded research study conducted by consultants of the San Gabriel Mountains Regional Conservancy is evaluating the river's black fly populations, a source of fish food. Fluctuations in black fly populations have implications for stream ecology, interdependent organisms, bio-indicators, as well as human health and vector control methods.	SGMRC			●	●	○		●		○	○	○					●
R2.02	ANGELES NF	SAN GABRIEL RESERVOIR RECREATIONAL STUDY	This 1992 LADPW study investigated expanding non-water oriented recreational activities at or near the reservoir. Its recommendations need to be updated in light of today's increased security considerations.	LADPW			○	●	○	○	○			○	○	○				●
R2.03	ANGELES NF	HIGHWAY 39/SAN GABRIEL RIVER RECREATION NEEDS ASSESSMENT	The SGMRC is developing a proposal to address issues relating to high usage along the Highway 39 area of the river, for a Proposition 13 Nonpoint Source Pollution grant. A significant amount of trash has accumulated in the river and along Highway 39. Toilet facilities are insufficient for the thousands of visitors, and more parking, trash and ash receptacles, and information/interpretive kiosks are needed. A needs assessment study will explore current recreational usage and needs, as well as potential impacts on habitat and water quality.	USFS, Caltrans, SGMRC			●	●	●	○	●	●	○	○	○	○	○			●
R2.04	ANGELES NF	SEDIMENT MANAGEMENT PLAN (SAN GABRIEL CANYON)	A current LADPW study explores options for removing sediment that has accumulated behind both the San Gabriel Dam and the Morris Dam. In the wake of the 2002 Curve and Williams Fires, LADPW is planning to undertake a 5-million cubic yard emergency clean out of San Gabriel Reservoir, which is anticipated to start in 2004 and last for several years.	LADPW			○	○		●	●		○	○	○				○	●
R2.05	ANGELES NF	FISHING AT MORRIS AND SAN GABRIEL RESERVOIRS STUDY	This FFCOC study will investigate the feasibility of providing limited access to Morris and San Gabriel Reservoirs for non-body contact fishing and related recreational activities, including allowing float tubes and non-motorized boats onto the reservoirs. The feasibility study will use the existing Department of Health Services Guidelines for non-body contact public access onto reservoirs, and access limitations successfully employed at other locations where recreational fishing is permitted at public reservoirs. It will address all concerns related to necessary operations at LADPW facilities. The study recognizes that access may be seasonally limited, with further restrictions required to accommodate maintenance of the reservoirs and associated facilities. As with all projects in the Master Plan, it will be important to ensure that the multi-objective framework of habitat, recreation, open space, flood protection, water quality, and regulatory compliance is maintained. Both LADPW and the Upper San Gabriel Valley Water District will jointly fund the feasibility study.	FFCOC			○	●	○	○	○			○						●
R2.06	ANGELES NF	MORRIS DAM PENINSULA PARK	The largest available open space along the national forest section of the river, this 40-acre peninsula juts into the Morris reservoir at the former site of a Navy torpedo testing facility adjacent to Highway 39. It can be reclaimed and developed for recreational day-use, overnight camping, trails and an interpretive center for the national forest, including a historic military interpretive site. The development of this park would provide additional needed park facilities with parking and other site amenities to relieve the serious weekend congestion of Angeles National Forest visitors.	USFS, LADPW			○	●	○				○	○		○		○	●	
R2.07	ANGELES NF, AZUSA	MINIMUM STREAM FLOWS BELOW MORRIS DAM PROJECT	Upon further consideration among all interested groups, this proposal is withdrawn for the time being.																	
R2.08	ANGELES NF	OLD SAN GABRIEL CANYON ROAD	This two-mile County service road extends south from Morris Dam at a pump station down to Azusa by the El Encanto Restaurant. A City of Azusa project, this road can provide river access for hikers and bikers and could also be linked to the nearby San Gabriel River Bike Trail via the Canyon Inn and El Encanto properties. A safe crossing of Highway 39 is needed.	Azusa				●	○					○		●	○			

● = Definite Opportunity ○ = Potential Opportunity

MASTER PLAN PROJECTS ACTION GRID						Plan Elements						Project Concepts							
Reach 3						Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't.	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)															
R3.01	AZUSA	AZUSA CANYON RIVER PARK	This City of Azusa project aims to acquire land to develop a river-focused park at the southern end of San Gabriel Canyon. It includes a visitor's center surrounded by a native plant garden, interpretive signage, restored habitat areas, and paths leading down to the river. Landscaping, picnic tables and a small play area will encourage national forest users to visit. Camping in a natural park area will be available. The City of Azusa has already acquired part of the park. This park is adjacent to the Rainbow Canyon Equestrian Center.	Azusa		●	●	●	○	○		○	●		○	○	○		
R3.02	AZUSA	SAN GABRIEL RIVER BIKE TRAIL EXTENSION	This project will extend the 38-mile regional bike trail from its current terminus near the southern edge of San Gabriel Canyon by the proposed Interpretive Center, to the proposed Azusa Canyon River Park and eventually all the way to Angeles National Forest. A one-mile extension is being built to the Mountain Cove development, near the mouth of the San Gabriel Canyon.	Azusa			●	○							●	○			
R3.03	AZUSA	ROBERT'S CREEK TRAIL ACCESS	Public access to Robert's Creek will be provided through Mountain Cove private residential development, from Azusa Canyon River Park and/or the San Gabriel River Bike Trail Extension.	Azusa		○	●	○							●	○			
R3.04	AZUSA	ROBERT'S CREEK RESTORATION	This will be a habitat restoration and park expansion in the canyon area behind Mountain Cove.	Azusa, USFS		●	○	○		●		○	○		●				
R3.05	AZUSA	WESTSIDE TRAIL	A new, multi-purpose trail at the far edge of the flood plain, running parallel to the San Gabriel River on its west side and opposite to the San Gabriel River Bike Trail will be developed. This one-mile trail will run along the San Gabriel Valley Gun Club and provide a connection between the Robert's Creek and Fish Creek Trails.	Azusa		○	●	●				○			●	○			
R3.06	AZUSA	FOREST GATEWAY INTERPRETIVE CENTER	This project will create a new USDA Forest Service Ranger Station and Interpretive Center at the entrance to Azusa Canyon. Diverse educational opportunities will provide information about the canyon, the national forest and native habitat. "Green" building practices and watershed sensitive design principles will be incorporated into the site. North East Trees has already developed the building and site designs for this open space area. The project is currently funded and will be built in 2004.	Azusa, USFS		●	●	●		○	●	○	○	○	○	○	●		
R3.07	AZUSA	GLENDORA RIDGE ROAD TRAIL ACCESS	Public access for pedestrians and bicycles to the existing fire road through the mountains on the south side of the canyon will be provided, either by an access easement through private property, or by creating a new access point. This road leads to Mount Baldy.	Azusa, SGMRC			●	○					○		●	○			
R3.08	AZUSA	SAN GABRIEL CANYON SPREADING GROUNDS	This project will study possibilities for providing landscaping, native habitat restoration, decorative fencing, interpretive signage, trails and other park amenities for public enjoyment and education at two deep spreading basins adjacent to the San Gabriel River. The 165-acre site project will be compatible with the groundwater recharge function of the two basins. Due to the deepness of the two basins, and the fact that it is a major water supply for Azusa, health and safety issues will be key project determinants.	Azusa, LADPW		●	●	●	○	○		○	●	○	○	○	○	○	
R3.09	AZUSA	FUTURE PEDESTRIAN BRIDGE	The City of Azusa has indicated to Vulcan Materials Company (Vulcan) that it would like to investigate the use of the existing conveyor belt that traverses across the San Gabriel River as a potential bicycle and pedestrian bridge (about 30 years from now after mining operations cease). Although Vulcan does not have any objections to using this bridge when mining is completed, it has not yet engaged in negotiations with the City to discuss potential liability and cost for converting the conveyor crossing to a bicycle and/or pedestrian bridge.	Azusa			●	○							○	●			
R3.10	AZUSA	WEST RIVERBANK TREE PLANTING PROJECT AT THE SAN GABRIEL VALLEY GUN CLUB	The San Gabriel Valley Gun Club has proposed planting 200+ trees on the west levee of the San Gabriel River, beside its facilities on land it leases from Vulcan. The Gun Club serves over 100,000 people each year, including recreationists and training organizations such as law enforcement. The trees will provide much needed shade along the river and dampen the sounds that currently echo up the canyon from Gun Club activities. The City of Azusa, representatives of Vulcan and representatives from the San Gabriel Valley Gun Club are in negotiations to mitigate noise emanating from the Club into residential areas. Vulcan has not included these trees as potential mitigation to noise impacts.	San Gabriel Valley Gun Club			●	○				○	●					○	

