



**US Army Corps
of Engineers®**
Los Angeles District

Los Angeles River Ecosystem Restoration Feasibility Study

**DRAFT – APPENDIX H
Supplemental Information**

September 2013

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Table H-1 Special Status Plant Species in the Greater Los Angeles Basin

Scientific Name	Common Name	Status Fed/State/ CNPS ¹	Habitat Requirements and Probability of Occurrence in Study Area ²
<i>Acmispon argophyllus</i> var. <i>adsurgens</i>	San Clemente Island bird's-foot trefoil	NA/CE/ CNPS 1B	Coastal bluff scrub, coastal scrub. Not expected. Minimal suitable habitat onsite.
<i>Acmispon dendroideus</i> var. <i>traskiae</i>	San Clemente Island lotus	FE/CE/ CNPS 1B	Coastal bluff scrub, coastal scrub, valley and foothill grassland. Not expected. Some suitable habitat onsite.
<i>Arenaria paludicola</i>	Marsh sandwort	FE/CE/ CNPS 1B	Freshwater marsh, marsh and swamp, wetland. Not expected. Some suitable habitat onsite.
<i>Astragalus brauntonii</i>	Braunton's milk-vetch	FE/NA/ CNPS 1B	Coniferous forest, chaparral, coastal scrub, valley and foothill grasslands. Not expected. Some suitable habitat onsite.
<i>Astragalus pycnostachyus</i> var. <i>lanosissimus</i>	Ventura Marsh milk-vetch	FE/CE/ CNPS 1B	Marsh and swamp, salt marsh, wetland. Not expected. Some suitable habitat onsite.
<i>Astragalus tener</i> var. <i>titi</i>	Coastal dunes milk-vetch	FE/CE/ CNPS 1B	Coastal bluff scrub, coastal dunes. Not expected. Minimal suitable habitat onsite.
<i>Berberis nevinii</i>	Nevin's barberry	FE/CE/ CNPS 1B	Chaparral, cismontane woodland, coastal scrub, riparian scrub. Not expected. Some suitable habitat onsite.
<i>Brodiaea filifolia</i>	Thread-leaved brodiaea	FT/CE/ CNPS 1B	Vernal pools. Not expected. No suitable habitat onsite.
<i>Chorizanthe parryi</i> var. <i>fernandina</i>	San Fernando Valley spineflower	FC/CE/ CNPS 1B	Coastal scrub, sandy soils. Elevation 3 – 1035 meters. Not expected. Minimal suitable habitat onsite.
<i>Delphinium variegatum</i> ssp. <i>kinkiense</i>	San Clemente Island larkspur	FE/CE/ CNPS 1B	Valley and foothill grassland. Not expected. Some suitable habitat onsite.
<i>Dithyrea maritima</i>	Beach spectaclepod	NA/CT/ CNPS 1B	Coastal dunes, coastal scrub. Not expected. Minimal suitable habitat onsite.
<i>Dodecagema leptoceras</i>	Slender-horned spineflower	FE/CE/ CNPS 1B	Chaparral, coastal scrub, alluvial sage scrub. Not expected. Minimal suitable habitat onsite.
<i>Dudleya cymosa</i> ssp. <i>agourensis</i>	Agoura Hills dudleya	FT/NA/ CNPS 1B	Chaparral, cismontane woodland. Not expected. No suitable habitat onsite.
<i>Dudleya cymosa</i> ssp. <i>marcescens</i>	Marcescent dudleya	FT/CR/ CNPS 1B	Chaparral. Not expected. No suitable habitat onsite.
<i>Dudleya cymosa</i> ssp. <i>ovatifolia</i>	Santa Monica dudleya	FT/NA/ CNPS 1B	Chaparral, coastal scrub. Not expected. Minimal degraded habitat onsite.
<i>Dudleya verityi</i>	Verity's dudleya	FT/NA/NA	Chaparral, Foothill Woodland, Coastal Sage Scrub. Not expected. Some degraded habitat onsite.
<i>Galium catalinense</i> ssp. <i>acrispum</i>	San Clemente Island bedstraw	NA/CE/ CNPS 1B	Valley and foothill grassland. Not expected. Some degraded habitat onsite.

Scientific Name	Common Name	Status Fed/State/ CNPS ¹	Habitat Requirements and Probability of Occurrence in Study Area ²
<i>Helianthemum greenei</i>	Island rush-rose	FT/NA/ CNPS 1B	Chaparral. Not expected. No suitable habitat onsite.
<i>Malacothamnus clementinus</i>	San Clemente Island bush-mallow	FE/CE/ CNPS 1B	Valley and foothill grassland. Not expected. Some degraded habitat onsite.
<i>Nasturtium (Rorippa) gambelii</i>	Gambel's water cress	FE/CT/ CNPS 1B	Brackish marsh, freshwater marsh, marsh and swamp, vernal pool, wetland. Not expected. Some suitable habitat onsite.
<i>Navarretia fossalis</i>	Spreading navarretia	FT/NA/ CNPS 1B	Vernal pools, chenopod scrub, marshes and swamps, wetland, playa. Not expected. Some suitable onsite.
<i>Orcuttia californica</i>	California Orcutt grass	FE/CE/ CNPS 1B	Vernal pool, wetland. Not expected. Some suitable habitat onsite.
<i>Pentachaeta lyonii</i>	Lyon's pentachaeta	FE/CE/ CNPS 1B	Chaparral, valley and foothill grassland. Not expected. Some degraded habitat onsite.
<i>Phacelia stellaris</i>	Brand's star phacelia	FC/NA/ CNPS 1B	Coastal dunes, coastal scrub. Not expected. Minimal degraded habitat onsite.

1 Status: USFWS: FE – Federal Endangered, FT – Federal Threatened, FC- Federal Species of Concern, NA – Not Applicable CDFG: CE – California Endangered, CT – California Threatened, CC – California Species of Special Concern, CR – California Rare, NA – Not Applicable. CNPS: 1A – Plants presumed extinct in California, 1B – Plants rare, threatened, or endangered in California, and elsewhere, NA – Non Applicable.

2 Probability to Occur Onsite: High – Observed in similar habitat in region, or habitat on the site is a type often utilized by the species and the site is within the known range of the species. Moderate – Reported sightings in surrounding region, or site is within the known range of the species and habitat on the site is a type occasionally used by the species. Low – Site is within the known range of the species but habitat on the site is rarely used by the species. Not Expected – A focused study failed to detect the species, or, no suitable habitat present.