● = Definite Opportunity ○ = Potential Opportunity

MASTER PLAN PROJECTS ACTION GRID							Reach 3 (continued)												
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)	Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't.	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies	
R3.11	AZUSA	AZUSA ROCK QUARRY RESTORATION	Vulcan is currently pursuing a revised reclamation plan for the Azusa Rock Quarry to rehabilitate and restore the area when mining is complete. The existing reclamation plan is subject to negotiations between Vulcan and the City of Azusa. A revised reclamation plan would change the quality of reclamation that currently exists at this quarry site.	Azusa, Vulcan Materials Co. (Vulcan)	●	●	●	●	●	●	○	○	○	○				●	
R3.12	AZUSA	FISH CREEK RESTORATION & PUBLIC ACCESS	Vulcan is currently working with the City of Duarte on (and discussing with the City of Azusa), limited public access through the Azusa Rock Quarry along Fish Creek. For safety and liability reasons, Vulcan will limit access to daylight hours and non-operational hours of the quarry, probably on weekends and holidays. These discussions are ongoing; an agreement has not been reached as of this writing. After mining is complete at the Azusa Rock Quarry site, and with Vulcan's permission, it may be possible to daylight and restore the stream and provide fuller public access through the quarry site.	Azusa, USFS	●	●	○				●	○		○	○			○	
R3.13	AZUSA	TODD AVENUE BIKE TRAIL CONNECTION	This project will connect an existing City of Azusa bike path at the south end of the spreading grounds with the San Gabriel River Bike Trail. The project will provide the local community with a much needed access point to the River Trail.	Azusa		●	○							●					
R3.14	AZUSA	AZUSA BIKE TRAIL NETWORK	This will develop a system of street-side bicycle paths to help bicyclists enter Azusa Canyon from Sierra Madre Avenue or Azusa Canyon Road and connect to the San Gabriel River Bike Trail.	Azusa		●	○			●				●	○				
R3.15	DUARTE, AZUSA	PACIFIC ELECTRIC RAILS-TO-TRAILS PROJECT	A proposed multi-city project will create an east-west bike trail on an abandoned rail line running parallel to Foothill Boulevard between Monrovia in the west and Claremont in the east. The proposed bike trail design will need to take into account a potential light rail line which is being considered for this route. This trail may integrate with the Duarte Bike Trail, crossing the San Gabriel River at the Puente-Largo Bridge.	To be determined		●	○							●	○				
R3.16	AZUSA	AZUSA-LARGO QUARRY	This quarry operation, located north of Foothill Boulevard, houses the current aggregate production facility of Vulcan, as well as shop facilities and asphalt plant production facilities. The plant at the Azusa-Largo Quarry produces material from the area in which it exists, as well as material that is transported via a conveyor system from Azusa Rock Quarry. The operation will supply aggregate, construction grade materials as well as asphalt materials for over 40 years. The eventual land use post-mining will be determined later in negotiations between the City of Irwindale and Vulcan.	Azusa, Vulcan Materials Co.	●	●	●	●	●	●	○	○	○	○				●	
R3.17	AZUSA	RELIANCE #2 QUARRY	This is an existing landfill operated by Vulcan at a site located south of Foothill Boulevard bordered by the Foothill Freeway (I-210), and bordered on the east by Irwindale Avenue. This operation is currently being used for silt deposition from the existing Reliance Plant and operates as a landfill facility that can ultimately be filled and used for some commercial activity. It is subject to negotiation between the City of Irwindale and Vulcan to determine potential land use and other issues. The time to complete the landfill is not known at this time.	Azusa, Vulcan Materials Co.	●	●	●	●	●	●	○	○	○	○				●	
R3.18	DUARTE	WRIGHT-ROMVARY PROPERTIES	The City of Duarte plans to acquire a total of 365 acres of land for open space protection, trails and habitat restoration. The property is adjacent to Van Tassel Creek, a tributary of the San Gabriel River. This project is dependent on funding availability.	Duarte	●	○	●				○	●		○					
R3.19	DUARTE	DUARTE BIKE TRAIL EXTENSION	This project will extend and improve an existing 1.5-mile multi-use trail for an additional mile from Royal Oaks Park in the City of Duarte across the historic Puente Largo Rail Bridge to San Gabriel River Bike Trail in Azusa. Improvements will create a safer connection and will include signage, paint lines, lighting, and pavement resurfacing.	Duarte		●	○			●				●	○				
R3.20	DUARTE, AZUSA	ROUTE 66/FOOTHILL BOULEVARD GATEWAY	This future City of Duarte gateway project, in partnership with the City of Azusa, is located on the historic Route 66 Highway.	Duarte, Azusa		●	○			●					●				
R3.21	IRWINDALE, LA COUNTY	SANTA FE DAM RECREATION AREA & HABITAT ENHANCEMENTS	The County of Los Angeles Department of Parks and Recreation (LADPR) plans improvements to habitat areas and trails, including the protection and restoration of remnant alluvial fan sage scrub plant communities by replanting native plants and removing exotics. Other improvements include improving access to the Park's bicycle path by establishing safe crossings and directional signage.	LADPR	●	●	●	●	●		○	●		○					

● = Definite Opportunity ○ = Potential Opportunity

MASTER PLAN PROJECTS ACTION GRID						Reach 3 (continued)													
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)	Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't.	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies	
R3.22	IRWINDALE	SANTA FE DAM NATURE CENTER	A recently re-opened nature center operated by the SGMRC in partnership with the County of Los Angeles, provides interpretive trails, habitat restoration, a native plant demonstration garden, outdoor amenities improvements and possible camping, as well as community education and outreach programs. Project sponsors are seeking outreach partners for docent and interpretive programs.	LADPR, SGMRC	●	●	○	○	○	●	○	○							●
R3.23	IRWINDALE	UNITED ROCK PRODUCTS QUARRY #4	This is currently the processing plant for United Rock Products. Material mined in Quarry #2 and Quarry #3 are processed on the site. Additionally, this site has two asphalt plants, two ready mix concrete plants, and equipment shops. United Rock Products and the City of Irwindale are negotiating the mining and reclamation options for this site.	Irwindale, United Rock Products	●	●	●	●	●	●	○	○	○	○					●
R3.24	IRWINDALE	BUENA VISTA WETLANDS	This project will create bio-engineered wetlands for habitat restoration in a LADPW spreading basin west of Santa Fe Dam. A conveyor line, operated by United Rock Products, runs across the westerly part of this property. The line has been in operation since 1983 and is scheduled to be in use until circa 2035. The design and implementation of the wetlands will need to ensure the continued safe operation of this conveyor.	LADPW	●	○	●	○	●		○	○	●	○			○	○	
R3.25	IRWINDALE	UNITED ROCK PRODUCTS QUARRY #3	This is an active quarry that will be in operation until 2035. United Rock Products and the City of Irwindale are in negotiations for the reclamation of this site, which is scheduled to be completed in 2061.	Irwindale, United Rock Products	●	●	●	●	●	●	○	○	○	○					●
R3.26	IRWINDALE	HABITAT PASSAGE AROUND SANTA FE DAM	This project will provide a habitat linkage at this "pinchpoint" to complete the Puente Hills to San Gabriel Mountains habitat corridor. The U.S. Army Corps of Engineers (ACE) owns key parcels in this area. ACE is willing to partner with other agencies and private groups to identify opportunities for creating this linkage.	To be determined	●	●	●	○		○	●	○						○	
R3.27	IRWINDALE	KARE YOUTH LEAGUE SPORTS PARK	This under-used open space area is at the base of the Santa Fe Dam, north of Arrow Highway. It is owned by COE. Kare Youth League is a potential lessee, that would build a soccer field with some amenities on existing disturbed paved areas. There is an existing habitat on the property that could be restored as part of the habitat corridor. There will be a trail linkage to the San Gabriel River Bike Trail.	COE, Kare Youth League	●	●	●	○			○	●		○				○	
R3.28	IRWINDALE	SAN GABRIEL RIVER BEAUTIFICATION & ENVIRONMENTAL ENHANCEMENT	An environmental beautification opportunity for the City of Irwindale in partnership with the Hollywood Beautification Team, this 1.4-mile enhancement of the existing bike trail would including a bike staging area and other improvements designed to provide a better interface between the Santa Fe Dam and the San Gabriel River Bike Trail south of Arrow Highway. The project includes landscaping, drought-tolerant trees, irrigation, signage and other amenities.	HBT, Irwindale, Watershed Conservation Authority (WCA)	○	●	○			○				●	○				
R3.29	IRWINDALE	ARROW HIGHWAY TRAIL CONNECTION	Bike trail users need a safer passage across Arrow Highway. An assessment on best connection needs to be made. Alternatives include building a new bridge over Arrow Highway, or going underneath through an existing tunnel, which also needs drainage repairs.	ACE, LADPW, Irwindale	○	●	●	○			○	○		●	○				
R3.30	IRWINDALE	TRAFFIC FLOW IMPROVEMENTS AROUND SANTA FE DAM RECREATION AREA	The LADPW proposed this study of vehicular traffic circulation patterns to identify improvements that will enhance public safety and improve pedestrian and bicycle access near the Santa Fe Dam.	LADPW, Irwindale		●	○			○									●