Table H-2 Special Status Animal Species in the Greater Los Angeles Basin

Scientific Name	Common Name	Status Federal/ State ¹	Habitat Requirements Probability of Occurrence in Study Area ²
<i>Ammospermophilus nelsoni</i>	Nelson's antelope squirrel	NA/CT	Chenopod scrub. Not expected. No suitable habitat onsite.
<i>Amphispiza belli clementeae</i>	San Clemente sage sparrow	FT/NA	Coastal scrub. Not expected. Minimal degraded habitat onsite.
<i>Anaxyrus (Bufo) californicus</i>	Arroyo toad	FE/NA	Desert wash, riparian scrub, riparian woodland, south coast flowing waters, south coast standing waters. Not expected. Some suitable habitat onsite.
<i>Branchinecta lynchi</i>	Vernal pond fairy shrimp	FT/NA	Vernal pools. Not expected. No suitable habitat onsite.
<i>Buteo swainsoni</i>	Swainson's hawk	NA/CT	Great Basin grassland, riparian forest, riparian woodland, valley and foothill grassland. Not expected. Some degraded habitat onsite
<i>Catostomus santaanae</i>	Santa Ana sucker	FT/NA	South coast flowing waters. Not expected. Some degraded habitat onsite.
<i>Charadrius alexandrinus nivosus</i>	Western snowy plover	FT/NA	Great Basin standing waters, sand shore, wetland Not expected. Some suitable habitat onsite.
<i>Coccyzus americanus occidentalis</i>	Western yellow-billed cuckoo	FC/CE	Riparian woodlands. Not expected. Some suitable habitat onsite.
<i>Dipodomys merriami parvus</i>	San Bernardino kangaroo rat	FE/NA	Coastal scrub. Not expected. Minimal degraded habitat onsite.
<i>Empidonax traillii extimus</i>	Southwestern willow flycatcher	FE/CE	Riparian woodlands. Low. quality suitable habitat onsite.
<i>Euphilotes battoides allyni</i>	El Segundo blue butterfly	FE/NA	Coastal dunes. Not expected. Minimal degraded habitat onsite.
<i>Euphydryas editha quino</i>	Quino checkerspot butterfly	FE/NA	Coastal scrub. Not expected. Minimal degraded habitat onsite.
<i>Gasterosteus aculeatus williamsoni</i>	Unarmored threespine stickleback	FE/CE	South coast flowing waters. Not expected. Some degraded habitat onsite.
<i>Glaucopsyche lygdamus palosverdesensis</i>	Palos Verdes blue butterfly	FE/NA	Coastal scrub. Not expected. Minimal degraded habitat onsite.
<i>Gymnogyps californianus</i>	California condor	FE/CE	Valley and foothill grassland. Not expected. Some degraded habitat onsite.
<i>Lanius ludovicianus mearnsi</i>	San Clemente loggerhead shrike	FE/NA	Coastal scrub. Not expected. Minimal degraded habitat onsite.

Scientific Name	Common Name	Status Federal/ State ¹	Habitat Requirements Probability of Occurrence in Study Area ²
<i>Laterallus jamaicensis coturniculus</i>	California black rail	NA/CT	Brackish marsh, freshwater marsh, marsh and swamp, salt marsh, wetland. Not expected. Some degraded habitat onsite.
<i>Oncorhynchus mykiss irideus</i>	Southern steelhead - southern California DPS	FE/NA	Aquatic, south coast flowing waters. Not expected. Some degraded habitat onsite.
<i>Passerculus sandwichensis beldingi</i>	Belding's savannah sparrow	NA/CE	Marsh and swamp, wetland. Not expected. Some degraded habitat onsite.
<i>Perognathus longimembris pacificus</i>	Pacific pocket mouse	FE/NA	Coastal scrub. Not expected. Minimal degraded habitat onsite.
<i>Polioptila californica californica</i>	Coastal California gnatcatcher	FT/NA	Coastal bluff scrub, coastal scrub. Low. Minimal degraded habitat onsite.
<i>Rana draytonii</i>	California red-legged frog	FT/NA	Aquatic, artificial flowing waters, artificial standing waters, freshwater marsh, riparian forest or scrub, riparian woodland, south coast flowing water, south coast standing waters, wetland. Not expected. Some degraded habitat onsite.
<i>Rana muscosa</i>	Sierra Madre yellow-legged frog	FE/CC	Aquatic. Not expected. Some degraded habitat onsite.
<i>Riparia riparia</i>	Bank swallow	NA/CT	Riparian scrub, riparian woodland. Not expected. Some suitable habitat onsite.
<i>Sternula antillarum browni</i>	California least tern	FE/CE	Wetland. Not expected. Some degraded habitat onsite.
<i>Streptocephalus woottoni</i>	Riverside fairy shrimp	FE/NA	Vernal pools, ponds, and other ephemeral pool-like bodies of water. Not expected. No suitable habitat onsite.
<i>Vireo bellii pusillus</i>	Least Bell's vireo	FE/CE	Riparian forest, riparian scrub, riparian woodland. HIGH. Low quality suitable habitat onsite.
<i>Xerospermophilus mohavensis</i>	Mohave ground squirrel	NA/CT	Chenopod scrub. Not expected. No suitable habitat onsite.

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Table H-3 Recreational Resources in the Study Area

Name	Type, Location	Amenities
Bette Davis Picnic Area	Public, Los Angeles	Picnicking, walking, jogging, viewing
Chevy Chase Park and Recreation Center	Public, Los Angeles	Playground, basketball, handball, gym, picnicking, auditorium, pool
Crystal Springs Picnic Area	Public, Los Angeles	Picnicking
Ferraro Soccer Fields	Public, Los Angeles	Soccer fields
Griffith Park	Public, Los Angeles	Amphitheatre, bird sanctuary, camping, educational programming, equestrian, golf, hiking, jogging, museum, observatory, picnicking, soccer, swimming, tennis
Harding Golf Course	Public, Los Angeles	18-hole golf course
Lincoln Park	Public, Burbank	Playground, picnicking
Los Angeles Equestrian Center	Private, Los Angeles	Boarding stalls, training rings, indoor/outdoor show arenas, grass fields, riding academy, professional trainers, equestrian trails
Los Angeles Zoo	Public, Los Angeles	Municipal zoo and botanical gardens
Los Feliz Golf Course	Public, Los Angeles	9-hole golf course
Milford Mini Park	Public, Glendale	Playground, picnicking
Mountain View Park	Public, Burbank	Playground, restrooms, picnicking, tennis, basketball, horseshoe
North Atwater Park	Public, Los Angeles	Baseball, basketball, playground, volleyball, restrooms
Pelanconi Park	Public, Glendale	Ballfield, basketball, playground, picnicking, special facilities
Roosevelt Municipal Golf Course	Public, Los Angeles	9-hole golf course
Wilson Golf Course	Public, Los Angeles	18-hole golf course
Chavez Ravine Arboretum	Public, Los Angeles	Picnicking, playground, restrooms
Egret Park	Public, Los Angeles	Viewpoint, plantings, interpretive signage
Elysian Park	Public, Los Angeles	Walking, hiking, jogging, restrooms, picnicking, horseshoe, arboretum, baseball, sports field, therapeutic center, lodge, art exhibits, historical monument, community garden, playground
Elysian Valley Gateway Park	Public, Los Angeles	Plantings, benches, River access, picnicking
Elysian Valley Recreation Center	Los Angeles	Community rooms, auditorium, baseball, basketball, playground, handball
Glenhurst Park	Public, Los Angeles	Playground
Oso Park	Public, Los Angeles	Plantings, art, interpretive signage
Marsh Park	Public, Los Angeles	River access, viewing, picnicking, grass field, playground, infiltration area
Rattlesnake Park	Public, Los Angeles	Art exhibit, plantings, benches
Rio De Los Angeles State Park	Public, Los Angeles	Natural wetlands, hiking trails, sports fields, playground, recreation building
River Garden Park	Public, Los Angeles	Fountain, benches, picnicking, lawn area, restrooms
Silver Lake Recreation Center	Public, Los Angeles	Playground, community room, gym, picnicking, sports field, walking, jogging trails, classes, summer camps
Steelhead Park	Public, Los Angeles	Plantings, outdoor amphitheater
Sunnynook Park (under construction)	Public, Los Angeles	Plantings, walking paths, outdoor classroom
William Mulholland Memorial	Public, Los Angeles	Memorial fountain, seating, grass area

Chavez Ridge Disc Golf Course	Public, Los Angeles	18-hole course, restrooms
Confluence Park	Public, Los Angeles	Fountain, benches, plantings,
Dodger Stadium	Private, Los Angeles	Professional baseball stadium
Downey Recreation Center	Public, Los Angeles	Auditorium, baseball, playground, picnicking
Lacey Street Neighborhood Park	Public, Los Angeles	Picnicking, parking lot
Los Angeles Historic State Park	Public, Los Angeles	Walking, jogging, cycling paths, picnicking, natural and urban viewing, multipurpose field, restrooms, telescopes
Pecan Recreation Center	Public, Los Angeles	Baseball, playground, community room, handball, gym, picnicking, restrooms, seasonal pool, volleyball
Radio Hill Gardens	Public, Los Angeles	Trails, plantings, viewing
Solano Canyon Community Garden	Public, Los Angeles	Community gardening, picnicking

Sources: LARRC 2011c. City of Los Angeles 2012c, 2012d, 2012e. CDPR 2012a, 2012b, Linton 2012, PDGA 2012. Sources: SMMC & MRCA 2007. LARRC 2011c. City of Los Angeles 2012c, 2012d, 2012e, CDPR 2012a, 2012b, Linton 2012. Sources: City of Burbank 2012c, City of Glendale 2012c, 2012d, City of Los Angeles 2012c, 2012d, and 2012e.