● = Definite Opportunity ○ = Potential Opportunity

MASTER PLAN PROJECTS ACTION GRID						Plan Elements						Project Concepts							
Reach 4						Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't.	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)															
R4.01	IRWINDALE	UNITED ROCK PRODUCTS QUARRY #1	United Rock Products Quarry #1 is currently being reclaimed, according to agreements with the City of Irwindale. The property will be returned to a condition suitable for development. The anticipated completion is 2020.	Irwindale, United Rock Products		●	●	●	●	●	●	○	○	○	○			●	
R4.02	IRWINDALE	UNITED ROCK PRODUCTS QUARRY #2	United Rock Products Quarry #2 is currently being mined. United Rock and the City of Irwindale are negotiating the details of the mining and reclamation options. Mining operations are expected to cease by 2061.	Irwindale, United Rock Products		●	●	●	●	●	●	○	○	○	○			●	
R4.03	IRWINDALE	BUBALO QUARRY	A reclamation plan for this quarry is in progress.	Hanson Aggregate West		●	●	●	●	●	●	○	○	○	○			●	
R4.04	IRWINDALE	QUARRY RECLAMATION/WATER STORAGE/RECREATIONAL FACILITIES DEVELOPMENT STUDY	The Upper San Gabriel Valley Municipal Water District, Sierra Club, and the State of California Rivers and Mountains Conservancy (RMC) initiated a study to identify potential reuse of gravel quarries for multiple purposes after mining is completed, including stormwater capture and cleanup, recharge of storm and imported water, flood reduction, recreation and habitat restoration, as well as aesthetic improvements. The study will require several years to conduct and any implementation of this study under the San Gabriel Master Plan will require future environmental review beyond the scope of this Master Plan and EIR. The study will also require substantive conversations with mine operators and other stakeholders such as the City of Irwindale. A separate forum has been proposed to provide study participants with essential mining community input.	Upper San Gabriel MWD (USGMWD), Rivers & Mountains Conservancy (RMC), Sierra Club		●	●	●	●	●	●	○	○	○	○	○	○	○	●
R4.05	IRWINDALE	HANSON QUARRY	The City of Irwindale is interested in multiple possible uses for the 400 acre Hanson Quarry site, which offers a significant economic development opportunity. A long-term quarry reclamation plan is being developed to be implemented once mining operations have ceased, including new business and industrial uses, shopping, parks and open space, and possibly groundwater recharge and cleanup.	Irwindale, Hanson Aggregate West		●	●	●	●	●	●	○	○	○	○	○	○	●	
R4.06	ARCADIA	RODEFER QUARRY	This privately-owned quarry is an inholding of the City of Arcadia and is currently being filled with inert materials such as dirt and concrete. It is now zoned for industrial land use. Future reclamation plans could include park and open space, and other uses.	To be determined		○	●	●	○	●	●	○	○	○	○	○	○	●	
R4.07	IRWINDALE	DURBIN QUARRY	The City of Irwindale is interested in multiple uses for the Durbin Quarry site, which offers a significant economic development opportunity. It is developing a long-term quarry reclamation plan for reclamation after mining is complete, including new business and industrial uses, shopping, parks and open space, and possibly groundwater recharge and cleanup. However, the Durbin Quarry, owned and operated by Vulcan, will be an ongoing mining operation for the next 30 to 40 years. The City of Irwindale is keenly interested in its potential for economic development and is now negotiating with Vulcan about final reclamation and landform. Development would occur significantly after mining operations cease because of extensive fill requirements.	Irwindale, Vulcan Materials Co.		○	●	●	○	●	●	○	○	○	○	○	○	●	
R4.08	EL MONTE, BALDWIN PARK	RAMONA BOULEVARD GATEWAY	The Ramona Boulevard gateway project will provide a key entry point to the San Gabriel River Bike Trail and the City of El Monte.	El Monte, Baldwin Park			●	○		●				○	●				
R4.09	BALDWIN PARK	CALTRANS RIGHT-OF-WAY OPEN SPACE & TRAIL	This Baldwin Park project will upgrade an existing 2-acre right-of-way with landscaping and trails to connect Barnes Park, the San Gabriel River Bike Trail, and neighborhood schools.	Baldwin Park, Caltrans			●	○				○	○	○	●				
R4.10	BALDWIN PARK	BARNES PARK	Baldwin Park plans to improve the existing Barnes Park with habitat enhancements and an interpretive programs center.	Baldwin Park			●	○				●							
R4.11	BALDWIN PARK	WALNUT CREEK NATURE PARK AND NATURE CENTER	Baldwin Park will improve the Walnut Creek Park with a 3,300 square foot community center, walking trails, spray pool, playgrounds, new turf, fencing and irrigation.	Baldwin Park		●	●	○	●	○		○	●	○		○			
R4.12	EL MONTE	DURFEE SCHOOL RECREATION AREA	The City of El Monte wants to develop active recreation and landscaping along the San Gabriel River and provide access to the San Gabriel River Bike Trail.	El Monte		○	●	○	○			○		●					

● = Definite Opportunity ○ = Potential Opportunity

MASTER PLAN PROJECTS ACTION GRID						Reach 4 (continued)												
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)	Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't.	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies
R4.13	EL MONTE	VALLEY BOULEVARD GATEWAY	This City of El Monte project will improve connections from Mountain View High School and surrounding neighborhoods to the San Gabriel River Bike Trail. The project includes entry signage.	El Monte		●	○			●				○	●			
R4.14	EL MONTE	INFLATABLE RUBBER DAMS	LADPW is building two new inflatable rubber dams over existing drop structures in the river. The dams provide temporary water storage and also create rich and attractive natural habitat.	LADPW	●	○		●	●		○		●					
R4.15	CITY OF INDUSTRY, UNINCORP. LA COUNTY	WOODLAND "DUCK" FARM	The 57-acre Duck Farm Project grants a unique opportunity to provide a much needed open space and recreation area in a densely urbanized portion of the San Gabriel Valley. The property is located along the east side of the San Gabriel River just north of the confluence of the San Gabriel River and San Jose Creek. The portion of the property on the west side of the 605 Freeway had been operated as a Duck Farm. In addition to offering increased area for passive recreation such as bike and pedestrian trails, bird watching and rest areas, the project has the potential to incorporate design elements such as groundwater recharge, water quality improvements, flood management, interpretive educational signage, exhibits, displays, as well as the reintroduction of native habitat. The WCA's goal is to create a project that will be a model for sustainable, multi-benefit watershed projects that address the open space recreation and watershed needs of the San Gabriel Valley. By connecting the surrounding communities to the San Gabriel River, the Duck Farm project will establish a local connection to Whittier Narrows Recreation facilities; regional connectivity to the San Gabriel River Trail system and the Emerald Necklace network of recreation facilities.	Watershed Conservation Authority	●	●	●	○	●	●	○	○	○	○	○	○	●	
R4.16	UNINCORP. LA COUNTY	SAN GABRIEL RIVER BIKE TRAIL BRIDGE	LADPW is studying possibilities for a multi-use bridge to connect El Monte, South El Monte, and unincorporated LA County communities with the San Gabriel River Trail, the San Jose Creek Trail and the Duck Farm.	LADPW, MTA		●								○	●			
R4.17	UNINCORP. LA COUNTY	SAN JOSE CREEK BIKE TRAIL BRIDGE	This multi-use bridge would be part of a project to expand the San Jose Creek Bike Trail system. The bridge would connect bicyclists and pedestrians from the south bank of San Jose Creek with the north bank and the San Gabriel River Bike Trail.	LADPW, MTA	○	●	○	●	●					○	●			
R4.18	UNINCORP. LA CO., CITY OF INDUSTRY, POMONA, CLAREMONT	SAN JOSE CREEK BIKE TRAIL PHASE II	LADPW is studying potential expansion of the existing San Jose Creek Bike Trail, beginning along the southern bank of the creek from the San Gabriel River traveling east to Cal Poly Pomona and to Claremont along Thompson's Creek (a San Jose Creek tributary).	LADPW, MTA, Pomona, Claremont		●	○					○		●	○			
R4.19	UNINCORP. LA COUNTY, CITY OF INDUSTRY	SAN JOSE CREEK HABITAT & TRAILS RESTORATION	North East Trees, with funding from Los Angeles County Open Space District, is restoring native plants along the northern slopes of San Jose Creek. The project area includes a 1.5-mile stretch of creek and trails, starting at the San Gabriel River past Workman Mill Road Bridge. The project includes landscaping to enhance the equestrian trail on the north and south bank and removal of exotic arundo in the creek.	North East Trees, Sierra Club, LA Co. Regional Parks & Open Space District (LAOSD)	●	●	○	○	○		●	○	○	○				
R4.20	SOUTH EL MONTE, UNINCORP. LA COUNTY	THIENES GATEWAY	This gateway is an equestrian staging area and local access point to the equestrian trails along the west bank of the river. Improvements by the Hollywood Beautification Team and Friends of the San Gabriel River, with funding from the Los Angeles County Open Space District, include an artful gate by a local artist, horse tie posts, drinking water, signage, seating and native landscaping including trees.	South El Monte, HBT, Friends of the San Gabriel River (FSGR) LAOSD	○	●	○		○			○		○	●			
R4.21	UNINCORP. LA COUNTY	PELLISSIER POCKET PARK	A pocket park was proposed for this location near the San Jose Creek. It has subsequently been determined to no longer be a viable project.	HBT, FSGR, RMC														
R4.22	UNINCORP. LA COUNTY	HORSEMAN'S PARK	This project includes landscaping and a gateway to improve connections between surrounding neighborhoods and Horseman's Park.	HBT, FSGR, RMC	○	●	○		○	○		●		○				

● = Definite Opportunity ○ = Potential Opportunity

MASTER PLAN PROJECTS ACTION GRID							Reach 4 (continued)												
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)	Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't.	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies	
R4.23	UNINCORP. LA COUNTY	PUENTE HILLS WESTERN WILDLIFE CORRIDOR	This project will create a habitat movement corridor between the Puente-Chino Hills and Whittier Narrows, either near Rose Hills Cemetery along Sycamore Canyon, or down the north slope towards San Jose Creek. A connection facilitating northbound and southbound movement to and from the San Gabriel Mountains may eventually become possible. A study by a biological research institute will be required before terrestrials can be re-introduced to the river area.	Puente Hills Landfill Native Habitat Preservation Authority (HPA); City of Whittier	●	○	○				●	○		○				○	
R4.24	UNINCORP. LA COUNTY, PICO RIVERA	EQUESTRIAN FACILITIES ENHANCEMENT	Potential upgrades and water quality runoff mitigation measures will be considered for these existing equestrian facilities. Planned improvement will mitigate any potential wildlife habitat conflicts.	LADPR, Pico Rivera		●	○		○			●	○	○					
R4.25	UNINCORP. LA COUNTY	NATURE CENTER MULTI-USE TRAIL	A trail connection between the San Gabriel River Discovery Center at Whittier Narrows and the San Gabriel River Bike Trail will improve user access, safety and convenience. New signage to and from the River Discovery Center will enhance existing unmarked paths.	LADPR	●	●	○				○	○		●	○	○			
R4.26	UNINCORP. LA COUNTY	SAN GABRIEL RIVER DISCOVERY CENTER AT WHITTIER NARROWS REGIONAL PARK	LADPR, RMC, and the Upper San Gabriel Valley Municipal Water District are jointly developing a new regional indoor/outdoor museum and conference center on the site of the existing Whittier Narrows Nature Center. It will focus on watershed and water-related topics, historical information and wildlife education. The project's innovative building design will demonstrate green building technologies and watershed-appropriate site development. A joint powers authority is being set up to build and operate the Discovery Center.	USGMWD, Sierra Club, LADPR	●	●	●	○	●	●	○	○	○	○			●		
R4.27	UNINCORP. LA COUNTY	WHITTIER NARROWS NATURE CENTER ECOSYSTEM RESTORATION	This project, supported by LADPR, has been in development for six years, based on a U.S. Army Corps of Engineers project options study. Because the project is located at the northern most boundary of the Montebello Forebay, this area is subject to rising waters, and therefore is not a good site for groundwater recharge. The selected option is to build a .25-acre pond, line two lakes to reduce water loss from percolation, remove invasive plants, and restore native vegetation. The lakes could be interconnected to Lario Creek (see R4.28) and water in the lakes could flow through the system and down to the Rio Hondo Spreading Grounds. The volume of water required to maintain the lakes is minimal compared with the tens of thousands of acre feet that flow through the system annually.	LADPR, COE	●	●	●	●	●		●	○	○	○			○		
R4.28	UNINCORP. LA COUNTY	LARIO CREEK/ZONE 1 DITCH	This project is an opportunity to build upon and enhance an already planned LADPW project to expand the flow capacity of an existing canal. North East Trees proposes to temporarily divert high water flows to protect and extend wetlands. This will restore valuable habitat to support wildlife and increase the aesthetic and educational value of the area, which is adjacent to the San Gabriel River Discovery Center.	North East Trees, Ca. Dept. of Water Resources (DWR), LADPW	●	○	○	●	●		○	○	●	○					
R4.29	UNINCORP. LA COUNTY	WHITTIER NARROWS WILDLIFE LAKES	LADPR believes it is important to preserve these two large lakes as wetlands. The lakes, located at the Nature Center, could be lined to reduce water consumption.	LADPR; Water Replenishment District (WRD)	●	○	○	●			●	○	○	○					
R4.30	UNINCORP. LA COUNTY	WHITTIER NARROWS LEGG LAKE IMPROVEMENTS	These three recreational lakes should be upgraded to improve ADA accessibility and reduce erosion.	LADPR; WRD	●	○	○	●			○	●	○	○					
R4.31	UNINCORP. LA COUNTY	WHITTIER NARROWS DAM WATER CONSERVATION POOL	The COE completed a feasibility study to expand the current water conservation pool behind the Whittier Narrow Dam from 2,500-acre feet at elevation 201.6 feet up to as high as elevation 209 feet. The pool, to be built by the Water Replenishment District (WRD), will increase groundwater percolation for increased water supply; it is expected to save the WRD \$1 million annually. The COE regional headquarters in San Francisco is currently reviewing the study. The project will affect other projects proposed within the Whittier Narrows flood control basin. Opportunities to integrate recreational and habitat uses in the design of the ponding area should be explored.	WRD; LADPR	●	●	○	●	●		○	○	●	○					