Table H-4 Lands Screened from the Project Area

Name	Description
Equestrian Center	<p>The current uses of the 75-acre world class horse show complex and equestrian center along the river are an important recreational activity in the local community that, because of various urban land use constraints, cannot occur elsewhere. In addition to hosting shows at least 45 days a year, the center is a location frequently used for local community meetings, banquets, and weddings. Its over 500 boarding stalls, 17 trainers, tack shop, and equestrian gift shop are heavily used. The site is often used as a movie location as well. Many of those who use the facility have chosen to live in that area because of the center’s location. Relocation to an area with equal access to Griffith Park and the Santa Monica Mountains is not possible. This nexus is important because of the intense urbanization of the Los Angeles area which is not conducive to horseback riding activities. Conversion of the Equestrian Center parcel to include a riparian area or detention basin was considered publicly unacceptable because it would be obtained at the expense of the long-standing equestrian community use that is virtually irreplaceable. A thin strip in the current right-of-way may be available for a riparian corridor. The preliminary cost-benefit analysis confirmed that the costs associated with moving/ relocating/ cleaning/ preparing/ redeveloping the site for use as an underground basin would not provide substantial local benefits and could not accommodate the retention of enough peak flows (in isolation or combination with other river-adjacent sites) to facilitate meaningful restoration downstream.</p>
Bette Davis Park Restoration to River Level	<p>Measures, such as bringing the entire park down to river level, reestablishing geomorphology through the park area, establishing open water areas, creating side channels through the park with freshwater marsh wetlands and habitat corridors, lowering channel banks and protecting them with setback levees, were screened out for implementation on the entire site. The park currently has relatively dense tree cover and provides functioning habitat for avian and small-scale terrestrial species. Given that it could be relatively easily connected to the restored riparian corridor as envisioned in the Study with minimal disruption to the existing park, the decision was made to preserve much of this scarce resource while including a portion for restoration along the river’s edge.</p>
Ferraro Fields	<p>The current use of Ferraro Fields for soccer is an important recreational activity in the local community. The community fought for years to locate the facility in the area. The present use of the site is important because of a lack of open space options that could/can be used for more intensive recreation (additional soccer fields were and are not supported within Griffith Park and the proximity to freeway access was and is deemed critical). While conversion of all of the parcel to a riparian area, lowering it to become a part of the riverbed, or conversion to a detention basin with riparian habitat is considered publicly-unacceptable, a strip in the current right-of-way may be available for a riparian corridor and a side channel with a riparian fringe along the outer edge may be possible and will continue to be considered in the alternatives. Because of the importance of soccer facilities to residents of communities that are considered to have been historically-underserved from a lack of access to such recreational amenities, retention of this area for soccer use is considered an environmental justice issue. A portion of Ferraro Fields would be used in project alternatives, but use of the entire parcel is not feasible.</p> <p>Throughout the two-year development and implementation of the City’s LA River Revitalization Master Plan, numerous groups expressed interest in creating new soccer facilities at/near the river, including Anahuak Youth Soccer Association, The City Project, and the Alianza de los Pueblos del Rio. In general soccer playing is discouraged in open spaces because of the damage to grass and potential conflicts with other uses—such as habitat establishment/restoration. Soccer is also a very popular activity for populations that have been historically underserved in terms of access to natural and recreational spaces in LA, so there is an environmental justice component.</p>