● = Definite Opportunity ○ = Potential Opportunity

MASTER PLAN PROJECTS ACTION GRID						Plan Elements						Project Concepts							
Reach 5						Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't.	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)															
R5.01	PICO RIVERA	PICO RIVERA GOLF COURSE	This proposed golf course would replace an old campground south of the Pico Rivera Sports Arena. An environmentally-friendly "green" golf course design will be needed to address water quality issues. The design suggests at least three holes in the riverbed.	Pico Rivera; Congressmember Esteban Torres		●	●	●	○	●	●	○	●	○					
R5.02	PICO RIVERA	PEGASUS RANCH PARK	A river adjacent park was proposed for this site at a former equestrian facility. It has subsequently been determined to no longer be a viable project.	FMC															
R5.03	PICO RIVERA	BEVERLY BOULEVARD GATEWAY	This gateway provides a key entry point from the City of Pico Rivera to the river and the San Gabriel River Bike Trail.	Pico Rivera			●	○		●				○	●				
R5.04	UNINCORP. LA COUNTY	AMIGO PARK IMPROVEMENTS	LADPR would like to revitalize Amigo Park, adjacent to the east bank of the river. Providing access from the park to the river may provide more opportunities for the community to exercise safely. Planting native trees would improve the area's appearance and contribute to wildlife habitat. Landscaping, directional signage and more amenities will also enhance safety, security and enjoyment of the park.	LADPR, Pico Rivera		○	●	●	○			●		○	○				
R5.05	WHITTIER	WHITTIER GREENWAY TRAIL & CONNECTION	The City of Whittier recently built a 5-mile bike trail along an abandoned railroad right-of-way, which added 38 acres of linear open space to the City. Another extension is needed to connect it to the San Gabriel River Bike Trail. Whittier is studying four possible routes, including one to Pio Pico State Historic Park. When fully completed, the bike trail will extend from the river to the City of Brea in Orange County. This trail is part of the MTA Regional Bike Plan.	Whittier			●	●		●	○	○		○	○		●		
R5.06	WHITTIER	PIO PICO STATE HISTORIC PARK	Pio Pico was the last Governor of Mexican California. His historic Pio Pico Mansion was recently renovated and re-opened in September 2003. A new watershed enhancement project at this site will include a watershed interpretive exhibit and native, drought-tolerant landscaping. The project will open a pedestrian and bicycle access way under the existing rail line, between the park and the east side of the river. At present, the levy/rail line completely blocks the view of the river. A viewing platform may be constructed over the river, allowing people to take in the view without standing in the bike path.	Friends of Pio Pico State Historic Park Improvements		●	●	●	○		○	○		○		●			
R5.07	WHITTIER, PICO RIVERA, UNINCORP. LA COUNTY	WHITTIER BOULEVARD GATEWAY	A new gateway for the Cities of Whittier and Pico Rivera at the San Gabriel River would be designed to help enhance the image of the western portions of the two cities. The current "Gateway District" for Whittier is 2 miles east of the river. Possible partners include the California State Department of Parks and Recreation, LA County, and Caltrans.	Pio Pico SHD, City of Whittier			●	○						○	●				
R5.08	PICO RIVERA	PASEO DEL RIO AT SAN GABRIEL COASTAL SPREADING GROUNDS	This multi-objective 128-acre LADPW project will provide a bike trail, new native and drought-tolerant landscaping, shade structures and other park-like amenities to beautify open space surrounding the existing spreading grounds. The occasional presence of surface water creates the appearance of a lake to be enjoyed by nearby residents and other visitors. The project entails limited public access, with passive recreational and educational opportunities.	LADPW, Pico Rivera		●	●	●	○	●	○	●	○	○					
R5.09	PICO RIVERA	PASEO DEL RIO AT RIO HONDO SPREADING GROUNDS	This multi-objective 570-acre LADPW project will provide a bike trail, new native and drought-tolerant landscaping, shade structures and other park-like amenities to beautify open space surrounding the existing spreading grounds. The occasional presence of surface water creates the appearance of a lake to be enjoyed by nearby residents and other visitors. The project entails limited public access, with passive recreational and educational opportunities.	LADPW, Pico Rivera		●	●	●	○	●	○	●	○	○					
R5.10	PICO RIVERA	MINES AVENUE BIKE TRAIL CONNECTION	This City of Pico Rivera bike trail will provide a two-mile connection from the Rio Hondo Spreading Grounds east to the San Gabriel Spreading Grounds and from there to the San Gabriel River Bike Trail. This will be a conversion from a Class 2 bike trail to a Class 1, separating the trail from automobile traffic for increased safety.	Pico Rivera			●	○							●	○			

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MASTER PLAN PROJECTS ACTION GRID							Reach 5 (continued)												
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)	Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't.	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies	
R5.11	PICO RIVERA	WASHINGTON BOULEVARD GATEWAY	This project will provide a key entry point to the river and the San Gabriel River Bike Trail from the City of Pico Rivera.	Pico Rivera		●	○			●					○	●			
R5.12	PICO RIVERA	SLAUSON AVENUE GATEWAY	The Slauson Avenue Gateway will serve as a key entry point to the San Gabriel River Bike Trail from the City of Pico Rivera.	Pico Rivera		●	○			●					○	●			
R5.13	PICO RIVERA, SANTA FE SPRINGS	TELEGRAPH AVENUE GATEWAY	This gateway will improve access to the Santa Fe Springs Park Expansion project from the Cities of Pico Rivera and Santa Fe Springs (see project R5.14).	Pico Rivera, Santa Fe Springs		●	○			●					○	●			
R5.14	SANTA FE SPRINGS	SANTA FE SPRINGS PARK EXPANSION	The existing 14-acre park across Telegraph Road will be expanded, with the south side for active recreational users and the north for passive recreation and habitat. The expanded north half is a proposed 13-acre Nature Sanctuary. The project will connect the San Gabriel River Bike Trail with a pedestrian-oriented zone on Telegraph Avenue, and include gateway entry features, native vegetation and potential storm water management practices.	Santa Fe Springs	○	●	●		○			●			○	○			
R5.15	DOWNEY	FLORENCE AVENUE GATEWAY	In conjunction with Wilderness Park, this project will connect the San Gabriel River Bike Trail and the City of Downey.	Downey						●					○	●			
R5.16	DOWNEY	WILDERNESS PARK RECLAIMED WATER & OPEN SPACE PARK	This 26-acre park in the City of Downey offers varied recreational activities for residents throughout Southeast LA County. The park has a large lake of reclaimed water, which is often used for fishing derbies. A reclaimed water project will connect the lake to the park's irrigation system, reducing the need for chemical treatment of lake water and providing a migrating rest area for birds. Another project will develop six acres of land for passive recreation, using native plants. The City of Downey holds a long-term lease from Southern California Edison (SCE), which currently owns the land.	Downey	●	●	●		●		○	●	○	○					
R5.17	DOWNEY	RIO SAN GABRIEL PARK INTERPRETIVE TRAIL	This existing 16-acre park adjacent to the river combines high- and low-impact recreational activities with one building for meetings and special indoor activities. The City of Downey plans to develop a native plant interpretative trail around the perimeter of the park, beginning at the river's edge. The project will include a trail made of decomposed granite, benches, trash receptacles, signage, restrooms and a picnic shelter.	Downey	●	●	●		○	●	○	○		●					
R5.18	DOWNEY	FIRESTONE BOULEVARD GATEWAY	The Firestone Boulevard Gateway will provide a key entry point to the river and the San Gabriel River Bike Trail from the Cities of Downey and Norwalk.	Downey, Norwalk		●	○			●					○	●			

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MASTER PLAN PROJECTS ACTION GRID						Reach 6														
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)	Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't.	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies		
R6.01	DOWNEY	DOWNEY LANDING	The City of Downey plans to develop a new, combination low-impact/high impact recreation area with ballfields and a walking trail at what was once a parking lot for the former NASA site (home to the Apollo and Space Shuttle Orbiter programs). An interpretive trail along the perimeter of the 11.5-acre park will include natural vegetation and a biofiltration swale system to capture and clean 130 acres of urban storm water runoff and provide flood protection. The project includes trailhead and trailside facilities, restrooms, a shade structure for educational purposes, benches, trashcans, drinking fountains and bike racks. The trail will be enhanced with trees providing a canopy of shade, the creek-like swale system and natural vegetation. Interpretive signage will provide information on the process being used to clean the storm water. Adjacent to the park site will be the 20,000 square foot Columbia Memorial Space Learning Center.	Downey	○	●	●	●	●	●	○	○	○	○	○	○	○	○	○	●
R6.02	DOWNEY, BELLFLOWER NORWALK	FOSTER ROAD GATEWAY	The Foster Road Gateway will serve as a key entry point and pedestrian bridge to the San Gabriel River Bike Trail for the Cities of Downey, Bellflower and Norwalk.	Downey, Bellflower, Norwalk		●	○			●		○		○	●					
R6.03	BELLFLOWER	H. BYRUN ZINN PARK IMPROVEMENTS	The City of Bellflower plans open space enhancements including a pedestrian path, trees and benches to an existing four-acre park where Foster Road comes to a dead end at the river. Landscape improvements will maintain the current passive, low-impact recreational use. The project will be integrated with the Foster Road Gateway (R6.02). It is located in the Southern California Edison right-of-way.	Bellflower	○	●	●		○		○	●	○	○						
R6.04	BELLFLOWER NORWALK	ROSECRANS AVENUE GATEWAY	This project will provide a key entry point to the San Gabriel River Bike Trail for the Cities of Bellflower and Norwalk.	Bellflower, Norwalk		●	○			●				○	●					
R6.05	NORWALK	EXCELSIOR DRIVE GATEWAY PARK	Excelsior Drive Gateway Park will serve as a potential entry point from Norwalk to the San Gabriel River Bike Trail.	Norwalk						●		●	○	○						
R6.06	BELLFLOWER	BELLFLOWER HIGH BIKE TRAIL CONNECTION	This bike trail connection from Bellflower High School east to the San Gabriel River Bike Trail at the MTA right-of-way will improve local community access to the river trail.	Bellflower		●	○			●		○		●						
R6.07	BELLFLOWER	RIVERVIEW PARK	Riverview Park will be a new 15-acre recreation area fronting the river. The project will provide a natural, riverfront environment serving the residents of Bellflower and many other communities up and down the river. Proposed improvements include a paved bikeway, landscaping, park benches and informational signage. A direct linkage to the San Gabriel River Bike Trail will be created, as well as linkage to the City of Bellflower West Branch Greenway. There will be an information kiosk for both the River Trail and the West Branch Bikeway (see R6.11). The State of California Resources Agency awarded the City of Bellflower a grant of \$2.97 million for Riverview Park, which will be funded by Proposition 12 park bond funds. The funds will be used for land acquisition, trails, botanical gardens with native plants and passive recreation. In addition, the RMC recently awarded the City of Bellflower \$100,000 in Proposition 40 planning grants to fund planning activities for the property.	Bellflower	○	●	●		○		●		○		○					
R6.08	BELLFLOWER NORWALK	ALONDRA BOULEVARD GATEWAY	The Alondra Boulevard Gateway will provide a key entry point to the San Gabriel River Bike Trail for the Cities of Bellflower and Norwalk.	Bellflower, Norwalk		●	○			●				○	●					
R6.09	CERRITOS	CERRITOS COLLEGE BIKE LINK	A bike trail connection from Cerritos College along Alondra Boulevard west to the San Gabriel River Bike Trail will greatly improve local community access.	Cerritos, Norwalk		●	○								●					
R6.10	BELLFLOWER	NORTH CARUTHER'S CHANNEL IMPROVEMENTS	Improvements are needed to address the algae and mosquito problem caused by slow moving water at this tributary to the San Gabriel River. Solutions include creating a soft-bottom and naturalistic channel design to facilitate water flow.	Bellflower	○			●	●		○	○	●	○						
R6.11	BELLFLOWER	WEST BRANCH GREENWAY RAILS-TO-TRAILS PROJECT	This new 2.5 mile rails-to-trails project on an abandoned Pacific Electric right-of-way will provide an west-east connection from Lakewood Boulevard to the San Gabriel River Bike Trail. The project will result in a Class I bikeway and pedestrian trail.	Bellflower, Paramount, Artesia		●	●			●	○	○	○	○					●	
R6.12	BELLFLOWER	WEST BRANCH GREENWAY BIKE CONNECTION AREA	This site is proposed for a BMX park. Acquisition of an open space area between the abandoned Pacific Electric railway and the river will be needed to create a full connection between the West Branch Greenway and the river.	Bellflower		●	○					○		●	○					

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MASTER PLAN PROJECTS ACTION GRID							Reach 6 (continued)												
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)	Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies	
R6.13	BELLFLOWER CERRITOS	ARTESIA BOULEVARD GATEWAY	The Artesia Boulevard Gateway will provide a key entry point to the San Gabriel River Bike Trail for the Cities of Bellflower and Cerritos.	Bellflower, Cerritos		●	○			●				○	●				
R6.14	LAKEWOOD CERRITOS	SOUTH STREET GATEWAY	This gateway could improve access to the San Gabriel River west side maintenance road and a future trail to West Gate Park. No plans have been started for this project. Design of such a project might depend on adopted recommended design guidelines that provide for some degree of consistency up and down the river.	Lakewood, Cerritos		●	○			●				○	●				
R6.15	CERRITOS	LIBERTY PARK IMPROVEMENT PROJECT	Improvements will be made to this existing park to provide accessibility for park users with disabilities and passive natural areas with sensory amenities. The project will upgrade an existing playground to universal access standards and provide additional playground space. Additional accessible parking will be provided along with an artificial surface track and walking trail. Amenities will also be provided for bikers and joggers on the San Gabriel River Bike Trail.	Cerritos	○	●	●		○			●		○					
R6.16	LAKEWOOD CERRITOS	DEL AMO BOULEVARD GATEWAY	The Del Amo Boulevard Gateway could provide a key entry point to the San Gabriel River Bike Trail for the Cities of Lakewood and Cerritos. No plans have been started for this project. Design of such a project might depend on adopted recommended design guidelines that provide for some degree of consistency up and down the river.	Lakewood, Cerritos		●	○			●				○	●				
R6.17	LAKEWOOD	MAE BOYER PARK RENOVATION	The project includes river parkway enhancements and trail access to an existing 6.8-acre park adjacent to the river. Renovations include picnic shelter replacement and amenity upgrades such as parking lots, restrooms and landscaping. Construction of the first phase of this project is nearing completion. The City of Lakewood has applied for a grant for the next phase of the project.	Lakewood	○	●	●		○			●		○					
R6.18	LAKEWOOD	WEST SAN GABRIEL RIVER OPEN SPACE AREA	This recently completed City of Lakewood project extends open space adjacent to the west side of the river from Carson Boulevard north to Monte Verde Park. This project provides improved bike path linkage on the west side of the river and the San Gabriel River Bike Trail on the east side, an automatic irrigation system, several species of California indigenous trees, meadow grasses and shrubs. Low growing plants are being used under the utility easements. This new park faces Rynerson Park on the east side of the river, creating landscaped parks on both sides of the river. The City of Lakewood has recently submitted a grant for Phase 2 of the project. This second phase will be an extension of the first phase from Monte Verde Park to Del Amo Boulevard.	Lakewood	○	●	●		○		○	●		○					
R6.19	LONG BEACH LAKEWOOD	CARSON AVENUE GATEWAY	The Carson Avenue Gateway will provide a key entry point to the San Gabriel River Bike Trail for the Cities of Lakewood and Long Beach. Better signage is needed for the Lakewood Equestrian Center at Rynerson Park. The intersection may require a traffic signal or an undercrossing of the service road to provide a connection from the West San Gabriel River Open Space Area to the Heartwell Golf Course and Park, which lies farther west along Carson Street. No plans have been started for this project. Design of such a project might depend on adopted recommended design guidelines that provide for some degree of consistency up and down the river. Lakewood and Long Beach may need to coordinate with each other on this project.	Lakewood, Long Beach		●	○			●				○	●				
R6.20	LONG BEACH	EAST-WEST PEDESTRIAN BRIDGE ENHANCEMENT	Enhancements to an existing bridge will provide a connection between the San Gabriel River Bike Trail on the east side of the river and the maintenance road used by bicyclists on the west side.	Long Beach		●	○							○	●				
R6.21	LONG BEACH	EL DORADO REGIONAL PARK WETLANDS	This park borders the river for about two miles, but flood control levees (berms) along the river sever the connection between activities in the park and the river. The City of Long Beach proposed this project to reconnect El Dorado Park with the river. It will create treatment wetlands in the northern section of El Dorado Park and treat San Gabriel River water, stormwater runoff, and/or reclaimed water to replace the potable water supply to the lakes and streams within the regional park.	Long Beach	●	●	●	●	●		○	○	●	○		○			
R6.22	LONG BEACH	EL DORADO NATURE CENTER MASTER PLAN	A recent Master Plan updates the existing Nature Center and surrounding landscape. Improvements will transition the landscape to more low-water and native plants. The ponds and aeration will be improved and the area south of Willow Street will be developed to expand park and open space. That area may also include treatment wetlands.	Long Beach	●	●	○		○		○	●	○	○		○			
R6.23	LONG BEACH	SAN GABRIEL RIVER WALK PHASE 1 & 2	The City of Long Beach proposed developing a 1.5-mile pedestrian and bicycle trail through a restored native landscape along the western bank of the river in the City of Los Angeles Department of Water & Power right-of-way. Phase 1 can be built now. The project will begin at Spring Street to the north at the El Dorado Park Golf Course, and run south to Atherton Drive just above the San Diego Freeway. Atherton Drive will provide regional access to California State University Long Beach and El Dorado Regional Park. A bridge will connect the regional trails on the east bank of the river and along Coyote Creek with the Long Beach trail system. Phase 2, another 1.5-mile stretch of new trail and open space, will begin at Spring Street and travel north along the right of way to Carson Avenue. This will connect the West San Gabriel River Open Space Area (see R6.18) in Lakewood above Carson Avenue.	Long Beach	●	●	●		○		○	○		●	○				