Name	Description
	<p>Therefore, it is important to balance the availability of resources and accommodate established soccer-playing facilities in close proximity to the river and multiple modes of transportation in a way that also facilitates connections to natural open space resources—reducing negative interaction effects as much as is possible. Given the established use of Ferraro Fields for soccer and the ability of the river’s ecosystem restoration to benefit from an off-stream channel near the Fields, the compatible use scenario was chosen so as not to displace/disrupt an established recreational use that could not be replaced as part of the ecosystem project. However, a portion of this site would be available to use for the restoration project without impacting the soccer fields.</p>
<p>Zoo Parking Lot Habitat Corridor</p>	<p>This real estate was determined to be unavailable to the project because an extensive City-sponsored storm water/water quality project was recently completed in the same area and the parking itself is necessary to support activity at the zoo, the Autry Museum of Western Heritage, and other nearby uses in Griffith Park. Disruption of the parking was not considered to be feasible given the high demand for use by visitors to these important regional amenities. Moreover, the site is separated from the river by the I-5 freeway and any diversions would require costly infrastructure, including tunnels, and extensive, expensive channel modifications at the access point/s. The site remains potentially useful as a shared parking facility to accommodate future visitors to the Study area.</p>
<p>Griffith Park Golf Course</p>	<p>This real estate was determined to be unavailable to the project because of the overall cost of the extensive infrastructure that would be required to bring off-channel flows to the course from the river, the considerable modifications that would be made to the I-5 Freeway, and the substantial disruption of use at a heavily-used facility. Preliminary analysis indicated that the peak flow reduction accommodated by the off stream flows and use as an underground basin would be negligible in accommodating additional habitat in the downstream channel even though the local habitat connection could be meaningful. This area has been designated a Significant Ecological Area (SEA) for the City of Los Angeles and the open space has extensive tree cover. It remains important for avian species and is a reservoir for native species, but near term hydrologic/hydraulic connections were deemed too expensive and extensive given the freeway and utility infrastructure barriers and opportunity costs associated with the disrupted use. However, a side channel using existing tunnels/culverts under the freeway was feasible at this site and is included in the remaining measures.</p>
<p>Department of Recreation and Parks Central Service Yard</p>	<p>The Central Service Yard (CSY) is a 24.6 acre site owned by the City of Los Angeles Department of Recreation and Parks (RAP) located on the eastern bank of the Los Angeles (LA) River. It is situated across from Griffith Park and upstream of North Atwater Park. It was considered as a potentially-available property in initial plan formulation of the Los Angeles River Ecosystem Restoration Feasibility Study (Study), but the CSY was subsequently deemed infeasible for inclusion in the Study because of the prohibitive costs associated with relocating and replicating its current uses elsewhere.</p> <p>The CSY is the primary support facility and service yard for RAP and services the entire recreation and park system of the City of Los Angeles (City). The CSY houses irreplaceable uses of vital necessity to the operation and maintenance of all parks and recreation facilities in the City. The CSY is centrally located within the City and provides RAP with quick, trouble-free access to the region’s major north-south and east-west highways. The centralized location of the CSY permits RAP a number of positive operational and budgetary efficiencies, which are of increasing benefit to the City given the ongoing fiscal and budgetary challenges it continues to face.</p> <p>In December 2012, the City conducted an initial analysis of the cost and feasibility of relocating the functions of the CSY to other parcels currently for sale in Los Angeles</p>