● = Definite Opportunity ○ = Potential Opportunity

MASTER PLAN PROJECTS ACTION GRID						Reach 7													
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)	Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't.	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies	
R7.01	COYOTE CREEK WATERSHED	COYOTE & CARBON CREEKS WATERSHED MANAGEMENT PLAN	This is a two-phased project. The Phase I Management Plan headed by the County of Orange will identify and prioritize potential projects for implementation through stakeholder input and spatial analysis using Geographic Information System (GIS) mapping. The Phase II Coyote Creek-Lower San Gabriel River Watershed Feasibility Study is in its early stages pending increased funding for the U.S. Army Corps of Engineers.	County of Orange	●	●	●	●	●	○	○	○	○	○	○	○	○	○	●
R7.02	LOS ALAMITOS CERRITOS	COYOTE CREEK REGIONAL BIKEWAY IMPROVEMENTS	The County of Orange is currently partnering with a local non-profit organization, Trails4All, to request funding from the San Gabriel and lower Los Angeles River & Mountains Conservancy to develop this bikeway improvements project. This project will involve a Working Group of all landowners along Coyote Creek, including several cities, the Counties of Los Angeles and Orange, and other key stakeholders to develop a regional bikeway signage program and to develop a long-term Trails Needs Assessment and Master Plan.	Cerritos, Los Alamitos	○	●	○	○	○					●	○				
R7.03	LOS ALAMITOS	COYOTE CREEK DEBRIS BOOM	The City of Seal Beach received a grant from the Coastal Conservancy to investigate upgrading a debris restraint system and physical net and boom, similar to that of a fishing net, to catch and hold debris. This project will help reduce the flow of debris into the Pacific Ocean. Design has been completed by the Los Angeles County Department of Public Works.	Seal Beach	●		○	○	●				●						
R7.04	LOS ALAMITOS	LOS ALAMITOS CHANNEL TREATMENT WETLAND	Orange County proposes urban stormwater treatment wetlands to treat Coyote Creek flows, as part of the COE Coyote Creek Watershed Plan study.	County of Orange	○		●		●		○	○	●	○					
R7.05	LONG BEACH	PROPOSED CONFLUENCE BRIDGE	A proposed bike and pedestrian bridge at the Coyote Creek Confluence will connect the San Gabriel River Bike Trail to the Coyote Creek Bike Trail.	Long Beach	○	●	●	○							●				
R7.06	LONG BEACH	SAN GABRIEL RIVER WALK PHASE 3	This project is a continuation of the San Gabriel River Walk (see R6.23). This stretch of trail will extend from Atherton Drive, along the side west side of the river, potentially down to the Long Beach Marina. It will involve Seal Beach for a small segment where College Estates Park exists, just above the 22 Freeway.	Seal Beach	○	●	●		○					●					
R7.07	SEAL BEACH LONG BEACH	LOS CERRITOS WETLAND RESTORATION (BRYANT & BIXBY)	This project proposes acquiring about 266 acres of land currently used for oil operations. The Bixby property is 181 acres and the Bryant property approximately 85 acres. The sites, located near the end of the river just north of Alamitos Bay, are surrounded by urban development but still provide valuable habitat for birds and a salt marsh field.	Seal Beach, Long Beach	●	○	●	○	●		●	○	○	○					
R7.08	SEAL BEACH	COUNTY OF ORANGE FLOOD CONTROL BASIN	This project is a modification of the existing Los Alamitos basin and pump station to expand the flood capacity for runoff flowing from southwest Orange County. Flooding problems will be alleviated in the community of Rossmoor.	County of Orange	●	○	○	●	●		○	○	●	○				○	
R7.09	SEAL BEACH	TRAIL CONNECTION BETWEEN WETLANDS	This project will connect bike trails within the City of Seal Beach to provide a complete circuit around the community linking several parks and open space areas.	Seal Beach	○	●	○							●					
R7.10	SEAL BEACH	HELLMAN RANCH WETLANDS	Potential acquisition by the City of Seal Beach of 100-acre, deed restricted property and restoration of tidally influenced trail wetland and upland habitat areas, with trail connection to Gum Grove Park and San Gabriel River Bike Trail contemplated.	Seal Beach	●	○	●	○	●	○	●	○	○	○					
R7.11	SEAL BEACH	PACIFIC COAST HIGHWAY GATEWAY	This project will provide a key entry point to the San Gabriel River Bike Trail for the Cities of Seal Beach and Huntington Beach.	Seal Beach		●	○			●				○	●				
R7.12	SEAL BEACH	PACIFIC COAST HIGHWAY BIKE TRAIL EXTENSION	This proposed extension of the Pacific Coast Highway Bike Trail through Seal Beach will connect the San Gabriel River Bike Trail to a major north/south coastal route. The final design stage has been completed but the project has not yet been constructed.	Seal Beach		●	○							●					
R7.13	SEAL BEACH	SAN GABRIEL RIVER TRAIL ENHANCEMENT	This project by the City of Seal Beach will rehabilitate the existing San Gabriel River Bike Trail. The north section of the project includes Marina Drive to Pacific Coast Highway and the south section includes Marina Drive to First Street. It will introduce new signage, fencing, educational kiosks, new picnic and bicycle storage areas, and native landscaping and vegetation. The restoration will provide public awareness and education, as well as low-impact recreation.	Seal Beach	○	●	●		○		○			●					

● = Definite Opportunity ○ = Potential Opportunity

MASTER PLAN PROJECTS ACTION GRID							Reach 7 (continued)												
ID NUMBER	LOCATION/CITY	PROJECT NAME	PROJECT DESCRIPTION	PROJECT LEAD(S)	Habitat	Recreation	Open Space	Flood Protection	Water Quality & Supply	Land Use/Econ. Dev't	Habitat Enhancement	Parks & Open Space	Water Quality & Supply	Trail Enhancement	Bridges & Gateways	Education Center	Land Reclamation	Studies	
R7.14	LONG BEACH SEAL BEACH	MARINA DRIVE GATEWAY	This project included the construction of a regional trail and landscaping along Marina Drive from 1st Street to 5th Street and provided a key entry point to the San Gabriel River Bike Trail for the Cities of Seal Beach and Long Beach. There was also a street pavement reduction from four lanes to two lanes. This project has already been completed.	Long Beach, Seal Beach			●	○			●					○	●		
R7.15	SEAL BEACH	MARINA DRIVE URBAN RUNOFF DIVERSION	The City of Seal Beach is seeking to enhance the capacity of the West End Pump Station to provide protection equivalent to the 25-year storm flow and will also construct a low flow diversion to the sewer system. This project will improve water quality to both the San Gabriel River and to Seal Beach. This project is currently 50% through its design stage and the City is seeking to obtain permits from the Orange County Sanitation District (OCSD).	Seal Beach		●			●	●					●				
R7.16	SEAL BEACH	LOS ANGELES DEPARTMENT OF WATER AND POWER OPEN SPACE	This project concerns the future dedication of land for a passive open space area at the mouth of the San Gabriel River. The amount of land dedication is to be negotiated between the City of Seal Beach and property owner during project entitlement consideration. It will have direct connections to four other projects – R7.11, R7.13, R7.14 and R7.17.	Seal Beach		○	●	●	○	○	○	○	●	○	○				
R7.17	SEAL BEACH	RIVER'S END GATEWAY	The City of Seal Beach received grants from the Rivers and Mountains Conservancy (RMC) to study open space opportunities throughout the City and to prepare concept plans for a staging area for the San Gabriel River Bike Trail at its terminus in Seal Beach. Enhancements at the staging area, which are part of overall improvements to the San Gabriel River Bikeway (projects R7.06, and R7.17), include landscaping, decorative gates, water fountains, and benches. The project is 50% through its design phase.	Seal Beach		○	●	○		○	●		○		○		●		

● = Definite Opportunity ○ = Potential Opportunity

appendix B Native Plants in the River Corridor

Planting species from the following list can enhance the overall quantity and quality of native habitat for the San Gabriel River region. While not exhaustive, the list provides an overview of the native plant species appropriate to each of the seven reaches in the San Gabriel River corridor. These plants are not considered rare, threatened or endangered (although in some cases, their associated plant community may be “special status habitat”) and planting individual plant species does not necessarily constitute creating a specific habitat type.

Reach One

- *Acer macrophyllum* (big-leaf maple)
- *Alnus rhombifolia* (white alder)
- *Amorpha fruticosa* (false indigo)
- *Artemisia californica* (California sagebrush)
- *Artemisia douglasiana* (mugwort)
- *Baccharis salicifolia* (mule fat)
- *Brickellia californica* (California bricklebrush)
- *Ceanothus sp.* (California lilac)
- *Cercocarpus betuloides* var. *betuloides* (mountain mahogany)
- *Epilobium canum* ssp. *latifolium* (*Zauschneria californica*) (California fuschia)
- *Eriogonum fasciculatum* var. *foliolosum* (California buckwheat)
- *Eriophyllum confertiflorum* (golden yarrow)
- *Lasthenia californica* (California goldenfields)
- *Lessingia filaginifolia* var. *filaginifolia* (California aster)
- *Lotus scoparius* (deer weed)
- *Lupinus bicolor* (miniature lupine)
- *Melica imperfecta* (Coast Range melic)

- *Mimulus aurantiacus* (bush monkeyflower)
- *Muhlenbergia rigens* (deergrass)
- *Nassella cernua* (nodding needlegrass)
- *Nassella pulchra* (purple needlegrass)
- *Prunus ilicifolia* ssp. *ilicifolia* (hollyleaf cherry)
- *Quercus chrysolepsis* (canyon live oak)
- *Rhamnus californica* ssp. *californica* (California coffeeberry)
- *Ribes aureum* var. *gracillimum* (golden currant)
- *Rosa californica* (California rose)
- *Rubus ursinus* (California blackberry)
- *Salix exigua* (narrow-leaved willow)
- *Salix lasiolepis* (arroyo willow)
- *Salix laviegata* (red willow)
- *Solidago californica* (California goldenrod)
- *Symphoricarpos mollis* (creeping snowberry)
- *Umbellularia californica* (California bay laurel)