Name	Description
	<p>County. From this investigation, the City estimates that the cost of purchasing new land would be approximately \$70-110 million, and the cost to construct new facilities and relocate the existing uses would be approximately \$130-140 million, yielding a total cost of approximately \$200-250 million.</p> <p>Moreover, no available parcel was identified that is large enough to accommodate the existing uses in one place, and the largest available parcels are not located in areas of the City that are as advantageously located as CSY. Until a location of acceptable size and proximity is identified to facilitate the relocation of the CSY's functions, it must continue to support its current uses. In the near-term, a linear habitat corridor along the river's edge that does not encroach upon the site remains a feasible option for inclusion in the Study.</p>
Albion Dairy	<p>This location was eliminated because of current plans and agreements already in place to use this site for storm water quality treatment, which would preclude bringing river water into the site. This site was purchased under agreements for this specific use. Moreover, hydrologic/hydraulic connections between the site and the river are complicated by existing at-grade railroad tracks. Whereas connections at/under rail tracks remain desirable in other locations, such as the Cornfield/LA State Historic Park and the Piggyback Yard, the connection at this site is less feasible given the much smaller amount of ecosystem restoration that would be accomplished at/near/on the Albion site.</p>
DWP/Main Street Facility	<p>This real estate was determined to be unavailable to the project because of the costs associated with moving/relocating/cleaning/preparing/redeveloping the site for the ecosystem use. New use of the entire site would drastically impact existing City service provision and current rail uses and would require an extremely expensive and logistically undesirable relocation of a power transmission station. The approximately 3-acre parking lot on the river-side of the rail tracks could function as a linear habitat corridor and buffer along the river's edge next to the site and therefore this remains a viable option.</p>
Metro Union Bus Service Yard (Division 13 Bus Maintenance Facility)	<p>Along the river's western bank near Union Station across from Piggyback Yard was not considered because it is a property belonging to the Los Angeles County. The County recently invested over \$1 million to renovate and expand the facility for bus maintenance and storage. The County has been clear that it is unwilling due to economic considerations to consider selling the property for expansion of Union Station, high speed rail, or ecosystem restoration purposes, because of the costs associated with moving and relocating the recently upgraded facilities. The site is under the ownership/control of others, therefore, it was considered unavailable.</p>
Area with Restoration Benefits and Opportunities for Revitalization (ARBOR) Outlet	<p>Terrace, Remove Concrete, and Create Habitat Corridor. This reach is constrained by a series of active and parallel rail lines along both sides of the river. The bridges are critical locations for conveying flow through this area. Removal of concrete requires alternate measures to offset the loss in conveyance. Modifications to this area of the river were determined to be infeasible because of extensive rail and roadway infrastructure and because it may need to be used as a transition between any restoration and the downstream flood risk management project.</p>
Consolidated North Central District Yard.	<p>The Consolidated North Central District Yard (CNC DY) is a 10 acre site owned by the City of Los Angeles. It is located on the south bank of the Arroyo Seco and upstream of the confluence with the LA River. It was considered as a potentially-available property in initial plan formulation of the Study but was subsequently deemed infeasible for inclusion in the Study because of the prohibitive costs associated with relocating and replicating its current uses elsewhere. Past investigations have yielded a necessity to locate the uses of the CSY near Griffith Park because they serve Park operations and maintenance functions. To preserve the natural open space value of the Park, the Griffith Park Master Plan working group has discouraged the location of any new maintenance yards in the park itself. Given this, a comparable site of considerable</p>

Name	Description
	<p>size would need to be identified at/near the Park to accommodate the CSY uses. This has not yet been accomplished and does not seem likely in the near-term.</p> <p>The CNCDY provides for the storage and maintenance of Bureau of Sanitation and Bureau of Street Services vehicles, including refuse trucks serving a large portion of the City. Its location offers fast and efficient access to major roads and freeways.</p> <p>In 2007, the City conducted an initial analysis of the cost and feasibility of relocating the functions of the site to other parcels currently for sale in Los Angeles County. From this investigation, the City estimates that the cost of purchasing new land would be approximately \$70-75 million, and the cost to construct new facilities and relocate the existing uses would be approximately \$130-170 million, yielding a total cost of approximately \$200-245 million.</p>
LACDA Footprint Only	<p>The District also examined whether an alternative wholly within the existing LACDA footprint in the study area was feasible. The LACDA boundary includes the channel bottom and sides with very limited rights of way on either side, much of which is occupied by bicycle paths on the west/south side of the river. The team concluded after consideration that a LACDA-footprint-limited alternative would not meet objectives because it would not meet the objective for restoring regional connectivity, and it would also be likely to fail the objective for restoring habitat because flow velocities would not be reduced sufficient to support restored habitat. Lands within the LACDA boundary are included in the alternatives including the TSP, but the lands within the boundary are not sufficient in themselves to support restoration objectives.</p>