Reach Two

- *Alnus rhombifolia* (white alder)
- *Amorpha fruticosa* (false indigo)
- *Artemisia californica* (California sagebrush)
- *Artemisia douglasiana* (mugwort)
- *Baccharis salicifolia* (mule fat)
- *Brickellia californica* (California bricklebrush)
- *Ceanothus sp.* (California lilac)
- *Cercocarpus betuloides* var. *betuloides* (mountain mahogany)
- *Elymus condensatus* (giant wild rye)
- *Epilobium canum* ssp. *latifolium* (*Zauschneria californica*) (California fuschia)
- *Eriogonum fasciculatum* var. *foliolosum* (California buckwheat)
- *Eriophyllum confertiflorum* (golden yarrow)
- *Heteromeles arbutifolia* (toyon)
- *Lasthenia californica* (California goldenfields)
- *Lessingia filaginifolia* var. *filaginifolia* (California aster)
- *Lotus scoparius* (deer weed)
- *Lupinus bicolor* (miniature lupine)
- *Melica imperfecta* (Coast Range melic)
- *Mimulus aurantiacus* (bush monkeyflower)
- *Muhlenbergia rigens* (deergrass)
- *Nassella cernua* (nodding needlegrass)
- *Nassella pulchra* (purple needlegrass)
- *Platanus racemosa* (western sycamore)
- *Populus fremontii* (Fremont’s cottonwood)
- *Prunus ilicifolia* ssp. *ilicifolia* (hollyleaf cherry)
- *Quercus chrysolepsis* (canyon live oak)
- *Rhamnus californica* ssp. *californica* (California coffeeberry)
- *Rhus ovata* (sugar bush)
- *Ribes aureum* var. *gracillimum* (golden currant)
- *Rosa californica* (California rose)
- *Rubus ursinus* (California blackberry)
- *Salix exigua* (narrow-leaved willow)
- *Salix lasiolepis* (arroyo willow)

- *Salix lavigata* (red willow)
- *Solidago californica* (California goldenrod)
- *Symphoricarpos mollis* (creeping snowberry)
- *Umbellularia californica* (California bay laurel)

Reach Three

- *Amorpha fruticosa* (false indigo)
- *Artemisia californica* (California sagebrush)
- *Artemisia douglasiana* (mugwort)
- *Baccharis pilularis* (coyote brush)
- *Baccharis salicifolia* (mule fat)
- *Brickellia californica* (California bricklebrush)
- *Ceanothus sp.* (California lilac)
- *Cercocarpus betuloides* var. *betuloides* (mountain mahogany)
- *Elymus condensatus* (giant wild rye)
- *Epilobium canum* ssp. *latifolium* (*Zauschneria californica*) (California fuschia)
- *Eriogonum fasciculatum* var. *foliolosum* (California buckwheat)
- *Eriophyllum confertiflorum* (golden yarrow)
- *Heteromeles arbutifolia* (toyon)
- *Lasthenia californica* (California goldenfields)
- *Layia platyglossa* (tidy-tips)
- *Lessingia filaginifolia* var. *filaginifolia* (California aster)
- *Lotus scoparius* (deer weed)
- *Lupinus bicolor* (miniature lupine)
- *Malosma laurina* (laurel sumac)
- *Mimulus aurantiacus* (bush monkeyflower)
- *Muhlenbergia rigens* (deergrass)

- *Nassella cernua* (nodding needlegrass)
- *Nassella pulchra* (purple needlegrass)
- *Platanus racemosa* (western sycamore)
- *Populus fremontii* (Fremont's cottonwood)
- *Prunus ilicifolia* ssp. *ilicifolia* (hollyleaf cherry)
- *Quercus agrifolia* (coast live oak)
- *Quercus chrysolepsis* (canyon live oak)
- *Rhamnus californica* ssp. *californica* (California coffeeberry)
- *Rhamnus crocea* (spiny redberry)
- *Rhus ovata* (sugar bush)
- *Rhus integrifolia* (lemonade berry)
- *Ribes aureum* var. *gracillimum* (golden currant)
- *Rosa californica* (California rose)
- *Rubus ursinus* (California blackberry)
- *Sambucus mexicana* (Mexican elderberry)
- *Salix exigua* (narrow-leaved willow)
- *Salix goodingii* (black willow)
- *Salix lasiolepis* (arroyo willow)
- *Salix lavigata* (red willow)
- *Umbellularia californica* (California bay laurel)
- *Yucca whipplei* (our Lord's candle or chaparral yucca)

Reach Four

- *Amorpha fruticosa* (false indigo)
- *Artemisia californica* (California sagebrush)
- *Artemisia douglasiana* (mugwort)
- *Baccharis pilularis* (coyote brush)
- *Baccharis salicifolia* (mule fat)

- *Brickellia californica* (California bricklebrush)
- *Ceanothus sp.* (California lilac)
- *Elymus condensatus* (giant wild rye)
- *Eriogonum fasciculatum* var. *foliolosum* (California buckwheat)
- *Eriophyllum confertiflorum* (golden yarrow)
- *Heteromeles arbutifolia* (toyon)
- *Juglans californica* (California walnut)
- *Lasthenia californica* (California goldenfields)
- *Layia platyglossa* (tidy-tips)
- *Lessingia filaginifolia* var. *filaginifolia* (California aster)
- *Lotus scoparius* (deer weed)
- *Lupinus bicolor* (miniature lupine)
- *Malosma laurina* (laurel sumac)
- *Melica imperfecta* (Coast Range melic)
- *Mimulus aurantiacus* (bush monkeyflower)
- *Nassella cernua* (nodding needlegrass)
- *Nassella pulchra* (purple needlegrass)
- *Platanus racemosa* (western sycamore)
- *Populus fremontii* (Fremont's cottonwood)
- *Prunus ilicifolia* ssp. *ilicifolia* (hollyleaf cherry)
- *Quercus agrifolia* (coast live oak)
- *Rhamnus crocea* (spiny redberry)
- *Rhus integrifolia* (lemonade berry)
- *Ribes aureum* var. *gracillimum* (golden currant)
- *Rosa californica* (California rose)
- *Rubus ursinus* (California blackberry)
- *Sambucus mexicana* (Mexican elderberry)

- *Salix exigua* (narrow-leaved willow)
- *Salix goodingii* (black willow)
- *Salix lasiolepis* (arroyo willow)
- *Salix lavigata* (red willow)
- *Yucca whipplei* (our Lord's candle or chaparral yucca)

Reach Five

- *Amorpha fruticosa* (false indigo)
- *Artemisia californica* (California sagebrush)
- *Artemisia douglasiana* (mugwort)
- *Baccharis pilularis* (coyote brush)
- *Baccharis salicifolia* (mule fat)
- *Brickellia californica* (California bricklebrush)
- *Ceanothus sp.* (California lilac)
- *Elymus condensatus* (giant wild rye)
- *Eriogonum fasciculatum* var. *foliolosum* (California buckwheat)
- *Eriophyllum confertiflorum* (golden yarrow)
- *Heteromeles arbutifolia* (toyon)
- *Juglans californica* (California walnut)
- *Lasthenia californica* (California goldenfields)
- *Layia platyglossa* (tidy-tips)
- *Lessingia filaginifolia* var. *filaginifolia* (California aster)
- *Lotus scoparius* (deer weed)
- *Lupinus bicolor* (miniature lupine)
- *Malosma laurina* (laurel sumac)
- *Melica imperfecta* (Coast Range melic)
- *Mimulus aurantiacus* (bush monkeyflower)
- *Nassella cernua* (nodding needlegrass)

- *Nassella pulchra* (purple needlegrass)
- *Platanus racemosa* (western sycamore)
- *Populus fremontii* (Fremont's cottonwood)
- *Prunus ilicifolia* ssp. *ilicifolia* (hollyleaf cherry)
- *Quercus agrifolia* (coast live oak)
- *Rhamnus crocea* (spiny redberry)
- *Rhus integrifolia* (lemonade berry)
- *Ribes aureum* var. *gracillimum* (golden currant)
- *Rosa californica* (California rose)
- *Rubus ursinus* (California blackberry)
- *Sambucus mexicana* (Mexican elderberry)
- *Salix exigua* (narrow-leaved willow)
- *Salix goodingii* (black willow)
- *Salix lasiolepis* (arroyo willow)
- *Salix lavigata* (red willow)
- *Yucca whipplei* (our Lord's candle or chaparral yucca)

Reach Six

- *Amorpha fruticosa* (false indigo)
- *Artemisia californica* (California sagebrush)
- *Artemisia douglasiana* (mugwort)
- *Baccharis pilularis* (coyote brush)
- *Baccharis salicifolia* (mule fat)
- *Ceanothus sp.* (California lilac)
- *Elymus condensatus* (giant wild rye)
- *Eriogonum fasciculatum* var. *foliolosum* (California buckwheat)
- *Eriophyllum confertiflorum* (golden yarrow)
- *Heteromeles arbutifolia* (toyon)

- *Lasthenia californica* (California goldenfields)
- *Layia platyglossa* (tidy-tips)
- *Lessingia filaginifolia* var. *filaginifolia* (California aster)
- *Lotus scoparius* (deer weed)
- *Lupinus bicolor* (miniature lupine)
- *Malosma laurina* (laurel sumac)
- *Mimulus aurantiacus* (bush monkeyflower)
- *Nassella cernua* (nodding needlegrass)
- *Nassella pulchra* (purple needlegrass)
- *Platanus racemosa* (western sycamore)
- *Populus fremontii* (Fremont's cottonwood)
- *Quercus agrifolia* (coast live oak)
- *Rhamnus crocea* (spiny redberry)
- *Rhus integrifolia* (lemonade berry)
- *Rosa californica* (California rose)
- *Rubus ursinus* (California blackberry)
- *Sambucus mexicana* (Mexican elderberry)
- *Salix exigua* (narrow-leaved willow)
- *Salix goodingii* (black willow)
- *Salix lasiolepis* (arroyo willow)
- *Salix lavigata* (red willow)
- *Yucca whipplei* (our Lord's candle or chaparral yucca)

Reach Seven

- *Amorpha fruticosa* (false indigo)
- *Artemisia californica* (California sagebrush)
- *Artemisia douglasiana* (mugwort)
- *Baccharis pilularis* (coyote brush)

- *Baccharis salicifolia* (mule fat)
- *Ceanothus sp.* (California lilac)
- *Elymus condensatus* (giant wild rye)
- *Eriogonum fasciculatum* var. *foliolosum* (California buckwheat)
- *Eriophyllum confertiflorum* (golden yarrow)
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- *Lupinus bicolor* (miniature lupine)
- *Malosma laurina* (laurel sumac)
- *Mimulus aurantiacus* (bush monkeyflower)
- *Nassella cernua* (nodding needlegrass)
- *Nassella pulchra* (purple needlegrass)
- *Platanus racemosa* (western sycamore)
- *Populus fremontii* (Fremont's cottonwood)
- *Quercus agrifolia* (coast live oak)
- *Rhus integrifolia* (lemonade berry)
- *Rosa californica* (California rose)
- *Rubus ursinus* (California blackberry)
- *Sambucus mexicana* (Mexican elderberry)
- *Salix exigua* (narrow-leaved willow)
- *Salix goodingii* (black willow)
- *Salix lasiolepis* (arroyo willow)
- *Salix lavigata* (red willow)

appendix C Design Guideline Topic Areas

Many of the design guidelines developed for the Los Angeles River should be applicable to the San Gabriel River. During implementation of the San Gabriel River Corridor Master Plan, it is envisioned that the Steering Committee will assess the design guidelines developed for the Los Angeles River and will adapt them to the San Gabriel River corridor. The following comprises a list of topic areas to be covered in the functional design guidelines that will be prepared for the San Gabriel River Master Plan as separate technical appendices. These topic areas are derived from the three design guideline manuals prepared for the Los Angeles River Master Plan:

Landscaping Guidelines and Plant Palettes

- Landscape Design Considerations
- Land Use and Maintenance Standards
- River Planting Guidelines
 - ◆ Site Characterization
 - ◆ Design Following Site Characterization
 - ◆ Design with Native Plants
 - ◆ Planting Patterns, Density, and Setback Guidelines
 - ◆ Species and Structural Density
 - ◆ Existing Landscape Plants
 - ◆ Gateways
 - ◆ Plants That Should Never Be Planted Along the River
 - ◆ Plant Community Lists
- Site Preparation Guidelines
 - ◆ Capture and Infiltration of Rainfall
 - ◆ Weed Abatement
 - ◆ Soil Amendment
- Landscape Planting Guidelines
 - ◆ Contract Collecting and Growing
 - ◆ Container Plant Sizes and Installation Guidelines
 - ◆ Installation Schedule
 - ◆ Seed Planting
- Landscape Maintenance Guidelines
 - ◆ Supplemental Irrigation
 - ◆ Extended Maintenance Program
 - ◆ Pruning and Removal of Plants
 - ◆ Weeding and Supplemental Mulching
- Hardscape Elements
 - ◆ Fences and Gates
 - ◆ Lighting
 - ◆ Benches
 - ◆ Seatwalls
 - ◆ Trash Receptacles
 - ◆ Bicycle Racks
 - ◆ Drinking Fountains
 - ◆ Trails and Paths
 - ◆ Signs
- Landscaping Maintenance and Operations
 - Los Angeles County Flood Control District Maintenance Standards
 - Irrigation System Management
 - Weed Management

- Tree Maintenance
- Shrub Maintenance
- Groundcover Maintenance
- Wildflower and Meadow Maintenance
- Grass, Sedge, and Yarrow Management
- Vine Maintenance
- Litter Control
- Hardscape, Site Furnishings, and Graffiti
- Soils Testing, Fertilization, and Mulch
- Pest Management
- Green Waste Management

Sign Guidelines

- Use and Purpose of Sign Guidelines
- Standard Design Elements
- Design Specifications
- Installation and Maintenance

appendix D Program EIR Summary

A Program Environmental Impact Report (Program EIR) was released for public review and comment in conjunction with the Draft San Gabriel River Corridor Master Plan. The Program EIR is intended to streamline the environmental review and documentation process for stakeholders proposing projects in the river corridor. The document is available for review at County offices in Alhambra and on the County website: <http://ladpw.org/pln/sgrmp/>

CEQA Requirements

Pursuant to the California Environmental Quality Act (CEQA), discretionary decisions by public agencies regarding certain public and private projects are subject to environmental review. The San Gabriel River Corridor Master Plan must comply with CEQA because it is a “project” as defined by Section 15378 of the State CEQA Guidelines.

LADPW has prepared a Program EIR in compliance with the CEQA Statutes (Public Resources Code Section 21000 *et. seq.*) and the State CEQA Guidelines (Title 14, California Code of Regulations Section 15000 *et. seq.*) as amended.

The purpose of the Program EIR is to:

1. Fully disclose to the project’s decision-makers, responsible agencies, interested parties, and to the general public the significant or potentially significant environmental effects of implementing the proposed project;
2. Identify possible ways to avoid or reduce those impacts; and
3. Describe reasonable alternatives to the proposed project.

Program EIR Approach

The San Gabriel River Corridor Master Plan is a set of policies and actions to increase open space, habitat and recreation in the San Gabriel River corridor. The Program EIR considers the environmental impacts, mitigation measures and alternatives of the proposed Master Plan as a whole. This approach avoids duplication, allows the lead agency to consider broad policy alternatives and mitigation measures at an early time when there may be more flexibility to address the issues, and addresses cumulative impacts that might be overlooked in a project-level EIR.

Program EIRs are broader and contain less detail than Project EIRs. That’s because specific sites and/or construction and operation plans have not been determined. The level of detail in the impact analysis reflects the level of detail in the project description. Based on preliminary planning, more detailed environmental analysis is provided for the two County-sponsored Concept Design Studies (San Gabriel Canyon Spreading Grounds and Lario Creek) and three other Concept Design Studies (Woodland Duck Farm, El Dorado Regional Park Wetlands and San Gabriel River Discovery Center at Whittier Narrows Regional Park).

As the Concept Design Studies are proposed for implementation, project proponents would review the Program EIR and determine if it sufficiently analyzes the environmental effects of the individual project. If the subsequent activity would have effects not covered by the Program EIR, a second-tier CEQA document (a Negative Declaration or an EIR) would then be prepared. For other projects within the Master Planning area, the Program EIR provides data on existing conditions, CEQA thresholds of significance, possible mitigation measures, and future analyses expected to be required.

EIR Process

Notice of Preparation

LADPW filed a Notice of Preparation (NOP) for this Program EIR with the State Clearinghouse in April 2003. It was distributed to responsible agencies and interested parties for a 30-day review and comment period, ending May 28, 2003. LADPW received 21 comment letters on the NOP. CEQA related comments were also received during the CEQA scoping meeting held at LADPW offices in Alhambra on May 12, 2003. The comments received related to surface and groundwater quality, flood control, water rights, mineral resources, construction impacts on utilities, traffic/transportation facilities, recreational facilities (e.g., bike trails), and effects on public health (creation of habitat for mosquitoes and other vectors).

Program EIR Public Review

Following publication of the Draft Program EIR, there will be a public review and comment period during which LADPW will accept written comments on the document. LADPW will hold a public meeting on the Draft Program EIR, at which time other agencies, interested parties and the public will be invited to orally comment on the document. Written and oral comments which raise environmental issues will be responded to, and the comments and responses will be published in a document entitled Final Program Environmental Impact Report (Final Program EIR).

Following its publication, the Final Program EIR will be certified by the County of Los Angeles Board of Supervisors prior to adoption of the San Gabriel River Corridor Master Plan and the Mitigation Monitoring and Reporting Plan.

Scope of the EIR

Based on a preliminary analysis of environmental issues associated with the project and comments received on the NOP, LADPW concluded that the proposed project has the potential to have impacts on the following environmental issues:

- Air quality
- Biological resources
- Cultural resources
- Geology and soils
- Hazards and hazardous materials
- Hydrology and water quality
- Land use
- Noise
- Public services and utilities
- Recreation
- Transportation and traffic

Based on the preliminary analysis, LADPW determined that the proposed project would have no or negligible impacts on the environmental issues listed below. Therefore, these environmental issues have been excluded from analysis in the Program EIR.

- Agricultural resources
- Population and housing (growth inducing impacts are addressed in Section 6 of the EIR.)

Areas of Known Controversy

In the course of preparation of the San Gabriel River Corridor Master Plan and the Program EIR, the following issues of concern have been identified and are addressed in the Program EIR:

- Potential effects on existing flood control facilities and capacities associated with actions involving modification of the river channel
- Potential effects on surface and groundwater rights associated with actions involving groundwater recharge or surface diversions
- Potential effects on public health from increase in mosquito-breeding conditions associated with creation of constructed wetlands or other surface water features

Organization of the Program EIR

The Program EIR is organized in six major sections.

SECTION 1—SUMMARY. A summary of the contents of the Program EIR.

SECTION 2—INTRODUCTION. Background, project objectives, lead agency identification, the purpose and overview of the EIR process, scope of the Program EIR, responsible agencies and approvals, and areas of known controversy.

SECTION 3—PROJECT DESCRIPTION. Project location, and descriptions of the Concept Design Studies, and Master Plan policies.

SECTION 4—ENVIRONMENTAL SETTING, IMPACTS AND MITIGATION MEASURES. Description of the environmental setting, criteria for determining impact significance, analysis of project-related impacts, description of mitigation measures for each environmental topic, and summary of future analyses.

SECTION 5—CUMULATIVE IMPACTS. A discussion of past, present and reasonably anticipated future activities that could add impacts to those of the proposed project.

SECTION 6—ADDITIONAL CEQA ANALYSIS. Additional analyses required by CEQA, including a discussion of the impacts of project alternatives, irreversible environmental changes, unavoidable environmental impacts, growth-inducing impacts, and consistency with regional and local planning.

APPENDICES. A list of references, acronyms and abbreviations, glossary, organizations and persons consulted, and preparers of the Program EIR; NOP and comments received; and the technical materials and data supporting the air quality and cultural resources analyses presented in the Draft Program EIR.

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